

(b) (4) Report No. 38166  
Amendment No. 1 to Final Report

(b) (4)

**REPEAT-DOSE TOXICITY STUDY OF THREE LNP-FORMULATED  
RNA PLATFORMS ENCODING FOR VIRAL PROTEINS  
BY REPEATED INTRAMUSCULAR ADMINISTRATION  
TO WISTAR HAN RATS**

(Final Report dated 01 July 2020)

090177e194f4cf37\Approved\Approved On: 18-Sep-2020 13:38 (GMT)

Sponsor:  
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17 September 2020

This Amendment No. 1 to Final Report consists of 2233 pages and 4 pages.  
This is page I.

## REASONS FOR AMENDMENT NO. 1 TO FINAL REPORT

Upon request of the Sponsor, minor layout changes and/or corrections are made to the report that do not affect the validity and scientific results or the conclusions of the final report.

The following changes were made:

### 1. SUMMARY - FINDINGS

To improve readability and provide a more comprehensive summary, all Text tables are deleted from [Section 1.2](#) and replaced with references to the respective Text tables in the results section of the report.

Furthermore, in [Section 1.2](#) in the paragraph on local tolerance the finding of eschar formation was incorrectly described with occurrence on test days 14 and 15 instead of on test day 14 only. Additionally, in the paragraph on haematology and coagulation the finding of an increased number of eosinophils in groups 4, 5 and 7 was missing. Further, in the paragraph on clinical chemistry the directions of changes for albumin and globulin levels were incorrectly stated as an increase in albumin and a decrease in globulin plasma levels instead of a decrease in albumin and an increase in globulin plasma levels.

In this Amendment No. 1 to Final Report the incorrect finding of eschar formation and the incorrect directions of changes for albumin and globulin are corrected, and the finding of an increased number of eosinophils in groups 4, 5 and 7 is added.

### 2. TEST ITEM

In [Section 2.3.5](#) on test item no. 5, the designation for the test item was incorrectly given as 'modRNA' instead of 'saRNA'.

In this Amendment No. 1 to Final Report the incorrect designation is corrected.

### 3. RESULTS

In [Section 4.7](#) the finding of an increased number of eosinophils in groups 4, 5 and 7 was missing. Additionally, in [Section 4.8](#) the directions of change for albumin and globulin levels were incorrectly stated as an increase in albumin and a decrease in globulin plasma levels instead of a decrease in albumin and an increase in globulin plasma levels.

In this Amendment No. 1 to Final Report the incorrect directions of changes for albumin and globulin are corrected, and the finding of an increased number of eosinophils in groups 4, 5 and 7 is added.

#### 4. TABLES

In [Table 1 2](#) (Local Tolerance Erythema, Oedema, Induration, Hardening) the incorrect test item 'BNT162b1' instead of 'BNT162a1' was stated for Group 3. In addition, the grading scale as given in the footnote was specific for erythema only, and the gradings for oedema and indurations were missing.

In this Amendment No. 1 to Final Report the incorrect test item is corrected. The grading scale given in the footnote is referred to erythema, and additionally, for oedema and indurations the respective grading scales are given as a reference to [Section 3.8.3](#).

#### 5. ADDITIONAL CHANGES

In [Section 4. 1](#), the main sentence of the last sentence of the second paragraph was missing the verb "was noted", which is now added to the text (i.e. "[...] was noted on test day 14 [...]").

The following typing errors in the Final Report are corrected by this Amendment No. 1 to Final Report:

**Quality Assurance Statement:** Year of the Study Plan '16 March 2020' instead of '16 March 2019'.

**Section 4. 7:** In [Text table 4 9](#), for the parameter "eosinophils" the sex is corrected from 'm' to 'f'.

**Section 4.8:** In [Text table 4 12](#), for the parameter "globulin" the entry 'Group: 4, Sex: m, Test day: 17, Change: + 9.5% \* \*' is corrected to 'Group: 4, Sex: f, Test day: 4, Change:+ 9.5% \*'.

This amendment does not affect the validity of the data.

(b) (6), (b) (4)

17 Sep 2020  
Date

This Amendment No. 1 to Final Report has been audited by the Quality Assurance Unit (QAU) and is considered to be an accurate account of the project.

(b) (6), (b) (4)

17. Sep. 2020  
Date

(b) (4) Report No. 38166

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17 September 2020

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(b) (4)

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## STATEMENT OF COMPLIANCE

### REPEAT-DOSE TOXICITY STUDY OF THREE LNP-FORMULATED RNA PLATFORMS ENCODING FOR VIRAL PROTEINS BY REPEATED INTRAMUSCULAR ADMINISTRATION TO WISTAR HAN RATS

The study was performed in compliance with:

- 'Good Laboratory Practice' Regulations of the EC enacted in Germany in the 'Chemikaliengesetz' [Chemicals Act], current edition;
- 'OECD Principles of Good Laboratory Practice' Document No. 1 (ENV/MC/CHEM (98) 17) regulated in the Directive 2004/10/EC of the European Parliament and the Council of 11 February 2004.

These principles are compatible with 'Good Laboratory Practice' (GLP) regulations specified by regulatory authorities throughout the European Community, the United States (EPA and FDA) and Japan (MHLW, MAFF, and METI). Animal husbandry is performed in compliance with EU Welfare Standards (Directive 2010/63/EU).

Raw data obtained during the performance of the study are accurately reflected.

The analysis of dose exposure was conducted under the responsibility of the Sponsor and is excluded from this statement.

(b) (6), (b) (4)

17 Sep 2020

Date

## QUALITY ASSURANCE STATEMENT

Based on a quality assurance review, it was concluded that this report accurately reflects the raw data for the study. Methods, procedures and observations are correctly and completely described in the report:

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Study Plan dated 16 March 2020 and 9 Study Plan amendments.

Text table 1: Inspections of (b) (4) QAU

Date of inspection	Criteria	Date of report to the Study Director and the Management
16 Mar 2020	Study Plan.	16 Mar 2020
17 Mar 2020	Sponsor's visit: Prearrangements for test item preparation, administration, body temperature, local tolerance, documentation.	17 Mar 2020
24 Mar 2020	Body weight, blood withdrawal and processing for cytokine determination, time points of blood withdrawal, labels, administration, body temperature, local tolerance, documentation.	24 Mar 2020
31 Mar 2020	Blood withdrawal and processing for cytokine determination, time points of blood withdrawal, labels, administration, body temperature, local tolerance, documentation.	31 Mar 2020
08 Apr 2020	Urine collection, blood withdrawal and processing for laboratory examinations and for dose exposure analysis, dissection, organ removal, organ weights, documentation.	08 Apr 2020
21 Apr 2020	Body temperature, administration, blood withdrawal and processing, kinetics, labels, local tolerance, documentation.	21 Apr 2020
23 Apr 2020	Blood withdrawal and processing for laboratory examinations, dose exposure analysis and cytokine analysis, animal sacrifice, dissection, organ removal, organ weights, bone marrow smears, documentation.	23 Apr 2020
26 June and 29 June to 01 July 2020	Final Report.	01 July 2020
15 and 17 Sep 2020	Amendment to Final Report.	17 Sep 2020

In addition to the detailed study-based inspections, series of routine facility inspections were also conducted and reported to the Management.

(b) (6), (b) (4)

Approved and  
submitted by:

17.Sep.2020

Date

## EXPLANATIONS AND ABBREVIATIONS

### Symbols

<sup>1</sup> - n	reference to footnotes in text
#(n)	reference to footnotes in text tables
( )	animal number in the tables section
%	per cent
!	refer to result comment at the end of the table
...n	inappropriate for statistics (number of individual data values is less than 3 or all values were below lowest level of quantification, e.g. for cytokines)
↑	increase relative to study control range, but % difference not quantifiable due to lacking concurrent controls
↓	decrease relative to study control range, but % difference not quantifiable due to lacking concurrent controls

### Letters and acronyms

% Diff	percent difference (from control group)
a.m.	ante meridiem
abs.	absolute
ANOVA	analysis of variance
approx.	approximately
b.w.	body weight
EC	European Commission
EPA	Environmental Protection Agency (USA)
EU	European Union
f	female
FDA	Food and Drug Administration (USA)
GLP	Good Laboratory Practice
i.e.	id est (that is)
i.m.	intramuscular
Inj.	injection
LLOQ	lower limit of quantification
LNP	lipid nanoparticles
(b) (4)	(b) (4)
m	male
MAFF	Ministry of Agriculture, Forestry and Fisheries (Japan)
METI	Ministry of Economy, Trade and Industry (Japan)
MHLW	Ministry of Health, Labour and Welfare (Japan)
MS	main study
n, N	number (e.g. group size, sample size)
n/a	not applicable
ns	not statistically significant
OECD	Organization for Economic Co-Operation and Development
p.a.	post administration
p.m.	post meridiem
PBS	phosphate-buffered saline
PEG	polyethylene glycol
PrDs	predose

- Letters and acronyms continued on the next page -

FDA-CBER-2021-5683-0765726

**Letters and acronyms (*continued*)**

QAU	Quality Assurance Unit
RBD	receptor-binding domain
rel.	relative
RNA	ribonucleic acid
mRNA	messenger RNA
uRNA	uridine mRNA
modRNA	nucleoside-modified mRNA
saRNA	self-amplifying mRNA
RP	recovery period
SA	satellite animals
SARS	severe acute respiratory syndrome
SARS-CoV	SARS coronavirus
SD	standard deviation
SOP	Standard Operating Procedure
TD	test day
TS	terminal sacrifice
TW	test week
USA	United States of America

**Weights and measures**

°C	degree Celsius
cm	centimetre
dL	decilitre
fL	femtolitre
fmol	femtomole
g	gram
h	hour
kg	kilogram
L	litre
mg	milligram
min	minute
µg	microgram
µL	microlitre
µmol	micromole
mL	millilitre
mm	millimetre
mmol	millimole
sec	second
U	unit

**Measuring units**

Body weight in g  
Food intake in g/kg b.w./day  
Absolute organ weights in g  
Relative organ weights in g/kg b.w.  
Relative urine volume in mL/kg b.w./24 h

**Haematology / Coagulation**

aPTT	activated partial thromboplastin time
Baso	basophilic granulocytes

- Haematology / Coagulation continued on the next page -

**Haematology / Coagulation (continued)**

Eos	eosinophilic granulocytes
HCT	haematocrit
HGB	haemoglobin
LUC	large unclassified cells
Lym	lymphocytes
MCH	mean corpuscular haemoglobin
MCHC	mean corpuscular haemoglobin concentration
MCV	mean corpuscular volume
Mono	monocytes
MPC	mean platelet component
MPV	mean platelet (thrombocyte) volume
Neut	neutrophilic granulocytes
PDW	platelet distribution width
PLT	platelets
PT	prothrombin time
RBC	red blood cell count (= erythrocytes)
RDW	red cell distribution width
Reti	reticulocytes
WBC	white blood cell count (= leucocytes)

**Clinical chemistry**

Alb.	albumin
ALAT	alanine aminotransferase
aP	alkaline phosphatase
ASAT	aspartate aminotransferase
CK	creatinine kinase
Glob.	globulin
Gamma-GT	gamma-glutamyltransferase
LDH	lactate dehydrogenase

**Cytokines**

IFN-gamma	interferon-alpha
IL-1beta	interleukin-1 beta
IL-6	interleukin-6
IL-10	interleukin-10
TNF-alpha	tumour necrosis factor-alpha

**Urinalysis**

+	'small amount' of analyte/few in some fields examined
++	'moderate amount' of analyte/few in all fields examined
+++	'large amount' of analyte/many in all fields examined
ery	erythrocyte
LC	lemon-coloured
neg	negative/none found in any field examined
pos	positive
SC	straw-coloured

**Histopathology**

For explanations see the 'Histopathological Report' in [Section 6](#).

**Test item nomenclature**

For reasons of better readability and due to space restrictions, the dose levels used in the study are referred to using the designations given below instead of the full designations as given in [Section 2.3](#).

Group 2: 30  $\mu\text{g}$  BNT162a1/animal

Group 3: 10  $\mu\text{g}$  BNT162a1/animal

Group 4: 30  $\mu\text{g}$  BNT162b1/animal

Group 5: 100  $\mu\text{g}$  BNT162b1/animal

Group 6: 30  $\mu\text{g}$  BNT162c1/animal

Group 7: 100  $\mu\text{g}$  BNT162b2/animal

## 1. SUMMARY

### 1.1 Conduct of study

Test items	1) BNT162a1 2) BNT162b1 3) BNT162b2 4) BNT162c1
Control item	Buffer (PBS/300 mM Sucrose)
Test item batch nos.	1) CoVVAC/090320 2) CoVVAC/100320 3) CoVVAC/160320 4) CoVVAC/130320
Control item batch no.	090320
Test species / Strain / Stock	Rat / Wistar / Crl:WI(Han)
Breeder	(b) (4)  [REDACTED]
Number and sex of animals	255 animals (126 + <sup>1</sup> males and 126 females)
Route of administration	Intramuscular (i.m.) administration into the Musculus biceps femoris using a Microfine+ Syringe 0.5 mL, 0.33 mm (29G) × 12.7 mm (BD, 324824).
Frequency of administration	<u>Groups 1 to 5, and 7:</u> On test days 1, 8 and 15; in total 3 administration days at one-week intervals per animal.  <u>Group 6:</u> On test days 1 and 8; in total 2 administration days at a one-week interval per animal.  <u>Erroneously treated animals:</u> Single dose on test day 1
Administration volume	<u>Groups 1, 5, and 7:</u> 100 µL/administration site; 2 administration sites In total 200 µL/animal/administration day  <u>Groups 2 and 4:</u> 60 µL at one administration site In total 60 µL/animal/administration day

<sup>1</sup> Due to a short-term change of test item and dose level for group 3, three animals had already been treated with the originally planned test item and dose. These three animals were replaced by 3 spare animals for the correct treatment.

Group 3:

20  $\mu$ L at one administration site  
In total 20  $\mu$ L/animal/administration day

Group 6:

70  $\mu$ L at one administration site  
In total 70  $\mu$ L/animal/administration day

Erroneously treated animals:

100  $\mu$ L/administration site; 2 administration sites  
In total 200  $\mu$ L/animal/administration day

Dosages

Groups 1 to 7:

Group 1: Control (200  $\mu$ L Buffer/animal)  
Group 2: 30  $\mu$ g BNT162a1/animal  
Group 3: 10  $\mu$ g BNT162a1/animal  
Group 4: 30  $\mu$ g BNT162b1/animal  
Group 5: 100  $\mu$ g BNT162b1/animal  
Group 6: 30  $\mu$ g BNT162c1/animal  
Group 7: 100  $\mu$ g BNT162b2/animal

Erroneously treated animals:

100  $\mu$ g Test item 2 (BNT162a - 2)/animal

Duration of study

- 5 to 11 adaptation days
- 17 test days for groups 1 to 5 and group 7
- 10 test days for group 6
- 3 additional weeks for the animals scheduled for the recovery period

## 1.2 Findings

### Local tolerance

#### Treatment period

Local reactions were observed in male and female animals treated intramuscularly with **10 or 30 µg BNT162a1/animal**, **30 or 100 µg BNT162b1/animal**, or **100 µg BNT162b2/animal** on test days 1, 8, and 15, or with **30 µg BNT162c1/animal** on test days 1 and 8. The incidence and severity of the reactions were higher after the 2nd or 3rd injections compared with the 1st injection. The majority of animals revealed very slight to moderate oedema at the injection site(s) following the 1st, 2nd, and/or 3rd injection of the respective test item. A few animals had severe oedema at 48 h after the 2nd injection of **30 µg BNT162c1/animal** or 24 h after the 3rd injection of **100 µg BNT162b2/animal**. The majority of these observations of oedema were resolved or showed signs of resolution by 144 h postdose.

For a few animals, slight or well-defined erythema was also observed in test-item administered animals after the 1st, 2nd, and/or 3rd injection. In addition, after the 2nd or 3rd injection, transient observations of severe erythema were seen in all test article-dosed groups, except for **30 µg BNT162b1/animal**, starting at 96 h after administration. Occasionally these observations of severe erythema continued over several days and/or were associated with wounds or scar tissue in individual animals administered **30 µg BNT162a1/animal** or **30 µg BNT162c1/animal**.

On test day 14, eschar formation was observed at the injection site for 5 male and 6 female animals treated with **30 µg BNT162a1/animal**, which resulted in the decision to move the dosing site to the contralateral limb in 6 animals on test day 15.

The injection site appeared to be painful for 4 of 15 male animals and 12 of 15 female animals treated with **30 µg BNT162a1/animal** on test day 9 and for one male animal also on test day 10.

An indurated and/or thickened injection site, partly accompanied by incrustation, was noted for nearly all animals in all treatment groups at macroscopic inspection at necropsy.

The microscopic examination revealed that test item-related injection site reactions were present in all groups and characterized by mostly moderate inflammation (up to marked) in males

and moderate inflammation in females. The most severe findings were consistently in animals administered **100 µg BNT162b1/animal** and **100 µg BNT162b2/animal**, followed by animals administered **30 µg BNT162a1/animal**. The inflammation was characterized by infiltrates of macrophages, granulocytes, and lymphocytes into the muscle, and variably into the dermis and subcutis, at the injection site. Injection site inflammation was associated with mostly moderate oedema, mostly mild myofiber degeneration, occasional muscle necrosis, and mostly mild fibrosis. Skin ulceration (mild and moderate) was identified in some males and females administered either **10 or 30 µg BNT162a1/animal** and one animal administered **30 µg BNT162c1/animal**. Inflammation extended into tissues adjacent to the injection site, including mammary tissue, perineural tissue of sciatic nerve, tissue around the femur / knee and to the draining lymph node (iliac).

Microscopic injection site findings correlated with macroscopic observations of thickening, induration, and incrustation. Injection site findings were consistent with an immune/inflammatory response to intramuscular vaccine administration.

#### Recovery period

The local skin reactions and the indurations and/or thickenings noted macroscopically for the muscle at the injection site(s) were resolved at the end of the recovery period.

Most of the microscopic findings noted at the injection sites, iliac lymph node, surrounding tissue of the injection sites (surrounding tissue of bone, os femoris with joint; perineural tissue of sciatic nerve; interstitial tissue of mammary gland, and skeletal muscle) partially or fully recovered at the end of the 3-week recovery period. Some inflammatory lesions were still noted at the injection sites and the surrounding tissue of some animals.

#### Clinical signs

#### Treatment and recovery period

None of the male and female animals treated intramuscularly with **10 or 30 µg BNT162a1/animal**, **30 or 100 µg BNT162b1/animal** or **100 µg BNT162b2/animal** on test days 1, 8, and 15 (3 administrations), or with **30 µg BNT162c1/animal** on test days 1 and 8 (2 administrations) revealed any test item-related systemic changes in

behaviour, external appearance, or consistency of faeces.

Mortality

**BNT162a1, BNT162b1, BNT162b2, BNT162c1**

Treatment and recovery period

No test item-related deaths were noted for any treatment.

Body weight and body weight gain

**BNT162a1, BNT162b1, BNT162b2, BNT162c1**

Treatment period

Slightly decreased body weights and body weight gain were present in all test-item treated groups compared to controls. Body weight decreases were primarily due to decreases in body weight 24 h after dosing. However, body weight gain during the inter-dosing interval was similar to controls.

In summary, the absolute body weight was affected, but the body weight gain between dosing was not.

Recovery period

No noteworthy changes were noted.

Food and drinking water consumption

Treatment period

**BNT162a1 - Group 2**

The food consumption of the male and female animals treated with **30 µg BNT162a1/animal** appeared to be slightly decreased by up to 7.2% in test week 1 and 2. The effect is considered to be test item-related.

No test item-related influence was noted on the drinking water consumption by visual appraisal. The consumption was not quantified.

**BNT162b1, BNT162b2, BNT162c1**

No test item-related influence was observed on the food intake and the drinking water consumption.

Recovery period

No noteworthy changes were noted.

Body temperature

Treatment period

**BNT162a1, BNT162b1, BNT162b2, BNT162c1**

Intramuscular administration with **10 or 30 µg BNT162a1/animal, 30 or 100 µg BNT162b1/animal, or 100 µg BNT162b2/animal** on test days 1, 8, and 15, or with **30 µg BNT162c1/animal** on test days 1 and 8 led to slightly increased body

temperatures at 4 h p.a. and/or 24 h p.a. compared to the control animals. The effect appeared to be slightly more pronounced in the groups treated with the higher test item dose levels (i.e. groups 2, 5, 6, and 7).

Recovery period

During the recovery period, the body temperature remained at a slightly higher level compared to the control group in all previously test item treated groups.

**Haematology and coagulation**

Treatment period

The most consistent test item-related haematological changes were dose-related increases in neutrophils and large unstained cells (LUC), which were seen with all test items on test day 17, but were greatest in groups 2, 5 and 7 and were greater in females relative to males. Other test item-related changes included decreases in the absolute and relative reticulocyte count (test day 4 only), platelet count, and red cell mass (HGB, HCT and RBC; test day 17 only), and increases in the numbers of leucocytes, monocytes, eosinophils, basophils and/or fibrinogen concentrations.

**BNT162a1 - Groups 2 and 3**

Test item-related changes included decreases in the absolute and relative reticulocyte count, the number of platelets, and red cell mass, and increases in the numbers of leucocytes, neutrophils, monocytes, large unstained cells (LUC), basophils and/or the levels of fibrinogen as given in [Text table 4-5](#).

Recovery period

All changes fully reversed by the end of the recovery phase.

**BNT162b1 - Groups 4 and 5**

Test item-related changes included decreases in the absolute and relative reticulocyte count, the number of platelets, and red cell mass, and increases in the numbers of leucocytes, neutrophils, monocytes, eosinophils, large unstained cells (LUC), basophils and/or the levels of fibrinogen as given in [Text table 4-6](#).

Recovery period

All changes fully reversed by the end of the recovery phase.

**BNT162c1 - Group 6**

Test item-related changes included decreases in the absolute and relative reticulocyte count, the number of platelets, and red cell mass, and increases in the numbers of leucocytes, neutrophils, monocytes, large unstained cells (LUC), basophils and/or the levels of fibrinogen as given in [Text table 4-7](#).

Recovery period

All changes fully reversed by the end of the recovery phase.

**BNT162b2 - Group 7**

Test item-related changes included decreases in the absolute and relative reticulocyte count, the number of platelets, and red cell mass, and increases in the numbers of leucocytes, neutrophils, monocytes, eosinophils, large unstained cells (LUC), basophils and/or the levels of fibrinogen as given in [Text table 4-8](#).

Recovery period

All changes fully reversed by the end of the recovery phase.

Clinical chemistry

Treatment period

**BNT162a1, BNT162b1, BNT162b2, BNT162c1**

An elevated plasma activity of gamma-glutamyltransferase (gamma-GT) was noted for all test item-treated groups in comparison to the control group as given in [Text table 4-10](#). There were no macroscopic or microscopic findings consistent with cholestasis or hepatobiliary injury to explain the increased gamma-GT activity.

Further, a decrease in albumin plasma levels and an increase in globulin plasma levels, resulting in an altered albumin/globulin ratio, were observed in all test item treated groups. The changes are consistent with an acute phase response in albumin and globulin where albumin goes down and globulin goes up with inflammation, and the albumin/globulin ratio decreases.

Recovery period

The elevated plasma activity of gamma-GT had subsided in all previously test item-treated groups.

Urinalysis

Treatment and recovery period

No test item-related changes were noted.

Immunogenicity assessment (performed by BioNTech SE, Germany)

The available data demonstrates that all BNT162 vaccine candidates elicited a SARS-CoV-2 spike protein specific antibody response directed against the S1 domain and the RBD sub-domain. Antibody responses detected via ELISA directly translated into neutralizing activity as seen in the VSV/SARS-CoV2-S pseudovirus neutralization test with BNT162 vaccines showing higher antigen-specific antibody titers also displaying more pronounced virus neutralization effect. A comparison of the three RNA platforms with regard to their immunogenicity in rats may not be fully predictive for how they may perform relative to each other in human due to species-specific differences in immunity mechanisms.

Ophthalmological and auditory examination

No changes were noted.

Acute phase proteins

Treatment period

**BNT162a1, BNT162b1, BNT162b2, BNT162c1**

Elevated serum levels of the acute phase proteins alpha1-acid glycoprotein and alpha2 macroglobulin were noted for all test item-treated groups in comparison to the control group on test day 4 and test day 10 to 17 as given in [Text table 4-14](#) and [Text table 4-15](#).

Recovery period

The elevated serum levels of alpha1-acid glycoprotein and alpha2 macroglobulin noted during the treatment period had subsided in all previously test item-treated groups.

Cytokines

Treatment and recovery period

**BNT162a1, BNT162b1, BNT162b2, BNT162c1**

No test item-related changes were noted for any treatment. There were no general differences between the test item-treated groups and the control group and among the various test item-treated groups.

Macroscopic *post mortem* findings

Terminal sacrifice

**BNT162a1, BNT162b1, BNT162b2, BNT162c1**

Test item-related findings were noted for all test items and all dose levels in male and female animals as given in [Text table 4-19](#), [Text table 4-20](#) and [Text table 4-21](#).

All changes noted macroscopically were interpreted to be due to inflammation at the injection site and/or immune activation.

Recovery sacrifice

All macroscopic findings noted in the spleen had subsided at the end of the 3-week recovery period.

Enlarged iliac lymph nodes were still noted for a few animals at the end of the 3-week recovery period as follows:

Group 4

(30 µg BNT162b1/animal): One of 5 females.

Group 5

(100 µg BNT162b1/animal): All 5 males, 2 of 5 females.

Group 7

(100 µg BNT162b2/animal): One of 5 males, 3 of 5 females.

Organ weightsTerminal sacrifice**BNT162a1, BNT162b1, BNT162b2, BNT162c1**

The macroscopic findings of enlarged spleens correlated with increased relative and absolute spleen weights and are identified in [Text table 4-22](#).

Recovery sacrifice

There were no noteworthy differences in the organ weights between the previously test item-treated animals and the control animals after 3-weeks of recovery.

HistopathologyTerminal sacrifice

Test item-related microscopic findings at the end of dosing were evident in injection sites and surrounding tissues, increased cellularity of germinal centres and increased plasma cells in the draining (iliac) lymph nodes, bone marrow, spleen, and liver.

For details on the findings at the injection sites refer to 'Local tolerance' further above.

Test item-related findings in the draining (iliac) lymph node were characterized by increased cellularity of the follicular germinal centres and increased plasma cells (plasmacytosis) which were variably present in all groups.

Test item-related minimal to mild increases in the cellularity of bone marrow and extramedullary haematopoiesis in the spleen (which correlated with increased spleen size and weight), and a test item-related vacuolation of hepatocytes in the portal regions of the liver were present in all groups. The liver findings were not associated with changes in markers of hepatocyte injury.

(e.g. ALAT). While gamma-GT was elevated in test-item treated animals, it is not a marker of hepatocyte injury.

The test item-related findings are summarised in [Text table 4-24](#), [Text table 4-25](#) and [Text table 4-26](#).

Recovery sacrifice

Most of the microscopic findings noted at the injection sites, iliac lymph node, surrounding tissue of the injection sites (surrounding tissue of bone, os femoris with joint; perineural tissue of sciatic nerve; interstitial tissue of mammary gland; skeletal muscle) and spleen were partially or completely recovered in all animals at the end of the recovery period. Some inflammatory lesions were still noted at the injection sites and the surrounding tissue of some animals, being less severe (minimal to mild) if not resolved; plasmacytosis in the iliac lymph node was less severe and present in fewer groups (**30 or 100 µg BNT162b1/animal or 100 µg BNT162b2/animal**), indicating partial or complete recovery.

The test item-related minimal to mild increases in the cellularity of bone marrow and extramedullary haematopoiesis in the spleen, and the vacuolation of hepatocytes in the portal regions of the liver were fully recovered.

### 1.3 Conclusion

Intramuscular administration of 4 LNP-formulated RNA vaccines (based on 3 LNP-formulated RNA platforms) encoding viral proteins once weekly for 2 or 3 administrations to male and female Wistar Han rats was tolerated without evidence of systemic toxicity and produced the expected local inflammatory reaction. Treatment groups included: **10 or 30 µg BNT162a1/animal**, **30 or 100 µg BNT162b1/animal**, or **100 µg BNT162b2/animal** on test days 1, 8, and 15 (3 administrations), or with **30 µg BNT162c1/animal** on test days 1 and 8 (2 administrations).

No test item-related deaths were noted for any treatment. There were no test-item related ophthalmologic or auditory alterations. None of the animals of any treatment group revealed any test item-related systemic changes in behaviour, external appearance, or consistency of faeces.

Clinical findings included slightly decreased body weights and body weight gain and transient slight elevations in body temperatures at 4 and 24 h after dosing for all test-item treated groups compared to controls. Body weight decreases were primarily due to decreases in body weight 24 h after dosing; however, body weight gain during the inter-dosing interval was similar to controls. A slightly reduced food consumption was noted for the animals treated with **30 µg BNT162a1/animal** in test weeks 1 and 2.

Test-article related injection site observations included oedema, erythema, and induration; oedema was the most common finding, followed by erythema, and very rarely induration. The incidence was higher and observations were more severe after the second and or third dose administration compared to the first administration, but resolved prior to subsequent dosing and were fully recovered at the end of the 3-week recovery period. Macroscopic findings at the injection sites included induration or thickening, occasionally accompanied by incrustation, which was noted for nearly all test article-treated animals. This correlated microscopically to inflammation in all test article-administered animals. Inflammation was mixed to mononuclear with variable fibrosis, oedema, and myofiber degeneration (rare necrosis).

Inflammation was most severe in animals dosed with **100 µg BNT162b1/animal** or **100 µg BNT162b2/animal**, followed by **30 µg BNT162a1/animal**. The findings were typical of an inflammatory response to vaccine antigen and lipid nanoparticle. Inflammation was occasionally evident extending into tissues adjacent to the injection site. Inflammation at the injection site was accompanied by elevations in circulating white blood cells (granulocytes, monocytes, and LUC) and acute phase proteins (fibrinogen, alpha-2 macroglobulin, and alpha-1 acid glycoprotein).

At the end of the 3-week recovery phase, all clinical injection site findings, clinical pathology findings and macroscopic observations had resolved and there was evidence of recovery of the injection site inflammation microscopically. The injection site findings were not interpreted as adverse because of limited severity, lack of systemic findings, and absence of clinical signs of lameness.

Test-article related macroscopic enlargement of the draining (iliac) lymph nodes was evident at the end of dosing. Microscopically, this finding correlated with increased cellularity of germinal centres and increased plasma cells in the draining (iliac) lymph node and is an anticipated immune response to the administered vaccine and LNP. At the end of the 3-week recovery, a few animals treated with **BNT162b1** or **BNT162b2** (30 µg and/or 100 µg/animal) still had slightly enlarged iliac lymph nodes. All other test item-related changes had subsided.

Effects considered secondary to immune activation/acute phase responses and inflammation at the injection site included transient reticulocyte decreases (test day 4 only), minimal decreases in RBC, HGB, and HCT on test day 17 only, and sporadic small magnitude decreases in platelets. Platelet reductions were likely due to inflammation-related platelet activation and consumption and were unassociated with other alterations in haemostasis. These effects had subsided after the 3-week recovery period.

Test-article related macroscopic enlargement of spleen and associated absolute and relative spleen weights correlated microscopically to increased haematopoiesis; this finding was resolved at the end of the 3-week recovery period. Increased haematopoiesis was also evident in the bone marrow. Both findings were secondary to inflammation at the injection site and were fully resolved at the end of the 3-week recovery period.

Test-article related microscopic vacuolation of portal hepatocytes was present in all groups, with a higher incidence in females than males for all but the groups that were administered 100 µg/animal **BNT162b1** or **BNT162b2**. This finding was not adverse because it was unassociated with alterations in hepatic function (e.g. no elevations in ALAT) and was fully reversed at the end of the 3-week recovery period. This change may be related to hepatic clearance of the pegylated lipid in the LNP.

No test item-related changes were observed for cytokine serum levels.

Elevations in GGT were evident in all test-item treated animals. There were no macroscopic or microscopic findings consistent with cholestasis or hepatobiliary injury to explain the increased gamma-GT activity which was completely resolved at the end of the 3-week recovery period.

Immunogenicity assessment demonstrated that all BNT162 vaccine candidates elicited a SARS-CoV-2 spike protein specific antibody response directed against the S1 domain and the RBD sub-domain. Antibody responses detected via ELISA directly translated into neutralizing activity as seen in the VSV/SARS-CoV2-S pseudovirus neutralization test with BNT162 vaccines showing higher antigen-specific antibody titers also displaying more pronounced virus neutralization effect.

In conclusion, administration of vaccine candidates **BNT162a1**, **BNT162b1**, **BNT162b2**, or **BNT162c1** via intramuscular injections weekly for 2 or 3 administrations to male and female Wistar Han rats was tolerated without evidence of systemic toxicity and produced nonadverse inflammatory changes at the injection sites and the draining lymph nodes, increased haematopoiesis in the bone marrow and spleen, and clinical pathology changes consistent with an immune response or inflammation in the injection sites. The findings in this study are reversible, consistent with those typically associated with the intramuscular administration of antigens and/or LNPs.

(b) (6), (b) (4)

17 Sep 2020  
Date

## 2. GENERAL INFORMATION

### 2.1 Aim of study

The aim of the study was to obtain information on the toxicity of four vaccines based on three LNP-formulated RNA vaccine platforms encoding for viral proteins administered once weekly by intramuscular administration to rats and to assess the reversibility of any effect after a 3-week recovery period.

### 2.2 Duration of study

- 5 to 11 adaptation days
- 17 test days for groups 1 to 5 and group 7
- 10 test days for group 6
- 3 additional weeks for the animals scheduled for the recovery period

### 2.3 Test items and control

#### 2.3.1 Control (for group 1)

Designation	Buffer (PBS/300 mM Sucrose)
Batch no.	090320
Receipt no.	69570 (one vial with a gross weight of 66.76 g)
Date of receipt	13 March 2020
Characteristics	Liquid
Storage conditions	At +2°C to +8°C
Stability/Retest date	No data available to (b) (4). No Certificate of Analysis was available to (b) (4).
Retention sample	Stored in (b) (4) archives.

#### 2.3.2 Test item 1 (for groups 2 and 3)

Designation	"RBL063.3" (BNT162a1)
Content	LNP formulated uRNA encoding the RBD subunit of SARS-CoV-2 S protein ("BNT162a - 1")
Batch no.	CoVVAC/090320
Receipt no.	69571 (100 vials with 500 µL each)

Date of receipt	13 March 2020
Characteristics	Frozen liquid (at receipt at (b) (4))
Storage conditions	At -70 °C or colder
Stability/Retest date	September 2020
Concentration	517 µg RNA/mL
	For further details see the Certificate of Analysis in <a href="#">Appendix 1</a> .
Retention sample	Stored in (b) (4) archives.

### 2.3.3 Test item 3 (for groups 4 and 5)

Designation	"RBL020.3" (BNT162b1)
Designation	LNP formulated modRNA encoding the RBD subunit of SARS-CoV-2 S protein ("BNT162b - 1")
Batch no.	CoVVAC/100320
Receipt no.	69573 (100 vials with 500 µL each)
Date of receipt	13 March 2020
Characteristics	Frozen liquid (at receipt at (b) (4))
Storage conditions	At -70 °C or colder
Stability/Retest date	September 2020
Concentration	508 µg RNA/mL
	For further details see the Certificate of Analysis in <a href="#">Appendix 1</a> .
Retention sample	Stored in (b) (4) archives.

### 2.3.4 Test item 4 (for group 7)

Designation	"RBP020.1" (BNT162b2)
Designation	LNP formulated modRNA encoding the RBD subunit of SARS-CoV-2 S protein ("BNT162b - 2")
Batch no.	CoVVAC/160320

Receipt no. 69580 (100 vials with 500  $\mu$ L)  
Date of receipt 20 March 2020  
Characteristics Frozen liquid (at receipt at (b) (4))  
Storage conditions At -70°C or colder  
Stability/Retest date September 2020  
Concentration 554  $\mu$ g RNA/mL  
For further details see the Certificate of Analysis in [Appendix 1](#).  
Retention sample Stored in (b) (4) archives.

### 2.3.5 Test item 5 (for group 6)

Designation "RBS004.3" (BNT162c1)  
Designation LNP formulated saRNA encoding the RBD subunit of SARS-CoV-2 S protein ("BNT162c - 1")  
Batch no. CoVVAC/130320  
Receipt no. 69581 (70 vials with 500  $\mu$ L)  
Date of receipt 20 March 2020  
Characteristics Frozen liquid (at receipt at (b) (4))  
Storage conditions At -70°C or colder  
Stability/Retest date September 2020  
Concentration 430  $\mu$ g RNA/mL  
For further details see the Certificate of Analysis in [Appendix 1](#).  
Retention sample Stored in (b) (4) archives.

### 2.3.6 Test item 2

**Test item 2 was not scheduled to be used as test item in the study.** However, 3 animals were treated erroneously with this test item (see also [Section 3.7](#)).

Designation	"RBL063.1" (BNT162a - 2)
Designation	LNP formulated modRNA encoding the RBD subunit of SARS-CoV-2 S protein ("BNT162a - 2")
Batch no.	CoVVAC/110320
Receipt no.	69572 (100 vials with 500 µL)
Date of receipt	13 March 2020
Characteristics	Frozen liquid (at receipt at (b) (4))
Storage conditions	At -70°C or colder
Stability/Retest date	September 2020
Concentration	481 µg RNA/mL
Retention sample	Stored in (b) (4) archives.

### 2.4 Identification of the test items

After receipt at (b) (4), the test items were inspected. Batch numbers, amounts, and characteristics (colour and consistency) were determined and compared with information given by the Sponsor (see text table below). Identification sheets were filed with the raw data.

Text table 2-1: Identification of the test item

Test item / Control	Parameter	(b) (4) identification#	Sponsor identification##
Control: Buffer (PBS/300 mM Sucrose)	colour consistency	clear liquid	white to off-white suspension
BNT162a1	colour consistency	slightly turbid liquid	white to off-white suspension
BNT162b1	colour consistency	slightly turbid liquid	white to off-white suspension
BNT162b2	colour consistency	slightly turbid liquid	white to off-white suspension
BNT162c1	colour consistency	slightly turbid liquid	white to off-white suspension

# Identified before usage, in thawed condition, at room temperature.

## According to Certificates of Analysis, for the thawed conditions of the test items.

No further identification was performed by (b) (4).

## 2.5 Sponsor / Test Facility / Responsible personnel

Sponsor BioNTech RNA Pharmaceuticals  
An der Goldgrube 12  
55131 Mainz  
Germany

Sponsor's contact person (b) (6)  
[REDACTED]

Test Facility (b) (4)  
[REDACTED]

Branch facility (b) (4)  
[REDACTED]

Study Director Until 31 May 2020  
(b) (6), (b) (4)  
[REDACTED]

As of 01 June 2020  
(b) (6), (b) (4)  
[REDACTED]

Deputy Study Director (b) (6), (b) (4)

Test Facility Management

Haematology / Clinical chemistry /  
Coagulation / Cytokine Analysis /  
Blood sampling

Acute phase protein analysis

Veterinarian / Macropathology

Histopathology

Statistics

Quality Assurance Unit (QAU)

## 2.6 Rules and regulations

### 2.6.1 Good Laboratory Practice

The study was performed in compliance with the 'Good Laboratory Practice' regulations (see the [Statement of Compliance](#) on page 5 and the enclosed 'GLP Certificate of the Test Facility <sup>(b) (4)</sup>' in [Appendix 3](#)).

### 2.6.2 Standard Operating Procedures and staff safety

Standard Operating Procedures (SOPs) All work was carried out according to Standard Operating Procedures which were followed for all stages of the study. The SOPs could be inspected in those divisions, which were engaged in the study and in the Quality Assurance Unit (QAU).

Staff safety The standard safety precautions operating within the department were applied to this study.

### 2.6.3 Archiving and storage

Archives of data and specimens **During the study**

*All data generated at the Branch Facility:*

In the depot

(b) (4)

*All remaining data:*

In the depot

(b)

(4)

**After reporting**

The final report and the amendment no. 1 to final report will be archived by the Sponsor.

A copy of the final report, the amendment no. 1 to final report and all specimens, written raw data, and other study-related documents listed in the Study Plan section 'Study Materials to be Archived' are stored in the <sup>(b) (4)</sup> archives. The duration of storage (15 years) will be in compliance with the GLP regulations as stated in the German Chemicals Act ("Chemikalien-gesetz").

All archived study materials will be destroyed after the 15-year GLP storage period unless the Sponsor requests otherwise.

Upon expiry of the 15-year archiving period, the Sponsor will be given three weeks' notice before the study documentation and samples are destroyed by (b) (4). The Sponsor must respond within the 3-week notification period if testing documentation is to be transferred to the Sponsor (shipping fees will be billed). If (b) (4) does not receive any response from the Sponsor, the study documentation and samples will be destroyed.

To avoid any doubt, it is the responsibility of the Sponsor to provide (b) (4) with a valid contact. The archived documentation and samples will be destroyed without Sponsor notification after 15.5 years of archiving if (b) (4) cannot contact the Sponsor because

- a valid Sponsor contact has not been provided  
or
- the Sponsor company no longer exists  
or
- (b) (4) has not been advised of the legal successor.

Three months after the issuance of the Final Study Report, any samples or aliquots not listed in the Study Plan section 'Study Materials to be Archived' and still remaining at (b) (4) will be listed. This list will be forwarded to the Sponsor who will decide which of these samples or aliquots will be dispatched and which samples or aliquots will be destroyed at (b) (4).

## 2.7 Study dates

Code number of the study  
in the raw data 38166

### Start of study

Date of Study Plan 16 March 2020

Study Plan amendments No. 1, dated 17 March 2020  
No. 2, dated 23 March 2020  
No. 3, dated 25 March 2020  
No. 4, dated 03 April 2020  
No. 5, dated 06 April 2020  
No. 6, dated 08 April 2020  
No. 7, dated 20 April 2020  
No. 8, dated 29 May 2020  
No. 9, dated 18 June 2020

Text table 2-2: In-life Schedule - Study dates

Animals	First administration	End of in-life period
All main study animals of groups 1, 2 and 4	17 March 2020	02 April 2020
All recovery animals of groups 1, 2 and 4	17 March 2020	23 April 2020
All main study animals of groups 3, 5 and 7	23 March 2020	08 April 2020
All recovery animals of groups 3, 5 and 7	23 March 2020	29 April 2020
All main study animals of group 6	23 March 2020	01 April 2020
All recovery animals of group 6	23 March 2020	22 April 2020
Three erroneously treated animals (non-GLP)	23 March 2020	26 March 2020
All satellite animals of groups 1, 2 and 4	24 March 2020	09 April 2020
All satellite animals of groups 3, 5 and 7	14 April 2020	30 April 2020
All satellite animals of group 6	14 April 2020	23 April 2020

Date of Final Report 01 July 2020

Date of Amendment No. 1  
to Final Report 17 September 2020

## 2.8 Study Plan deviations

The study was conducted in accordance with the Study Plan and 9 Study Plan amendments. There was no major deviation from the Study Plan and the Study Plan amendments. However, the following minor deviations were noted:

### Animals

A few male and female animals exceeded the allowed body weight range of 10% of the mean weight for each sex at the time of selection. This deviation was due to the limited availability of animals that fully met the required body weight criteria from the breeder.

Two (2) of the 10 delivered female satellite animals designated for blood sampling via the femoral vein catheter showed inflammations at the vascular access button. Hence, these animals were excluded from the study. However, 9 of the 10 animals originally delivered were needed to start dosing as scheduled. Therefore, a female spare animal from the main study animals that was not equipped with a femoral vein catheter was inserted into the satellite group (no. 215). Blood sampling was performed by means of retrobulbar vein puncture from this animal.

### Animal housing

A malfunctioning of the air conditioning system caused relative humidity values in the animal room that temporarily fell slightly below the lower admissible limit of 40% on a few test days. The room temperature did not exceed the maximum range during the study period.

### Administration

On test day 15, the male animals nos. 32, 34, 37, 39 and 42, and the female animal no. 60 (all of group 2) were dosed intramuscularly in the left hind leg contrary to the previous administrations, which were performed in the right hind limb. This change was due to local tolerance findings (eschar formation) which developed after administration on test day 8. In the affected animals, both administration sites were fixed at necropsy and processed for histological examinations.

### Organ weights

The spleen of the female animal no. 144 was not weighed during necropsy.

These minor deviations that were not covered by Study Plan amendments did not affect the validity and integrity of the scientific results obtained during the study.

### 3. MATERIALS AND METHODS

#### 3.1 Animals

Wistar Han rats supplied by (b) (4) were used in this study. The satellite animals were supplied with a pre-implanted femoral vein catheter for repeated blood sampling.

An initial health check was performed upon delivery of the animals. Only animals free of signs of illness were selected for the study.

The animals were allocated to the test groups based on body weight by means of a computerized randomization program (see [Section 3.7](#)). Animals with a body weight at the extremes of the weight distribution, if any, were excluded and replaced by healthy spare animals. No replacements occurred after the first dose had been administered.

Test species / Strain / Stock	Rat / Wistar / Crl:WI(Han)
Breeder	(b) (4)   
Number and sex of animals	255 animals (129 males and 126 females)  <u>Main study (MS)</u> 143 animals (70 + 3 males and 70 females)  Due to the short-term change of test item and dose level - from 100 µg Test item 2 (BNT162a2)/animal to 10 µg BNT162a1/animal - for group 3 (according to Study Plan amendment no. 2), three male animals had already been dosed with the originally planned dose of 100 µg Test item 2 (BNT162a2)/animal. These three animals of group 3 were replaced by 3 spare animals (see also <a href="#">Section 3.7</a> ).  <u>Recovery period (RP)</u> 70 animals (35 males and 35 females)  In addition, 20 spare animals (10 males and 10 females) were available for possible replacement. Three of the male spare animals were used to replace the erroneously dosed animals (see above, and <a href="#">Text table 3-2</a> ). One of the female spare animals was used as a satellite animal (no. 215, see <a href="#">Section 2.8</a> ).

Satellite animals (SA)

42 animals (21 males and 21 females)

In addition, 6 spare satellite animals (3 males and 3 females) were available for possible replacement.

The satellite animals were supplied in two separate shipments (10 animals per sex for groups 1/2/4, and 14 animals per sex for groups 3/5/6/7) to <sup>(b) (4)</sup>. Two (2) of the 10 animals of the shipment for groups 1/2/4 showed inflammations at the vascular access button and were excluded from the study. As 9 animals were needed to start dosing as scheduled, one female spare animal from the main study animals not equipped with a vascular access button was used as satellite animal (see further above).

Age  
(at 1st dosing)

Groups 1, 2, and 4:  
Males and females: 54 days

Body weight  
(at 1st dosing)

Males: 252.8 to 343.9 g  
Females: 188.3 to 267.3 g

Selection of species

The rat is a commonly used rodent species for toxicity studies. It can receive the full human dose and develops an immune response similar to the expected human response after vaccination.

Identification of animals

After randomisation, each rat received a continuous number on the tail, either by tattoo or marker. Additionally, the animal cages were labelled with study number, animal ID number, sex, type of study, route of administration, and treatment group.

Adaptation period

Groups 1, 2, and 4: 5 days  
Groups 3, 5, 6, and 7: 11 days

### 3.2 Housing and feeding

#### 3.2.1 Diet

A certified commercial pellet diet (ssniff® R/M-H V1534, ssniff Spezialdiäten GmbH, 59494 Soest, Germany; see [Appendix 2: 'Composition of the Diet'](#)) served as food. The food was offered *ad libitum*. Food residue was removed and weighed.

Periodic analysis of the food for contaminants based on EPA/USA<sup>2</sup> is conducted at least twice a year by (b) (4)<sup>3</sup> (see [Appendix 2: 'Limitation for Contaminants in the Diet'](#)). Certificates of analysis of the composition and for contaminants were provided by the manufacturer and were included in the raw data.

#### 3.2.2 Drinking water

Drinking water was offered *ad libitum*.

Samples of drinking water are taken by Wasserwerk Wankendorf and periodic analyses are performed by (b) (4) according to the 'Deutsche Trinkwasser-verordnung 2001' [German Regulations on Drinking Water 2001]<sup>4</sup> (see [Appendix 2: 'Limitation for Contaminants in the Drinking Water'](#)).

In addition, drinking water samples taken at (b) (4) are analysed by (b) (4) once a year for means of bacteriological investigations according to the 'Deutsche Trinkwasserverordnung 2001, Anlage 1' [German Regulations on Drinking Water 2001, Addendum 1].

#### 3.2.3 Housing

The animals were kept singly in MAKROLON cages (type III plus) with a basal surface of approximately 39 cm × 23 cm and a height of approximately 18 cm at a room temperature of 22°C ± 3°C (maximum range) and a relative humidity of 55% ± 10% (maximum range). Deviations from the maximum range caused for example during cleaning procedures were dealt with in SOPs.

The rooms were lit (about 150 lux at approx. 1.5 meters room height) and darkened for periods of 12 hours each.

<sup>2</sup> EPA/USA, Proposed Health Effects Test Standards for Toxic Substances Control Act Test Rules, Federal Register 44, 27334 - 27375, May 1979.

<sup>3</sup> (b) (4)

<sup>4</sup> Version from 02 August 2013, revised on 20 December 2019.

Granulated textured wood (Granulat A2, J. Brandenburg, 49424 Goldenstedt, Germany) was used as bedding material for the cages. The cages were changed and cleaned once a week.

Periodic analysis of the bedding material for contaminants based on EPA/USA is conducted at least once a year by (b) (4) (see [Appendix 2: 'Limitation for Contaminants in the Bedding Material'](#)).

### 3.3 Dose selection

The dose levels for this study had been selected in agreement with the Sponsor based on the anticipated clinical doses.

### 3.4 Test item preparation

The test items were delivered ready-to-use.

The LNP suspensions for dosing were used within 6 hours after thawing.

#### Protocol:

1. The test item vials required were thawed by removing from the -80°C ± 8°C storage and allowed to warm to room temperature (approximately 30 minutes).
2. Each vial was mixed by gently inverting three times. The vials were neither mixed vigorously nor vortexed.
3. The vial's flip cap was flipped off.
4. The needle was inserted through the stopper into a vial and the appropriate volume per animal withdrawn. The procedure was repeated until the total needed volume per animal had been obtained. A new syringe (including needle) was used for each animal.
5. After the last administration of a day, any remaining volumes of the thawed test items were discarded; remnants were not re-frozen or re-used.

### 3.5 Test item formulation analysis

As the test items were delivered ready-to-use no formulation analysis was required.

### 3.6 Administration

Route of administration      Intramuscular (i.m.) administration into the *Musculus biceps femoris* using a Microfine+ Syringe 0.5 mL, 0.33 mm (29G) × 12.7 mm (BD, 324824).

Frequency of administration

Groups 1, 2, 3, 4, 5 and 7:

On test days 1, 8 and 15; in total 3 administration days at one-week intervals per animal.

Group 6:

On test days 1 and 8; in total 2 administration days at a one-week interval per animal.

Erroneously treated animals:

Single dose (2 administration sites) on test day 1

Administration volume

Groups 1 to 7:

Text table 3-1: Administration volume

Group	Number of administration sites	Administration volume per administration day [ $\mu\text{L}$ ]	
		Per site	Per animal
1	2	100	200
2	1	60	60
3	1	20	20
4	1	60	60
5	2	100	200
6	1	70	70
7	2	100	200

Erroneously treated animals:

100  $\mu\text{L}$ /administration site; 2 administration sites  
In total 200  $\mu\text{L}$ /animal/administration day

Dosages

Groups 1 to 7:

Group 1: Control (200  $\mu\text{L}$  Buffer/animal)  
Group 2: 30  $\mu\text{g}$  BNT162a1/animal  
Group 3: 10  $\mu\text{g}$  BNT162a1/animal  
Group 4: 30  $\mu\text{g}$  BNT162b1/animal  
Group 5: 100  $\mu\text{g}$  BNT162b1/animal  
Group 6: 30  $\mu\text{g}$  BNT162c1/animal  
Group 7: 100  $\mu\text{g}$  BNT162b2/animal

Erroneously treated animals:

100  $\mu\text{g}$  Test item 2 (BNT162a2)/animal

See the text table in [Section 3.7](#) for details.

Selection of route of administration

According to clinical use. The intramuscular route is the anticipated route for human exposure to the test item.

### 3.7 Group size and dose levels

The animals were allocated to 7 test groups by means of a computer generated randomisation program<sup>5</sup> and treated as given in the text table below.

Text table 3-2: Group distribution and dosing scheme

Group	Dose level [µg/animal] (Test item / Control)	Number and sex of animals MS + RP + SA	Animal no.		
			MS	RP	SA
1	0 (Buffer) Control	10+5+3 m 10+5+3 f	1 - 10 16 - 25	11 - 15 26 - 30	211 - 213 214 - 216
2	30 (BNT162a1)	10+5+3 m 10+5+3 f	31 - 40 46 - 55	41 - 45 56 - 60	217 - 219 220 - 222
3	10 (BNT162a1)	10+5+3 m 10+5+3 f	61 - 70 76 - 85	71 - 75 86 - 90	223 - 225 226 - 228
4	30 (BNT162b1)	10+5+3 m 10+5+3 f	91 - 100 106 - 115	101 - 105 116 - 120	229 - 231 232 - 234
5	100 (BNT162b1)	10+5+3 m 10+5+3 f	121 - 130 136 - 145	131 - 135 146 - 150	235 - 237 238 - 240
6	30 (BNT162c1)	10+5+3 m 10+5+3 f	151 - 160 166 - 175	161 - 165 176 - 180	241 - 243 244 - 246
7	100 (BNT162b2)	10+5+3 m 10+5+3 f	181 - 190 196 - 205	191 - 195 206 - 210	247 - 249 250 - 252
Erroneously treated animals <sup>#1</sup>	100 (Test item 2: BNT162a2)	0+0+3 m	—	—	253 - 255

m male

f female

MS Main study

RP Recovery period

SA Satellite animals for cytokine analysis (except animals nos. 253 to 255)

# The treatment of group 3 was changed from 100 µg Test item 2/animal, as stipulated in the original Study Plan (Test item 2 was designated "RBL063.1" (BNT162a - 2), see [Section 2.3.6](#)), to 10 µg BNT162a1/animal as per Amendment no. 2 to the Study Plan, dated 23 March 2020, the date of start of treatment for group 3 (see [Section 2.7](#)). As the treatment change for group 3 was communicated at very short notice, 3 male animals had already been dosed with 100 µg Test item 2 (BNT162a2)/animal as originally planned on test day 1. These three animals were replaced by 3 spare animals in group 3. The erroneously treated animals received the new animal numbers given above. Test item 2 (BNT162a2) was not further used in the study.

The satellite animals of groups 1 to 7 were used for blood sampling only (see [Section 3.8.7.5](#)). Following the last blood sampling, these animals were sacrificed but not dissected.

<sup>5</sup> Provantis® Integrated preclinical software, version 10.2, InStem LSS Ltd, Stone, Staffordshire ST15 OSD, United Kingdom.

The erroneously administered animals (nos. 253 to 255) were observed for 48 h post dosing under Non-GLP conditions. Body weight (test day 1, and 24 and 48 h post injection), body temperature (24 and 48 h post injection) and local tolerance (24 and 48 h post injection) were recorded. Based on these observations, the Sponsor decided how to further proceed: These animals were neither subjected to laboratory examinations nor to blood sampling for cytokine analysis. The observations were only performed for scientific interest and were not part of the GLP study. The gathered observations are not included in this report, but were communicated separately to the Sponsor.

### **3.8 Observations**

All in-life examinations described in the following subsections pertain only to the main study and recovery animals, i.e. the satellite animals were excluded from these examinations.

Dated and signed records of all activities related to the day-to-day running and maintenance of the study within the animal unit as well as to the group observations and examinations outlined in the Study Plan were recorded in appropriate documentation. In addition, observations related to individual animals were made throughout the study and recorded.

The following sections describe the observations made during the course of the study.

#### **3.8.1 Clinical signs**

The animals were observed individually before and after dosing at each time of dosing for any signs of behavioural changes, reaction to treatment or illness.

In addition, the animals were checked regularly throughout the working day from 7:00 a.m. to 3:45 p.m. (i.e. starting approximately at 7:00 a.m., 9:00 a.m., 11:00 a.m., 1:00 p.m. and 3:00 p.m.). On Saturdays and Sundays, the animals were checked regularly from 7:00 a.m. to 11:00 a.m. with a final check performed at approximately 3:30 p.m. (i.e. starting at approximately 7:00 a.m., 9:00 a.m., 11:00 a.m., and 3:00 p.m.).

Cageside observations included skin/fur, eyes, mucous membranes, respiratory and circulatory systems, somatomotor activity and behaviour patterns. The onset, intensity and duration of any signs observed were recorded.

Dated and signed records of appearance, change and disappearance of clinical signs of individual animals were maintained on clinical history sheets.

Special attention was paid to the local tolerance at the injection sites (see [Section 3.8.3](#) for details on the observation of erythema/eschar, oedema, induration/hardening).

### **3.8.2 Mortality**

Further checks were made early in the morning and again in the afternoon of each working day to look for dead or moribund animals. On Saturdays and Sundays, a similar procedure was followed with a final check at approximately 3:30 p.m.

These provisions allowed for recording of premortal symptoms in detail and for performing post mortem examinations as soon as possible after exitus. However, no premature deaths occurred and no premature sacrifice was necessary.

### **3.8.3 Local tolerance**

The local tolerance of the test item at the injection site was recorded for all main study and recovery animals at the following times:

- 4 h after each injection
- 24 h after each injection
- 48 h after each injection

As irritations were still present at 48 h after injection, the observations of the respective animal was extended to every 48 h until the irritation had resolved (i.e. 96 h p.a. and 144 h p.a. if necessary).

The injection sites were assessed for

- erythema and eschar formation
- oedema formation
- induration/hardening following palpation

The reactions were scored with a grading similar to that based on DRAIZE (Appraisal of the Safety of Chemicals in Food, Drugs and Cosmetics, Association of Food and Drug Officials of the United States, Austin, Texas, 1959) as given in detail in the text tables following on the following page.

Text table 3-3: Grading of erythema and eschar formation

Erythema and eschar formation	Value
No erythema	0
Very slight erythema (barely perceptible)	1
Well-defined erythema	2
Moderate to severe erythema	3
Severe erythema (beef redness) or eschar formation (injuries in depth) preventing erythema reading	4

Text table 3-4: Grading of oedema formation

Oedema formation	Value
No oedema	0
Very slight oedema (barely perceptible)	1
Slight oedema (edges of area well defined by definite raising)	2
Moderate oedema (raised approx. 1 millimetre)	3
Severe oedema (raised more than 1 millimetre and extending beyond area of exposure)	4

Text table 3-5: Grading of induration/hardening

Grade of induration/hardening	Value
No induration/hardening	0
Very slight induration/hardening (barely perceptible)	1
Slight induration/hardening	2
Moderate induration/hardening	3
Severe induration/hardening	4

If there were two injection sites per animal (left/right side), individual values for each of the two injection sites were only recorded in case the gradings of the sites were different (e.g. '0/1'). If the gradings of the two injection sites were identical only one scoring was recorded.

In addition, any signs of pain were recorded as general observations of local tolerance.

### 3.8.4 Body weight

The body weight of each rat was recorded at the following times:

- at group allocation
- prior to each administration: on test days 1, 8, and 15 (if applicable)
- one day after each administration: on test days 2, 9, and 16 (if applicable)
- twice weekly during the recovery period
- at autopsy (i.e. during the process of necropsy, i.e. after fasting overnight and exsanguination, see [Section 3.8.10.1](#) for details)

### 3.8.5 Food and drinking consumption

The quantity of food left by individual animals was removed, weighed, and recorded on a weekly basis throughout the experimental period. The residue was discarded.

The food intake per animal (g/animal/week) was calculated using the total amount of food given to and left by each rat in each group on completion of a treatment week. Weekly mean values were calculated for individual animals.

The relative food consumption (in g/kg b.w./day) was calculated as follows:

$$\text{Relative food consumption} = \frac{\text{Total food given (g)} - \text{Total food left (g)}}{\text{Number of animal days}^{\#} \times \text{Body weight (kg)}}$$

<sup>#</sup> The term 'animal days' counts one animal day for each animal alive for a whole day; it is assumed that on the day of death an animal does not eat.

The drinking water consumption was monitored daily by visual appraisal throughout the study. The consumption was not quantified.

### 3.8.6 Body temperature

The body temperature was determined using an anal probe at the times stated in the text table below.

Text table 3-6: Time points for body temperature measurement

Test day	Time points for body temperature measurement relative to dosing	Groups or animal number	Main study animals	Recovery animals
1	4 hours after 1st injection	1 to 7	X	X
2	24 hours after 1st injection	1 to 7	X	X
3	48 hours after 3rd injection <sup>#</sup>	No. 171		
8	4 hours after 2nd injection	1 to 7	X	X
9	24 hours after 2nd injection	1 to 7	X	X
15	1 week after last administration	6 and 7		X
15	4 hours after 3rd injection	1 to 5	X	X
16	24 hours after 3rd injection	1 to 5	X	X
17	48 hours after 3rd injection <sup>##</sup>	No. 149		
22	1 week after last administration	1 to 5		X
22	2 weeks after last administration	6 and 7		X
29	2 weeks after last administration	1 to 5		X
29	3 weeks after last administration	6 and 7		X
36	3 weeks after last administration	1 to 5		X

<sup>#</sup> The female animal no. 171 (group 6) revealed a body temperature of 40.0°C on test day 2 (i.e. 24 h after 1st injection on test day 1). For this animal, an additional body temperature measurement was conducted on test day 3 at 48 h after injection.

<sup>##</sup> The female animal no. 149 (group 5) revealed a body temperature of 40.2°C on test day 16 (i.e. 24 h after 3rd injection on test day 15). For this animal, an additional body temperature measurement was conducted on test day 17 at 48 h after injection.

### 3.8.7 Laboratory examinations

Blood samples were taken from the retrobulbar venous plexus under isoflurane anaesthesia from animals fasted overnight. The blood samples were collected into tubes as follows:

EDTA anticoagulant (whole blood) ..... for haematological investigations  
Citrate anticoagulant (plasma) ..... for coagulation tests  
Li-Heparin anticoagulant (plasma) ..... for clinical chemistry tests  
Serum (no anticoagulant) ..... for acute phase proteins and dose exposure

The male animal no. 130 died during the blood withdrawal on test day 17. The blood sample intended for clinical chemistry tests was obtained by heart puncture from this animal. As a result, the plasma levels of phosphate and potassium, and the enzyme activities of ASA and LDH were far beyond the normal range for these parameters. Therefore, these data were excluded from statistical analysis (marked by 'E!' in [Table 1-2](#)).

### 3.8.7.1 Haematology

The blood samples were obtained as follows:

- On test day 4: The first 5 surviving main study animals per sex and group and all recovery animals (n = 10 per group).
- At main study termination (on the day of dissection): All main study animals (n = 10 per group).
- At the end of the recovery period (on the day of dissection): All recovery animals (n = 5 per group).

The haematological parameters listed in the text table below were determined.

Text table 3-7: Haematological parameters

Parameter	Unit	Instrument
Haemoglobin content (HGB)	mmol/L	ADVIA™ 120 Siemens Diagnostics GmbH 35463 Fernwald Germany
Erythrocytes (RBC)	10 <sup>6</sup> /µL	
Leucocytes (WBC)	10 <sup>3</sup> /µL	
Reticulocytes (Reti), relative	%	
Reticulocytes (Reti), absolute	10 <sup>3</sup> /µL	
Platelets (PLT)	10 <sup>3</sup> /µL	
Haematocrit value (HCT)	%	
Differential blood count (relative) <sup>#</sup>	%	
Differential blood count (absolute) <sup>#</sup>	10 <sup>3</sup> /µL	
Mean corpuscular volume (MCV)	fL	
Mean corpuscular haemoglobin (MCH)	fmol	
Mean corpuscular haemoglobin concentration (MCHC)	mmol/L	
Mean platelet (thrombocyte) volume (MPV)	fL	
Relative volume of thrombocytes / Plateletcrit (PCT)	%	
Platelet distribution width (PDW)	%	
Red cell distribution width (RDW)	%	
Mean platelet component (MPC)	g/dL	

<sup>#</sup> Neutrophilic, eosinophilic and basophilic granulocytes, lymphocytes, and monocytes. Large unstained cells were simultaneously quantified during measurement of the differential blood count.

Following the haematological examinations using the ADVIA system, blood smears were prepared from all samples, dried, and stained as given in the text table on the following page.

Text table 3-8: Staining of blood smears

Dissection	Group	Number of stainings	
		Pappenheim	Brilliant Cresyl blue
Test day 4	Groups 1, 2 and 4	1	0
	Groups 3, 5, 6 and 7	1	0
Main study	Groups 1, 2 and 4	1	1
	Group 6	1	1
	Groups 3, 5 and 7	1	1
Recovery	Groups 1, 2 and 4	1	1
	Group 6	1	1
	Groups 3, 5 and 7	1	1

The stained blood smears may be evaluated, if requested by the Sponsor (details are to be stated in a Study Plan amendment). So far, no evaluation of blood smears was performed by (b) (4).

### 3.8.7.2 Coagulation

The blood samples were obtained as follows:

- At main study termination  
(on the day of dissection): All main study animals (n = 10 per group).
- At the end of the recovery period  
(on the day of dissection): All recovery animals (n = 5 per group)

The coagulation parameters listed in the text table below were determined.

Text table 3-9: Coagulation parameters

Parameter	Unit	Instrument
Prothrombin time (PT)	sec	Amax Destiny Plus™ Tcoag Deutschland GmbH 32657 Lemgo, Germany
Activated partial thromboplastin time (aPTT)	sec	
Fibrinogen	mg/dL	

### 3.8.7.3 Clinical chemistry

The blood samples were obtained as follows:

- On test day 4: The first 5 surviving main study animals per sex and group and all recovery animals (n = 10 per group).
- At main study termination (on the day of dissection): All main study animals (n = 10 per group).
- At the end of the recovery period (on the day of dissection): All recovery animals (n = 5 per group).

The clinical chemistry parameters listed in the text table below were determined.

Text table 3-10: Clinical chemistry parameters

Parameter	Unit	Instrument / Method
Albumin	g/L plasma	KONELAB 30i (see below)
Globulin	g/L plasma	By subtraction
Albumin/globulin ratio	(non-dimensional)	By calculation
Bilirubin (total)	$\mu\text{mol}/\text{L}$ plasma	KONELAB 30i Thermo Fisher Scientific 63303 Dreieich Germany
Cholesterol (total)	mmol/L plasma	
Creatinine	$\mu\text{mol}/\text{L}$ plasma	
Glucose	mmol/L plasma	
Phosphate	mmol/L plasma	
Protein (total)	g/L plasma	
Urea (in blood)	mmol/L plasma	
Triglycerides	mmol/L plasma	
Calcium	mmol/L plasma	
Chloride	mmol/L plasma	
Potassium	mmol/L plasma	
Sodium	mmol/L plasma	
Alanine aminotransferase (ALAT)	U/L plasma	
Alkaline phosphatase (aP)	U/L plasma	
Aspartate aminotransferase (ASAT)	U/L plasma	
Lactate dehydrogenase (LDH)	U/L plasma	
Creatine kinase (CK)	U/L plasma	
Gamma-glutamyltransferase (Gamma-GT)	U/L plasma	

### 3.8.7.4 Analysis of acute phase proteins

Blood samples were obtained as follows:

- On test day 4: The first 5 surviving main study animals per sex and group and all recovery animals (n = 10 per group).
- At main study termination (on the day of dissection): All main study animals (n = 10 per group).
- At the end of the recovery period (on the day of dissection): All recovery animals (n = 5 per group).

In order to obtain approximately  $4 \times 75 \mu\text{L}$  serum per animal and sampling time, approx. 0.7 mL whole blood per animal and sampling time were collected in serum separator tubes (Sarstedt AG & Co., Germany). The blood samples were allowed to clot at room temperature for at least 30 minutes, and centrifuged afterwards in order to obtain serum. Immediately after centrifugation, the serum was divided into aliquots and frozen at  $-20^\circ\text{C} \pm 2^\circ\text{C}$  until analysis at (b) (4) using commercial ELISA test kits purchased from Abcam PLC, Cambridge, United Kingdom (see text table below) and a Tecan Sunrise microplate reader (Tecan Deutschland GmbH, 74564 Crailsheim, Germany).

Text table 3-11: Parameters of acute phase protein analysis

Acute phase protein	Matrix	Sample volume	Number of aliquots (aliquot volume)	Storage temperature	Method
Alpha1-acid glycoprotein	Serum	150 $\mu\text{L}$	2 (75 $\mu\text{L}$ )	$-20^\circ\text{C} \pm 2^\circ\text{C}$	Rat Alpha 1 Acid Glycoprotein / AGP ELISA Kit (ab157729, lot no. GR3235007-3)
Alpha2 macroglobulin	Serum	150 $\mu\text{L}$	2 (75 $\mu\text{L}$ )	$-20^\circ\text{C} \pm 2^\circ\text{C}$	Rat alpha 2 Macroglobulin ELISA Kit (ab157730, lot nos. GR3322797-1, GR3322797-3, and GR3322797-4)

### 3.8.7.5 Cytokine analysis

Blood samples for cytokine analysis were taken from the femoral vein catheter of all satellite animals at the times given in the text table below.

Text table 3-12: Blood sampling schedule for cytokine analysis

Test day	Sampling time relative to dosing	Animal numbers of satellite animals used							Number of samples/ aliquots
		Group 1 <sup>#</sup>	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	
1	Prior to 1st dosing	211 to 216	217 to 222	223 to 228	229 to 234	235 to 240	241 to 246	247 to 252	42/84
1	6 h post 1st dosing	211 to 216	217 to 222	223 to 228	229 to 234	235 to 240	241 to 246	247 to 252	42/84
8	Prior to 2nd dosing	211 to 216	217 to 222	223 to 228	229 to 234	235 to 240	241 to 246	247 to 252	42/84
8	6 h post 2nd dosing	211 to 216	217 to 222	223 to 228	229 to 234	235 to 240	241 to 246	247 to 252	42/84
10	48 h post 2nd dosing						241 to 246		6/12
15	Prior to 3rd dosing	211 to 216	217 to 222	223 to 228	229 to 234	235 to 240		247 to 252	36/72
15	6 h post 3rd dosing	211 to 216	217 to 222	223 to 228	229 to 234	235 to 240		247 to 252	36/72
17	48 h post 3rd dosing	211 to 216	217 to 222	223 to 228	229 to 234	235 to 240		247 to 252	36/72
									Total number of samples / aliquots: 282/564

<sup>#</sup> Blood sampling from the female animal no. 215 was performed by means of retrobulbar vein puncture (refer to [Section 2.8](#) and [Section 3.1](#)).

Sufficient whole blood was collected from the animals in order to obtain at least 2×75 µL serum per animal and sampling time. The serum samples were frozen, stored and analysed as given in [Text table 3-15](#) below.

Text table 3-13: Parameters of cytokine analysis

Cytokine	Matrix	LLOQ [pg/mL]	Sample volume	Number of aliquots (aliquot volume)	Storage temperature	Method
IFN-γ	Serum	4.0	150 µL	2 (75 µL)	-20°C ± 2°C	Cytometric bead array (ProcartaPlex) using a Cytomics FC 500 flow cytometer (Beckman Coulter GmbH, 47704 Krefeld, Germany)
TNF-α		7.1				
IL-1-β		12.6				
IL-6		3.0				
IL-10		9.9				

LLOQ lower limit of quantification

### 3.8.7.6 Urinalysis

Urine samples were collected from animals at the following time points:

- At main study termination  
(on the day of dissection): All main study animals (n = 10 per group).
- At the end of the recovery period  
(on the day of dissection): All recovery animals (n = 5 per group).

The urine was collected in a URIMAX funnel cage for 16 hours. The collection of urine was terminated immediately prior to the blood withdrawals for haematological and clinical chemistry examinations. The parameters measured and the methods used are given in the text table below.

Text table 3-14: Urinary parameters

Parameter	Unit	Instrument
Volume	mL	Graduated vessel
pH	n/a	Digital pH meter (type WTW InoLab pH 720)
Specific gravity	g/mL	Kern Refractometer (type ORA 2PA), sample compared with water (nominal value of 1.000)

In addition, the tests given in the text table below were performed using qualitative indicators (Combur 9® Test, Roche Diagnostics GmbH, 68305 Mannheim, Germany) of analyte concentration:

Text table 3-15: Analytes of qualitative urinalysis

Parameter	Reporting convention					
	Unit	Semi-quantitative determination level				
Protein	g/L	neg	0.3	1	5	/
Glucose	mmol/L	normal	2.8	5.5	17	55
Bilirubin	-	neg	+	++	+++	/
Urobilinogen	µmol/L	normal	17	70	140	200
Ketones	-	neg	+	++	+++	/
Haemoglobin (Hb, approx. values)	ery/µL	neg	10	25	50	250
Nitrite	-	neg	pos	/	/	/

neg = negative  
pos = positive  
ery = erythrocyte count

+ 'Small amount' of analyte  
++ 'Moderate amount' of analyte  
+++ 'Large amount' of analyte

A microscopic examination of urine samples was carried out by centrifuging samples and spreading the resulting deposit on a microscope slide. The deposit was examined for the presence of the following parameters:

- Epithelial cells
- Leucocytes
- Erythrocytes
- Organisms
- Further constituents (i.e. sperm, casts)
- Crystalluria

The frequency of the above parameters in the centrifugal deposit was recorded as follows:

0	None found in any field examined
+	Few in some fields examined
++	Few in all fields examined
+++	Many in all fields examined

The colour and the turbidity of the urine were examined visually.

### 3.8.8 Blood sampling for dose exposure

In order to obtain serum samples for dose exposure examination (10 aliquots of approximately 100 µL each per animal), blood was withdrawn from the retrobulbar venous plexus under isoflurane anaesthesia from animals fasted overnight as follows:

- At main study termination  
(on the day of dissection): All main study animals.
- At the end of the recovery period  
(on the day of dissection): All recovery animals

In total 209 samples (2074 aliquots) were collected. No blood sample for dose exposure examination could be collected from the male animal no. 130 (group 6) as the animal died during blood withdrawal on test day 17 such that only the samples for the laboratory examinations could be obtained. Further, for a few animals, the blood volume sampled was not sufficient for 10 aliquots of 100 µL serum each but yielded only 7 to 9 aliquots.

After collection of sufficient whole blood in serum separator tubes (Sarstedt®, Germany), the blood samples were allowed to clot for at least 30 minutes before centrifugation. Immediately after centrifugation, the serum was frozen and stored at -80°C ± 8°C until shipment for analysis.

The samples were labelled with the study number, species, animal number, type of sample, purpose (dose exposure), aliquot no., group number, test day and date.

Following advance notice by e-mail (to: (b) (6) and (b) (6)), the dose exposure samples were dispatched on dry ice via courier as given in the text table below.

Text table 3-16: Shipping schedule of dose exposure samples

Shipped by (b) (4)	Delivered to the Sponsor	Animals	Aliquots included	Consignee
06 Apr 2020	07 Apr 2020	Groups 1, 2, 4, 6 Main Study N = 80	Aliquots 1 to 10# (n = 790)	BioNTech RNA Pharmaceuticals (b) (6)
09 Apr 2020	09 Apr 2020	Groups 3, 5##, 7 Main study N = 60	Aliquots 1 to 10# (n = 586)	An der Goldgrube 12 55131 Mainz Germany
30 Apr 2020	30 Apr 2020	Groups 1 to 7 Recovery N = 70	Aliquots 1 to 10# (n = 698)	

- # As far as available. For a few animals, less than 10 aliquots (but at least 7 aliquots) per sampling were available as the blood volume sampled was not sufficient to yield 10 aliquots of 100 µL serum each.
- ## No blood sample could be collected from the male animal no. 130 (group 6) as the animal died during blood withdrawal.

The samples were analysed for immunogenicity of the test items by BioNTech SE, Germany, under the responsibility of the Sponsor. An analytical report was forwarded to (b) (4) (see [Section 4.12](#) and [Appendix 4](#)).

### 3.8.9 Ophthalmological and auditory examinations

Examinations were performed on all main study and recovery animals before first dosing and at the end of the dosing period (groups 1 to 5 and 7: test day 16, group 6: test day 9), and for all recovery animals at the end of the recovery period (groups 1 to 5 and 7: test day 37, group 6: test day 30).

The eyes were examined with a HEINE ophthalmoscope. After examination of the pupillary reflex, mydriasis was produced by instillation of STULLN® eye drops (Ankerpharm GmbH, 07407 Rudolstadt, Germany) onto the cornea.

The following ocular structures were examined:

- Adnexa oculi (i.e. lids, lacrimal apparatus), conjunctiva
- Cornea, anterior chamber
- Lens, vitreous body, fundus (retina, optic disc)

The auditory acuity was checked with a simple noise test.

### 3.8.10 Pathology and histopathology

#### 3.8.10.1 Necropsy

For groups 1 to 5, and 7, necropsy was scheduled for test day 17 (approximately 48 hours after the last administration) for the main study animals and for test day 38 for all animals allocated to the recovery period.

For group 6 necropsy was scheduled for test day 10 (approximately 48 hours after the last administration) for the main study animals and for test day 31 for all animals allocated to the recovery period.

The animals were sacrificed and dissected following a randomization scheme.

The animals were euthanized by carbon dioxide (CO<sub>2</sub>) inhalation, exsanguinated by cutting the aorta abdominalis, weighed, dissected, and inspected macroscopically under the direction of a pathologist.

All superficial tissues were examined visually and by palpation. The cranial roof was removed to allow observation of the brain, pituitary gland and cranial nerves. After ventral midline incision and skin reflection, all subcutaneous tissues were examined. The condition of the thoracic viscera was noted with due attention to the thymus, lymph nodes and the heart.

The abdominal viscera were examined before and after removal; the urinary bladder was examined externally and by palpation. The gastro-intestinal tract was examined as a whole, and stomach and caecum were incised and examined. The lungs were removed and all pleural surfaces were examined under suitable illumination. The liver and the kidneys were examined. Any abnormalities in the appearance and size of the gonads, adrenal glands, uterus, intraabdominal lymph nodes and accessory reproductive organs were recorded.

None of the satellite animals was dissected and examined macroscopically as none of these animals had deceased or was prematurely sacrificed.

The erroneously administered animals (see [Section 3.7](#)) were not dissected.

The animals no. 76 and no. 130 which died during blood withdrawal closely before the pending terminal sacrifice on test day 17 were dissected immediately after the incident.

The organs listed in the text table below were weighed before fixation.

Text table 3-17: Weighed organs

Weighed organs	
Adrenal gland (2)	Ovary (2)
Brain	Pituitary gland
Epididymis (2)	Prostate
Heart	Spleen
Kidney (2)	Testicle (2)
Liver	Thymus
Lungs	Thyroid (1, including parathyroids)
Lymph nodes (one cervical, one mesenteric)	

The paired organs were identified as left or right and weighed individually.

Organ/body weight ratios were calculated (using the body weight at autopsy obtained after exsanguination at necropsy) and are presented as relative organ weights (in g/kg b.w.).

### 3.8.10.2 Organ preservation

The organs or parts of organs of all animals listed in the text table on the following page were fixed in 7% neutral buffered formalin, except for the eyes which were fixed in Davidson's solution, and the testes which were fixed in modified Davidson's solution for optimum fixation.

Text table 3-18: Tissues collected for preservation

Tissues preserved for histopathology	
Adrenal gland (2)	Mammary gland
# Animal ID	Muscle ( <i>skeletal, leg</i> )
Aorta abdominalis	Nerve ( <i>sciatic</i> )
# Body cavity, nasal	# Nerve ( <i>tibial, 2</i> )
Bone ( <i>os femoris with joint</i> )	Oesophagus
Bone ( <i>sternum</i> )	Ovary (2)
Bone marrow ( <i>os femoris</i> )	Oviducts (2)
Brain ( <i>cerebrum, cerebellum, brain stem</i> )	Pancreas
Caecum	Parathyroids
# Clitoral gland (2)	Pituitary
Epididymis (2)	# Preputial gland (2)
Eye with optic nerve (2)	Prostate
# Ganglion, dorsal root, lumbar	Salivary glands ( <i>mandibular, parotid, sublingual</i> )
Gut-associated lymphoid tissue	
Harderian gland (2)	Seminal vesicle (2)
Heart ( <i>left and right ventricle, septum</i> )	Skin ( <i>left flank</i> )
Injection sites 1 and 2	Spinal cord (3 sections)
Intestine, small ( <i>duodenum, jejunum, ileum, Swiss roll method</i> )	Spleen
	Stomach
Intestine, large ( <i>colon, rectum</i> )	Testicle (2)
Kidney and ureter (2)	Thymus
Lacrimal gland ( <i>extraorbital</i> )	Thyroid (2)
# Larynx	Tongue ( <i>including base</i> )
Liver (2 lobes)	Trachea
Lungs ( <i>with mainstem bronchi and bronchioles</i> )	# Ureter (2)
Lymph node (1, <i>cervical</i> )	Urinary bladder
Lymph node (1, <i>mesenteric</i> )	Uterus ( <i>including cervix</i> )
# Lymph node (2, <i>mandibular</i> )	Vagina
Lymph node (1, <i>draining administration site: iliac</i> )	# Zymbal's gland (2)

# The tissues marked with the hash sign ('#') were preserved, but not further processed. They may be evaluated if requested by the Sponsor. So far, no evaluation was performed by (b) (4).

### 3.8.10.3 Bone marrow

During dissection, fresh bone marrow was obtained from the os femoris (3 air-dried smears per animal) of the first 5 main study animals per sex and group, and of all recovery animals and stained as given in the text table below.

Text table 3-19: Staining of bone marrow smears

Dissection	Group	Number of stainings	
		Pappenheim	Giemsa
Main study (5 animals per sex and group)	Groups 1, 2 and 4	1	0
	Group 6	1	0
	Groups 3, 5 and 7	1	2
Recovery (5 animals per sex and group)	Groups 1, 2 and 4	1	2
	Group 6	1	2
	Groups 3, 5 and 7	1	2

The stained bone marrow smears may be evaluated, if requested by the Sponsor (details are to be stated in a Study Plan amendment). So far, no evaluation of bone marrow smears was performed by <sup>(b) (4)</sup>.

### 3.8.10.4 Histopathology

The organs listed in [Section 3.8.10.2](#), with the exception of the organs marked with the hash sign ('#'), of all main study and recovery animals of all groups were examined histopathologically after preparation of paraffin sections and haematoxylin-eosin staining.

Parathyroids cannot always be identified macroscopically. They were examined microscopically if in the plane of section and in cases they were noted as grossly enlarged.

Blood smears prepared for haematological examination (see [Section 3.8.7.1](#)) are available for a possible examination of pathological changes but may be examined and evaluated only depending on necropsy findings and upon agreement with the Sponsor. So far, no examination was performed.

### 3.8.11 Statistics

All toxicology and pathology data were captured, as far as possible, using the departmental computerized systems (Provantis® Integrated preclinical software, version 10.2, Instem LSS Ltd., Stone, Staffordshire ST15 0SD, United Kingdom). Raw data not fully compatible with the computerized systems were maintained on paper according to appropriate SOPs.

The test item-treated groups 2 to 5 and 7 were compared to the control group 1. The test item-treated group 6 was compared to the control group 1 as far as possible. Due to the earlier sacrifice of the animals of group 6 (main study animals: test day 10, recovery animals: test day 31), the following parameters of group 6 were statistically compared to the control group on test day 4 only:

- Haematology and coagulation
- Clinical chemistry
- Urinalysis
- Cytokines
- Acute phase proteins
- Relative and absolute organ weights

The statistical methods described in the text table below were used for the data captured with the Provantis system.

Text table 3-20: Statistical methods

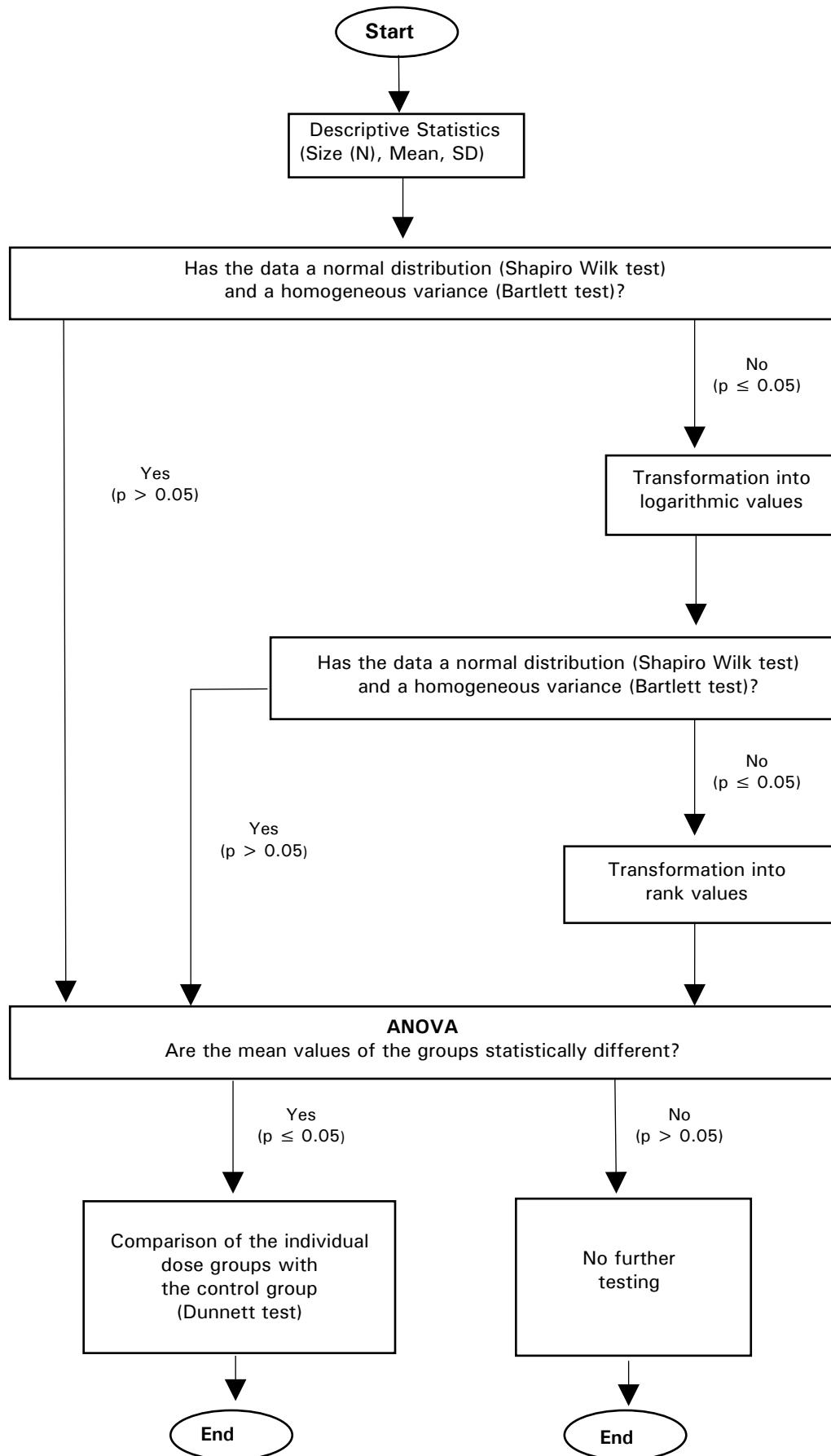
Statistical method	Parameters analysed
Multiple t-test based on DUNNETT, C. W. New tables for multiple Comparisons with a control <i>Biometrics</i> , 482-491 (Sept 1964)	Body weight / Food consumption / Haematology and coagulation / Clinical chemistry / Acute phase proteins / Urinalysis / Cytokines / Relative and absolute organ weights ( $p \leq 0.05$ and $p \leq 0.01$ )
Exact test of R. A. FISHER (if applicable)	Histopathology ( $p \leq 0.05$ )

The following settings were used for the statistical evaluation of the parametrical values captured by Provantis (see flow chart of decision tree on page 59):

Homogeneity of variances and normality of distribution were tested using BARTLETT's test and SHAPIRO-WILK's test. In case of heterogeneity and/or non-normality of distribution, stepwise transformation of the values into logarithmic or rank values was performed prior to ANOVA. If the ANOVA yielded a significant effect ( $p \leq 0.05$ ), intergroup comparisons with the control group were made by DUNNETT's test (see above).

The statistical procedures were used for all data. Statistically significantly different data are indicated in the tables of [Section 5](#) ('TABLES') of the report.

### Flow Chart of Decision Tree of ANOVA and Dunnett's Test Calculation



## 4. RESULTS

### 4.1 Local tolerance

#### BNT162a1 - Groups 2 and 3

##### Treatment period

Very slight to moderate oedema were noted for all animals following the 1st, 2nd, and/or 3rd injection of **10 or 30 µg BNT162a1/animal** on test days 1, 8, and 15.

Male and female animals treated with **10 or 30 µg BNT162a1/animal** (group 2) revealed very slight to well-defined erythema following the 1st or 2nd injection (up to 96 h after administration), and/or the 3rd injection (up to 48 h after administration). In addition, all male and female animals of administered **30 µg BNT162a1/animal** revealed a scabby skin at the injection site at 96 h after the 1st administration (on test day 4, see column 'F' in [Table 1-2](#)). Severe erythema (grade 4) for 5 of 15 male animals and 4 of 15 female animals treated with **10 µg BNT162a1/animal** (group 3) was noted on test day 14 (144 h after the 2nd administration on test day 8), but was resolved prior to the 3rd injection.

Further, the injection site appeared to be painful for 4 of 15 male animals and 12 of 15 female animals treated with the high dose of **30 µg BNT162a1/animal** on test day 9 (for one male animal also on test day 10) following administration of the 2nd dose on test day 8.

On test day 14 (day before 3rd administration), eschar formation was observed at the injection site for 5 male and 6 female animals treated with **30 µg BNT162a1/animal** (group 2). Therefore, on test day 15, the male animals nos. 32, 34, 37, 39 and 42, and the female animal no. 60 were dosed intramuscularly in the left hind leg instead of the right hind leg as during the previous administrations. In the affected animals, both administration sites were fixed at necropsy and processed for histological examinations.

The macroscopic inspection at necropsy revealed an indurated and/or thickened injection site for all main study animals treated with **30 µg BNT162a1/animal** and for the majority of animals treated with **10 µg BNT162a1/animal**. For a few animals, an incrustation was noted at the injection site (high dose: 2 males and 2 females, low dose: one male).

All findings described above are considered to be test item-related based on the increases incidence and/or severity observed compared with buffer controls. The findings are considered to be related to immune responses at the site of vaccine administration.

#### Recovery period

Very slight to slight oedema were still noted for nearly all animals previously treated with **10 or 30 µg BNT162a1/animal** during the early part of the recovery period (following the 3rd injection on test day 15). No dose-dependency was observed. All oedema had subsided as of test day 29 (i.e. 336 h after the last administration) at the latest.

All male and female animals administered **30 µg BNT162a1/animal** revealed severe erythema (grade 4) at 96 h after the last test item injection (test day 19). In the majority of animals, this skin reddening had subsided at 240 h p.a. (test day 25). Only 2 male and 2 female animals revealed erythema up to 432 h p.a. (test day 33). The skin reddening is considered to be test item-related.

At the end of the recovery, any local skin reactions with regard to erythema, oedema, indurations, and/or hardenings had subsided.

No abnormalities were noted at the injection site(s) of any animal at macroscopic inspection at necropsy at the end of the recovery period.

#### **BNT162b1 - Groups 4 and 5**

##### Treatment period

Very slight (mostly) to moderate (rarely) oedema were noted for all animals following the 1st, 2nd, and/or 3rd injection of **30 or 100 µg BNT162b1/animal** on test days 1, 8, and/or 15. In the high dose group 5, the two injection sites were occasionally affected to a different degree. In addition, individual animals of the low dose group treated with **30 µg BNT162b1/animal** (group 4) also revealed very slight erythema, observed only at 24 h following injection. No dose-dependency was observed for the skin reactions. All effects had subsided by 96 h p.a. after each of the first two injections.

Severe erythema (grade 4) for 3 female animals (nos. 136, 137, and 146) treated with **100 µg BNT162b1/animal** (group 5) was observed only on test day 14 (144 h after the 2nd administration on test day 8) and is considered test item related. This observation was no longer present prior to the 3rd injection.

An indurated and/or thickened injection site was noted for 7 male and 6 female animals per group and dose level for the main study animals treated with **30 or 100 µg BNT162b1/animal** at macroscopic inspection at necropsy.

Recovery period

Very slight (mostly) to well-defined (rarely) oedema for nearly all animals administered **30 µg BNT162b1/animal**, and very slight (mostly) to moderate (rarely) oedema for nearly all animals administered **100 µg BNT162b1/animal** were still noted during the early part of the recovery period (following the 3rd injection on test day 15). All oedema had subsided by test day 35 (i.e. 480 h after the last administration).

No abnormalities were noted at the injection site(s) of any animal at macroscopic inspection at necropsy at the end of the recovery period.

**BNT162c1 - Group 6**

Treatment period

Very slight (mostly) to moderate (rarely) oedema were noted for all animals following the 1st and/or 2nd injection of **30 µg BNT162c1/animal** on test days 1 and/or 8. In addition, individual male and female animals also revealed very slight erythema, observed only at 96 h after the 1st injection. All effects had subsided by 144 h p.a. after of the first injection (test day 7).

The macroscopic inspection at necropsy revealed an indurated and/or thickened injection site for all male and female main study animals treated with **30 µg BNT162c1/animal**. In addition, an incrustation was noted at injection site of one male and one female animal.

Recovery period

Very slight (mostly) to severe (very rarely) oedema were still noted for nearly all animals previously treated with **30 µg BNT162c1/animal** during the early recovery period (following the 2nd injection on test day 8). In addition, individual animals also revealed a severe erythema, observed only at 144 h following injection (test day 14). In nearly all male and female animals, all local skin reactions had subsided until test day 16 (i.e. 192 h after the last administration). Only one male animal (no. 162) still presented with reddened skin (scored as severe "erythema" up to test day 24, followed by very slight slight degree up to test day 30) accompanied by an incrusted wound and scar tissue formation. This finding is attributed to test article-associated inflammation at the injection site.

One male animal (no. 179) revealed eschar formation in a skin area on the right leg that was near to but outside the location used for test item injection on test days 18 to 24. This finding is not considered to be related to the test item administration but to be related to the shaving procedure in advance of the start of treatment.

No abnormalities were noted at the injection site(s) at macroscopic inspection at necropsy at the end of the recovery period.

## BNT162b2 - Group 7

### Treatment period

Very slight to severe (very rarely) oedema were noted for all animals following the 1st, 2nd, and/or 3rd injection of **100 µg BNT162b2/animal** on test days 1, 8, and/or 15. All oedema noted after the 1st or 2nd injection had subsided by 96 h p.a. after the respective administration.

In addition, a few female animals also revealed very slight erythema following 24 to 96 h following the 1st or 2nd injection. For individual male and female animals, skin reddening (scored as "severe" erythema) was observed only at 144 h after the 2nd injection, but was resolved prior to the 3rd injection.

The macroscopic inspection at necropsy revealed an indurated and/or thickened injection site for 7 of 10 male and 9 of 10 female main study animals treated with **100 µg BNT162b2/animal**.

### Recovery period

Very slight (mostly) to moderate (rarely) oedema were still noted for all animals previously treated with **100 µg BNT162b2/animal** during the early part of the recovery period (following the 3rd injection on test day 15). All local skin reactions had subsided by 336 h p.a. (test day 29).

No abnormalities were noted at the injection site(s) at macroscopic inspection at necropsy at the end of the recovery period.

## Histopathological examination of injection sites

### Treatment period

The histopathological examination revealed test item-related injection site findings in all groups, characterized by mostly moderate inflammation (up to marked) in males and moderate inflammation in females. The most severe findings were noted consistently in animals administered **100 µg BNT162b1/animal** and **100 µg BNT162b2/animal**, followed by animals administered **30 µg BNT162a1/animal**. The inflammation was characterized by infiltrates of macrophages, granulocytes, and lymphocytes into the muscle, and variably into the dermis and subcutis, at the injection site. Injection site inflammation was associated with mostly moderate oedema, mostly mild myofiber degeneration, occasional muscle necrosis, and mostly mild fibrosis. Skin ulceration (mild and moderate) was identified in some males and females administered either **10** or **30 µg BNT162a1/animal** and one animal administered **30 µg BNT162c1/animal**. There were no notable injection site findings in control-item administered groups. Inflammation extended into tissues adjacent to the injection site, including mammary tissue, perineural tissue of sciatic nerve, tissue around the femur / knee and to the draining lymph node (iliac).

### Recovery period

Microscopic findings noted at the injection sites were partially or fully resolved at the end of the 3-week recovery phase. A few inflammatory lesions were still noted at the injection sites and the surrounding tissue of some animals.

Microscopic injection site findings correlated with macroscopic findings of thickening, induration, and incrustation.

General observations of local intolerance reactions are given in [Table 1-1](#) (Local tolerance - General observations) and observations of erythema, oedema, indurations, and/or hardenings are listed in [Table 1-2](#) (Local tolerance - Erythema, Oedema, Induration, Hardening).

For detailed listings of histopathological findings at the injection sites, refer to [Text table 4-24](#) (10 or 30 µg BNT162a1/animal, groups 2 and 3), [Text table 4-25](#) (30 or 100 µg BNT162b1/animal, groups 4 and 5), and [Text table 4-26](#) (30 µg BNT162c1/animal, group 6, and 100 µg BNT162b2/animal, group 7).

### **4.2 Clinical signs**

#### **BNT162a1 - Groups 2 and 3, BNT162b1 - Groups 4 and 5, BNT162c1 - Group 6, and BNT162b2 - Group 7**

##### Treatment and recovery period

None of the male and female animals treated intramuscularly with **10 or 30 µg BNT162a1/animal** (groups 3 and 2), **30 or 100 µg BNT162b1/animal** (groups 4 and 5), or **100 µg BNT162b2/animal** (group 7) on test days 1, 8, and 15 (3 administrations), or with **30 µg BNT162c1/animal** (group 6) on test days 1 and 8 (2 administrations) revealed any test item-related systemic changes in behaviour, external appearance, or consistency of faeces.

A summary of clinical observations is given in [Table 2-1](#) (Clinical Signs - Summary), the individual observations are listed in [Table 2-2](#) (Clinical Signs - Individual Data).

### **4.3 Mortality**

#### **BNT162a1 - Groups 2 and 3, BNT162b1 - Groups 4 and 5, BNT162c1 - Group 6, and BNT162b2 - Group 7**

##### Treatment and recovery period

No test item-related deaths were noted for any treatment.

The female animal no. 76 treated with **30 µg BNT162a1/animal** (group 3) and the male animal no. 130 treated with **30 µg BNT162b1/animal** (group 5) died during the blood sampling for dose exposure examination on test day 17 (day of dissection). However, the deaths of these animals are not considered to be test item-related but to be related to the stress caused by the technical procedure of blood withdrawal from the retrobulbar venous plexus under isoflurane anaesthesia after the animals had been fasted overnight.

The macroscopic inspection at necropsy did not reveal any abnormalities for animal no. 76. An enlarged spleen, enlarged adrenal glands, and an enlarged iliac lymph node were noted for animal no. 130. The absolute weight of the spleen was increased by approx. 21% compared to the mean value of the control group. However, these findings are not considered to be sufficient to causally explain the animal's premature death. In summary, the histopathological examination did not reveal a clear cause of death for any of the deceased animals.

As the animals died during terminal anaesthesia, closely before the pending sacrifice, and were dissected immediately after death, the organ weight data from these animals were included into statistical analysis as scheduled.

#### 4.4 Body weight

Mean values per group and individual data of body weight, body weight gain, and body weight at autopsy are listed in [Table 3-1](#) (Body Weight - Summary), [Table 3-2](#) (Body Weight - Individual Data), [Table 3-3](#) (Body Weight Gain-Summary), [Table 3-4](#) (Body Weight Gain - Individual Data), and [Table 3-5](#) (Body Weight at Autopsy).

The mean body weight is plotted in [Figure 1-1](#) (male animals) and [Figure 1-2](#) (female animals) on the following page.

The mean body weight gain for the treatment period from test day 1 to test day 9 (group 6) or test day 16 (groups 1 to 5 and 7) and for the recovery period from test day 10 to test day 30 (group 6) or test day 16 to test day 37 is shown graphically in [Figure 1-3](#) (male animals) and [Figure 1-4](#) (female animals) on page 72.

The body weight at autopsy at terminal sacrifice (test day 9 for group 6, test day 16 for groups 1 to 5 and 7) and at recovery sacrifice (test day 30 for group 6, test day 37 for groups 1 to 5 and 7) is shown graphically in [Figure 1-5](#) (male animals) and [Figure 1-6](#) (female animals) on page 73.

**BNT162a1 - Groups 2 and 3**Treatment period

The body weight of the male animals treated with the high dose of **30 µg BNT162a1/animal** (group 2) on test days 1, 8, and 15 was reduced by up to 16.7% in comparison to the control animals on test days 2, 8/9, and 15/16 (statistically significant at  $p \leq 0.01$  as of test day 2). The body weight gain was reduced accordingly by 22 percentage points compared to the control group for the period from test day 1 to test day 16. However, the lowered body weight gain over the whole treatment period is mainly due to the weight loss observed on each day after an administration day. The slope of weight gain increase was the same each time between the day after administration until next dosing compared to the control group. In summary, the absolute body weight was affected, but the body weight gain between dosing was not. Consistent with the lower overall body weight gain, the body weight at autopsy was approx. 17% lower than in the control group on test day 17.

The female animals treated with **30 µg BNT162a1/animal** revealed a slight, but statistically significant (at  $p \leq 0.01$  or  $p \leq 0.05$ ) reduction of body weights by up to 7% compared to the control group on test days 9 and 16 (on the respective day after the administrations on test days 8 and 15 in each case). Although changes were not always statistically significant for the female animals, the trend is the same as for the male animals. The body weight gain was approx. 7 percentage points lower than in the control group for the period from test day 1 to test day 16. The body weight at terminal sacrifice (test day 17) was reduced by only approx. 5% compared to the control group indicating some weight re-gain by the end of the dosing period.

The test item-related body weight changes noted for the treatment with **30 µg BNT162a1/animal** are summarised in the text table below.

Text table 4-1: Test item-related body weight changes for BNT162a1

Test item-related changes in mean body weight compared to the control group [%] (refer to <a href="#">Table 3-1</a> )		
Test day	Group 2: 30 µg BNT162a1/animal	
	Males	Females
2	-6.9**	-4.5
8	-5.6**	None
9	-13.1**	-6.5*
15	-11.5**	-2.6
16	-16.7**	-7.0**

None No test item-related change.

\* / \*\* Statistically significant at  $p \leq 0.01$  /  $p \leq 0.05$  (based on numerical data, not on percent difference).

A body weight increase of up to 19.2% noted for the male animals administered **10 µg BNT162a1/animal** (group 3) in comparison to the control animals on test days 1, 2, and 8 (statistically significant at  $p \leq 0.01$ ) was due to their older age (+6 days) at start of the study (staggered start, refer to [Section 2.7](#)). However, the body weight gain from test day 1 to test day 16 was *decreased* compared to the control animals, resulting in slightly lower body weights than in the control group on test day 16. The body weight gain was decreased by approx. 25 percentage points compared to the control group for the period from test day 1 to test day 16.

The female animals treated with **10 µg BNT162a1/animal** (group 3) on test days 1, 8, and 15 revealed a slight decrease of body weight by up to 5.2% in comparison to the control animals on test days 9, 15 and 16. Their body weight gain from test day 1 to test day 16 was only approx. 6 percentage points lower compared to the control group.

The body weight at autopsy was not affected for the male animals and only marginally decreased for the female animals administered **10 µg BNT162a1/animal** (group 3) compared to the control group at terminal sacrifice on test day 17. However, due to the older age slightly higher body weights than in the control group were expected. Therefore, a slight effect on the body weight and the body weight gain due to the treatment with **10 µg BNT162a1/animal** cannot be ruled out completely.

#### Recovery period

No noteworthy changes were noted for the body weights of the male and female animals previously treated with **10 or 30 µg BNT162a1/animal** (groups 3 and 2) in comparison to the control animals at the end of the recovery period. The body weight gain of the animals was up to approx. 16 percentage points higher compared to the control group for the period from test day 16 to test day 37.

### **BNT162b1 - Groups 4 and 5**

#### Treatment period

The body weight of the male animals treated with **30 µg BNT162b1/animal** on test days 1, 8, and 15 (group 4) was reduced by up to 8.8% in comparison to the control animals on test day 16 (statistically significant at  $p \leq 0.01$ ). The body weight gain was reduced accordingly by 12 percentage points compared to the control group for the period from test day 1 to test day 16. The body weight at autopsy was 7.3% lower than in the control group on test day 17.

No noteworthy differences were noted for the body weight, the body weight gain, and the body weight at autopsy between the female animals treated with **30 µg BNT162b1/animal** (group 4) and the control group until the end of the treatment period.

Up to test day 8, the male animals treated with **100 µg BNT162b1/animal** on test days 1, 8, and 15 (group 5) revealed *higher* body weights than the control group animals due to their older age (+6 days compared to the control animals), but a body weight decrease by up to 9.3% compared to the control group as of test day 9 (statistically significant at  $p \leq 0.01$  on test days 9 and 16). The body weight gain was reduced by approx. 31 percentage points compared to the control group for the period from test day 1 to test day 16. The body weight at autopsy was approx. 5% lower than in the control group on test day 17.

The female animals treated with **100 µg BNT162b1/animal** revealed a statistically significant (at  $p \leq 0.05$ ) reduction of body weight by 6.1% compared to the control group on test day 9, but there were no noteworthy differences for the body weight, the body weight gain, and the body weight at autopsy in comparison to the control group on test day 17.

The body weight changes that are considered to be related to the treatment with **BNT162b1** are summarised in the text table below.

Text table 4-2: Test item-related body weight changes for BNT162b1

Test item-related changes in mean body weight compared to the control group [%] (refer to <a href="#">Table 3-1</a> )				
Test day	BNT162b1			
	Group 4: 30 µg/animal		Group 5: 100 µg/animal	
	Males	Females	Males	Females
2	-4.7 **	None	None	-4.7
9	-6.5 *	None	-6.6 **	-6.1 *
15	-5.1 *	None	-2.4	None
16	-8.8 **	None	-9.3 **	-4.5

None No test item-related change.

\* / \*\* Statistically significant at  $p \leq 0.01$  /  $p \leq 0.05$  (based on numerical data, not on percent difference).

#### Recovery period

No noteworthy changes were noted for the body weights of the male and female animals previously treated with **30 or 100 µg BNT162b1/animal** (groups 4 and 5) in comparison to the control animals at the end of the recovery period. The body weight gain of the animals was up to approx. 9 percentage points higher compared to the control group for the period from test day 16 to test day 37.

### BNT162c1 - Group 6

#### Treatment period

Up to test day 8, the male animals treated with **30 µg BNT162c1/animal** (group 6) revealed body weights that were up to 17% *higher* than in the control group due to their older age (+6 days compared to the control animals). On test day 9, a body weight reduction of 4.3% was noted compared to the control group (not statistically significant at  $p \leq 0.01$  or  $p \leq 0.05$ ). No body weight gain was noted for the period from test day 1 to test day 9 whereas the body weight gain in the control group was 21.34% for that period. The body weight at autopsy was approx. 17% lower compared to the control group's body weight at autopsy on test day 10 although the animals in group 6 and in the control group had a comparable age at sacrifice (group 6: 70 days, control group: 71 days).

The female animals treated with **30 µg BNT162c1/animal** revealed a statistically significant (at  $p \leq 0.01$ ) reduction of body weight by 7.0% compared to the control group on test day 9. There was a marginal body weight gain of only approx. 1.5% for the period from test day 1 to test day 9. The body weight at autopsy was approx. 12% lower compared to the control group's body weight at autopsy on test day 10 (the females had the same age as the males, see above).

#### Recovery period

No noteworthy changes were noted for the body weights of the male and female animals previously treated with **30 µg BNT162c1/animal** in comparison to the control animals at the end of the recovery period. The body weight gain of the animals appeared to be higher compared to the control group for the period from test day 9 to test day 30 (not quantifiable due to the different time course).

### BNT162b2 - Group 7

#### Treatment period

Up to test day 8, the male animals treated with **100 µg BNT162b2/animal** (group 7) revealed body weights that were up to 16% *higher* than in the control group due to their older age (+6 days compared to the control animals). A body weight reduction of up to 11.3% was noted compared to the control group on test days 9, 15, and 16 (statistically significant at  $p \leq 0.01$  on test days 9 and 16). There was a body weight gain of only approx. 5% for the period from test day 1 to test day 16, which is approx. 32 percentage points lower compared to the control group. The body weight at autopsy was approx. 8% lower compared to the control group on test day 17.

The female animals treated with **100 µg BNT162b2/animal** revealed a reduction of body weight by up to 6.8 % compared to the control group starting on test days 2 to 16 (statistically significant at  $p \leq 0.01$  or  $p \leq 0.05$  on test days 9 and 16). A body weight gain of approx. 6% was noted for the period from test day 1 to test day 16, being approx. 10 percentage points lower compared to the control group. No noteworthy difference was noted for the body weight at autopsy between the females treated with **100 µg BNT162b2/animal** and the females of the control group on test day 17.

#### Recovery period

No noteworthy changes were noted for the body weight, body weight gain, and body weight at autopsy of the male animals previously treated with **100 µg BNT162b2/animal** in comparison to the control animals at the end of the recovery period. The body weight of the female animals was consistently slightly lower compared to the control group, despite of their older age. The body gain from test day 16 to test day 37 was nearly identical to that of the control group. At the end of the recovery period, there was no noteworthy difference in body weight between the two groups.

Statistically significant differences observed for the body weight between any test item-treated group and the control group as listed in the text table below are not considered to be test item-related but to be coincidental changes.

Text table 4-3: Statistically significant body weight changes considered not test item-related

Body weight changes compared to the control group considered <u>not</u> test item-related (refer to <a href="#">Table 3-1</a> )							
Group	Test item no. <sup>#</sup>	Dose [µg/animal]	Sex	Test day	Change [%]	Statistical significance	Reason
3	1	10	m	1	+19.2	$p \leq 0.01$	A
				2	+12.7	$p \leq 0.01$	A
				8	+10.0	$p \leq 0.01$	A
5	3	100	m	1	+17.3	$p \leq 0.01$	A
6	5	30	m	1	+17.0	$p \leq 0.01$	A
				2	+9.1	$p \leq 0.01$	A
7	4	100	m	1	+16.0	$p \leq 0.01$	A

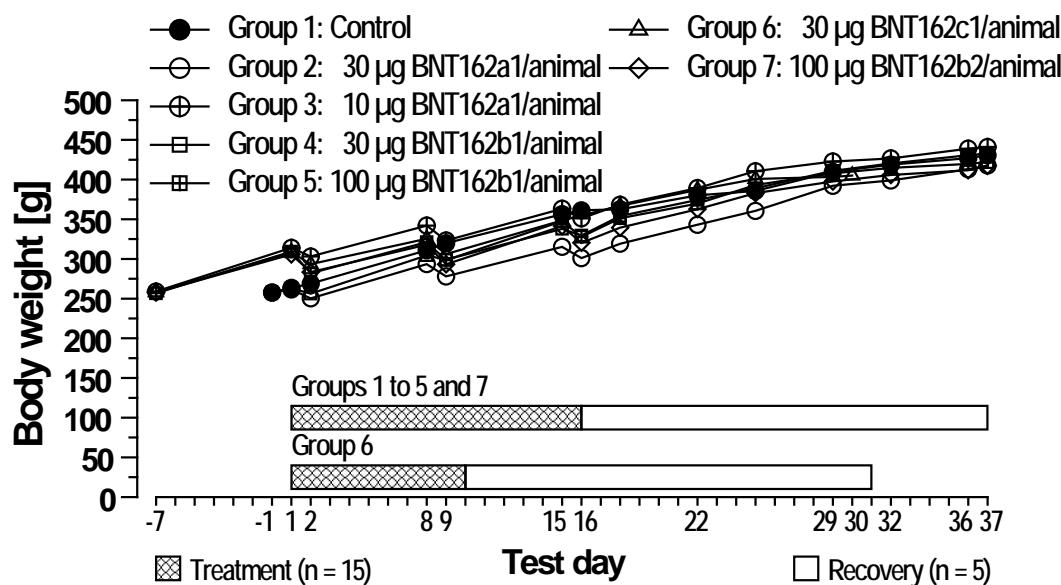
- # Test item 1: BNT162a1 - Groups 2 and 3
- Test item 3: BNT162b1 - Groups 4 and 5
- Test item 4: BNT162b2 - Group 7
- Test item 5: BNT162c1 - Group 6

m male

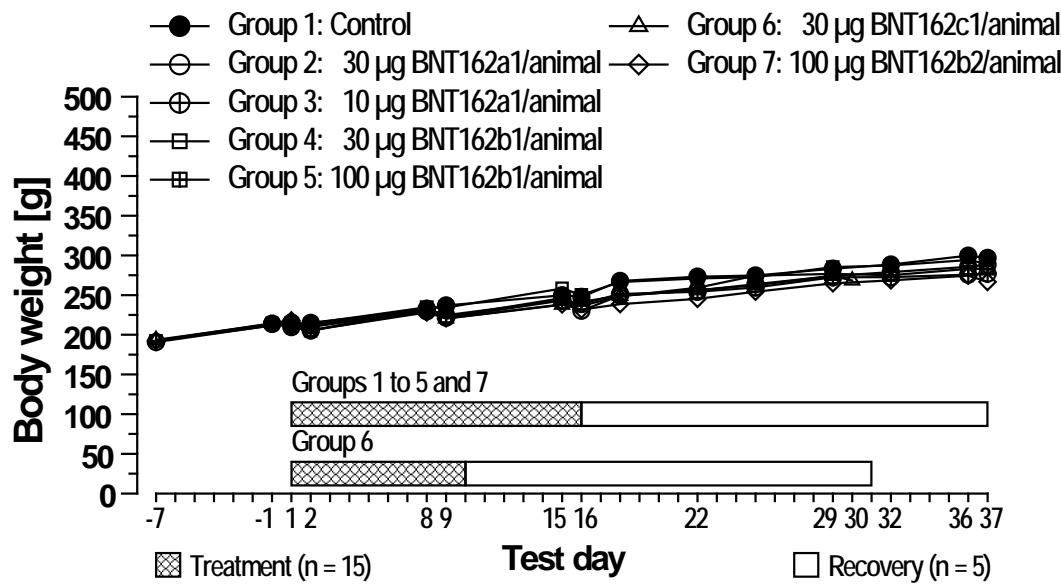
f female

A Change is due to the older age of the animals.

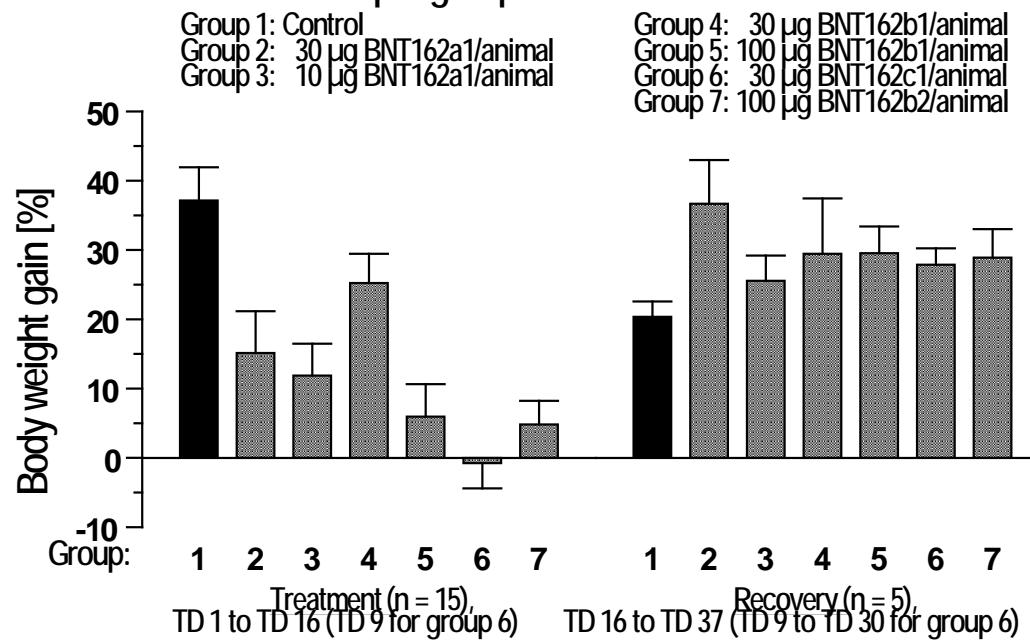
**Figure 1-1 Body weight of male rats treated once weekly, mean values per group**  
Up to 3 administrations per animal (TD 1/8/15)



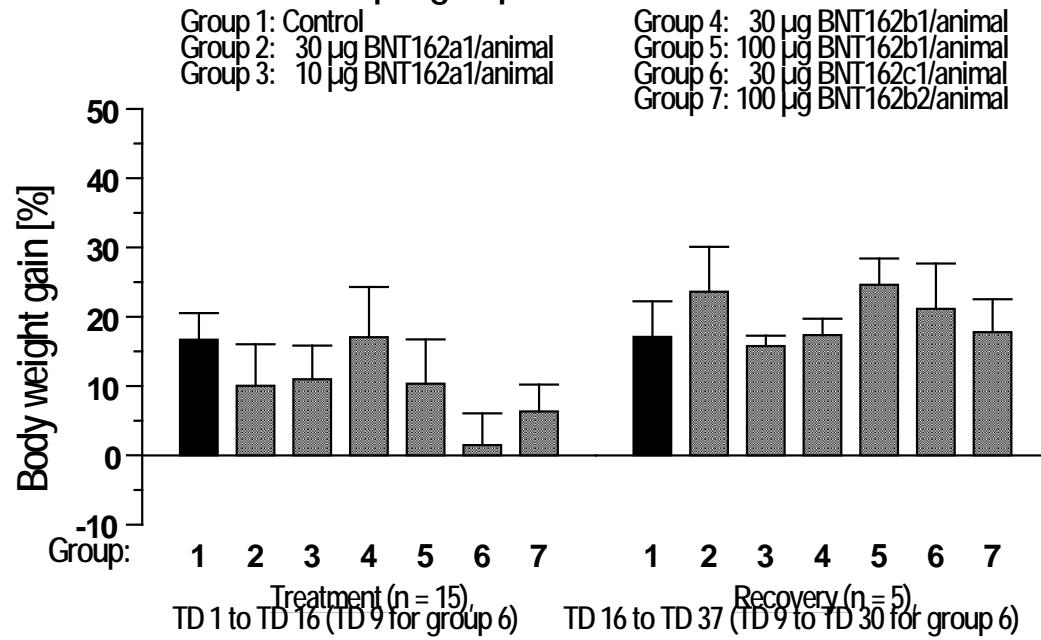
**Figure 1-2 Body weight of female rats treated once weekly, mean values per group**  
Up to 3 administrations per animal (TD 1/8/15)

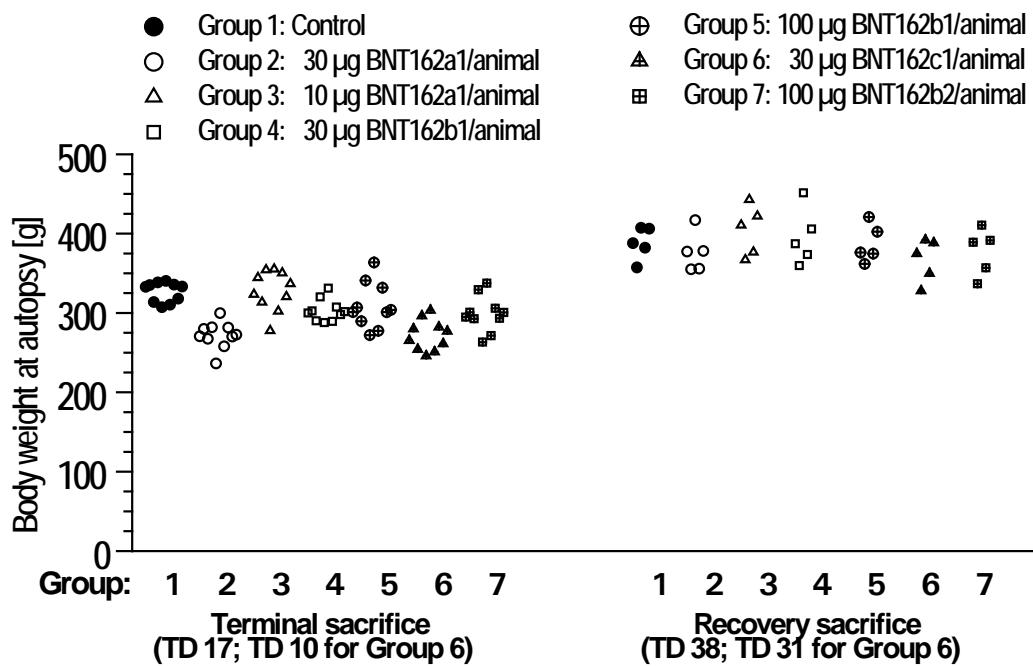
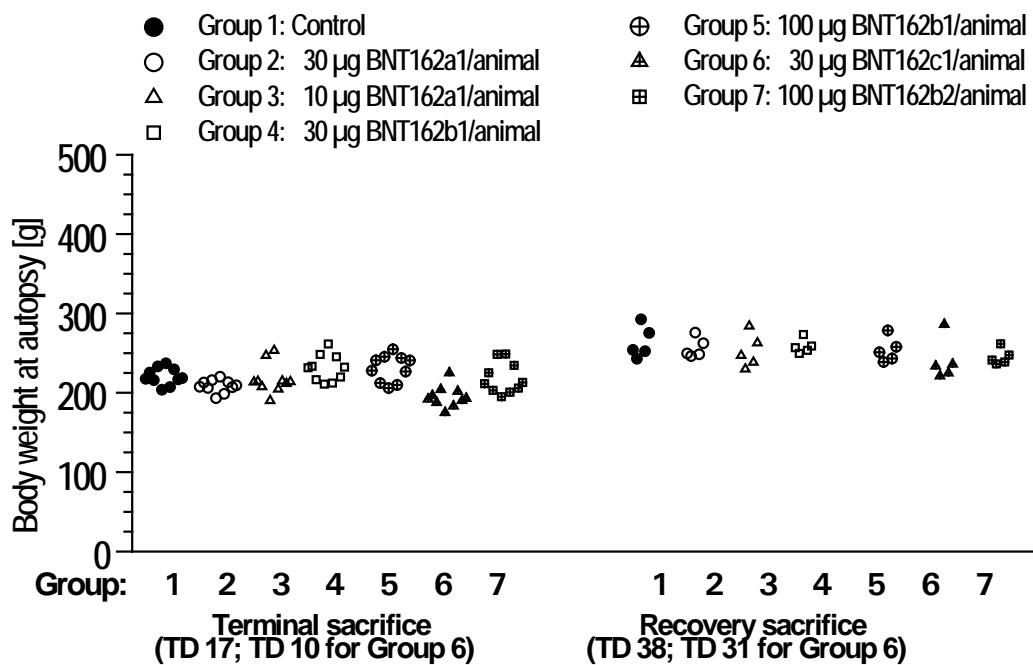


**Figure 1-3 Body weight gain of male rats treated once weekly, mean values per group and standard deviation**



**Figure 1-4 Body weight gain of female rats treated once weekly, mean values per group and standard deviation**



**Figure 1-5 Body weight at autopsy, individual data -Males****Figure 1-6 Body weight at autopsy, individual data -Females**

#### 4.5 Food and drinking water consumption

##### **BNT162a1 - Groups 2 and 3**

###### Treatment period

No test item-related influence was observed on the relative food consumption for the male and female animals following intramuscular treatment with **10 µg BNT162a1/animal** (group 3) on test days 1, 8, and 15 (3 administrations) in comparison to the control.

The relative food consumption of the male animals treated with **30 µg BNT162a1/animal** (group 2) appeared to be slightly decreased by 5.7% in test week 1 and by 7.2% in test week 2 (statistically significant at  $p \leq 0.05$  and  $p \leq 0.01$ ). For the female animals of group 2, a slight decrease of the relative food consumption by 3.3% in test week 1 and by 4.4% in test week 2 was observed (not statistically significant). The effect is considered to be test item related.

###### Recovery period

No noteworthy changes were noted for the relative food consumption of the male and female animals previously treated with **10 or 30 µg BNT162a1/animal** (groups 3 and 2) in comparison to the control animals during the recovery period.

##### **BNT162b1 - Groups 4 and 5, BNT162c1 - Group 6, and BNT162b2 - Group 7**

###### Treatment period and recovery period

No test item-related influence was observed on the relative food consumption for the male and female animals following intramuscular treatment with **10 or 30 µg BNT162b1/animal** (groups 4 and 5), or **100 µg BNT162b2/animal** (group 7) on test days 1, 8, and 15 (3 administrations), or with **30 µg BNT162c1/animal** (group 6) on test days 1 and 8 (2 administrations) in comparison to the control group throughout the treatment and recovery period.

Any differences to the control group are regarded to be within the normal range of biological variation.

The statistically significant differences to the control group's relative food consumption that are not considered to be related to any of the test items are listed in the text table on the following page.

Text table 4-4: Statistically significant changes in relative food consumption considered not test item-related

Statistically significant changes in relative food consumption (refer to <a href="#">Table 4-1</a> ) in comparison to the control group considered <u>not</u> test-item-related							
Group	Test item no. <sup>#</sup>	Dose [ $\mu\text{g}/\text{animal}$ ]	Sex	Test week	Change [%]	Statistical significance	Reason
2	1	30	m	4	+ 15.6	p ≤ 0.01	B
				5	+ 10.7	p ≤ 0.01	B
3	1	10	m	1	-16.9	p ≤ 0.01	C
				2	-10.3	p ≤ 0.01	C
				3	-11.1	p ≤ 0.01	C
			f	1	-6.5	p ≤ 0.05	C
5	3	100	m	1	-22.9	p ≤ 0.01	C
				2	-12.2	p ≤ 0.01	C
				3	-12.3	p ≤ 0.01	C
			f	1	-13.3	p ≤ 0.01	C
				4	+ 12.6	p ≤ 0.05	A
6	5	30	m	1	-18.5	p ≤ 0.01	C
				2	-13.7	p ≤ 0.01	C
			f	1	-9.7	p ≤ 0.01	C
7	4	100	m	1	-22.3	p ≤ 0.01	C
				2	-11.1	p ≤ 0.01	C
				3	-13.4	p ≤ 0.01	C
			f	1	-13.7	p ≤ 0.01	C
				4	+ 13.2	p ≤ 0.01	B

<sup>#</sup> Test item 1: BNT162a1 - Groups 2 and 3

Test item 3: BNT162b1 - Groups 4 and 5

Test item 4: BNT162b2 - Group 7

Test item 5: BNT162c1 - Group 6

m male

f female

A Change is within limits of normal biological variation and without toxicological relevance.

B Change is due to the lower weight of the respective animals.

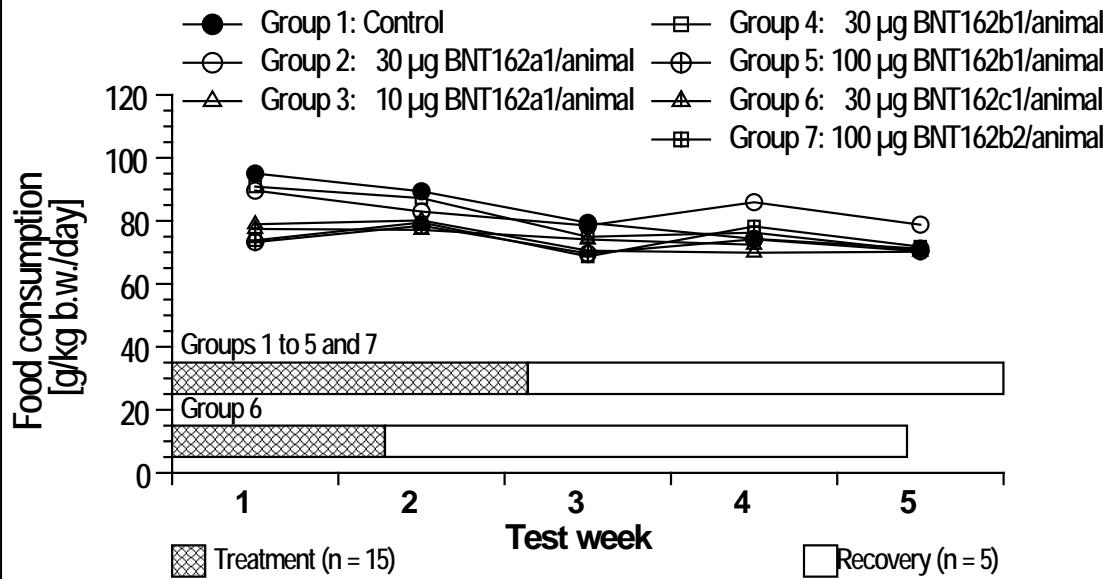
C Change is due to the higher weight of the respective animals.

Visual appraisal of the drinking water consumption did not reveal any noteworthy differences between any of the test item-treated groups and the control group throughout the treatment and recovery period. The consumption was not quantified.

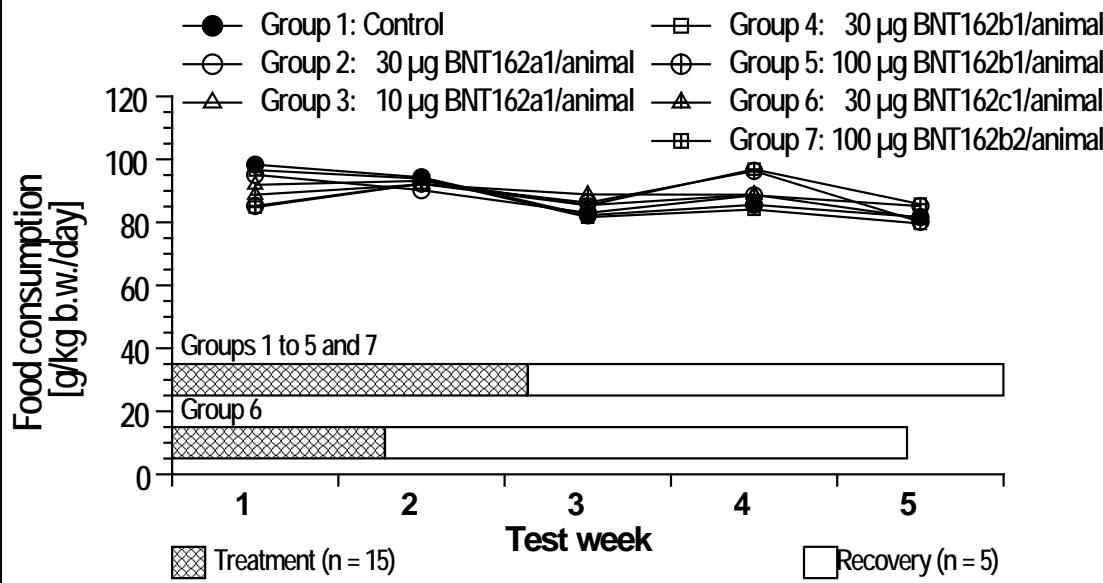
Mean values per group and individual data of food intake are listed in [Table 4-1](#) (Food Consumption - Summary) and [Table 4-2](#) (Food Consumption - Individual Data).

The mean relative food consumption (in g/kg b.w./day) per group and sex is shown graphically in [Figure 2-1](#) (males) and [Figure 2-2](#) (females) on the following page.

**Figure 2-1 Food consumption of male rats treated once weekly, mean values per group**  
Up to 3 administrations per animal (TD 1/8/15)



**Figure 2-2 Food consumption of female rats treated once weekly, mean values per group**  
Up to 3 administrations per animal (TD 1/8/15)



#### 4.6 Body temperature

##### **BNT162a1 - Groups 2 and 3, BNT162b1 - Groups 4 and 5, BNT162c1 - Group 6, and BNT162b2 - Group 7**

###### Treatment and recovery period

Intramuscular treatment with **10 or 30 µg BNT162a1/animal** (groups 3 and 2), **30 or 100 µg BNT162b1/animal** (groups 4 and 5), or **100 µg BNT162b2/animal** (group 7) on test days 1, 8, and 15 (3 administrations), or with **30 µg BNT162c1/animal** (group 6) on test days 1 and 8 (2 administrations) led to slightly increased body temperatures at 4 h p.a. and/or 24 h p.a. compared to the control animals (statistically significant at  $p \leq 0.01$  or  $p \leq 0.05$  in many cases). The effect appeared to be slightly more pronounced in the groups treated with the higher test item dose levels (i.e. groups 2, 5, 6, and 7).

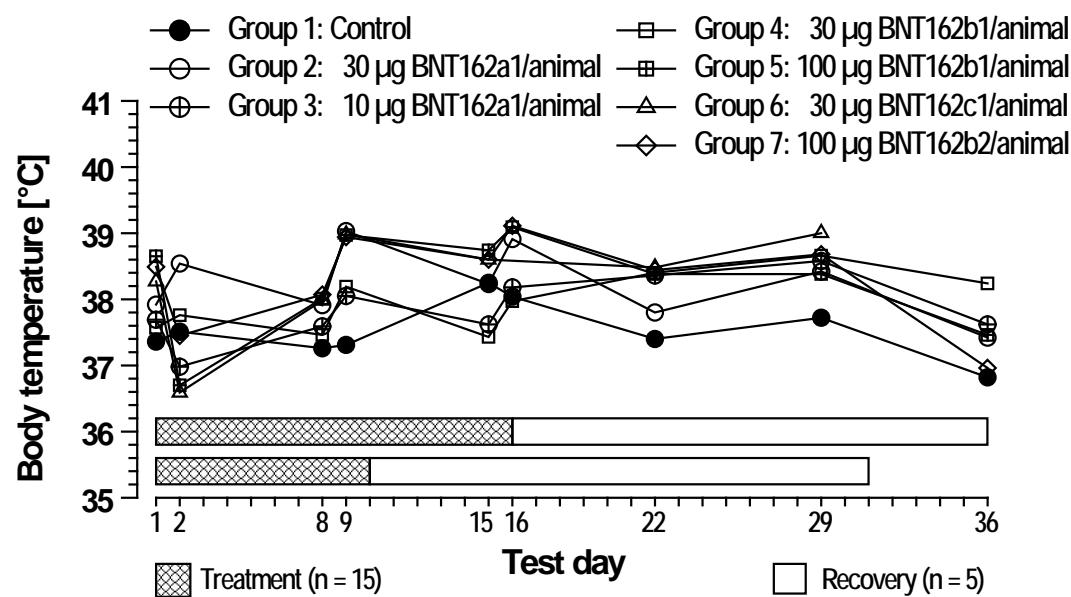
During the recovery period, the body temperature remained at a slightly higher level compared to the control group in all previously test item treated groups.

The slight body temperature *decreases* noted for groups 3, 5, 6, and 7 in comparison to the control group are considered to be due to the circumstances of the time-shift in study conduct for these groups. The body temperature measurements of these animals were performed on dates different from those for the control and by different staff.

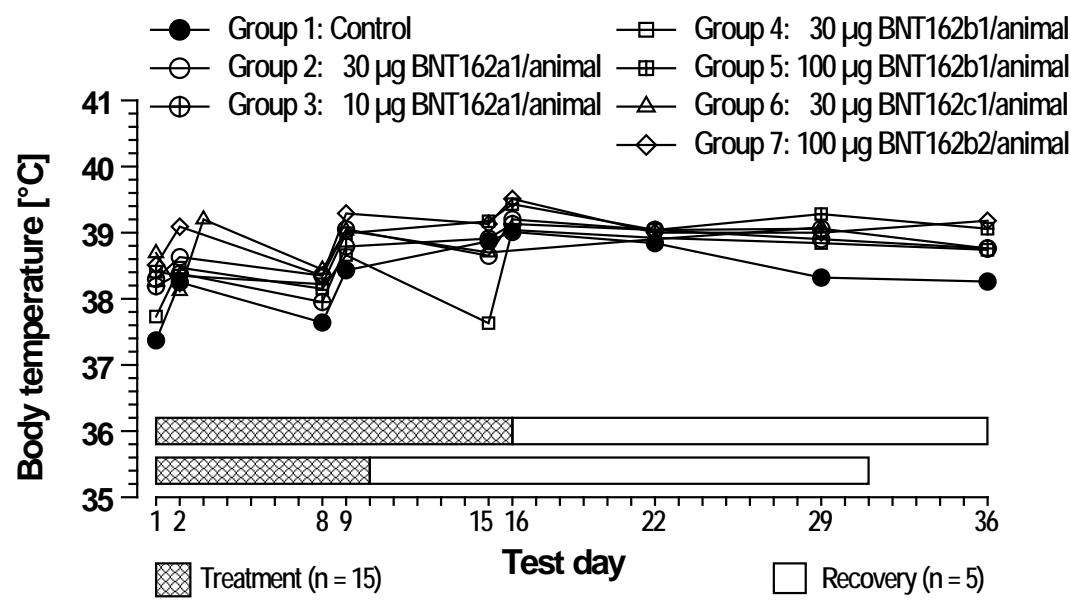
Mean values per group and individual data of body temperature are listed in [Table 5-1](#) (Body Temperature - Summary) and [Table 5-2](#) (Body Temperature - Individual Data).

The mean body temperature per group and sex is shown graphically in [Figure 3-1](#) (males) and [Figure 3-2](#) (females) on the following page.

**Figure 3-1 Body temperature of male rats treated once weekly, mean values per group**  
Up to 3 administrations per animal (TD 1/8/15)



**Figure 3-2 Body temperature of female rats treated once weekly, mean values per group**  
Up to 3 administrations per animal (TD 1/8/15)



#### 4.7 Haematology and coagulation

The most consistent test item-related haematologic changes were dose-related increases in neutrophils and large unstained cells (LUC), which were seen with all test items on test day 17, but were greatest in groups 2, 5 and 7 and were greater in females relative to males. Other test item-related changes included decreases in the absolute and relative reticulocyte count (test day 4 only), platelet count, and red cell mass (HGB, HCT and RBC; test day 17 only), and increases in the numbers of leucocytes, monocytes, eosinophils, basophils and/or fibrinogen concentrations. All changes were considered to be related to the primary pharmacodynamic activity of the vaccines, which induce a potent immune response.

Increases in fibrinogen levels and leucocytes (most notably neutrophils and LUC), were consistent with an acute phase response secondary to immune activation and inflammation at the injection sites.

Decreases in numbers of reticulocytes, RBC and platelets were associated with increased bone marrow haematopoiesis, consistent with transient, secondary or peripheral effects. Transient reticulocyte decreases (test day 4 only) were likely secondary to the acute phase response and inflammation. Effects on red cell mass were limited to minimal decreases in RBC, HGB, and HCT on test day 17. Platelet decreases were small in magnitude and not expected to result in bleeding. They were likely secondary to inflammation-related platelet activation and consumption. There were no thrombi evident microscopically.

##### **BNT162a1 - Groups 2 and 3**

###### Treatment period

Test item-related changes included decreases in the absolute and relative reticulocyte count, the number of platelets, and red cell mass, and increases in the numbers of leucocytes, neutrophils, monocytes, large unstained cells (LUC), basophils and/or the levels of fibrinogen. All changes fully reversed by the end of the recovery phase.

The test item-related changes noted for the animals treated with **10 µg BNT162a1/animal** (group 3) or **30 µg BNT162a1/animal** (group 2) are given in the text table on the following page.

Text table 4-5: Test item-related changes in haematological and coagulation parameters for the treatment with BNT162a1

Test item-related changes in haematological and coagulation parameters, groups 2 and 3 compared to the control group in % (refer to Table 6-1)				
Parameter	BNT162a1			
	Group 3: 10 µg/animal		Group 2: 30 µg/animal	
	Males	Females	Males	Females
Test day 4				
Platelets (PLT)	None	None	None	-22.7**
Reticulocytes (relative)	-64.1**	-52.0**	-75.3**	-62.1**
Reticulocytes (absolute)	-62.1**	-51.5**	-75.6**	-64.4**
Neutrophils (Neut), abs.	None	None	+128.8**	+245.1**
Monocytes (Mono), abs.	None	None	+39.0	+129.5**
Large unclassified cells (LUC), abs.	None	None	+644.9**	+574.7**
Basophils (Baso), abs.	None	None	None	+119.2**
Test day 17				
Haemoglobin (HGB)	None	-7.7**	None	None
Erythrocytes (RBC)	None	-5.4*	None	None
Haematocrit (HCT)	None	-9.7**	None	None
Leucocytes (WBC)	None	None	+79.1**	+104.1**
Platelets (PLT)	-26.1**	-34.6**	-26.1**	-41.7**
Neutrophils (Neut), abs.	+267.1**	+338.0**	+430.6**	+589.4**
Monocytes (Mono), abs.	+103.6**	+131.7**	+84.7*	+97.4*
Large unclassified cells, (LUC) abs.	+455.7**	+520.8**	+1226.1**	+1022.1**
Basophils (Baso), abs.	+130.0**	+105.3*	+110.0**	+215.8**
Fibrinogen	+155.4**	+144.5*	+191.3**	+174.4**

abs. absolute

None No test item-related change.

\*\* Statistically significant at  $p \leq 0.01$  /  $p \leq 0.05$  (based on numerical data, not on percent difference).

#### Recovery period

No noteworthy differences were noted for any haematological or coagulation parameter between the animals previously treated with **10 µg BNT162a1/animal** (group 3) or **30 µg BNT162a1/animal** (group 2) and the control animals at the end of the treatment period. All test item-related changes previously noted during the treatment period had subsided.

**BNT162b1 - Groups 4 and 5**Treatment period

Test item-related changes included decreases in the absolute and relative reticulocyte count, the number of platelets, and red cell mass, and increases in the numbers of leucocytes, neutrophils, eosinophils, monocytes, large unstained cells (LUC), basophils and/or the levels of fibrinogen. All changes fully reversed by the end of the recovery phase.

The test item-related changes noted for the animals treated with **30 or 100 µg BNT162b1/animal** (groups 4 and 5) are given in the text table below.

Text table 4-6: Test item-related changes in haematological and coagulation parameters for the treatment with BNT162b1

Test item-related changes in haematological and coagulation parameters, groups 4 and 5 compared to the control group in % (refer to <a href="#">Table 6-1</a> )				
Parameter	BNT162b1			
	Group 4: 30 µg/animal		Group 5: 100 µg/animal	
	Males	Females	Males	Females
Test day 4				
Reticulocytes (relative)	-43.0	None	-65.6**	-42.6**
Reticulocytes (absolute)	-44.3**	None	-63.3**	-42.6**
Large unclassified cells (LUC), abs.	None	None	None	+ 250.6**
Test day 17				
Haemoglobin (HGB)	None	-10.5**	-10.9**	-13.5**
Erythrocytes (RBC)	None	-8.2**	-5.6	-9.5**
Haematocrit (HCT)	None	-9.1**	-13.9**	-14.7**
Leucocytes (WBC)	None	+ 79.3**	+ 82.2**	+ 102.7**
Platelets (PLT)	None	None	-25.0**	-34.4**
Neutrophils (Neut), abs.	+ 304.2**	+ 486.1**	+ 447.3**	+ 636.3**
Monocytes (Mono), abs.	+ 102.3**	+ 134.4**	+ 77.9*	+ 113.8**
Eosinophils (Eos), abs.	+ 111.9**	+ 227.7**	+ 230.3**	+ 440.4**
Large unclassified cells (LUC), abs.	+ 169.3**	+ 457.1**	+ 575.0**	+ 714.3**
Basophils (Baso), abs.	+ 100.0**	+ 121.1**	+ 110.0**	+ 126.3**
Fibrinogen	+ 155.7**	+ 146.2**	+ 192.1**	+ 161.4**

abs. absolute

None No test item-related change.

\*\* Statistically significant at  $p \leq 0.01$  /  $p \leq 0.05$  (based on numerical data, not on percent difference).

Recovery period

No noteworthy differences were noted for any haematological or coagulation parameter between the animals previously treated with **30** or **100 µg BNT162b1/animal** (groups 4 and 5) and the control animals at the end of the treatment period. All test item-related changes previously noted during the treatment period had subsided.

**BNT162c1 - Group 6**

Treatment period

Test item-related changes included decreases in the absolute and relative reticulocyte count, the number of platelets, and red cell mass, and increases in the numbers of leucocytes, neutrophils, monocytes, large unstained cells (LUC), basophils and/or the levels of fibrinogen. All changes fully reversed by the end of the recovery phase.

The test item-related changes noted for the animals treated with **30 µg BNT162c1/animal** (group 6) are given in the text table below.

Text table 4-7: Test item-related changes in haematological and coagulation parameters for the treatment with BNT162c1

Test item-related changes in haematological and coagulation parameters, group 6 compared to the control group in % (refer to <a href="#">Table 6-1</a> )		
Parameter	Group 6: 30 µg BNT162c1/animal	
	Males	Females
<u>Test day 4</u>		
Reticulocytes (relative)	-76.5 * *	-59.0 * *
Reticulocytes (absolute)	-74.9 * *	-59.3 * *
Neutrophils (Neut), abs.	+ 68.4 * *	+ 104.9 * *
Monocytes (Mono), abs.	+ 38.7	+ 93.7 * *
Large unclassified cells (LUC), abs.	+ 360.7 * *	+ 283.9 * *
Basophils (Baso), abs.	+ 130.8 * *	None
- <i>Text table continued on the next page</i> -		

Test item-related changes in haematological and coagulation parameters, group 6 compared to the control group in % (refer to <b>Table 6-1</b> )		
Parameter	Group 6: 30 µg BNT162c1/animal	
	Males	Females
<i>- Text table continued from previous page -</i>		
<u>Test day 10</u>		
Haemoglobin (HGB)	None	↓
Erythrocytes (RBC)	None	↓
Haematocrit (HCT)	None	↓
Leucocytes (WBC)	↑	↑
Platelets (PLT)	↓	↓
Neutrophils (Neut), abs.	↑	↑
Monocytes (Mono), abs.	↑	↑
Large unclassified cells (LUC), abs.	↑	↑

abs. absolute

↑ Increase relative to study control range, but % difference not quantifiable due to lacking concurrent controls.

↓ Decrease relative to study control range, but % difference not quantifiable due to lacking concurrent controls.

None No test item-related change.

\*/\*\* Statistically significant at  $p \leq 0.01$  /  $p \leq 0.05$  (based on numerical data, not on percent difference).

#### Recovery period

No noteworthy differences were noted for any haematological or coagulation parameter between the animals previously treated with **30 µg BNT162c1/animal** (group 6) and the control animals at the end of the treatment period. All test item-related changes previously noted during the treatment period had subsided.

#### **BNT162b2 - Group 7**

##### Treatment period

Test item-related changes included decreases in the absolute and relative reticulocyte count, the number of platelets, and red cell mass, and increases in the numbers of leucocytes, neutrophils, eosinophils, monocytes, large unstained cells (LUC), basophils and/or the levels of fibrinogen. All changes fully reversed by the end of the recovery phase.

The test item-related changes noted for the animals treated with **100 µg BNT162b2/animal** (group 7) as given in the text table on the following page.

Text table 4-8: Test item-related changes in haematological and coagulation parameters for the treatment with BNT162b2

Test item-related changes in haematological and coagulation parameters, group 7 compared to the control group in % (refer to <a href="#">Table 6-1</a> )		
Parameter	Group 7: 100 µg BNT162b2/animal	
	Males	Females
<u>Test day 4</u>		
Reticulocytes (relative)	-74.3**	-47.7**
Reticulocytes (absolute)	-72.1**	-48.2**
Large unclassified cells (LUC), abs.	+ 295.5**	+ 319.5**
Basophils (Baso), abs.	+ 150.0**	None
<u>Test day 17</u>		
Haemoglobin (HGB)	-9.1**	-12.7**
Erythrocytes (RBC)	None	-9.8**
Haematocrit (HCT)	-11.9**	-13.5**
Leucocytes (WBC)	+ 118.7**	+ 111.0**
Platelets (PLT)	-29.2**	-34.1**
Neutrophils (Neut), abs.	+ 605.8**	+ 679.8**
Eosinophils (Eos), abs.	+ 419.3**	+ 509.6**
Large unclassified cells, (LUC) abs.	+ 685.2**	+ 594.8**
Basophils (Baso), abs.	+ 146.7**	+ 105.3*
Fibrinogen	+ 205.2**	+ 160.2**

abs. absolute

None No test item-related change.

\*\* Statistically significant at  $p \leq 0.01$  /  $p \leq 0.05$  (based on numerical data, not on percent difference).

#### Recovery period

No noteworthy differences were noted for any haematological or coagulation parameter between the animals previously treated with **100 µg BNT162b2/animal** (group 7) and the control animals at the end of the treatment period. All test item-related changes previously noted during the treatment period had subsided.

No test item-related effects were observed for the the numbers of lymphocytes, the prothrombin time (PT), the activated partial thromboplastin time (aPTT), the mean corpuscular volume (MCV), the mean corpuscular haemoglobin (MCH), the mean corpuscular haemoglobin concentration (MCHC), the mean platelet (thrombocyte) volume (MPV), the relative volume of thrombocytes / Plateletcrit (PCT), the platelet distribution width (PDW), the red cell distribution width (RDW), and the mean platelet component (MPC) for any of the test items during the treatment period and at the end of the recovery period. All data of the parameters given before are considered to be within the normal range of biological variability.

Statistically significant differences in haematological and coagulation parameters noted in comparison to the control group during the treatment period or at the end of the recovery period that are not considered to be test item-related but to be coincidental are listed in the text table starting below.

Text table 4-9: Statistically significant differences in haematological and coagulation parameters considered not test item-related

Statistically significant differences in haematological and coagulation parameters in comparison to the control group considered <u>not</u> test item-related (refer to <a href="#">Table 6-1</a> )								
Parameter	Group	Test item no. <sup>#</sup>	Dose [µg/animal]	Sex	Test day	Change [%]	Statistical significance	Reason
Haemoglobin content (HGB)	2	1	30	m	17	-5.1	p ≤ 0.01	A
	3	1	10	m	4	+4.5	p ≤ 0.05	A
					17	-4.9	p ≤ 0.01	A
	4	3	30	m	4	-4.5	p ≤ 0.05	A
					17	-5.7	p ≤ 0.01	A
	5	3	100	m	4	+3.8	p ≤ 0.05	A
	6	5	30	m	4	+4.1	p ≤ 0.05	A
Erythrocytes (RBC)	7	4	100	m	4	+5.9	p ≤ 0.01	A
	3	1	10	m	4	+6.7	p ≤ 0.01	A
	5	3	100	m	4	+7.1	p ≤ 0.01	A
	6	5	30	m	4	+7.2	p ≤ 0.01	A
Leucocytes (WBC)	7	4	100	m	4	+8.0	p ≤ 0.01	A
	2	1	30	f	4	+53.2	p ≤ 0.01	A
	3	1	10	m	17	+62.4	p ≤ 0.01	A
					f	+55.0	p ≤ 0.05	A
	4	3	30	m	17	+60.7	p ≤ 0.01	A
	6	5	30	m	4	+37.6	p ≤ 0.01	A
	7	4	100	m	4	+37.0	p ≤ 0.01	A

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**Statistically significant differences in haematological and coagulation parameters  
in comparison to the control group considered not test item-related (refer to [Table 6-1](#))**

Parameter	Group	Test item no. <sup>#</sup>	Dose [µg/animal]	Sex	Test day	Change [%]	Statistical significance	Reason
- Text table continued from previous page -								
Reticulocytes (rel.)	2	1	30	m	17	-23.6	p ≤ 0.01	A
	4	3	30	f	4	-25.0	p ≤ 0.01	A
	7	4	100	m	17	-23.3	p ≤ 0.01	A
Reticulocytes (abs.)	2	1	30	m	17	-25.5	p ≤ 0.01	A
	3	1	10	m	17	-18.8	p ≤ 0.05	A
	4	3	30	m	17	-19.6	p ≤ 0.05	A
				f	4	-26.5	p ≤ 0.05	A
Platelets (PLT)	4	3	30	f	17	-17.9	p ≤ 0.01	A
Haematocrit value (HCT)	2	1	30	m	17	-5.8	p ≤ 0.01	A
	3	1	10	m	17	-8.7	p ≤ 0.01	A
	4	3	30	m	4	-3.6	p ≤ 0.05	A
					17	-5.3	p ≤ 0.01	A
Neutrophils (Neut), abs.	7	4	100	f	4	+126.9	p ≤ 0.01	A
Lymphocytes (Lym), abs.	6	5	30	m	4	+28.0	p ≤ 0.05	A
	7	4	100	m	4	+36.8	p ≤ 0.01	A
Eosinophils (Eos), abs.	3	1	10	f	17	+61.7	p ≤ 0.05	A
Large unclassified cells (LUC), abs.	3	1	10	m	4	+146.1	p ≤ 0.01	A
				f	4	+113.8	p ≤ 0.01	A
	5	3	100	m	4	+151.7	p ≤ 0.01	A
Basophils (Baso), abs.	3	1	10	m	4	+80.8	p ≤ 0.05	A
	7	4	100	f	4	+65.4	p ≤ 0.05	A
Activated partial thromboplastin time (aPTT)	2	1	30	m	17	+15.5	p ≤ 0.01	A
				f	17	+16.6	p ≤ 0.01	A
	3	1	10	m	17	+18.2	p ≤ 0.01	A
				f	17	+23.3	p ≤ 0.01	A
	5	3	100	f	17	+13.7	p ≤ 0.01	A
	7	4	100	m	17	+14.1	p ≤ 0.05	A
				f	17	+18.1	p ≤ 0.01	A

- Text table continued on the next page -

**Statistically significant differences in haematological and coagulation parameters  
in comparison to the control group considered not test item-related (refer to [Table 6-1](#))**

Parameter	Group	Test item no. <sup>#</sup>	Dose [µg/animal]	Sex	Test day	Change [%]	Statistical significance	Reason
- Text table continued from previous page -								
Mean corpuscular volume (MCV)	2	1	30	m	17	-2.9	p ≤ 0.05	A
	3	1	10	m	4	-4.4	p ≤ 0.01	A
					17	-7.3	p ≤ 0.01	A
				f	17	-4.5	p ≤ 0.01	A
	4	3	30	m	17	-2.7	p ≤ 0.05	A
	5	3	100	m	4	-5.4	p ≤ 0.01	A
					17	-8.7	p ≤ 0.01	A
				f	17	-5.8	p ≤ 0.01	A
	6	5	30	m	4	-5.2	p ≤ 0.01	A
	7	4	100	m	4	-5.3	p ≤ 0.01	A
					17	-8.6	p ≤ 0.01	A
				f	17	-4.0	p ≤ 0.05	A
Mean corpuscular haemoglobin (MCH)	3	1	10	m	17	-3.6	p ≤ 0.01	A
	4	3	30	m	17	-3.3	p ≤ 0.01	A
	5	3	100	m	17	-5.7	p ≤ 0.01	A
				f	17	-4.3	p ≤ 0.01	A
Mean corpuscular haemoglobin concentration (MCHC)	7	4	100	m	17	-6.0	p ≤ 0.01	A
	2	1	30	m	4	+1.4	p ≤ 0.05	A
	3	1	10	m	4	+2.7	p ≤ 0.01	A
					17	+4.1	p ≤ 0.01	A
				f	4	+2.0	p ≤ 0.01	A
	4	3	30	m	17	+2.1	p ≤ 0.01	A
				f	17	-1.6	p ≤ 0.05	A
				m	4	+2.7	p ≤ 0.01	A
	5	3	100	m	17	+3.3	p ≤ 0.01	A
					f	+1.6	p ≤ 0.05	A
				m	4	+2.4	p ≤ 0.01	A
	6	5	30	f	4	+2.6	p ≤ 0.01	A
					17	+3.7	p ≤ 0.01	A
				f	4	+3.0	p ≤ 0.01	A
- Text table continued on the next page -								

**Statistically significant differences in haematological and coagulation parameters  
in comparison to the control group considered not test item-related (refer to [Table 6-1](#))**

Parameter	Group	Test item no. <sup>#</sup>	Dose [µg/animal]	Sex	Test day	Change [%]	Statistical significance	Reason	
- Text table continued from previous page -									
Mean platelet (thrombocyte) volume (MPV)	3	1	10	m	17	-20.4	p ≤ 0.01	A	
				f	4	-11.1	p ≤ 0.01	A	
					17	-17.2	p ≤ 0.01	A	
	5	3	100	m	17	-17.1	p ≤ 0.01	A	
				f	4	-8.1	p ≤ 0.05	A	
					17	-13.4	p ≤ 0.01	A	
	6	5	30	f	4	-7.6	p ≤ 0.05	A	
				m	17	-14.2	p ≤ 0.01	A	
	7	4	100		17	-11.6	p ≤ 0.01	A	
Relative volume of thrombocytes / Plateletcrit (PCT)	2	1	30	m	17	-20.3	p ≤ 0.01	A, B	
				f	4	-18.2	p ≤ 0.05	A	
					17	-36.6	p ≤ 0.01	A, B	
	3	1	10	m	17	-41.5	p ≤ 0.01	A, B	
				f	17	-46.5	p ≤ 0.01	A, B	
	4	3	30	f	17	-20.1	p ≤ 0.01	A, B	
				m	17	-37.9	p ≤ 0.01	A, B	
	5	3	100		f	17	-43.4	p ≤ 0.01	A, B
			m	17	-38.7	p ≤ 0.01	A, B		
	7	4		100		f	17	-43.2	p ≤ 0.01
Platelet distribution width (PDW)	2	1	30	m	4	+25.1	p ≤ 0.01	A	
					17	+25.3	p ≤ 0.01	A, B	
				f	17	+21.0	p ≤ 0.01	A, B	
	3	1	10	m	4	+17.4	p ≤ 0.01	A	
					17	+50.0	p ≤ 0.01	A, B	
				f	17	+46.1	p ≤ 0.01	A, B	
	4	3	30	m	17	+8.5	p ≤ 0.05	A, B	
				m	4	+14.0	p ≤ 0.05	A	
	5	3	100			+47.1	p ≤ 0.01	A, B	
					f	+48.8	p ≤ 0.01	A, B	
			m	4	+23.3	p ≤ 0.01	A		
	6	5		30			+45.8	p ≤ 0.01	A, B
			m	4	+24.7	p ≤ 0.01	A		
				17	+42.4	p ≤ 0.01	A, B		

- Text table continued on the next page -

**Statistically significant differences in haematological and coagulation parameters  
in comparison to the control group considered not test item-related (refer to [Table 6-1](#))**

Parameter	Group	Test item no. <sup>#</sup>	Dose [µg/animal]	Sex	Test day	Change [%]	Statistical significance	Reason
- Text table continued from previous page -								
Red cell distribution width (RDW)	2	1	30	m	4	+6.2	p ≤ 0.01	A
					17	+7.3	p ≤ 0.01	A
					38	+17.7	p ≤ 0.01	A, B
				f	17	+11.1	p ≤ 0.01	A
					38	+14.9	p ≤ 0.01	A, B
	3	1	10	m	17	-12.2	p ≤ 0.01	A
					38	+18.8	p ≤ 0.01	A, B
				f	17	-8.7	p ≤ 0.01	A
					38	+12.9	p ≤ 0.01	A, B
	4	3	30	m	17	+8.9	p ≤ 0.01	A
					38	+16.9	p ≤ 0.01	A, B
				f	17	+6.1	p ≤ 0.05	A
					38	+12.4	p ≤ 0.05	A, B
	5	3	100	m	17	-12.2	p ≤ 0.01	A
					38	+16.0	p ≤ 0.01	A, B
				f	17	-6.7	p ≤ 0.05	A
					38	+14.8	p ≤ 0.01	A, B
	7	4	100	m	17	-12.0	p ≤ 0.01	A
					38	+15.3	p ≤ 0.01	A, B
				f	17	-6.2	p ≤ 0.05	A
					38	+14.8	p ≤ 0.01	A, B
Mean platelet component (MPC)	2	1	30	m	4	+10.1	p ≤ 0.01	A
					17	+9.1	p ≤ 0.01	A, B
				f	17	+11.0	p ≤ 0.01	A, B
	3	1	10	m	4	+13.5	p ≤ 0.01	A
					17	+17.2	p ≤ 0.01	A, B
				f	4	+12.5	p ≤ 0.01	A
					17	+14.5	p ≤ 0.01	A, B
					38	+9.5	p ≤ 0.05	A
	4	3	30	f	17	+8.8	p ≤ 0.01	A, B

- Text table continued on the next page -

Statistically significant differences in haematological and coagulation parameters in comparison to the control group considered <u>not</u> test item-related (refer to <a href="#">Table 6-1</a> )								
Parameter	Group	Test item no. <sup>#</sup>	Dose [µg/animal]	Sex	Test day	Change [%]	Statistical significance	Reason
<i>- Text table continued from previous page -</i>								
Mean platelet component (MPC) <i>- continued</i>	5	3	100	m	4	+ 13.0	p ≤ 0.01	A
					17	+ 19.5	p ≤ 0.01	A, B
				f	4	+ 14.3	p ≤ 0.01	A
					17	+ 20.2	p ≤ 0.01	A, B
					38	+ 12.7	p ≤ 0.01	A
	6	5	30	m	4	+ 14.0	p ≤ 0.01	A, B
				f	4	+ 11.8	p ≤ 0.01	A
	7	4	100	m	4	+ 15.8	p ≤ 0.01	A
					17	+ 18.7	p ≤ 0.01	A, B
				f	4	+ 14.8	p ≤ 0.01	A
					17	+ 18.3	p ≤ 0.01	A, B
					38	+ 14.4	p ≤ 0.01	A

<sup>#</sup> Test item 1: BNT162a1 - Groups 2 and 3

Test item 3: BNT162b1 - Groups 4 and 5

Test item 4: BNT162b2 - Group 7

Test item 5: BNT162c1 - Group 6

m male

f female

abs. absolute count

rel. relative count

A Change is within the limits of normal biological variation (with regard to the range covered by the control group) and without toxicological relevance.

B Change is due to the relative high or low value noted for the control group.

Group mean values of haematological and coagulation parameters are presented in [Table 6-1](#) (Haematological Parameters - Summary), individual data are listed in [Table 6-2](#) (Haematological Parameters - Individual Data).

#### 4.8 Clinical chemistry

##### BNT162a1 - Groups 2 and 3, BNT162b1 - Groups 4 and 5, BNT162c1 - Group 6, and BNT162b2 - Group 7

###### Treatment period

An elevated plasma activity of gamma-glutamyltransferase (gamma-GT) was noted for all test item-treated groups in comparison to the control group as given in the text table below. There were no macroscopic or microscopic findings (see [Section 4.14](#) and [Section 4.16](#)) consistent with cholestasis or hepatobiliary injury to explain the increased gamma-GT.

Text table 4-10: Test item-related changes in plasma activity of gamma-glutamyltransferase

Test item-related changes in plasma activity of gamma-glutamyltransferase (gamma-GT) compared to the control group in % (refer to <a href="#">Table 7-1</a> )								
Test day	BNT162a1				BNT162b1			
	Group 3: 10 µg/animal		Group 2: 30 µg/animal		Group 4: 30 µg/animal		Group 5: 100 µg/animal	
	Males	Females	Males	Females	Males	Females	Males	Females
4	+ 208.4 **	+ 212.5 **	+ 343.2 **	+ 317.0 **	+ 165.3 **	+ 163.6	+ 249.5 **	+ 322.7 **
17	+ 87.7 **	+ 174.4 **	+ 173.5 **	+ 228.1 **	+ 121.6 **	+ 225.6 **	+ 158.0 **	+ 263.6 **
Test day	Group 6: 30 µg BNT162c1/animal				Group 7: 100 µg BNT162b2/animal			
	Males		Females		Males		Females	
	+ 278.9 **		+ 328.4 **		+ 242.1 **		+ 355.7 **	
10	↑		↑					
17					+ 198.1 **		+ 317.4 **	

\*/\*\* Statistically significant at  $p \leq 0.01$  /  $p \leq 0.05$  (based on numerical data, not on percent difference).

↑ Increase relative to study control range, but % difference not quantifiable due to lacking concurrent controls.

The range of individual data noted for the gamma-GT activity in several test groups slightly exceeded the range of (b) (4) historical data as summarised in the text table on the following page.

Text table 4-11: Comparison of gamma-glutamyltransferase activity observed in this study to (b) (4) historical data

Enzyme activity of gamma-glutamyltransferase (gamma-GT) [U/mL plasma]					
Sex	Group	Data observed in this study <sup>#1</sup> Mean (Range of individual data)			(b) (4) historical Data <sup>#2</sup> Mean (Range of individual data)
		TD 4	TD 10 <sup>#3</sup> /17	TD 31 <sup>#3</sup> /38	
Males	1	0.95 (0.1 - 2.4)	1.62 (0.7 - 2.9)	2.60 (1.6 - 3.6)	2.28 (0.4 - 5.1)
	2	4.21 (2.6 - 5.6)	4.43 (3.2 - 5.6)	2.74 (2.5 - 3.5)	
	3	2.93 (1.8 - 3.6)	3.04 (1.5 - 4.5)	1.88 (1.1 - 2.6)	
	4	2.52 (1.4 - 3.1)	3.59 (2.9 - 4.5)	2.30 (1.6 - 3.0)	
	5	3.52 (2.4 - 4.4)	4.18 (2.8 - 6.0)	1.34 (0.3 - 2.3)	
	6	3.60 (1.4 - 5.2)	3.98 (2.8 - 6.1)	1.84 (1.2 - 2.3)	
	7	3.25 (1.3 - 4.9)	4.83 (3.6 - 6.5)	1.82 (0.5 - 3.2)	
Females	1	0.88 (0.1 - 1.9)	1.21 (0.6 - 2.4)	2.48 (1.2 - 3.0)	2.43 (0.2 - 4.8)
	2	3.67 (1.6 - 5.4)	3.97 (2.9 - 4.7)	3.06 (1.9 - 3.4)	
	3	2.75 (1.6 - 3.4)	3.32 (1.1 - 5.4)	1.74 (0.5 - 2.8)	
	4	2.32 (0.7 - 4.7)	3.94 (2.3 - 6.0)	2.52 (1.4 - 3.2)	
	5	3.72 (1.3 - 5.8)	4.40 (3.7 - 5.2)	2.12 (1.6 - 3.2)	
	6	3.77 (2.4 - 4.7)	4.26 (3.0 - 5.4)	2.14 (1.8 - 2.5)	
	7	4.01 (3.2 - 5.9)	5.05 (4.5 - 6.4)	2.44 (1.8 - 3.5)	

<sup>#1</sup> Age of animals:

Groups 1, 2, and 4: 57 days on test day 4,  
70 days on test day 17,  
91 days on test day 38.

Groups 3, 5, and 7: 63 days on test day 4,  
76 days on test day 17,  
97 days on test day 38.

Group 6: 63 days on test day 4,  
69 days on test day 10,  
90 days on test day 31.

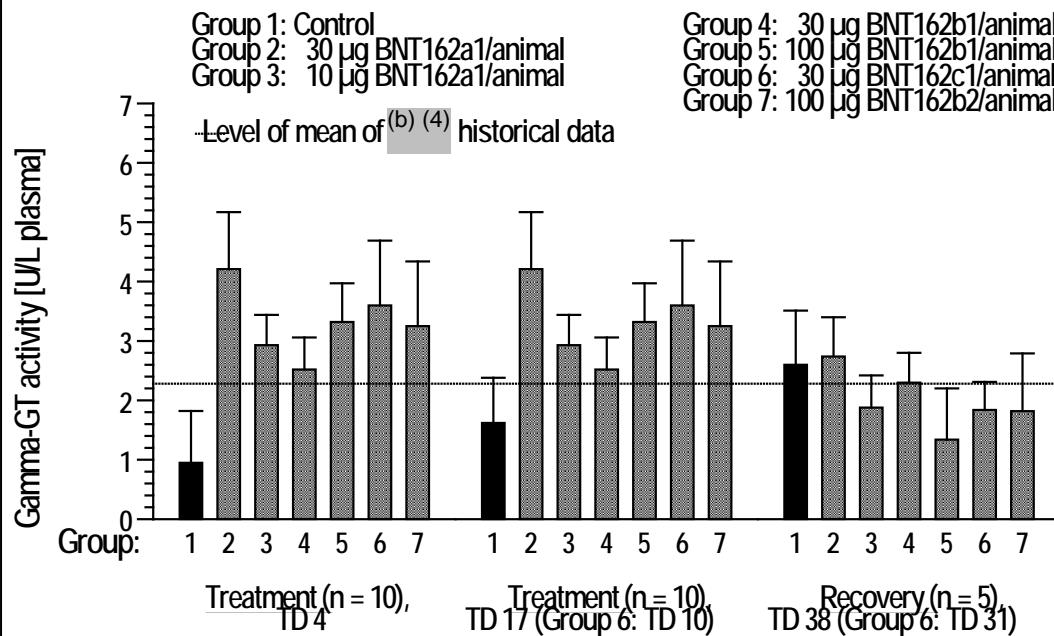
<sup>#2</sup> Obtained from 3 studies conducted at (b) (4) from 2016 to 2018 (in total 45 control group animals per sex, age at examination: 30 to 92 days, treated only with physiological saline or vehicle). The data were not audited by (b) (4) QAU.

<sup>#3</sup> Group 6 only (main study dissection: test day 10, recovery dissection: test day 31).

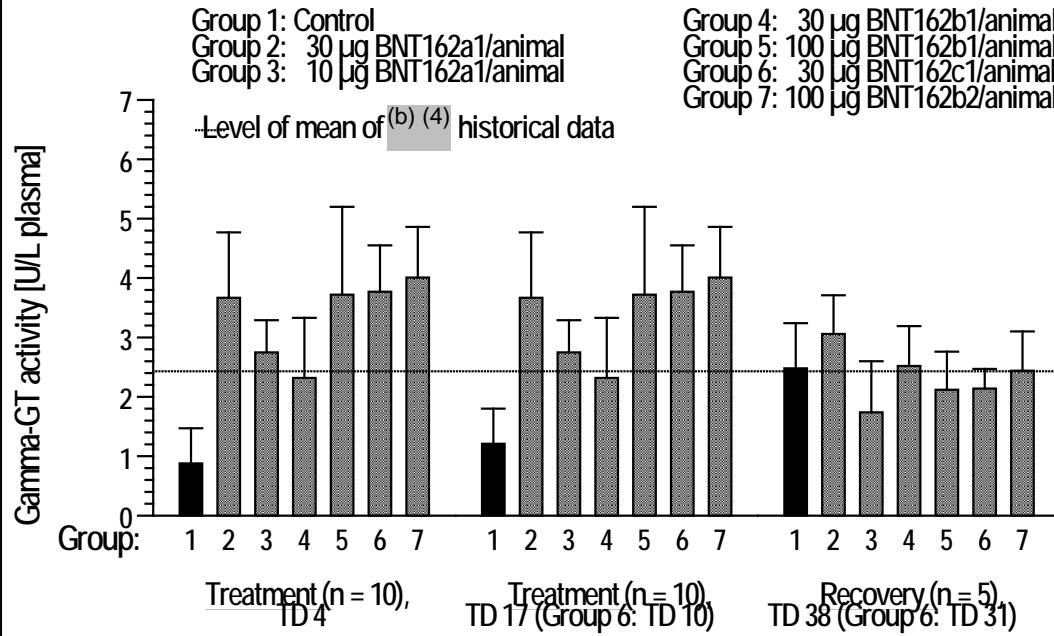
TD Test day

A graphical presentation of the gamma-glutamyltransferase activity is given in Figure 4-1 (males) and Figure 4-2 (females) on the following page.

**Figure 4-1 Gamma-glutamyltransferase plasma activity in male rats mean values per group and standard deviation**



**Figure 4-2 Gamma-glutamyltransferase plasma activity in female rats mean values per group and standard deviation**



The elevated plasma activity of gamma-glutamyltransferase is considered to be related to the test item administration, but the cause is unclear.

Further, a decrease in albumin plasma levels and an increase in globulin plasma levels, resulting in an altered albumin/globulin ratio, were observed in all test item treated groups. The changes are consistent with an acute phase response in albumin and globulin where albumin goes down and globulin goes up with inflammation, and the albumin/globulin ratio decreases. The statistically significant changes noted in albumin and globulin levels and the alb./glob. ratio are listed in the text table below.

Text table 4-12: Statistically significant differences in albumin and globulin levels and the albumin/globulin ratio

Statistically significant differences in albumin and globulin levels and the albumin/ globulin ratio compared to the control group (refer to <a href="#">Table 7-1</a> )						
Parameter	Group	Test item	Dose [µg/animal]	Sex	Test day	Change [%]
Albumin	2	BNT162a1	30	m	4	-9.4**
					17	-5.5**
				f	4	-14.1**
					17	-8.8**
	3	BNT162a1	10	m	4	-6.8**
					17	-5.9**
				f	4	-11.3**
					17	-8.8**
	4	BNT162b1	30	m	4	-4.1**
					17	-3.9**
				f	4	-8.4*
					17	-9.8**
	5	BNT162b1	100	m	4	-7.0**
					17	-3.8**
				f	4	-10.8**
					17	-10.5**
	6	BNT162c1	30	m	4	-7.7**
					4	-11.7**
				f	4	-9.1**
					17	-5.9**
	7	BNT162b2	100	m	4	-12.6**
					17	-11.0**
				f	4	+9.5**
					17	+9.7**
				f	17	+13.6**

- Text table continued on the next page -

Statistically significant differences in albumin and globulin levels and the albumin/ globulin ratio compared to the control group (refer to Table 7-1)						
Parameter	Group	Test item	Dose [µg/animal]	Sex	Test day	Change [%]
<i>- Text table continued from previous page -</i>						
Globulin <i>- continued</i>	4	BNT162b1	30	m	4	+ 15.9**
					17	+ 18.6**
		BNT162b1	100	f	4	+ 9.5*
					17	+ 17.9**
	5	BNT162b1	100	m	4	+ 9.1**
					17	+ 26.3**
				f	17	+ 14.4**
	6	BNT162c1	30	m	4	+ 6.5*
Albumin/Globulin Ratio	7	BNT162b2	100	m	4	+ 7.3*
					17	+ 23.1**
				f	17	+ 17.7**
		BNT162a1	30	m	4	- 17.1**
					17	- 13.9**
	3	BNT162a1	10	f	4	- 18.0**
					17	- 19.3**
		BNT162b1	30	m	4	- 8.4**
					17	- 11.7**
		BNT162b1	100	m	4	- 17.1**
					17	- 18.9**
				f	4	- 16.3**
					17	- 23.6**
	5	BNT162b1	100	m	4	- 14.6**
					17	- 23.8**
				f	4	- 17.0**
					17	- 21.7**
	6	BNT162c1	30	m	4	- 13.2**
					4	- 10.1**
		BNT162b2	100	m	4	- 15.1**
					17	- 23.6**
				f	4	- 15.7**
					17	- 24.4**

m male

f female

\*\* Statistically significant at  $p \leq 0.01$  /  $p \leq 0.05$  (based on numerical data, not on percent difference).

No other test item-related influence was observed on any of the biochemical parameters for the animals treated with **10 or 30 µg BNT162a1/animal** (groups 3 and 2), **30 or 100 µg BNT162b1/animal** (groups 4 and 5), or **100 µg BNT162b2/animal** (group 7) on test days 1, 8, and 15, or with **30 µg BNT162c1/animal** (group 6) on test days 1 and 8 compared to the control animals during the treatment period (test day 4, and test day 10 for group 6/test day 17 for groups 1 to 5 and 7) and at the end of the recovery period.

#### Recovery period

The elevated plasma activity of gamma-glutamyltransferase noted during the treatment period had subsided in all test item-treated groups at the end of the recovery period (test day 31 for group 6, test day 38 for all other groups) and was in a range comparable to that of the control group.

No test item-related effects were noted on the plasma levels of total bilirubin, total cholesterol, creatinine, glucose, phosphate, total protein, urea (in blood), triglycerides, calcium, chloride, potassium, and sodium. No test item related influence was noted on the plasma enzyme activities of alanine aminotransferase (ALAT), alkaline phosphatase (aP), aspartate aminotransferase (ASAT), lactate dehydrogenase (LDH), and creatine kinase (CK). All data of the parameters given above are considered to be within the range of normal biological variability throughout the treatment and recovery period.

Statistically significant differences (at  $p \leq 0.01$  or  $p \leq 0.05$ ) were noted for several clinical chemistry parameters between the various test item-treated groups and the control group. The majority of the changes noted were of only marginal degree and occurred in groups 3, 5, 6, and 7, for the animals of which the study conduct started at a later time (see [Section 2.7](#)). These animals were 6 days older than the control animals at the time of examination. Blood withdrawal and plasma analysis were performed on dates different from those for the control. An influence of this time offset on the analyses' results cannot be completely excluded.

Statistically significant differences in clinical chemistry parameters in comparison to the control group during the treatment period or at the end of the recovery period that are not considered to be test item-related but to be coincidental are listed in the text table on the following page.

Text table 4-13: Statistically significant differences in clinical chemistry parameters considered not test item-related

Statistically significant differences in clinical chemistry parameters in comparison to the control group considered <u>not</u> test item-related (refer to Table 7-1)								
Parameter	Group	Test item no. <sup>#</sup>	Dose [µg/animal]	Sex	Test day	Change [%]	Statistical significance	Reason
Globulin	3	1	10	f	38	-19.3	p ≤ 0.01	A
Albumin/Globulin Ratio	3	1	10	f	38	+18.2	p ≤ 0.01	A
Bilirubin	2	1	30	m	17	+40.3	p ≤ 0.01	A
				f	17	+33.3	p ≤ 0.01	A
	3	1	10	m	4	-26.7	p ≤ 0.01	A
					17	+31.5	p ≤ 0.01	A
				f	4	-20.5	p ≤ 0.05	A
	4	3	30	f	4	-26.8	p ≤ 0.01	A
	5	3	100	m	4	-27.2	p ≤ 0.01	A
					17	+46.2	p ≤ 0.01	A
				f	4	-21.1	p ≤ 0.01	A
					17	+26.4	p ≤ 0.05	A
	6	5	30	m	4	-28.8	p ≤ 0.01	A
	7	4	100	m	4	-25.1	p ≤ 0.01	A
					17	+42.9	p ≤ 0.01	A
				f	4	-22.2	p ≤ 0.01	A
					17	+30.7	p ≤ 0.01	A
Cholesterol	2	1	30	m	4	-18.7	p ≤ 0.05	A
					17	-37.5	p ≤ 0.01	A
	3	1	10	m	17	-21.6	p ≤ 0.05	A
	4	3	30	m	17	-40.1	p ≤ 0.01	A
	5	3	100	m	4	-26.4	p ≤ 0.01	A
					17	-31.5	p ≤ 0.01	A
	6	5	30	m	4	-19.4	p ≤ 0.05	A
	7	4	100	m	4	-25.4	p ≤ 0.01	A
					17	-31.9	p ≤ 0.01	A
				f	17	-26.0	p ≤ 0.05	A
Creatinine	3	1	10	m	4	+9.1	p ≤ 0.01	A
	5	3	100	m	4	+9.8	p ≤ 0.01	A
					17	+10.0	p ≤ 0.01	A
	6	5	30	m	4	+7.3	p ≤ 0.01	A

- Text table continued on the next page -

Statistically significant differences in clinical chemistry parameters in comparison to the control group considered <u>not</u> test item-related (refer to <a href="#">Table 7-1</a> )								
Parameter	Group	Test item no. <sup>#</sup>	Dose [µg/animal]	Sex	Test day	Change [%]	Statistical significance	Reason
<i>- Text table continued from previous page -</i>								
Creatinine <i>- continued</i>	7	4	100	m	4	+10.1	p ≤ 0.05	A
					17	+12.0	p ≤ 0.01	A
				f	17	+7.3	p ≤ 0.05	A
Glucose	2	1	30	f	17	-17.7	p ≤ 0.01	A
				m	4	-30.8	p ≤ 0.01	A
	3	1	10	f	4	-23.8	p ≤ 0.01	A
				m	4	-33.6	p ≤ 0.01	A
	5	3	100	f	17	-14.0	p ≤ 0.01	A
				m	4	-25.2	p ≤ 0.01	A
	6	5	30	f	4	-18.5	p ≤ 0.05	A
				m	4	-26.1	p ≤ 0.01	A
	7	4	100	f	4	-27.8	p ≤ 0.01	A
				m	4	-21.7	p ≤ 0.01	A
Phosphate	2	1	30	m	17	+18.4	p ≤ 0.01	A
				f	4	+12.7	p ≤ 0.05	A
					17	+21.7	p ≤ 0.01	A
	4	3	30	m	4	-8.8	p ≤ 0.05	A
				f	4	+14.9	p ≤ 0.01	A
Protein (total)	2	1	30	f	4	-5.4	p ≤ 0.05	A
				f	4	-9.4	p ≤ 0.01	A
	3	1	10		38	-11.8	p ≤ 0.01	A
				m	4	-5.5	p ≤ 0.01	A
	4	3	30		17	+6.7	p ≤ 0.01	A
				m	17	+10.4	p ≤ 0.01	A
	5	3	100	f	4	-6.9	p ≤ 0.01	A
Triglycerides	6	5	30	m	17	+7.8	p ≤ 0.01	A
				f	4	-41.0	p ≤ 0.01	A
	7	4	100	m	17	+39.7	p ≤ 0.05	A
				f	4	-70.0	p ≤ 0.01	A
	3	1	10		f	-66.6	p ≤ 0.01	A
					17	+77.4	p ≤ 0.01	A
	4	3	30	f	4	-41.9	p ≤ 0.01	A
5	3	100	m	m	4	-73.5	p ≤ 0.01	A
				f	4	-65.8	p ≤ 0.01	A
<i>- Text table continued on the next page -</i>								

Statistically significant differences in clinical chemistry parameters in comparison to the control group considered <u>not</u> test item-related (refer to <a href="#">Table 7-1</a> )								
Parameter	Group	Test item no. <sup>#</sup>	Dose [µg/animal]	Sex	Test day	Change [%]	Statistical significance	Reason
<i>- Text table continued from previous page -</i>								
Triglycerides <i>- continued</i>	6	5	30	m	4	-70.4	p ≤ 0.01	A
				f	4	-56.5	p ≤ 0.01	A
	7	4	100	m	4	-73.5	p ≤ 0.01	A
				f	4	-71.7	p ≤ 0.01	A
Urea (in blood)	2	1	30	m	17	+20.4	p ≤ 0.01	A
	3	1	10	m	17	+18.6	p ≤ 0.05	A
	5	3	100	m	17	+22.5	p ≤ 0.01	A
	7	4	100	m	17	+35.4	p ≤ 0.01	A
Calcium	3	1	10	m	4	-6.7	p ≤ 0.01	A
				f	4	-4.7	p ≤ 0.01	A
	5	3	100	m	4	-6.6	p ≤ 0.01	A
	6	5	30	m	4	-9.1	p ≤ 0.01	A
	7	4	100	m	4	-6.8	p ≤ 0.01	A
Chloride	2	1	30	f	4	-1.5	p ≤ 0.01	A
	3	1	10	m	4	+1.2	p ≤ 0.01	A
	5	3	100	m	4	+2.1	p ≤ 0.01	A
	6	5	30	m	4	+2.0	p ≤ 0.01	A
	7	4	100	m	4	+2.1	p ≤ 0.01	A
Potassium	3	1	10	m	4	-9.3	p ≤ 0.01	A
				f	4	-9.4	p ≤ 0.05	A
					17	+11.3	p ≤ 0.05	A
	5	3	100	m	4	-10.7	p ≤ 0.01	A
				f	17	+16.4	p ≤ 0.01	A
	7	4	100	m	4	-8.0	p ≤ 0.05	A
				f	17	+10.1	p ≤ 0.05	A
Sodium	2	1	30	f	17	-1.3	p ≤ 0.05	A
	3	1	10	m	4	+1.0	p ≤ 0.01	A
					17	-1.2	p ≤ 0.05	A
	5	3	100	m	4	+1.6	p ≤ 0.01	A
					f	-1.7	p ≤ 0.01	A
	6	5	30	m	4	+1.2	p ≤ 0.01	A
	7	4	100	m	4	+1.6	p ≤ 0.01	A
					17	-1.5	p ≤ 0.01	A
<i>- Text table continued on the next page -</i>								

Statistically significant differences in clinical chemistry parameters in comparison to the control group considered <u>not</u> test item-related (refer to <a href="#">Table 7-1</a> )								
Parameter	Group	Test item no. <sup>#</sup>	Dose [µg/animal]	Sex	Test day	Change [%]	Statistical significance	Reason
<i>- Text table continued from previous page -</i>								
Alanine amino-transferase (ALAT)	2	1	30	f	17	+69.0	p ≤ 0.01	A
	3	1	10	m	4	-26.2	p ≤ 0.01	A
				f	4	-20.6	p ≤ 0.05	A
	5	3	100	m	4	-31.0	p ≤ 0.01	A
				f	4	-30.0	p ≤ 0.01	A
	6	5	30	m	4	-33.1	p ≤ 0.01	A
	7	4	100	m	4	-32.8	p ≤ 0.01	A
				f	4	-36.5	p ≤ 0.01	A
Alkaline phosphatase (aP)	2	1	30	m	17	+21.2	p ≤ 0.05	A
	3	1	10	f	4	+28.4	p ≤ 0.01	A
					17	+105.4	p ≤ 0.01	A
				m	4	-32.7	p ≤ 0.01	A
	4	3	30	f	17	+58.8	p ≤ 0.01	A
				m	4	+43.2	p ≤ 0.05	A
	5	3	100	m	4	-27.8	p ≤ 0.01	A
				f	17	+109.4	p ≤ 0.01	A
	6	5	30	m	4	-29.8	p ≤ 0.01	A
	7	4	100	m	4	-22.3	p ≤ 0.01	A
				f	17	+142.2	p ≤ 0.01	A
Aspartate amino-transferase (ASAT)	2	1	30	m	17	+26.8	p ≤ 0.01	A
	3	1	10	f	17	+47.3	p ≤ 0.01	A
				m	4	+23.9	p ≤ 0.01	A
	5	3	100	f	4	+32.6	p ≤ 0.01	A
					17	+21.7	p ≤ 0.05	A
	6	5	30	m	4	+27.4	p ≤ 0.01	A
				f	4	+18.8	p ≤ 0.01	A
	7	4	100	m	4	+43.9	p ≤ 0.01	A
				f	4	+19.4	p ≤ 0.01	A
					17	+29.7	p ≤ 0.01	A
						+24.3	p ≤ 0.05	A
<i>- Text table continued on the next page -</i>								

Statistically significant differences in clinical chemistry parameters in comparison to the control group considered <u>not</u> test item-related (refer to <a href="#">Table 7-1</a> )								
Parameter	Group	Test item no. <sup>#</sup>	Dose [µg/animal]	Sex	Test day	Change [%]	Statistical significance	Reason
<i>- Text table continued from previous page -</i>								
Lactate dehydrogenase (LDH)	5	3	100	m	4	+40.6	p ≤ 0.05	A
				f	4	+45.2	p ≤ 0.05	A
	6	5	30	m	4	+49.9	p ≤ 0.01	A
				f	4	+66.0	p ≤ 0.01	A
	7	4	100	m	4	+54.1	p ≤ 0.01	A
				f	4	+54.8	p ≤ 0.05	A

- # Test item 1: BNT162a1 - Groups 2 and 3
- Test item 3: BNT162b1 - Groups 4 and 5
- Test item 4: BNT162b2 - Group 7
- Test item 5: BNT162c1 - Group 6

m male

f female

A Change is within the limits of normal biological variation (with regard to the range covered by the control group) and without toxicological relevance.

B Change is due to the relative high or low value noted for the control group.

Group mean values of biochemical parameters are presented in [Table 7-1](#) (Biochemical Parameters - Summary), individual data are listed in [Table 7-2](#) (Biochemical Parameters - Individual Data).

#### 4.9 Acute phase proteins

**BNT162a1 - Groups 2 and 3, BNT162b1 - Groups 4 and 5, BNT162c1 - Group 6, and BNT162b2 - Group 7**

##### Treatment period

Elevated serum levels of the acute phase proteins alpha1-acid glycoprotein and alpha2 macroglobulin were noted for all test item-treated groups in comparison to the control group on test day 4 and test day 10 or 17 as given in the text tables following on the following page.

Text table 4-14: Test item-related changes in serum levels of alpha1-acid glycoprotein

Test item-related changes in serum levels of alpha1-acid glycoprotein compared to the control group (refer to <a href="#">Table 8-1</a> ), expressed as fold changes (×)										
Test day	BNT162a1				BNT162b1					
	Group 3: 10 µg/animal		Group 2: 30 µg/animal		Group 4: 30 µg/animal		Group 5: 100 µg/animal			
	Males	Females	Males	Females	Males	Females	Males	Females		
4	4.7 × **	4.1 × **	7.2 × **	5.0 × **	5.9 × **	4.7 × **	7.0 × **	5.6 × **		
17	14.6 × **	12.5 × **	8.5 × **	9.0 × **	8.7 × **	8.9 × **	19.3 × **	18.9 × **		
Test day	Group 6: 30 µg BNT162c1/animal				Group 7: 100 µg BNT162b2/animal					
	Males		Females		Males		Females			
	4	6.7 × **		4.9 × **		6.9 × **		5.6 × **		
10	↑		↑							
17					20.7 × **		15.9 × **			

\*\* Statistically significant at  $p \leq 0.01$  (based on the numerical data, not on the fold change).

↑ Increase relative to study control range, but % difference not quantifiable due to lacking concurrent controls.

Text table 4-15: Test item-related changes in serum levels of alpha2 macroglobulin

Test item-related changes in serum levels of alpha2 macroglobulin compared to the control group (refer to <a href="#">Table 8-1</a> ), expressed as fold changes (×)										
Test day	BNT162a1				BNT162b1					
	Group 3: 10 µg/animal		Group 2: 30 µg/animal		Group 4: 30 µg/animal		Group 5: 100 µg/animal			
	Males	Females	Males	Females	Males	Females	Males	Females		
4	5.6 ×	3.2 × **	18.3 × **	7.0 × **	36.1 × **	18.3 × **	53.9 × **	90.6 × **		
17	18.6 × **	6.4 × **	26.0 × **	16.8 × **	43.8 × **	45.1 × **	279.2 × **	167.7 × **		
Test day	Group 6: 30 µg BNT162c1/animal				Group 7: 100 µg BNT162b2/animal					
	Males		Females		Males		Females			
	4	17.2 × **		9.4 × **		54.3 × **		75.3 × **		
10	↑		↑							
17					216.9 × **		120.7 × **			

\*\* Statistically significant at  $p \leq 0.01$  (based on the numerical data, not on the fold change).

↑ Increase relative to study control range, but % difference not quantifiable due to lacking concurrent controls.

All changes noted for the acute phase proteins are considered to be related to the primary pharmacodynamic activity of the intramuscularly delivered vaccines, which induce a local pro-inflammatory environment within the injected muscle and thereby promote a potent immune response.

### Recovery period

The elevated serum levels of alpha1-acid glycoprotein and alpha2 macroglobulin noted during the treatment period had subsided in all previously test item-treated groups at the end of the recovery period (test day 31 for group 6, test day 38 for all other groups). The serum levels of both acute phase proteins were in a range comparable to that of the control group in all previously test item-treated groups.

Statistically significant differences in serum levels of acute phase proteins in comparison to the control group noted during the treatment period or at the end of the recovery period that are not considered to be test item-related but to be coincidental are listed in the text table below.

Text table 4-16: Statistically significant differences in serum levels of acute phase proteins considered not test item-related

Statistically significant differences in serum levels of acute phase proteins in comparison to the control group considered <u>not</u> test item-related (refer to <a href="#">Table 8-1</a> )								
Acute phase proteins	Group	Test item no. <sup>#</sup>	Dose [µg/animal]	Sex	Test day	Change [%]	Statistical significance	Reason
Alpha1-acid glycoprotein	3	1	10	m	38	-48.9	p ≤ 0.01	A
	5	3	100	m	38	-42.7	p ≤ 0.01	A
				f	38	-53.2	p ≤ 0.05	A
	7	4	100	m	38	-47.8	p ≤ 0.01	A
Alpha2 macroglobulin	5	3	100	m	38	+52.9	p ≤ 0.05	A
	7	4	100	m	38	+63.7	p ≤ 0.05	A

<sup>#</sup> Test item 1: BNT162a1 - Groups 2 and 3  
 Test item 3: BNT162b1 - Groups 4 and 5  
 Test item 4: BNT162b2 - Group 7

m male

f female

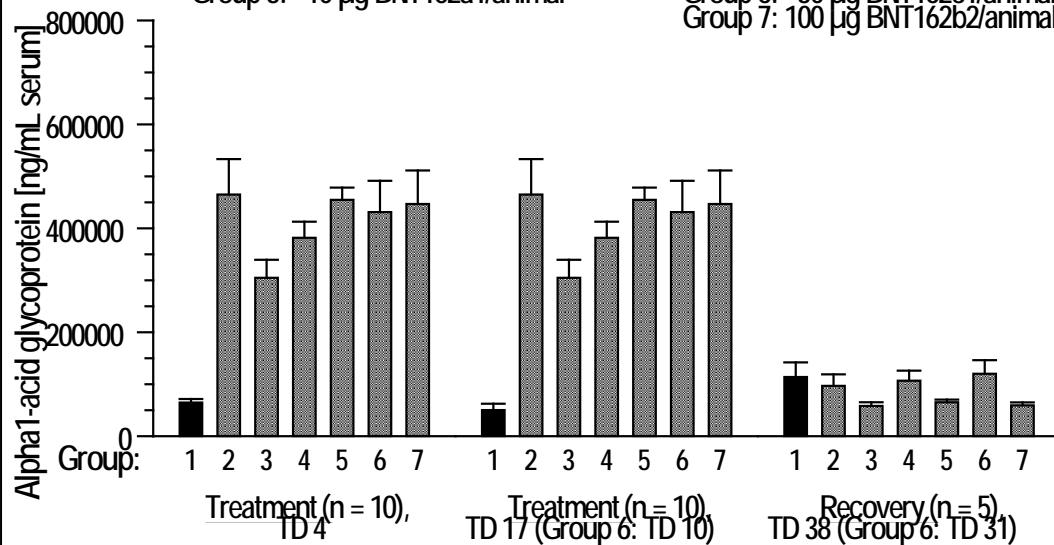
A Change is due to the relative high or low value noted for the control group.

Mean values per group and individual data of acute phase proteins are listed in [Table 8-1](#) (Acute Phase Protein Levels - Summary) and [Table 8-2](#) (Acute Phase Protein Levels - Individual Data).

The mean acute phase protein levels per group and sex are shown graphically in [Figure 5-1](#) (Alpha1-acid glycoprotein, males), [Figure 5-2](#) (Alpha1-acid glycoprotein, females), [Figure 6-1](#) (Alpha2 macroglobulin, males), and [Figure 6-2](#) (Alpha2 macroglobulin, females) on the following pages.

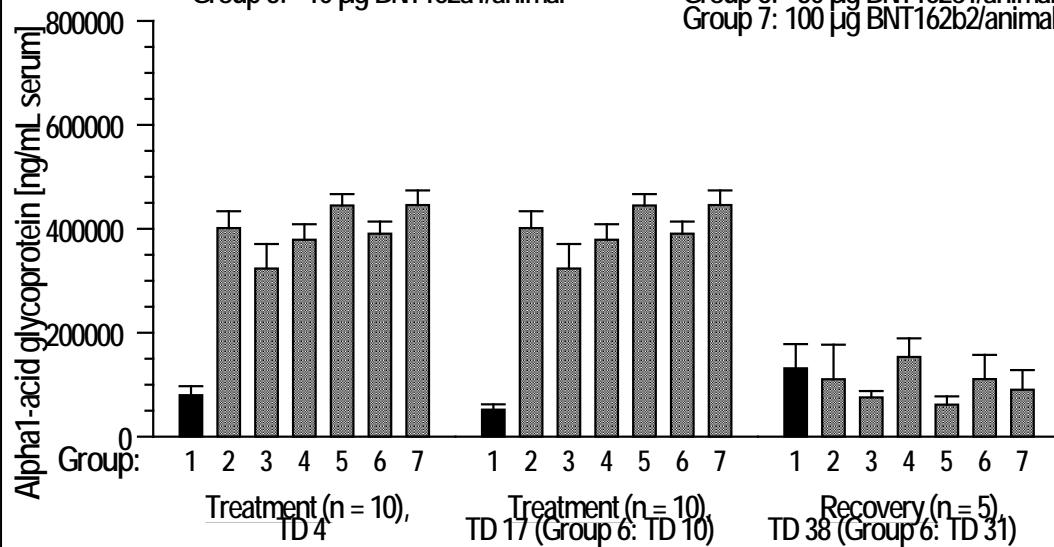
**Figure 5-1 Alpha1-acid glycoprotein levels in serum of male rats  
mean values per group and standard deviation**

Group 1: Control  
 Group 2: 30 µg BNT162a1/animal  
 Group 3: 10 µg BNT162a1/animal  
 Group 4: 30 µg BNT162b1/animal  
 Group 5: 100 µg BNT162b1/animal  
 Group 6: 30 µg BNT162c1/animal  
 Group 7: 100 µg BNT162b2/animal

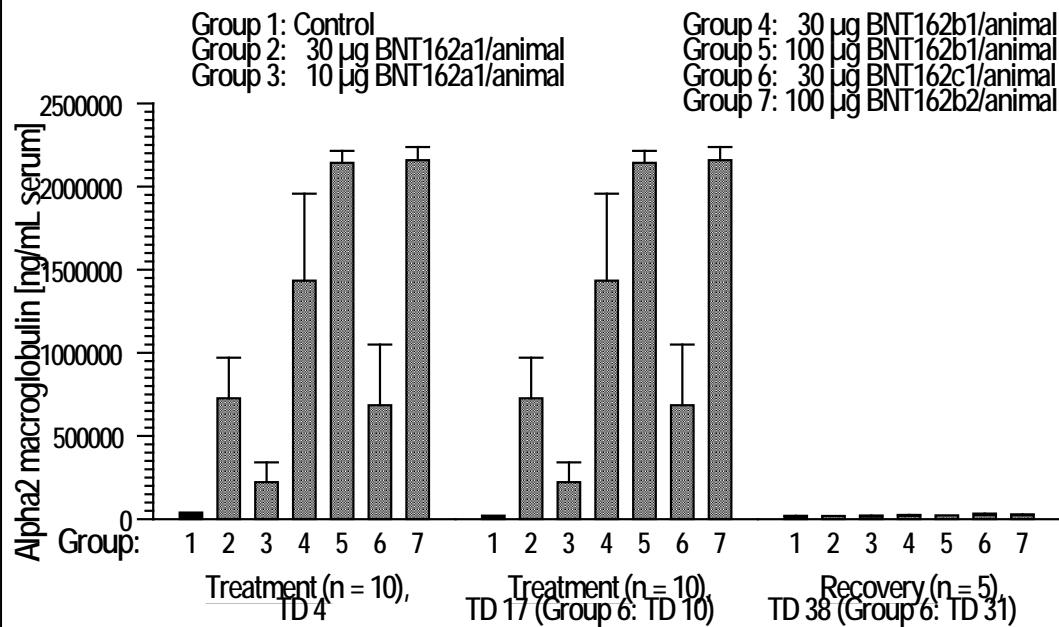


**Figure 5-2 Alpha1-acid glycoprotein levels in serum of female rats  
mean values per group and standard deviation**

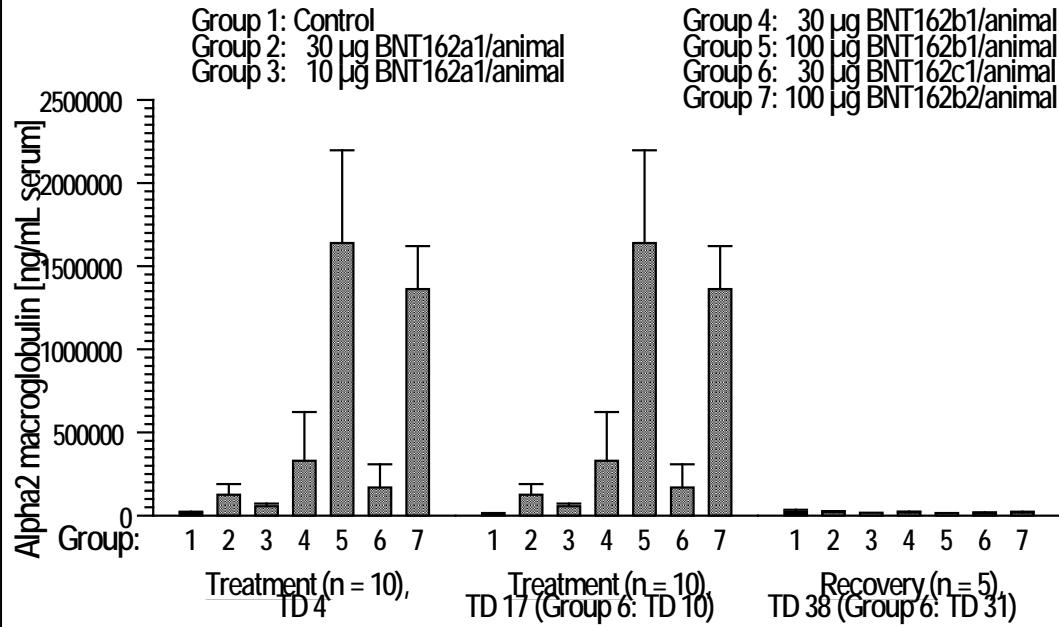
Group 1: Control  
 Group 2: 30 µg BNT162a1/animal  
 Group 3: 10 µg BNT162a1/animal  
 Group 4: 30 µg BNT162b1/animal  
 Group 5: 100 µg BNT162b1/animal  
 Group 6: 30 µg BNT162c1/animal  
 Group 7: 100 µg BNT162b2/animal



**Figure 6-1 Alpha2 macroglobulin levels in serum of male rats  
mean values per group and standard deviation**



**Figure 6-2 Alpha2 macroglobulin levels in serum of female rats  
mean values per group and standard deviation**



#### 4.10 Cytokines

##### BNT162a1 - Groups 2 and 3, BNT162b1 - Groups 4 and 5, BNT162c1 - Group 6, and BNT162b2 - Group 7

###### Treatment period and recovery

Elevated serum levels of the cytokines IFN-gamma, TNF-alpha, IL-1beta, IL-6, and IL-10 were noted in all study groups, including the control, compared to the respective predose value as of 6 h p.a. on test day 1. There were no general differences between the test item-treated groups and the control group and among the various test item-treated groups.

A large variability of data was observed using only 3 or 5 animals per group and sex. Therefore, all data obtained are considered to be within the normal range of biological variation. Any differences between the test item-treated animals and the control group are considered as coincidental changes.

Statistically significant differences in cytokine serum levels in comparison to the control group during the treatment period or at the end of the recovery period that are not considered to be test item-related but to be coincidental changes are listed in the text table below.

Text table 4-17: Statistically significant differences in cytokine serum levels considered not test item-related

Statistically significant differences in cytokine serum levels in comparison to the control group considered <u>not</u> test item-related (refer to <a href="#">Table 9-1</a> )								
Cytokine	Group	Test item no. <sup>#</sup>	Dose [µg/animal]	Sex	Test day (time point)	Change [%]	Statistical significance	Reason
IFN-gamma	2	1	30	m	15 (6 h p.a.)	+52.2	p ≤ 0.05	B
					17 (48 h p.a.)	+2679.2	p ≤ 0.05	B, C
				f	17 (48 h p.a.)	+342.0	p ≤ 0.05	B, C
	6	5	30	f	8 (6 h p.a.)	+111.2	p ≤ 0.01	B
TNF-alpha	3	1	10	m	8 (Predose)	-91.1	p ≤ 0.05	B

- Text table continued on the next page -

Statistically significant differences in cytokine serum levels in comparison to the control group considered <u>not</u> test item-related (refer to <a href="#">Table 9-1</a> )								
Cytokine	Group	Test item no. <sup>#</sup>	Dose [ $\mu$ g/animal]	Sex	Test day (time point)	Change [%]	Statistical significance	Reason
<i>- Text table continued from previous page -</i>								
IL-1beta	2	1	30	m	1 (Predose)	+131.7	p ≤ 0.05	A
	3	1	10	m	8 (Predose)	-96.7	p ≤ 0.05	B, C
	7	4	100	m	8 (Predose)	-88.6	p ≤ 0.05	B, C
IL-6	3	1	10	m	1 (6 h p.a.)	-75.7	p ≤ 0.05	B, D
					15 (6 h p.a.)	+417.0	p ≤ 0.01	B, C
	5	3	100	m	15 (6 h p.a.)	+468.9	p ≤ 0.01	B, C
					f 15 (6 h p.a.)	+481.6	p ≤ 0.05	B, C
	6	5	30	m	1 (6 h p.a.)	-75.7	p ≤ 0.05	B, D

- # Test item 1: BNT162a1 - Groups 2 and 3
- Test item 3: BNT162b1 - Groups 4 and 5
- Test item 4: BNT162b2 - Group 7
- Test item 5: BNT162c1 - Group 6

m male

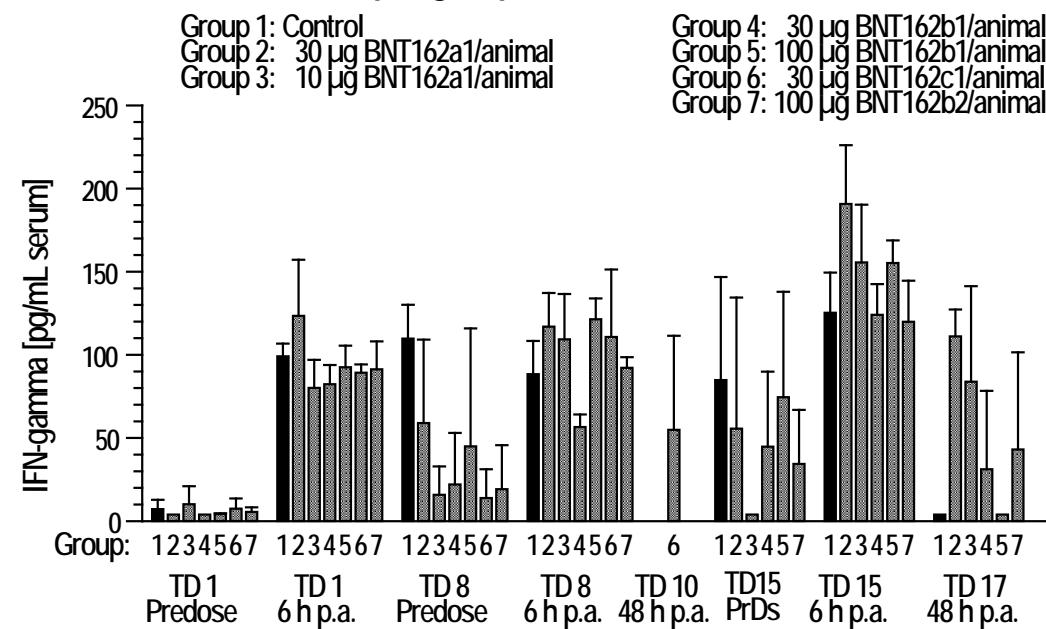
f female

- A Change observed predose to start of administration.
- B Change is within the limits of normal biological variation (with regard to the range covered by the control group) and without toxicological relevance.
- C Change is due to the relative high or low value noted for the control group.
- D Change due to mean at level of LLOQ (all individual data are equal to LLOQ).

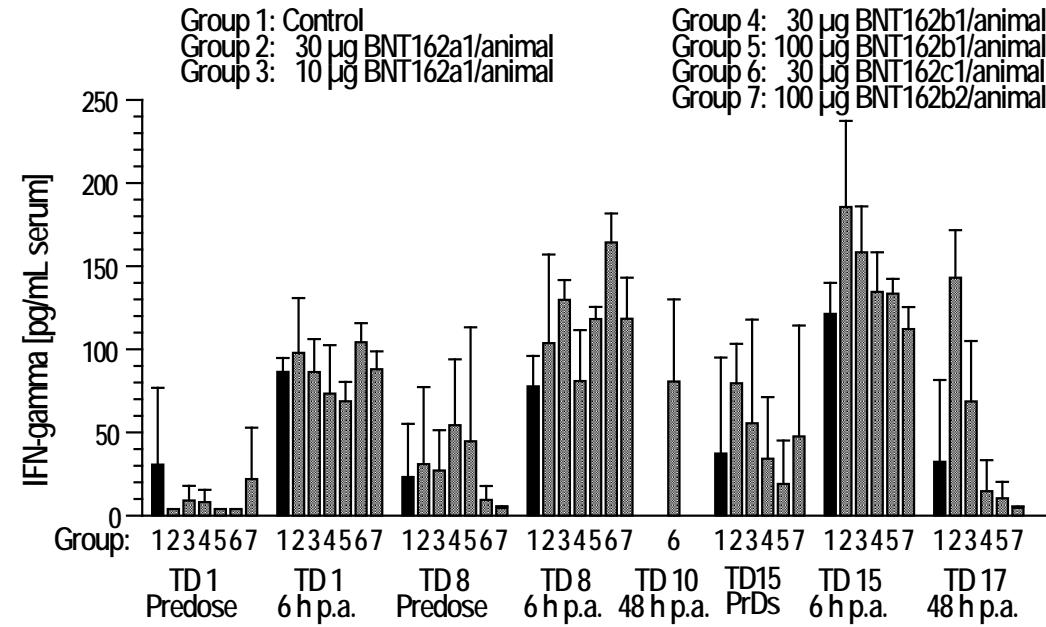
Mean values per group and individual data of cytokine levels are listed in [Table 9-1](#) (Cytokine Levels - Summary) and [Table 9-2](#) (Cytokine Levels - Individual Data).

The mean cytokine levels per group and sex are shown graphically in [Figure 7-1](#) (IFN-gamma, males), [Figure 7-2](#) (IFN-gamma, females), [Figure 8-1](#) (TNF-alpha, males), [Figure 8-2](#) (TNF-alpha, females), [Figure 9-1](#) (IL-1beta, males), [Figure 9-2](#) (IL-1beta, females), [Figure 10-1](#) (IL-6, males), [Figure 10-2](#) (IL-6, females), [Figure 11-1](#) (IL-10, males), and [Figure 11-2](#) (IL-10, females) on the following pages.

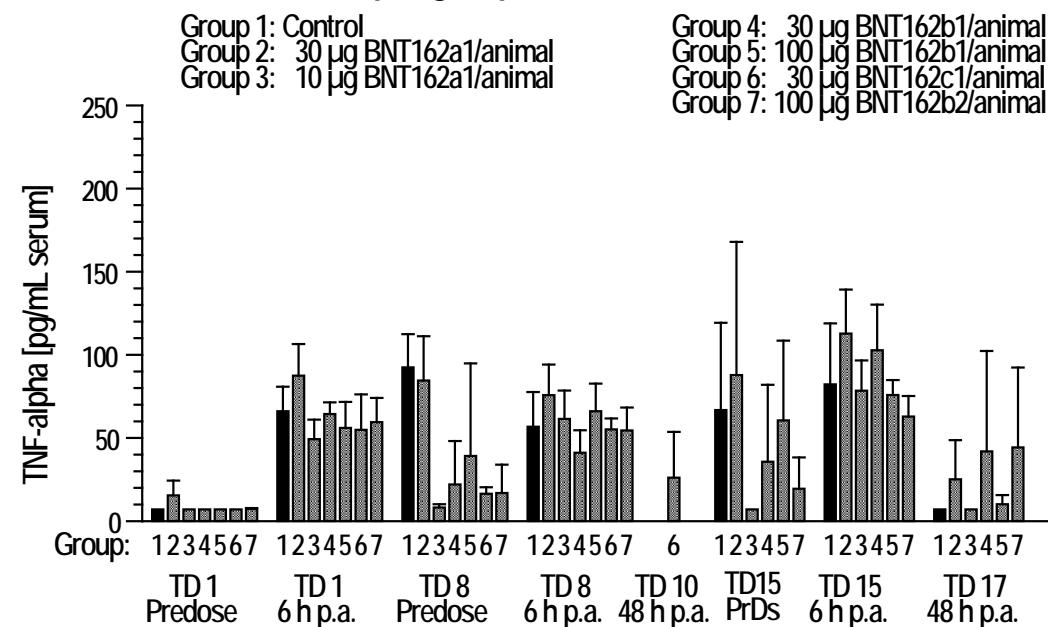
**Figure 7-1 IFN-gamma levels in serum of male rats  
mean values per group and standard deviation**



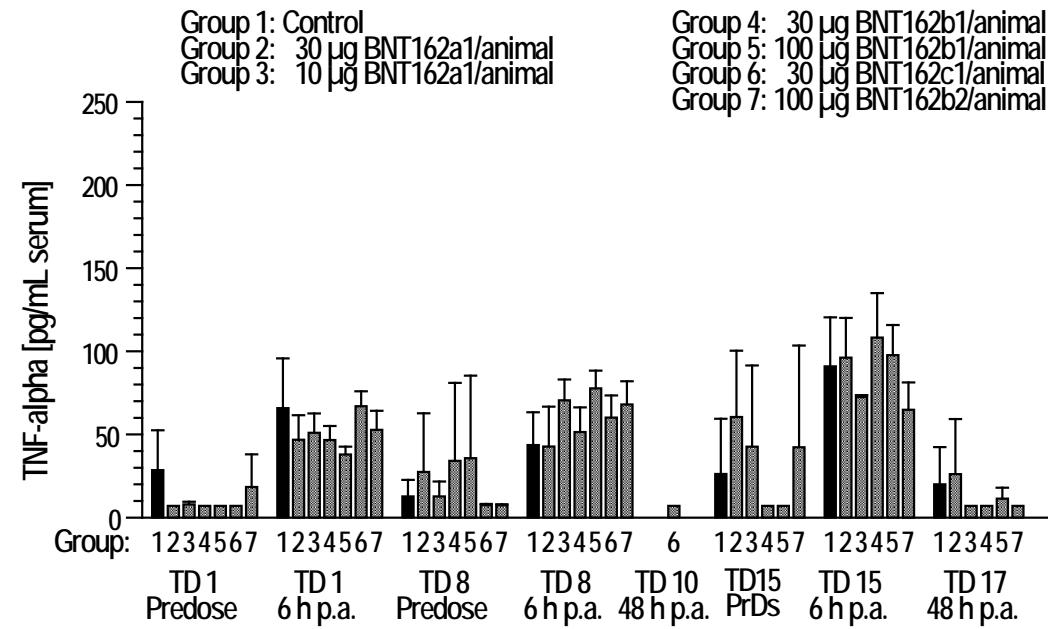
**Figure 7-2 IFN-gamma levels in serum of female rats  
mean values per group and standard deviation**



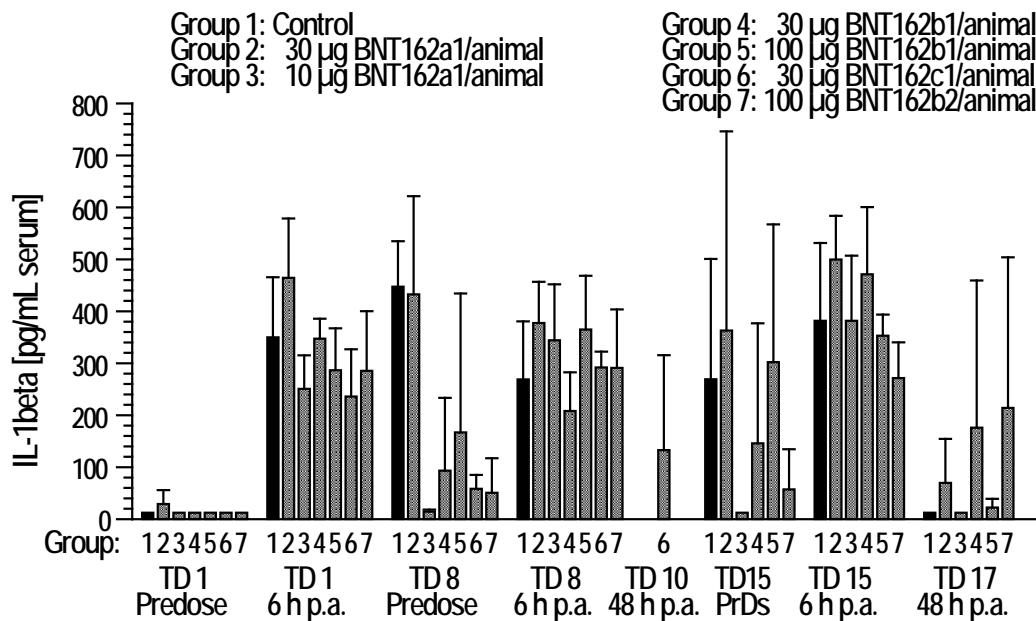
**Figure 8-1 TNF-alpha levels in serum of male rats  
mean values per group and standard deviation**



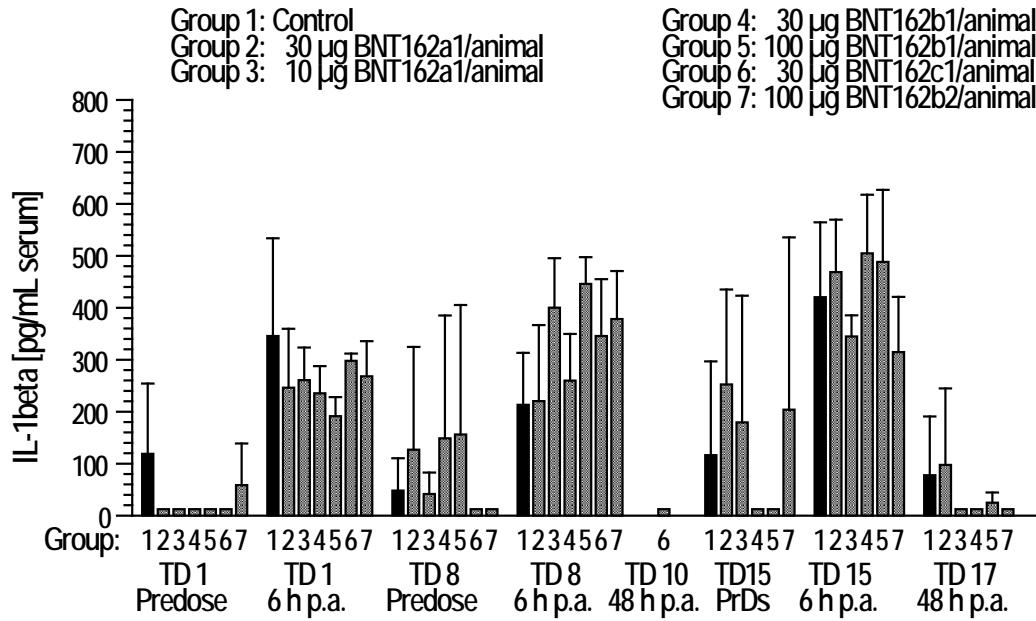
**Figure 8-2 TNF-alpha levels in serum of female rats  
mean values per group and standard deviation**



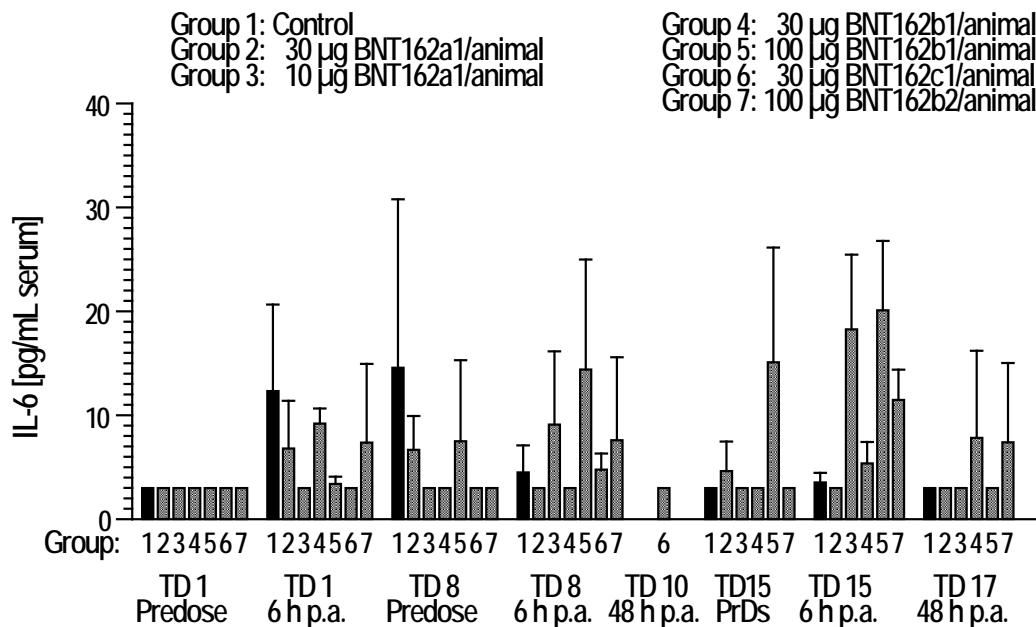
**Figure 9-1 IL-1beta levels in serum of male rats  
mean values per group and standard deviation**



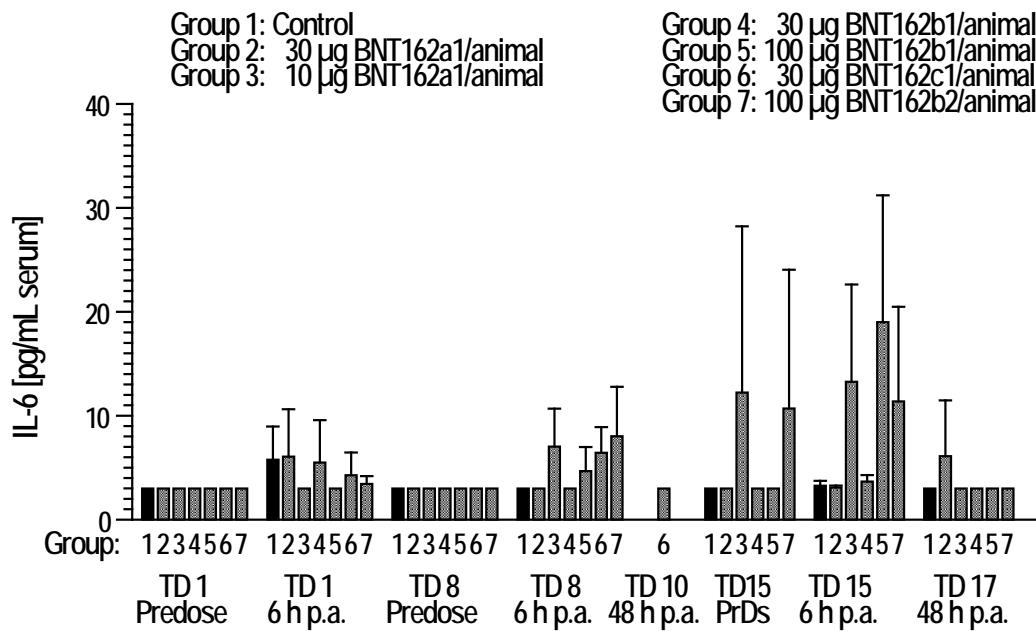
**Figure 9-2 IL-1beta levels in serum of female rats  
mean values per group and standard deviation**



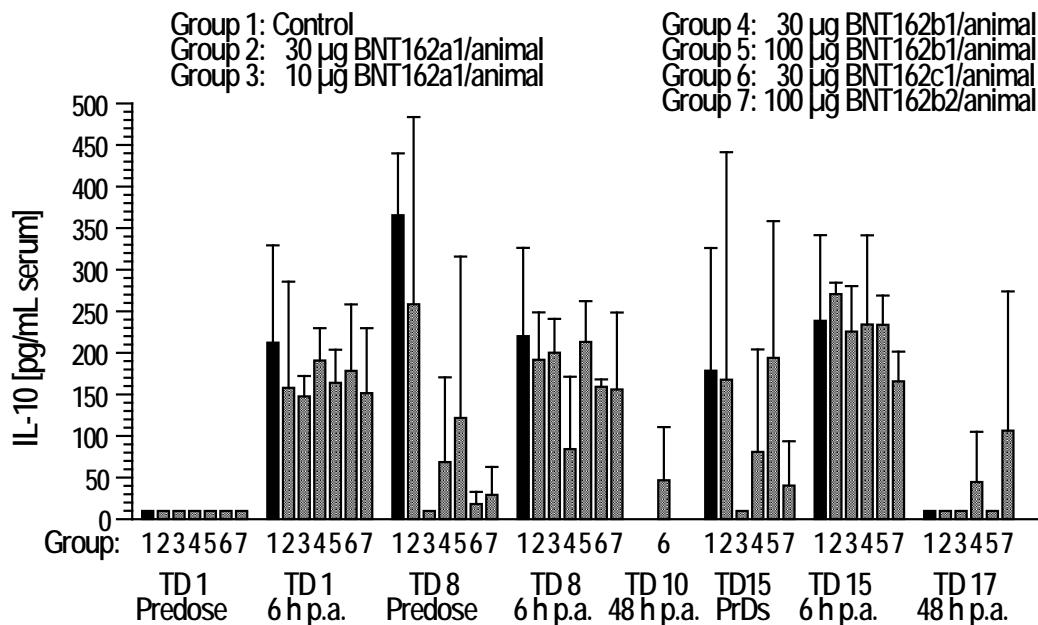
**Figure 10-1 IL-6 levels in serum of male rats  
mean values per group and standard deviation**



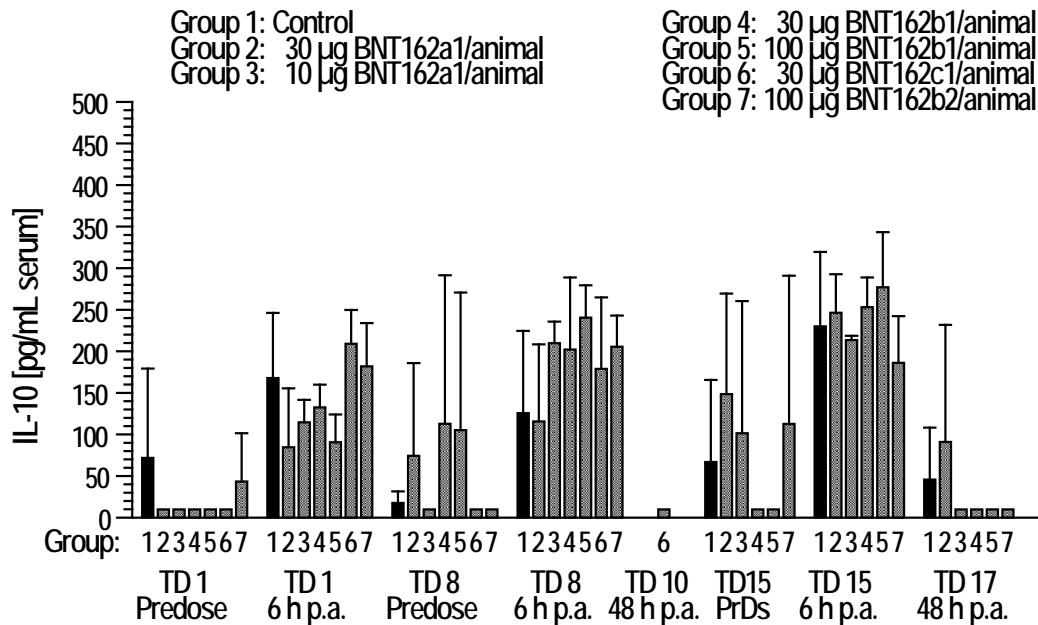
**Figure 10-2 IL-6 levels in serum of female rats  
mean values per group and standard deviation**



**Figure 11-1 IL-10 levels in serum of male rats  
mean values per group and standard deviation**



**Figure 11-2 IL-10 levels in serum of female rats  
mean values per group and standard deviation**



#### 4.11 Urinalysis

##### **BNT162a1 - Groups 2 and 3, BNT162b1 - Groups 4 and 5, BNT162c1 - Group 6, and BNT162b2 - Group 7**

###### Treatment period and recovery period

Intramuscular treatment with 10 or 30 µg BNT162a1/animal, 30 or 100 µg BNT162b1/animal, or 100 µg BNT162b2/animal on test days 1, 8, and 15, or with 30 µg BNT162c1/animal on test days 1 and 8 did not lead to any test item-related changes of the urinary parameters in the male and female animals compared to the respective control animals.

No test item-related changes were noted for the specific gravity, the pH value of the urine and the urine volume. The analyte concentrations of nitrite, protein, glucose, ketones, urobilinogen, bilirubin, and haemoglobin were not influenced in a test item-related way in male and female animals. No test item-related changes were observed in the urine colour and the microscopically analysed urine sediments.

Text table 4-18: Statistically significant changes in urinary parameters considered not test item-related

Statistically significant changes in urinary parameters (refer to <a href="#">Table 10-1</a> ) in comparison to the control group considered <u>not</u> test item-related								
Urinary parameter	Group	Test item no. <sup>#</sup>	Dose [µg/animal]	Sex	Test day	Change [%]	Statistical significance	Reason
Specific gravity	4	3	30	m	17	+1.3	p ≤ 0.01	A
				f	17	+2.0	p ≤ 0.01	A
	5	3	100	m	17	+1.4	p ≤ 0.01	A
	7	4	100	m	17	+1.5	p ≤ 0.01	A
Urine volume	4	3	30	m	17	-32.7	p ≤ 0.01	B
	5	3	100	m	17	-26.2	p ≤ 0.05	B
	7	4	100	m	17	-30.9	p ≤ 0.01	B

<sup>#</sup> Test item 3: BNT162b1 - Groups 4 and 5

Test item 4: BNT162b2 - Group 7

m male

f female

A Change is within the limits of normal biological variation (with regard to the range covered by the control group) and without toxicological relevance.

B Change is due to the relative high or low value noted for the control group.

Group mean values of urinary parameters are presented in [Table 10-1](#) (Urinalysis - Summary), individual data are listed in [Table 10-2](#) (Urinalysis - Individual Data).

#### 4.12 Immunogenicity assessment

The serum samples prepared from the blood collected at terminal dissection and recovery dissection (see [Section 3.8.8](#)) were analysed by BioNTech SE, Germany, under the responsibility of the Sponsor. A summary from the analytical report forwarded to [\(b\) \(4\)](#) is given following below.

*'The recorded data demonstrates that all BNT162 vaccine candidates elicited a SARS-CoV-2-S protein specific antibody response directed against the S1 domain and the RBD sub-domain. The antibody response induced by the BNT162c1 vaccine was low in extent and did not confer neutralization activity in most animals. The development of the BNT162c1 candidate was discontinued. For BNT162a1, BNT162b1 and BNT162b2 vaccines, antibody responses detected via ELISA increased over time and directly translated into neutralizing activity as seen in the VSV/SARS-CoV-2-S pseudovirus neutralization test. For those vaccine candidates, sera from animals with higher antigen-specific antibody titers also displayed more pronounced virus neutralization effect and, in case of modRNA based vaccines, BNT162b1 and BNT162b2, exceeded the upper limit of quantification of the assay.'*

For details, refer to the analytical report 'Immunogenicity Assessment of BNT162a1, BNT162b1, BNT162b2 and BNT162c1 in Rat Serum after Repeated Intramuscular Administration' provided by BioNTech SE, Germany, in [Appendix 4](#).

#### 4.13 Ophthalmological and auditory examinations

##### **BNT162a1 - Groups 2 and 3, BNT162b1 - Groups 4 and 5, BNT162c1 - Group 6, and BNT162b2 - Group 7**

###### Treatment period and recovery period

The ophthalmological examination did not reveal any changes of the eyes and the optic region for the male and female animals following intramuscular treatment with **10 or 30 µg BNT162a1/animal, 30 or 100 µg BNT162b1/animal, or 100 µg BNT162b2/animal** on test days 1, 8, and 15, or with **30 µg BNT162c1/animal** on test days 1 and 8 at the end of the treatment period and at the end of the recovery period.

There was no indication of any impairment to the auditory acuity through any treatment.

See [Table 11](#) (Ophthalmological Examination) and [Table 12](#) (Auditory Examination) for listings of individual findings.

#### 4.14 Macroscopic *post mortem* findings

##### **BNT162a1 - Groups 2 and 3, BNT162b1 - Groups 4 and 5, BNT162c1 - Group 6, and BNT162b2 - Group 7**

###### Terminal sacrifice

Test item-related findings were noted for all test items and all dose levels in male and female animals as given in the text tables following below.

Text table 4-19: Incidences of test item-related macroscopic findings for the animals treated with BNT162a1

Incidences of test item-related macroscopic findings in male and female main study animals at necropsy at terminal sacrifice on test day 17 (refer to <a href="#">Table 13</a> )				
Organ / Finding	BNT162a1			
	Group 3: 10 µg/animal		Group 2: 30 µg/animal	
	Males	Females	Males	Females
<u>External observation:</u>				
- Injection site I and/or II thickened / indurated / (skin) incrusted	3/10	1/10	5/10	5/10
<u>Injection site I (left):</u>				
- Muscle(s) indurated / muscles thickened / indurated	7/10	8/10	10/10	10/10
<u>Spleen:</u>				
- Enlarged	5/10	2/10	2/10	4/10
<u>Lymph node (iliac):</u>				
- Enlarged	4/10	3/10	1/10	1/10

.../... Number of animals affected per number of animals examined.

Text table 4-20: Incidences of test item-related macroscopic findings for the animals treated with BNT162b1

Incidences of test item-related macroscopic findings in male and female main study animals at necropsy at terminal sacrifice on test day 17 (refer to <a href="#">Table 13</a> )				
Organ / Finding	BNT162b1			
	Group 4: 30 µg/animal		Group 5: 100 µg/animal	
	Males	Females	Males	Females
<u>External observation:</u>				
- Injection site I and/or II thickened	0/10	0/10	1/10	1/10
<u>Injection site I and/or II (left/right):</u>				
- Muscle(s) indurated / muscles thickened / indurated / enlarged	7/10	6/10	7/10	6/10
<u>Spleen:</u>				
- Enlarged	1/10	1/10	5/10	7/10
<u>Lymph node (iliac or renal, left):</u>				
- Enlarged	6/10	4/10	7/10	8/10

.../... Number of animals affected per number of animals examined.

Text table 4-21: Incidences of test item-related macroscopic findings for the animals treated with BNT162c1 or BNT162b2

Incidences of test item-related macroscopic findings in male and female main study animals at necropsy at terminal sacrifice on test day 10 (group 6) or test day 17 (group 7) (refer to <a href="#">Table 13</a> )				
Organ / Finding	Group 6: 30 µg BNT162c1/animal		Group 7: 100 µg BNT162b2/animal	
	Males	Females	Males	Females
<u>External observation:</u>				
- Injection site I and/or II thickened and/or incrusted	9/10	9/10	1/10	1/10
<u>Injection site I and/or II (left/right):</u>				
- Muscle(s) indurated or jellied / thickened / indurated / enlarged	10/10	10/10	7/10	9/10
<u>Spleen:</u>				
- Enlarged	5/10	1/10	2/10	7/10
<u>Lymph node (iliac or iliac/renal):</u>				
- Enlarged	1/10	2/10	5/10	6/10
<u>Sciatic nerve (left):</u>				
- Adhered to injection site I	0/10	0/10	0/10	3/10

.../.... Number of animals affected per number of animals examined.

All systemic changes noted macroscopically are interpreted to be due to inflammation at the injection site and/or immune activation.

#### Recovery sacrifice

All macroscopic findings noted at the injection sites and for the spleen had subsided in all animals of all previously test item-treated groups at the end of the recovery period (test day 31 for group 6, test day 38 for all other groups)

Enlarged iliac lymph nodes were still noted for a few animals as follows:

Group 4 (30 µg BNT162b1/animal): One of 5 females.

Group 5 (100 µg BNT162b1/animal): All 5 males, 2 of 5 females.

Group 7 (100 µg BNT162b2/animal): One of 5 males, 3 of 5 females.

These findings are regarded to be related to the previous test item treatment.

Further findings in form of emphysematous lungs, a reddened thymus, an enlarged right testis, a dilated uterus, in some cases filled with a clear liquid, a prostate and seminal vesicles that were reduced in size, and enlarged adrenal glands were noted for individual male and female animals in the test item-treated groups and the control group at terminal sacrifice or at recovery sacrifice. Due to the isolated occurrence per finding, all of these findings are considered as spontaneous changes that are not test item-related.

The macroscopic findings of individual animals are listed in [Table 13](#) (Macroscopic Post Mortem Findings).

#### 4.15 Organ weights

##### **BNT162a1 - Groups 2 and 3, BNT162b1 - Groups 4 and 5, BNT162c1 - Group 6, and BNT162b2 - Group 7**

###### Main study animals

In accordance with the macroscopic findings of enlarged spleens (see [Section 4.11](#)), increased relative and absolute spleen weights were noted for all test items at all dose levels in male and female animals as given in the text table following below.

Text table 4-22: Test item-related changes in spleen weights

Test item-related changes in spleen weights compared to the control group in % (test day 10/group 6, test day 17/groups 2 to 5 and 7, refer to <a href="#">Table 14-1</a> and <a href="#">Table 15-1</a> )								
Organ weight	BNT162a1				BNT162b1			
	Group 3: 10 µg/animal		Group 2: 30 µg/animal		Group 4: 30 µg/animal		Group 5: 100 µg/animal	
	Males	Females	Males	Females	Males	Females	Males	Females
Rel.	+ 27.8**	+ 25.7	+ 39.6**	+ 67.4**	+ 22.3**	+ 23.8	+ 30.0**	+ 49.4**
Abs.	+ 28.8**	+ 23.4	+ 16.5	+ 58.2**	+ 13.5	+ 30.6*	+ 22.9**	+ 54.8**
Organ weight	Group 6: 30 µg BNT162c1/animal				Group 7: 100 µg BNT162b2/animal			
	Males		Females		Males		Females	
Rel.	↑		↑		+ 36.6**		+ 62.3**	
Abs.	↑		↑		+ 25.2**		+ 60.8**	

Rel. relative (to body weight)

Abs. absolute

\*/\*\* Statistically significant at  $p \leq 0.05$  /  $p \leq 0.01$  (based on numerical data, not on percent difference).

↑ Increase relative to study control range, but % difference not quantifiable due to lacking concurrent controls.

All other differences between any of the test item-treated groups 2 to 7 and the control group at the end of the treatment period (test day 10 for group 6, test day 17 for groups 2 to 5 and 7), or at the end of the recovery period (test day 31 for group 6, test day 38 for groups 2 to 5 and 7) are considered to be coincidental background changes within the normal range of biological variation.

###### Recovery period

The slightly increased spleen weights noted at the end of the treatment period for the male and female animals of all dose groups had subsided at the end of the recovery period. There were no noteworthy differences in the absolute and relative weights of any organ between the test item-treated animals and the control animals at the end of the recovery period (test day 31 for group 6, test day 38 for all other groups).

Statistically significant differences in organ weights compared to the control animals that are not considered to be test item-related are listed in the text table below.

Text table 4-23: Statistically significant organ weight changes considered not test item-related

Statistically significant differences in organ weights (refer to <a href="#">Table 14-1</a> and <a href="#">Table 15-1</a> ) in comparison to the control group considered <u>not</u> test item-related									
Organ	Group	Test item no. <sup>#</sup>	Dose [µg/animal]	Sex	Test day	Change [%]	Statistical significance	Reason	
Adrenal gland (left)	- rel.	2	1	30	m	17	+31.0	p ≤ 0.01	A, D
						38	+23.0	p ≤ 0.05	A
		7	4	100	m	17	+23.4	p ≤ 0.05	A, D
						38	+18.3	p ≤ 0.05	A
	- abs.	2	1	30	m	38	-19.3	p ≤ 0.01	A, B
						38	-26.0	p ≤ 0.01	A, B
		3	1	10	f	38	-26.0	p ≤ 0.01	A, B
						38	-19.6	p ≤ 0.05	A, B
		4	3	30	f	17	+38.6	p ≤ 0.01	A, D
						38	-21.8	p ≤ 0.05	A
Adrenal gland (right)	- rel.	3	1	10	f	38	-23.9	p ≤ 0.05	A
						38	-24.3	p ≤ 0.05	A
		4	3	30	f	17	+28.0	p ≤ 0.05	A, D
						38	-23.5	p ≤ 0.01	A, B
	- abs.	5	3	100	m	17	+26.3	p ≤ 0.01	A, C
						38	-27.0	p ≤ 0.01	A, B
		2	1	30	f	17	+21.2	p ≤ 0.05	A, C
						38	-25.6	p ≤ 0.01	A, B
Brain	- rel.	2	1	30	m	17	+17.2	p ≤ 0.01	A, D
Epididymis (left)	- rel.	3	1	10	m	17	+25.5	p ≤ 0.01	A, D
						38	+23.6	p ≤ 0.05	A, D
		5	3	100	m	17	+32.5	p ≤ 0.05	A, D
						38	+26.3	p ≤ 0.01	A, C
	- abs.	7	4	100	m	17	+21.2	p ≤ 0.05	A, C
						38	+22.1	p ≤ 0.05	A, C
Epididymis (right)	- rel.	2	1	30	m	17	+26.2	p ≤ 0.01	A, B, D
						38	+24.2	p ≤ 0.01	A, B, D
		3	3	30	m	17	+18.7	p ≤ 0.05	A, B, D
						38	+36.5	p ≤ 0.01	A, B, D
		4	4	100	m	17	+33.9	p ≤ 0.01	A, B, D
						38	+25.1	p ≤ 0.01	A, B, D
						38	+22.1	p ≤ 0.05	A, C
	- abs.	5	3	100	m	17	+28.6	p ≤ 0.01	A, C
						38	+17.2	p ≤ 0.05	A, C
		7	4	100	m	17	+22.7	p ≤ 0.05	A, C

- Text table continued on the next page -

<b>Statistically significant differences in organ weights (refer to <a href="#">Table 14-1</a> and <a href="#">Table 15-1</a>) in comparison to the control group considered <u>not</u> test item-related</b>									
<b>Organ</b>	<b>Group</b>	<b>Test item no.<sup>#</sup></b>	<b>Dose [µg/animal]</b>	<b>Sex</b>	<b>Test day</b>	<b>Change [%]</b>	<b>Statistical significance</b>	<b>Reason</b>	
<i>- Text table continued from previous page -</i>									
Testis (left)	- rel.	2	1	30	m	+16.5	p ≤ 0.01	A, D	
		7	4	100	m	+12.1	p ≤ 0.01	A	
Testis (right)	- rel.	2	1	30	m	+18.8	p ≤ 0.01	A, D	
		7	4	100	m	+11.8	p ≤ 0.01	A	
Heart	- rel.	2	1	30	m	+15.2	p ≤ 0.01	A, D	
		7	4	100	m	+8.8	p ≤ 0.05	A	
Kidney (left)	- rel.	2	1	30	m	+10.3	p ≤ 0.05	A, D	
					f	+11.9	p ≤ 0.01	A, D	
		5	3	100	m	+10.1	p ≤ 0.05	A, D	
		7	4	100	f	+8.9	p ≤ 0.05	A, D	
Kidney (right)	- rel.	2	1	30	f	+9.1	p ≤ 0.01	A, D	
		7	4	100	f	+8.0	p ≤ 0.01	A, D	
Liver	- rel.	2	1	30	f	+15.7	p ≤ 0.01	A, D	
		3	1	10	f	-10.9	p ≤ 0.05	A	
		4	3	30	f	+10.3	p ≤ 0.05	A	
		5	3	100	f	+15.3	p ≤ 0.01	A, D	
		7	4	100	f	+20.6	p ≤ 0.01	A, D	
	- abs.	2	1	30	m	-18.7	p ≤ 0.01	A, D	
		4	3	30	m	-10.0	p ≤ 0.01	A, D	
					f	+15.8	p ≤ 0.01	A	
		5	3	100	f	+20.6	p ≤ 0.01	A, C	
		7	4	100	f	+19.2	p ≤ 0.01	A, C	
Lungs	- rel.	2	1	30	m	+14.5	p ≤ 0.01	A, D	
					f	+18.0	p ≤ 0.01	A, D	
	- rel.	3	1	10	f	+13.8	p ≤ 0.05	A, D	
		7	4	100	f	+15.2	p ≤ 0.05	A, D	
		7	4	100	f	+15.2	p ≤ 0.05	A, D	
Lymph node (mesent.)	- rel.	5	3	100	m	+86.3	p ≤ 0.05	A, C	
	- abs.	3	1	10	m	+74.6	p ≤ 0.05	A, C	
		5	3	100	m	+85.7	p ≤ 0.05	A, C	
Thyroid/Par. (left)	- rel.	2	1	30	m	+26.5	p ≤ 0.05	A, D	
		4	3	30	f	-30.5	p ≤ 0.05	A, E	
		5	3	100	f	-29.9	p ≤ 0.05	A, E	
<i>- Text table continued on the next page -</i>									

Statistically significant differences in organ weights (refer to <a href="#">Table 14-1</a> and <a href="#">Table 15-1</a> ) in comparison to the control group considered <u>not</u> test item-related								
Organ	Group	Test item no. <sup>#</sup>	Dose [µg/animal]	Sex	Test day	Change [%]	Statistical significance	Reason
<i>- Text table continued from previous page -</i>								
Thymus	- rel.	7	4	100	m	17	-21.3	p ≤ 0.05 A, D
	- abs.	7	4	100	m	17	-27.9	p ≤ 0.01 A

m male

f female

rel. relative

abs. absolute

- A Change is within normal range of biological variation, without toxicological relevance.
- B Change is due to the relatively low or high value noted for the control group.
- C Change is related to the older age of the animals.
- D Change is due to the slightly lower body weights of the respective test item treated animals compared to the control animals.
- E Change is due to the slightly higher body weights of the respective test item treated animals compared to the control animals.

Relative organ weights are listed in [Table 14-1](#) (Relative Organ Weights - Summary) and [Table 14-2](#) (Relative Organ Weights - Individual Data). Absolute organ weights are listed in [Table 15-1](#) (Absolute Organ Weights - Summary) and [Table 15-2](#) (Absolute Organ Weights - Individual Data).

#### 4.16 Histopathology

##### Terminal sacrifice

Test item-related microscopic findings at the end of dosing included inflammation at the injection site and surrounding tissues, increased cellularity of germinal centers and increased plasma cells in the draining (iliac) lymph node, increased cellularity (hematopoiesis) in the bone marrow and spleen, and vacuolation of hepatocytes in the portal regions. All microscopic findings were partially or fully recovered at the end of the 3 week recovery phase.

Test item-related injection site reactions were present in all groups and characterized by mostly moderate inflammation (up to marked) in males and moderate inflammation in females. The most severe findings were noted consistently in animals administered **100 µg BNT162b1/animal** and **100 µg BNT162b2/animal**, followed by animals administered **30 µg BNT162a1/animal**. The inflammation was characterized by infiltrates of macrophages, granulocytes, and lymphocytes into the muscle, and variably into the dermis and subcutis, at the injection site. Injection site inflammation was associated with mostly moderate oedema, mostly mild myofiber degeneration, occasional muscle necrosis, and mostly mild fibrosis. Skin ulceration (mild and moderate) was identified in some males and females administered either **10 or 30 µg BNT162a1/animal** and one animal administered **30 µg BNT162c1/animal**. Injection site findings were partially recovered at the end of the 3-week recovery phase. Inflammation extended into tissues adjacent to the injection site, including mammary tissue, perineural tissue of sciatic nerve, tissue around the femur / knee and to the draining lymph node (iliac). These findings were mostly recovered at the end of the 3-week recovery phase.

Test item-related findings in the draining (iliac) lymph node were characterized by increased cellularity of the follicular germinal centers and increased plasma cells (plasmacytosis) and were variably present in all groups.

Test item-related minimal to mild increases in the cellularity of bone marrow and extramedullary hematopoiesis in the spleen were present in all groups.

A test item-related vacuolation of hepatocytes in the portal regions of the liver was present in all groups.

Test item-related findings were noted for all test items and all dose levels in male and female animals as given in the text tables following on the next pages.

Text table 4-24: Incidences of test item-related microscopic findings for the animals treated with BNT162a1

Incidences of test item-related microscopic findings in male and female main study animals after terminal sacrifice on test day 17				
Organ / Finding	BNT162a1			
	Group 3: 10 µg/animal		Group 2: 30 µg/animal	
	Males	Females	Males	Females
<u>Bone marrow:</u>				
- Increased cellularity	10/10**	10/10**	10/10**	10/10**
<u>Injection site I (left):</u>				
- Fibrosis intramuscular/interstitial	10/10**	10/10**	10/10**	10/10**
- Fibrosis inter-/perimuscular	10/10**	10/10**	10/10**	10/10**
- Inflammation, mixed.	10/10**	10/10**	10/10**	10/10**
- Myofiber degeneration	9/10**	9/10**	9/10**	9/10**
- Oedema, subcutis	10/10**	9/10**	6/10*	10/10**
- Oedema intramuscular/interstitial	7/10**	8/10**	2/10	10/10**
- Oedema inter-/ perimuscular	10/10**	10/10**	7/10**	10/10**
- Hyperplasia, epidermis	9/10**	7/10**	10/10**	9/10**
<u>Surrounding tissue of injection sites:</u>				
Perineural tissue of sciatic nerve:				
- Inflammation (perineural)	0/10	1/10	3/10	0/10
Bone, os femoris with joint (surrounding tissue):				
- Inflammation	0/10	1/10	0/10	1/10
Mammary gland (Interstitial tissue):				
- Inflammation	0/10	3/10	0/10	0/10
<u>Lymph node (iliac):</u>				
- Plasmacytosis	7/10**	7/10**	5/10*	3/10
- Inflammation	0/10	3/10	5/10*	6/10*
- Increased cellularity, germinal center	9/10	10/10**	9/10	8/10
<u>Spleen:</u>				
- Increased haematopoiesis	3/10	2/10	0/10	0/10
<u>Liver</u>				
- Vacuolation, hepatocellular, periportal	1/10	6/10*	1/10	10/10**

.../... number of animals affected per number of animals examined

\* significantly different from control ( $p \leq 0.05$ )

\*\* significantly different from control ( $p \leq 0.01$ )

Text table 4-25: Incidences of test item-related microscopic findings for the animals treated with BNT162b1

Incidences of test item-related microscopic findings in male and female main study animals after terminal sacrifice on test day 17				
Organ / Finding	BNT162b1			
	Group 4: 30 µg/animal		Group 5: 100 µg/animal	
	Males	Females	Males	Females
<u>Bone marrow:</u>				
- Increased cellularity	10/10**	10/10**	10/10**	10/10**
<u>Injection site I and/or II (left/right):</u>				
- Fibrosis intramuscular/interstitial	9/10**	10/10**	10/10**	10/10**
- Fibrosis inter-/perimuscular	9/10**	10/10**	10/10**	10/10**
- Inflammation, mixed.	10/10**	10/10**	10/10**	10/10**
- Myofiber degeneration	9/10**	10/10**	10/10**	10/10**
- Oedema, subcutis	9/10**	10/10**	10/10**	10/10**
- Oedema intramuscular/interstitial	8/10**	9/10**	10/10**	10/10**
- Oedema inter-/ perimuscular	10/10**	10/10**	10/10**	10/10**
- Hyperplasia, epidermis	9/10**	8/10**	10/10**	10/10**
<u>Surrounding tissue of injection sites:</u>				
Perineural tissue of sciatic nerve:				
- Inflammation (perineural)	1/10	4/10	7/10**	10/10**
Bone, os femoris with joint (surrounding tissue):				
- Inflammation	0/10	0/10	4/10	6/10*
Mammary gland (Interstitial tissue):				
- Inflammation	0/10	0/10	2/10	1/10
<u>Lymph node (iliac):</u>				
- Plasmacytosis	9/10**	8/10**	8/10**	10/10**
- Inflammation	0/10	0/10	5/10*	8/9**
- Increased cellularity, geminal center	10/10	8/10	10/10	10/10**
<u>Spleen:</u>				
- Increased haematopoiesis	0/10	0/10	2/10	7/10**
<u>Liver</u>				
- Vacuolation, hepatocellular, periportal	0/10	10/10**	8/10**	10/10**

.../... number of animals affected per number of animals examined

\* significantly different from control ( $p \leq 0.05$ )

\*\* significantly different from control ( $p \leq 0.01$ )

Text table 4-26: Incidences of test item-related microscopic findings for the animals treated with BNT162c1 and BNT162b2

Incidences of test item-related microscopic findings in male and female main study animals after terminal sacrifice on test day 10 (group 6) or test day 17 (group 7)				
Organ / Finding	BNT162c1		BNT162b2	
	Group 6: 30 µg/animal		Group 7: 100 µg/animal	
	Males	Females	Males	Females
<u>Bone marrow:</u>				
- Increased cellularity	10/10**	10/10**	10/10**	10/10**
<u>Injection site I and/or II (left/right):</u>				
- Fibrosis intramuscular/interstitial	9/10**	10/10**	10/10**	10/10**
- Fibrosis inter-/perimuscular	9/10**	10/10**	10/10**	10/10**
- Inflammation, mixed	9/10**	10/10**	10/10**	10/10**
- Myofiber degeneration	8/10**	9/10**	10/10**	10/10**
- Oedema, subcutis	9/10**	10/10**	10/10**	10/10**
- Oedema intramuscular/interstitial	9/10**	10/10**	10/10**	10/10**
- Oedema inter-/ perimuscular	9/10**	10/10**	10/10**	10/10**
- Hyperplasia, epidermis	9/10**	10/10**	9/10**	10/10**
<u>Surrounding tissue of injection sites:</u>				
Perineural tissue of sciatic nerve:				
- Inflammation (perineural)	0/10	0/10	10/10**	10/10**
Bone, os femoris with joint (surrounding tissue):				
- Inflammation	0/10	0/10	2/10	9/10**
Mammary gland (Interstitial tissue):				
- Inflammation	0/10	4/10	2/10	0/10
<u>Lymph node (iliac):</u>				
- Plasmacytosis	6/10*	7/10**	10/10**	10/10**
- Inflammation	4/10	7/10**	9/10**	6/10*
- Increased cellularity, germinal center	10/10	10/10**	10/10	10/10**
<u>Skeletal muscle:</u>				
- Infiltration, lymphohistiogranulocyt.	0/10	0/10	5/10*	0/10
<u>Spleen:</u>				
- Increased haematopoiesis	0/10	0/10	2/10	8/10**
<u>Liver</u>				
- Vacuolation, hepatocellular, periportal	1/10	10/10**	9/10**	10/10**

.../... number of animals affected per number of animals examined

\* significantly different from control ( $p \leq 0.05$ )

\*\* significantly different from control ( $p \leq 0.01$ )

Recovery sacrifice

Most of the microscopic findings noted at the injection sites, iliac lymph node, surrounding tissue of the injection sites (surrounding tissue of bone, os femoris with joint; perineural tissue of sciatic nerve; interstitial tissue of mammary gland; skeletal muscle) and spleen were partially or completely recovered in all animals at the end of the recovery period (test day 31 for group 6, test day 38 for all other groups). Some inflammatory lesions were still noted at the injection sites and the surrounding tissue of some animals, being less severe (minimal to mild) if not resolved; plasmacytosis in the iliac lymph node was less severe and present in fewer groups (30 or 100 µg BNT162b1/animal or 100 µg BNT162b2/animal) at the end of the 3-week recovery period, indicating partial or complete recovery.

The infiltration of macrophages in the iliac lymph nodes of previously treated recovery animals were regarded as consequence of phagocytosis relating to the inflammatory reactions at the injection sites.

Test item-related minimal to mild increases in the cellularity of bone marrow and extramedullary hematopoiesis in the spleen was fully recovered at the end of the 3-week recovery phase.

Test item-related vacuolation of hepatocytes in the portal regions of the liver was fully recovered at the end of the 3-week recovery phase.

The incidence and the severity of the remaining findings were markedly reduced compared to the main study animals.

The complete Histopathology Report is given in [Section 6](#).

5. TABLES

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-1 Local Tolerance (General Observation) - Individual Data Rat

Male animals

Group 1: Control (2 × 100 µl Buffer/animal)

Treatment period

Animal no.	Observed on test day	Total number of days	Observation
1	n/a	n/a	No signs of local intolerance
2	n/a	n/a	No signs of local intolerance
3	n/a	n/a	No signs of local intolerance
4	n/a	n/a	No signs of local intolerance
5	n/a	n/a	No signs of local intolerance
6	n/a	n/a	No signs of local intolerance
7	n/a	n/a	No signs of local intolerance
8	n/a	n/a	No signs of local intolerance
9	n/a	n/a	No signs of local intolerance
10	n/a	n/a	No signs of local intolerance

- Group 1 continued on the next page. -

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-1 Local Tolerance (General Observation) - Individual Data Rat

Male animalsGroup 1: Control ( $2 \times 100 \mu\text{l}$  Buffer/animal)- continuedTreatment period (*continued*)

Animal no.	Observed on test day	Total number of days	Observation
11	n/a	n/a	No signs of local intolerance
12	n/a	n/a	No signs of local intolerance
13	n/a	n/a	No signs of local intolerance
14	n/a	n/a	No signs of local intolerance
15	n/a	n/a	No signs of local intolerance

Recovery period

Animal no.	Observed on test day	Total number of days	Observation
11	n/a	n/a	No signs of local intolerance
12	n/a	n/a	No signs of local intolerance
13	n/a	n/a	No signs of local intolerance
14	n/a	n/a	No signs of local intolerance
15	n/a	n/a	No signs of local intolerance

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-1 Local Tolerance (General Observation) - Individual Data Rat

Male animals

Group 2: 30 µg BNT162a1/animal

Treatment period

Animal no.	Observed on test day	Total number of days	Observation
31	n/a	n/a	No signs of local intolerance
32	14	1	Eschar formation (injection site)
33	n/a	n/a	No signs of local intolerance
34	14	1	Eschar formation (injection site)
35	n/a	n/a	No signs of local intolerance
36	n/a	n/a	No signs of local intolerance
37	9	1	Injection site appears to be painful
	14	1	Eschar formation (injection site)
38	n/a	n/a	No signs of local intolerance
39	14	1	Eschar formation (injection site)
40	n/a	n/a	No signs of local intolerance

- Group 2 continued on the next page. -

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-1 Local Tolerance (General Observation) - Individual Data Rat

Male animals

Group 2: 30 µg BNT162a1/animal- continued

Treatment period (*continued*)

Animal no.	Observed on test day	Total number of days	Observation
41	n/a	n/a	No signs of local intolerance
42	14	1	Eschar formation (injection site)
43	9, 10	2	Injection site appears to be painful
44	9	1	Injection site appears to be painful
45	9	1	Injection site appears to be painful

Recovery period

Animal no.	Observed on test day	Total number of days	Observation
41	n/a	n/a	No signs of local intolerance
42	n/a	n/a	No signs of local intolerance
43	n/a	n/a	No signs of local intolerance
44	n/a	n/a	No signs of local intolerance
45	n/a	n/a	No signs of local intolerance

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-1 Local Tolerance (General Observation) - Individual Data Rat

Male animals

Group 3: 10 µg BNT162a1/animal

Treatment period

Animal no.	Observed on test day	Total number of days	Observation
61	n/a	n/a	No signs of local intolerance
62	n/a	n/a	No signs of local intolerance
63	n/a	n/a	No signs of local intolerance
64	n/a	n/a	No signs of local intolerance
65	n/a	n/a	No signs of local intolerance
66	n/a	n/a	No signs of local intolerance
67	n/a	n/a	No signs of local intolerance
68	n/a	n/a	No signs of local intolerance
69	n/a	n/a	No signs of local intolerance
70	n/a	n/a	No signs of local intolerance

- Group 3 continued on the next page. -

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-1 Local Tolerance (General Observation) - Individual Data Rat

Male animals

Group 3: 10 µg BNT162a1/animal- continued

Treatment period (*continued*)

Animal no.	Observed on test day	Total number of days	Observation
71	n/a	n/a	No signs of local intolerance
72	n/a	n/a	No signs of local intolerance
73	n/a	n/a	No signs of local intolerance
74	n/a	n/a	No signs of local intolerance
75	n/a	n/a	No signs of local intolerance

Recovery period

Animal no.	Observed on test day	Total number of days	Observation
71	n/a	n/a	No signs of local intolerance
72	n/a	n/a	No signs of local intolerance
73	n/a	n/a	No signs of local intolerance
74	n/a	n/a	No signs of local intolerance
75	n/a	n/a	No signs of local intolerance

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-1 Local Tolerance (General Observation) - Individual Data Rat

Male animals

Group 4: 30 µg BNT162b1/animal

Treatment period

Animal no.	Observed on test day	Total number of days	Observation
91	n/a	n/a	No signs of local intolerance
92	n/a	n/a	No signs of local intolerance
93	n/a	n/a	No signs of local intolerance
94	n/a	n/a	No signs of local intolerance
95	n/a	n/a	No signs of local intolerance
96	n/a	n/a	No signs of local intolerance
97	n/a	n/a	No signs of local intolerance
98	n/a	n/a	No signs of local intolerance
99	n/a	n/a	No signs of local intolerance
100	n/a	n/a	No signs of local intolerance

- Group 4 continued on the next page. -

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-1 Local Tolerance (General Observation) - Individual Data Rat

Male animals

Group 4: 30 µg BNT162b1/animal- continued

Treatment period (*continued*)

Animal no.	Observed on test day	Total number of days	Observation
101	n/a	n/a	No signs of local intolerance
102	n/a	n/a	No signs of local intolerance
103	n/a	n/a	No signs of local intolerance
104	n/a	n/a	No signs of local intolerance
105	n/a	n/a	No signs of local intolerance

Recovery period

Animal no.	Observed on test day	Total number of days	Observation
101	n/a	n/a	No signs of local intolerance
102	n/a	n/a	No signs of local intolerance
103	n/a	n/a	No signs of local intolerance
104	n/a	n/a	No signs of local intolerance
105	n/a	n/a	No signs of local intolerance

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-1 Local Tolerance (General Observation) - Individual Data Rat

Male animals

Group 5: 100 µg BNT162b1/animal

Treatment period

Animal no.	Observed on test day	Total number of days	Observation
121	n/a	n/a	No signs of local intolerance
122	n/a	n/a	No signs of local intolerance
123	n/a	n/a	No signs of local intolerance
124	n/a	n/a	No signs of local intolerance
125	n/a	n/a	No signs of local intolerance
126	n/a	n/a	No signs of local intolerance
127	n/a	n/a	No signs of local intolerance
128	n/a	n/a	No signs of local intolerance
129	n/a	n/a	No signs of local intolerance
130	n/a	n/a	No signs of local intolerance

- Group 5 continued on the next page. -

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-1 Local Tolerance (General Observation) - Individual Data Rat

Male animals

Group 5: 100 µg BNT162b1/animal- continued

Treatment period (*continued*)

Animal no.	Observed on test day	Total number of days	Observation
131	n/a	n/a	No signs of local intolerance
132	n/a	n/a	No signs of local intolerance
133	n/a	n/a	No signs of local intolerance
134	n/a	n/a	No signs of local intolerance
135	n/a	n/a	No signs of local intolerance

Recovery period

Animal no.	Observed on test day	Total number of days	Observation
131	n/a	n/a	No signs of local intolerance
132	n/a	n/a	No signs of local intolerance
133	n/a	n/a	No signs of local intolerance
134	n/a	n/a	No signs of local intolerance
135	n/a	n/a	No signs of local intolerance

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-1 Local Tolerance (General Observation) - Individual Data Rat

Male animals

Group 6: 30 µg BNT162c1/animal

Treatment period

Animal no.	Observed on test day	Total number of days	Observation
151	n/a	n/a	No signs of local intolerance
152	n/a	n/a	No signs of local intolerance
153	n/a	n/a	No signs of local intolerance
154	n/a	n/a	No signs of local intolerance
155	n/a	n/a	No signs of local intolerance
156	n/a	n/a	No signs of local intolerance
157	n/a	n/a	No signs of local intolerance
158	n/a	n/a	No signs of local intolerance
159	n/a	n/a	No signs of local intolerance
160	n/a	n/a	No signs of local intolerance

- Group 6 continued on the next page. -

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-1 Local Tolerance (General Observation) - Individual Data Rat

Male animals

Group 6: 30 µg BNT162c1/animal- continued

Treatment period (*continued*)

Animal no.	Observed on test day	Total number of days	Observation
161	n/a	n/a	No signs of local intolerance
162	n/a	n/a	No signs of local intolerance
163	n/a	n/a	No signs of local intolerance
164	n/a	n/a	No signs of local intolerance
165	n/a	n/a	No signs of local intolerance

Recovery period

Animal no.	Observed on test day	Total number of days	Observation
161	n/a	n/a	No signs of local intolerance
162	n/a	n/a	No signs of local intolerance
163	n/a	n/a	No signs of local intolerance
164	n/a	n/a	No signs of local intolerance
165	n/a	n/a	No signs of local intolerance

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-1 Local Tolerance (General Observation) - Individual Data Rat

Male animals

Group 7: 100 µg BNT162b2/animal

Treatment period

Animal no.	Observed on test day	Total number of days	Observation
181	n/a	n/a	No signs of local intolerance
182	n/a	n/a	No signs of local intolerance
183	n/a	n/a	No signs of local intolerance
184	n/a	n/a	No signs of local intolerance
185	n/a	n/a	No signs of local intolerance
186	n/a	n/a	No signs of local intolerance
187	n/a	n/a	No signs of local intolerance
188	n/a	n/a	No signs of local intolerance
189	n/a	n/a	No signs of local intolerance
190	n/a	n/a	No signs of local intolerance

- Group 7 continued on the next page. -

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-1 Local Tolerance (General Observation) - Individual Data Rat

Male animals

Group 7: 100 µg BNT162b2/animal- continued

Treatment period (*continued*)

Animal no.	Observed on test day	Total number of days	Observation
191	n/a	n/a	No signs of local intolerance
192	n/a	n/a	No signs of local intolerance
193	n/a	n/a	No signs of local intolerance
194	n/a	n/a	No signs of local intolerance
195	n/a	n/a	No signs of local intolerance

Recovery period

Animal no.	Observed on test day	Total number of days	Observation
191	n/a	n/a	No signs of local intolerance
192	n/a	n/a	No signs of local intolerance
193	n/a	n/a	No signs of local intolerance
194	n/a	n/a	No signs of local intolerance
195	n/a	n/a	No signs of local intolerance

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-1 Local Tolerance (General Observation) - Individual Data Rat

Female animals

Group 1: Control (2 × 100 µl Buffer/animal)

Treatment period

Animal no.	Observed on test day	Total number of days	Observation
16	n/a	n/a	No signs of local intolerance
17	n/a	n/a	No signs of local intolerance
18	n/a	n/a	No signs of local intolerance
19	n/a	n/a	No signs of local intolerance
20	n/a	n/a	No signs of local intolerance
21	n/a	n/a	No signs of local intolerance
22	n/a	n/a	No signs of local intolerance
23	n/a	n/a	No signs of local intolerance
24	n/a	n/a	No signs of local intolerance
25	n/a	n/a	No signs of local intolerance

- Group 1 continued on the next page. -

Three LNP-Formulated RNA Platforms encoding for Viral Proteins  
 TABLE 1-1 Local Tolerance (General Observation) - Individual Data Rat

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Female animals

Group 1: Control ( $2 \times 100 \mu\text{l}$  Buffer/animal)- continued

Treatment period (*continued*)

Animal no.	Observed on test day	Total number of days	Observation
26	n/a	n/a	No signs of local intolerance
27	n/a	n/a	No signs of local intolerance
28	n/a	n/a	No signs of local intolerance
29	n/a	n/a	No signs of local intolerance
30	n/a	n/a	No signs of local intolerance

Recovery period

Animal no.	Observed on test day	Total number of days	Observation
26	n/a	n/a	No signs of local intolerance
27	n/a	n/a	No signs of local intolerance
28	n/a	n/a	No signs of local intolerance
29	n/a	n/a	No signs of local intolerance
30	n/a	n/a	No signs of local intolerance

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-1 Local Tolerance (General Observation) - Individual Data Rat

Female animals

Group 2: 30 µg BNT162a1/animal

Treatment period

Animal no.	Observed on test day	Total number of days	Observation
46	14	1	Eschar formation (injection site)
47	n/a	n/a	No signs of local intolerance
48	n/a	n/a	No signs of local intolerance
49	9 14	1 1	Injection site appears to be painful Eschar formation (injection site)
50	9	1	Injection site appears to be painful
51	9	1	Injection site appears to be painful
52	9	1	Injection site appears to be painful
53	9 14	1 1	Injection site appears to be painful Eschar formation (injection site)
54	9 14	1 1	Injection site appears to be painful Eschar formation (injection site)
55	9	1	Injection site appears to be painful

- Group 2 continued on the next page. -

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-1 Local Tolerance (General Observation) - Individual Data Rat

Female animals

Group 2: 30 µg BNT162a1/animal- continued

Treatment period (*continued*)

Animal no.	Observed on test day	Total number of days	Observation
56	9	1	Injection site appears to be painful
	14	1	Eschar formation (injection site)
57	9	1	Injection site appears to be painful
58	9	1	Injection site appears to be painful
59	9	1	Injection site appears to be painful
60	9	1	Injection site appears to be painful
	14	1	Eschar formation (injection site)

Recovery period

Animal no.	Observed on test day	Total number of days	Observation
56	n/a	n/a	No signs of local intolerance
57	n/a	n/a	No signs of local intolerance
58	n/a	n/a	No signs of local intolerance
59	n/a	n/a	No signs of local intolerance
60	n/a	n/a	No signs of local intolerance

n/a = not applicable

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-1 Local Tolerance (General Observation) - Individual Data Rat

Female animals

Group 3: 10 µg BNT162a1/animal

Treatment period

Animal no.	Observed on test day	Total number of days	Observation
76	n/a	n/a	No signs of local intolerance
77	n/a	n/a	No signs of local intolerance
78	n/a	n/a	No signs of local intolerance
79	n/a	n/a	No signs of local intolerance
80	n/a	n/a	No signs of local intolerance
81	n/a	n/a	No signs of local intolerance
82	n/a	n/a	No signs of local intolerance
83	n/a	n/a	No signs of local intolerance
84	n/a	n/a	No signs of local intolerance
85	n/a	n/a	No signs of local intolerance

- Group 3 continued on the next page. -

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-1 Local Tolerance (General Observation) - Individual Data Rat

Female animals

Group 3: 10 µg BNT162a1/animal- continued

Treatment period (*continued*)

Animal no.	Observed on test day	Total number of days	Observation
86	n/a	n/a	No signs of local intolerance
87	n/a	n/a	No signs of local intolerance
88	n/a	n/a	No signs of local intolerance
89	n/a	n/a	No signs of local intolerance
90	n/a	n/a	No signs of local intolerance

Recovery period

Animal no.	Observed on test day	Total number of days	Observation
86	n/a	n/a	No signs of local intolerance
87	n/a	n/a	No signs of local intolerance
88	n/a	n/a	No signs of local intolerance
89	n/a	n/a	No signs of local intolerance
90	n/a	n/a	No signs of local intolerance

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-1 Local Tolerance (General Observation) - Individual Data Rat

Female animals

Group 4: 30 µg BNT162b1/animal

Treatment period

Animal no.	Observed on test day	Total number of days	Observation
106	n/a	n/a	No signs of local intolerance
107	n/a	n/a	No signs of local intolerance
108	n/a	n/a	No signs of local intolerance
109	n/a	n/a	No signs of local intolerance
110	n/a	n/a	No signs of local intolerance
111	n/a	n/a	No signs of local intolerance
112	n/a	n/a	No signs of local intolerance
113	n/a	n/a	No signs of local intolerance
114	n/a	n/a	No signs of local intolerance
115	n/a	n/a	No signs of local intolerance

- Group 4 continued on the next page. -

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-1 Local Tolerance (General Observation) - Individual Data Rat

Female animals

Group 4: 30 µg BNT162b1/animal- continued

Treatment period (*continued*)

Animal no.	Observed on test day	Total number of days	Observation
116	n/a	n/a	No signs of local intolerance
117	n/a	n/a	No signs of local intolerance
118	n/a	n/a	No signs of local intolerance
119	n/a	n/a	No signs of local intolerance
120	n/a	n/a	No signs of local intolerance

Recovery period

Animal no.	Observed on test day	Total number of days	Observation
116	n/a	n/a	No signs of local intolerance
117	n/a	n/a	No signs of local intolerance
118	n/a	n/a	No signs of local intolerance
119	n/a	n/a	No signs of local intolerance
120	n/a	n/a	No signs of local intolerance

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-1 Local Tolerance (General Observation) - Individual Data Rat

Female animals

Group 5: 100 µg BNT162b1/animal

Treatment period

Animal no.	Observed on test day	Total number of days	Observation
136	n/a	n/a	No signs of local intolerance
137	n/a	n/a	No signs of local intolerance
138	n/a	n/a	No signs of local intolerance
139	n/a	n/a	No signs of local intolerance
140	n/a	n/a	No signs of local intolerance
141	n/a	n/a	No signs of local intolerance
142	n/a	n/a	No signs of local intolerance
143	n/a	n/a	No signs of local intolerance
144	n/a	n/a	No signs of local intolerance
145	n/a	n/a	No signs of local intolerance

- Group 5 continued on the next page. -

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-1 Local Tolerance (General Observation) - Individual Data Rat

Female animals

Group 5: 100 µg BNT162b1/animal- continued

Treatment period (*continued*)

Animal no.	Observed on test day	Total number of days	Observation
146	n/a	n/a	No signs of local intolerance
147	n/a	n/a	No signs of local intolerance
148	n/a	n/a	No signs of local intolerance
149	n/a	n/a	No signs of local intolerance
150	n/a	n/a	No signs of local intolerance

Recovery period

Animal no.	Observed on test day	Total number of days	Observation
146	n/a	n/a	No signs of local intolerance
147	n/a	n/a	No signs of local intolerance
148	n/a	n/a	No signs of local intolerance
149	n/a	n/a	No signs of local intolerance
150	n/a	n/a	No signs of local intolerance

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-1 Local Tolerance (General Observation) - Individual Data Rat

Female animals

Group 6: 30 µg BNT162c1/animal

Treatment period

Animal no.	Observed on test day	Total number of days	Observation
166	n/a	n/a	No signs of local intolerance
167	n/a	n/a	No signs of local intolerance
168	n/a	n/a	No signs of local intolerance
169	n/a	n/a	No signs of local intolerance
170	n/a	n/a	No signs of local intolerance
171	n/a	n/a	No signs of local intolerance
172	n/a	n/a	No signs of local intolerance
173	n/a	n/a	No signs of local intolerance
174	n/a	n/a	No signs of local intolerance
175	n/a	n/a	No signs of local intolerance

- Group 6 continued on the next page. -

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-1 Local Tolerance (General Observation) - Individual Data Rat

Female animals

Group 6: 30 µg BNT162c1/animal- continued

Treatment period (*continued*)

Animal no.	Observed on test day	Total number of days	Observation
176	n/a	n/a	No signs of local intolerance
177	n/a	n/a	No signs of local intolerance
178	n/a	n/a	No signs of local intolerance
179	n/a	n/a	No signs of local intolerance
180	n/a	n/a	No signs of local intolerance

Recovery period

Animal no.	Observed on test day	Total number of days	Observation
176	n/a	n/a	No signs of local intolerance
177	n/a	n/a	No signs of local intolerance
178	n/a	n/a	No signs of local intolerance
179	n/a	n/a	No signs of local intolerance
180	n/a	n/a	No signs of local intolerance

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-1 Local Tolerance (General Observation) - Individual Data Rat

Female animals

Group 7: 100 µg BNT162b2/animal

Treatment period

Animal no.	Observed on test day	Total number of days	Observation
196	n/a	n/a	No signs of local intolerance
197	n/a	n/a	No signs of local intolerance
198	n/a	n/a	No signs of local intolerance
199	n/a	n/a	No signs of local intolerance
200	n/a	n/a	No signs of local intolerance
201	n/a	n/a	No signs of local intolerance
202	n/a	n/a	No signs of local intolerance
203	n/a	n/a	No signs of local intolerance
204	n/a	n/a	No signs of local intolerance
205	n/a	n/a	No signs of local intolerance

- Group 7 continued on the next page. -

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-1 Local Tolerance (General Observation) - Individual Data Rat

Female animals

Group 7: 100 µg BNT162b2/animal- continued

Treatment period (*continued*)

Animal no.	Observed on test day	Total number of days	Observation
206	n/a	n/a	No signs of local intolerance
207	n/a	n/a	No signs of local intolerance
208	n/a	n/a	No signs of local intolerance
209	n/a	n/a	No signs of local intolerance
210	n/a	n/a	No signs of local intolerance

Recovery period

Animal no.	Observed on test day	Total number of days	Observation
206	n/a	n/a	No signs of local intolerance
207	n/a	n/a	No signs of local intolerance
208	n/a	n/a	No signs of local intolerance
209	n/a	n/a	No signs of local intolerance
210	n/a	n/a	No signs of local intolerance

Three LNP-Formulated RNA Platforms encoding for Viral Proteins  
 TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

Assessment of injection sites based on DRAIZE

Group 1: Control (2 × 100 µl Buffer/animal)

Test day (time p.a.)	Inj.	Animal no. - Males																			
		(1)			(2)			(3)			(4)			(5)							
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F
<u>Treatment period</u>																					
1 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
2 (24 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
3 (48 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
5 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
7 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
8 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
10 (48 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
12 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
14 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
15 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
16 (24 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-

Inj.:	Injection (i.m.)	0: No finding
X/...:	Denotes day of injection/number of injection sites	1: Very slight finding (barely perceptible)
E:	Erythema (grading: see right)	2: Well-defined finding
Oe:	Oedema (grading: see Section 3.8.3)	3: Moderate to severe finding
I/H:	Induration/hardening (by palpation; grading: see Section 3.8.3)	4: Severe finding
F:	Other findings (see right)	-: No other finding

Three LNP-Formulated RNA Platforms encoding for Viral Proteins  
 TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

Assessment of injection sites based on DRAIZE

Group 1: Control (2 × 100 µl Buffer/animal)

Test day (time p.a.)	Inj.	Animal no. - Males															
		(6)			(7)			(8)			(9)			(10)			
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F
<u>Treatment period</u>																	
1 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
2 (24 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
3 (48 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
5 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
7 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
8 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
10 (48 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
12 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
14 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
15 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
16 (24 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-

Inj.:	Injection (i.m.)	0: No finding
X/...:	Denotes day of injection/number of injection sites	1: Very slight finding (barely perceptible)
E:	Erythema (grading: see right)	2: Well-defined finding
Oe:	Oedema (grading: see Section 3.8.3)	3: Moderate to severe finding
I/H:	Induration/hardening (by palpation; grading: see Section 3.8.3)	4: Severe finding
F:	Other findings (see right)	-: No other finding

Three LNP-Formulated RNA Platforms encoding for Viral Proteins  
 TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

Assessment of injection sites based on DRAIZE																					
		<u>Animal no. - Males</u>																			
Test day	Inj.	(11)				(12)				(13)				(14)				(15)			
(time p.a.)		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F
<u>Treatment period</u>																					
1 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
2 (24 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
3 (48 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
5 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
7 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
8 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
10 (48 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	3/2	0	-	0	0	0	-
12 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
14 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
15 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
16 (24 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
<u>Recovery period</u>																					
17 (48 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
19 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
21 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
23 (192 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
25 (240 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
27 (288 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
29 (336 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
31 (384 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
33 (432 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
35 (480 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
37 (528 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-

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Inj.:	Injection (i.m.)	0: No finding
X/...:	Denotes day of injection/number of injection sites	1: Very slight finding (barely perceptible)
E:	Erythema (grading: see right)	2: Well-defined finding
Oe:	Oedema (grading: see Section 3.8.3)	3: Moderate to severe finding
I/H:	Induration/hardening (by palpation; grading: see Section 3.8.3)	4: Severe finding
F:	Other findings (see right)	-: No other finding

Three LNP-Formulated RNA Platforms encoding for Viral Proteins  
 TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

Assessment of injection sites based on DRAIZE

Group 1: Control (2 × 100 µl Buffer/animal)

Test day (time p.a.)	Inj.	Animal no. - Females																			
		(16)			(17)			(18)			(19)			(20)							
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F
<u>Treatment period</u>																					
1 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
2 (24 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
3 (48 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
5 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
7 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
8 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
10 (48 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
12 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
14 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
15 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
16 (24 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-

Inj.:	Injection (i.m.)	0: No finding
X/...:	Denotes day of injection/number of injection sites	1: Very slight finding (barely perceptible)
E:	Erythema (grading: see right)	2: Well-defined finding
Oe:	Oedema (grading: see Section 3.8.3)	3: Moderate to severe finding
I/H:	Induration/hardening (by palpation; grading: see Section 3.8.3)	4: Severe finding
F:	Other findings (see right)	-: No other finding

Three LNP-Formulated RNA Platforms encoding for Viral Proteins  
 TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

Assessment of injection sites based on DRAIZE

Group 1: Control (2 × 100 µl Buffer/animal)

Test day (time p.a.)	Inj.	Animal no. - Females															
		(21)		(22)		(23)		(24)		(25)							
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F
<u>Treatment period</u>																	
1 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
2 (24 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
3 (48 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
5 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
7 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
8 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
10 (48 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
12 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
14 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
15 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
16 (24 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-

Inj.:	Injection (i.m.)	0: No finding
X/...:	Denotes day of injection/number of injection sites	1: Very slight finding (barely perceptible)
E:	Erythema (grading: see right)	2: Well-defined finding
Oe:	Oedema (grading: see Section 3.8.3)	3: Moderate to severe finding
I/H:	Induration/hardening (by palpation; grading: see Section 3.8.3)	4: Severe finding
F:	Other findings (see right)	-: No other finding

Three LNP-Formulated RNA Platforms encoding for Viral Proteins  
 TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

Assessment of injection sites based on DRAIZE													
		<u>Animal no. - Females</u>											
Test day (time p.a.)	Inj.	(26)			(27)			(28)			(29)		
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F
<u>Treatment period</u>													
1 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-
2 (24 h)		0	0	0	-	0	0	0	-	0	0	0	-
3 (48 h)		0	0	0	-	0	0	0	-	0	0	0	-
5 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-
7 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-
8 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)		0	0	0	-	0	0	0	-	0	0	0	-
10 (48 h)		0	0	0	-	0	0	0	-	0	3/2	0	-
12 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-
14 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-
15 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-
16 (24 h)		0	0	0	-	0	0	0	-	0	0	0	-
<u>Recovery period</u>													
17 (48 h)		0	0	0	-	0	0	0	-	0	0	0	-
19 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-
21 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-
23 (192 h)		0	0	0	-	0	0	0	-	0	0	0	-
25 (240 h)		0	0	0	-	0	0	0	-	0	0	0	-
27 (288 h)		0	0	0	-	0	0	0	-	0	0	0	-
29 (336 h)		0	0	0	-	0	0	0	-	0	0	0	-
31 (384 h)		0	0	0	-	0	0	0	-	0	0	0	-
33 (432 h)		0	0	0	-	0	0	0	-	0	0	0	-
35 (480 h)		0	0	0	-	0	0	0	-	0	0	0	-
37 (528 h)		0	0	0	-	0	0	0	-	0	0	0	-

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Inj.:	Injection (i.m.)	0: No finding
X/...:	Denotes day of injection/number of injection sites	1: Very slight finding (barely perceptible)
E:	Erythema (grading: see right)	2: Well-defined finding
Oe:	Oedema (grading: see Section 3.8.3)	3: Moderate to severe finding
I/H:	Induration/hardening (by palpation; grading: see Section 3.8.3)	4: Severe finding
F:	Other findings (see right)	-: No other finding

Three LNP-Formulated RNA Platforms encoding for Viral Proteins  
 TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

Assessment of injection sites based on DRAIZE

Group 2: 30 µg BNT162a1/animal

Test day (time p.a.)	Inj.	Animal no. - Males																			
		(31)			(32)			(33)			(34)			(35)							
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F
<u>Treatment period</u>																					
1 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
2 (24 h)		0	0	0	-	0	0	0	-	0	1	0	-	0	1	0	-	0	2	0	-
3 (48 h)		0	0	0	-	0	1	0	-	0	0	0	-	0	0	0	-	0	2	0	-
5 (96 h)		0	0	0	S	1	0	0	S	0	0	0	S	0	0	0	S	1	1	0	S
7 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
8 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)		0	0	0	-	0	1	0	-	1	2	0	-	1	2	0	-	0	2	0	-
10 (48 h)		0	0	0	-	2	1	0	-	1	2	0	-	2	2	0	-	0	2	0	-
12 (96 h)		0	0	0	-	1	0	0	-	1	1	0	-	1	1	0	-	0	1	0	-
14 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
15 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
16 (24 h)		0	2	0	-	0	2	0	-	0	2	0	-	0	2	0	-	0	2	0	-

Inj.:	Injection (i.m.)	0: No finding
X/...:	Denotes day of injection/number of injection sites	1: Very slight finding (barely perceptible)
E:	Erythema (grading: see right)	2: Well-defined finding
Oe:	Oedema (grading: see Section 3.8.3)	3: Moderate to severe finding
I/H:	Induration/hardening (by palpation; grading: see Section 3.8.3)	4: Severe finding
F:	Other findings (see right)	-: No other finding
		S: Scabby skin

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

## Assessment of injection sites based on DRAIZE

Group 2: 30 µg BNT162a1/animal

Test day (time p.a.)	Inj.	Animal no. - Males																			
		(36)			(37)			(38)			(39)			(40)							
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F
<u>Treatment period</u>																					
1 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
2 (24 h)		0	1	0	-	0	0	0	-	0	2	0	-	0	1	0	-	0	1	0	-
3 (48 h)		0	0	0	-	0	1	0	-	0	0	0	-	0	1	0	-	0	0	0	-
5 (96 h)		0	0	0	S	1	0	0	S	0	1	0	S	1	0	0	S	1	0	0	S
7 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
8 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)		1	2	0	-	0	3	0	-	1	2	0	-	0	1	0	-	0	2	0	-
10 (48 h)		1	2	0	-	1	3	0	-	0	1	0	-	1	1	0	-	0	2	0	-
12 (96 h)		0	0	0	-	0	1	0	-	0	0	0	-	0	0	0	-	0	0	0	-
14 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
15 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
16 (24 h)		0	1	0	-	0	2	0	-	0	2	0	-	0	2	0	-	0	2	0	-

Inj.:	Injection (i.m.)	0: No finding
X/...:	Denotes day of injection/number of injection sites	1: Very slight finding (barely perceptible)
E:	Erythema (grading: see right)	2: Well-defined finding
Oe:	Oedema (grading: see Section 3.8.3)	3: Moderate to severe finding
I/H:	Induration/hardening (by palpation; grading: see Section 3.8.3)	4: Severe finding
F:	Other findings (see right)	-: No other finding
		S: Scabby skin

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

## Assessment of injection sites based on DRAIZE

Group 2: 30 µg BNT162a1/animal

Test day (time p.a.)	Inj.	Animal no. - Males															
		(41)		(42)		(43)		(44)		(45)							
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F
<u>Treatment period</u>																	
1 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
2 (24 h)		0	0	0	-	0	0	0	-	0	1	0	-	0	0	0	-
3 (48 h)		0	1	0	-	0	2	0	-	0	2	0	-	0	0	0	-
5 (96 h)		1	0	0	S	1	1	0	S	1	0	0	S	0	0	0	S
7 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
8 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)		1	1	0	-	0	2	0	-	1	3	0	-	0	3	0	-
10 (48 h)		0	3	0	-	1	2	0	-	1	3	0	-	0	3/2	0	-
12 (96 h)		0	1	0	-	0	1	0	-	0	2	0	-	0	1	0	-
14 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
15 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
16 (24 h)		0	1	0	-	0	2	0	-	1	2	0	-	0	1	0	-
<u>Recovery period</u>																	
17 (48 h)		0	1	0	-	0	0	0	-	1	2	0	-	0	2	0	-
19 (96 h)		4	0	0	-	4	0	0	-	4	2	0	-	4	1	0	-
21 (144 h)		1	0	0	-	1	0	0	-	1	1	0	-	0	0	0	-
23 (192 h)		4	0	0	-	4	0	0	-	0	0	0	-	0	0	0	-
25 (240 h)		4	0	0	-	4	0	0	-	0	0	0	-	0	0	0	-
27 (288 h)		4	0	0	-	4	0	0	-	0	0	0	-	0	0	0	-
29 (336 h)		1	0	0	T	1	0	0	T	0	0	0	-	0	0	0	-
31 (384 h)		1	0	0	T	1	0	0	T	0	0	0	-	0	0	0	-
33 (432 h)		1	0	0	T	1	0	0	T	0	0	0	-	0	0	0	-
35 (480 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
37 (528 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-

- Inj.: Injection (i.m.) 0: No finding  
X/...: Denotes day of injection/number of injection sites 1: Very slight finding (barely perceptible)  
E: Erythema (grading: see right) 2: Well-defined finding  
Oe: Oedema (grading: see Section 3.8.3) 3: Moderate to severe finding  
I/H: Induration/hardening (by palpation; grading: see Section 3.8.3) 4: Severe finding  
F: Other findings (see right) -: No other finding  
S: Scabby skin  
T: Scar tissue

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

## Assessment of injection sites based on DRAIZE

Group 2: 30 µg BNT162a1/animal

Test day (time p.a.)	Inj.	Animal no. - Females																			
		(46)			(47)			(48)			(49)			(50)							
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F
<u>Treatment period</u>																					
1 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
2 (24 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
3 (48 h)		0	0	0	-	0	2	0	-	0	1	0	-	0	2	0	-	0	1	0	-
5 (96 h)		0	0	0	S	1	0	0	S	1	0	0	S	0	0	0	S	0	0	0	S
7 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
8 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)		0	1	0	-	0	0	0	-	0	1	0	-	0	2	0	-	0	3	0	-
10 (48 h)		0	2	0	-	1	0	0	-	1	2	0	-	1	3	0	-	0	2	0	-
12 (96 h)		0	1	0	-	0	0	0	-	0	1	0	-	0	1	0	-	0	0	0	-
14 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
15 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
16 (24 h)		0	2	0	-	0	2	0	-	0	1	0	-	0	2	0	-	0	2	0	-

Inj.:	Injection (i.m.)	0: No finding
X/...:	Denotes day of injection/number of injection sites	1: Very slight finding (barely perceptible)
E:	Erythema (grading: see right)	2: Well-defined finding
Oe:	Oedema (grading: see Section 3.8.3)	3: Moderate to severe finding
I/H:	Induration/hardening (by palpation; grading: see Section 3.8.3)	4: Severe finding
F:	Other findings (see right)	-: No other finding
		S: Scabby skin

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

## Assessment of injection sites based on DRAIZE

Group 2: 30 µg BNT162a1/animal

Test day (time p.a.)	Inj.	Animal no. - Females																			
		(51)			(52)			(53)			(54)			(55)							
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F
<u>Treatment period</u>																					
1 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
2 (24 h)		0	0	0	-	0	1	0	-	0	0	0	-	0	0	0	-	0	0	0	-
3 (48 h)		0	1	0	-	0	1	0	-	0	1	0	-	0	0	0	-	0	1	0	-
5 (96 h)		1	1	0	S	1	1	0	S	1	0	0	S	0	0	0	S	1	0	0	S
7 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
8 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)		1	2	0	-	1	2	0	-	0	2	0	-	1	3	0	-	1	2	0	-
10 (48 h)		1	2	0	-	1	3	0	-	1	3	0	-	1	3	0	-	1	3	0	-
12 (96 h)		0	0	0	-	0	1	0	-	0	2	0	-	0	2	0	-	0	1	0	-
14 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
15 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
16 (24 h)		0	1	0	-	0	2	0	-	0	1	0	-	0	2	0	-	1	2	0	-

Inj.:	Injection (i.m.)	0: No finding
X/...:	Denotes day of injection/number of injection sites	1: Very slight finding (barely perceptible)
E:	Erythema (grading: see right)	2: Well-defined finding
Oe:	Oedema (grading: see Section 3.8.3)	3: Moderate to severe finding
I/H:	Induration/hardening (by palpation; grading: see Section 3.8.3)	4: Severe finding
F:	Other findings (see right)	-: No other finding
		S: Scabby skin

Three LNP-Formulated RNA Platforms encoding for Viral Proteins  
 TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

Assessment of injection sites based on DRAIZE

Group 2: 30 µg BNT162a1/animal

Test day (time p.a.)	Inj.	Animal no. - Females																			
		(56)			(57)			(58)			(59)			(60)							
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F
<u>Treatment period</u>																					
1 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
2 (24 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
3 (48 h)		0	2	0	-	0	0	0	-	0	2	0	-	0	2	0	-	0	1	0	-
5 (96 h)		0	0	0	S	0	0	0	S	0	1	0	S	0	0	0	S	1	0	0	S
7 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
8 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)		1	2	0	-	0	2	0	-	0	2	0	-	0	3	0	-	0	2	0	-
10 (48 h)		1	2	0	-	0	2	0	-	0	3	0	-	0	3/2	0	-	2	2	0	-
12 (96 h)		0	1	0	-	0	1	0	-	0	1	0	-	0	0	0	-	1	1	0	-
14 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
15 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
16 (24 h)		0	2	0	-	0	1	0	-	0	1	0	-	0	1	0	-	1	2	0	-
<u>Recovery period</u>																					
17 (48 h)		1	2	0	-	0	2	0	-	0	2	0	-	0	1	0	-	0	2	0	-
19 (96 h)		4	2	0	-	4	2	0	-	4	2	0	-	4	1	0	-	4	0/1	0	-
21 (144 h)		1	0	0	-	0	0	0	-	2	0	0	-	2	0	0	-	2	0	0	-
23 (192 h)		0	0	0	-	0	0	0	-	4	0	0	-	4	0	0	-	1	0	0	-
25 (240 h)		0	0	0	-	0	0	0	-	4	1	0	-	4	0	0	-	0	0	0	-
27 (288 h)		0	0	0	-	0	0	0	-	4	1	0	-	4	0	0	-	0	0	0	-
29 (336 h)		0	0	0	-	0	0	0	-	4	0	0	-	4	0	0	-	0	0	0	-
31 (384 h)		0	0	0	-	0	0	0	-	4	0	0	-	4	0	0	-	0	0	0	-
33 (432 h)		0	0	0	-	0	0	0	-	2	0	0	-	2	0	0	-	0	0	0	-
35 (480 h)		0	0	0	-	0	0	0	-	0	0	0	T	0	0	0	T	0	0	0	T
37 (528 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	T

- Inj.: Injection (i.m.)
- X/...: Denotes day of injection/number of injection sites
- E: Erythema (grading: see right)
- Oe: Oedema (grading: see Section 3.8.3)
- I/H: Induration/hardening (by palpation; grading: see Section 3.8.3)
- F: Other findings (see right)
- .../...: Finding noted at left/right administration site  
(if applicable and different severities were noted)
- 0: No finding
- 1: Very slight finding (barely perceptible)
- 2: Well-defined finding
- 3: Moderate to severe finding
- 4: Severe finding
- : No other finding
- S: Scabby skin
- T: Scar tissue

Three LNP-Formulated RNA Platforms encoding for Viral Proteins  
 TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

Assessment of injection sites based on DRAIZE

Group 3: 10 µg BNT162a1/animal

Test day (time p.a.)	Inj.	Animal no. - Males																		
		(61)		(62)		(63)		(64)		(65)										
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F			
<u>Treatment period</u>																				
1 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-			
2 (24 h)	0	1	0	-	0	1	0	-	0	1	0	-	0	1	0	-	0	1	0	
3 (48 h)	0	0	0	-	0	1	0	-	0	1	0	-	0	1	0	-	0	1	0	
5 (96 h)	0	0	0	-	0	0	0	-	0	0	0	-	1	0	0	-	0	0	0	
7 (144 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	
8 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0
9 (24 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	
10 (48 h)	0	3	0	-	0	3	0	-	0	3	0	-	0	2	0	-	0	3	0	
12 (96 h)	0	2	0	-	0	1	0	-	0	0	0	-	0	0	0	-	0	0	0	
14 (144 h)	0	0	0	-	0	0	0	-	0	0	0	-	4	0	0	-	0	0	0	
15 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0
16 (24 h)	0	1	0	-	0	1	0	-	0	0	0	-	0	1	0	-	0	0	0	

Inj.:	Injection (i.m.)	0: No finding
X/...:	Denotes day of injection/number of injection sites	1: Very slight finding (barely perceptible)
E:	Erythema (grading: see right)	2: Well-defined finding
Oe:	Oedema (grading: see Section 3.8.3)	3: Moderate to severe finding
I/H:	Induration/hardening (by palpation; grading: see Section 3.8.3)	4: Severe finding
F:	Other findings (see right)	-: No other finding

Three LNP-Formulated RNA Platforms encoding for Viral Proteins  
 TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

Assessment of injection sites based on DRAIZE

Group 3: 10 µg BNT162a1/animal

Test day (time p.a.)	Inj.	Animal no. - Males															
		(66)			(67)			(68)			(69)			(70)			
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F
<u>Treatment period</u>																	
1 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
2 (24 h)		0	1	0	-	0	0	0	-	0	0	0	-	0	1	0	-
3 (48 h)		0	1	0	-	0	1	0	-	0	0	0	-	0	1	0	-
5 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
7 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
8 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
10 (48 h)		0	2	0	-	0	3	0	-	0	2	0	-	0	2	0	-
12 (96 h)		0	1	0	-	0	1	0	-	0	1	0	-	0	0	0	-
14 (144 h)		0	0	0	-	4	1	0	-	0	0	0	-	4	0	2	-
15 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
16 (24 h)		0	1	0	-	0	2	0	-	1	1	0	-	0	2	0	-

- 
- |        |   |   |
|--------|---|---|
| Inj.:  | Injection (i.m.)  | 0: No finding                               |
| X/...: | Denotes day of injection/number of injection sites              | 1: Very slight finding (barely perceptible) |
| E:     | Erythema (grading: see right)                                   | 2: Well-defined finding                     |
| Oe:    | Oedema (grading: see Section 3.8.3)                             | 3: Moderate to severe finding               |
| I/H:   | Induration/hardening (by palpation; grading: see Section 3.8.3) | 4: Severe finding                           |
| F:     | Other findings (see right)                                      | -: No other finding                         |

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

## Assessment of injection sites based on DRAIZE

Group 3: 10 µg BNT162a1/animal

Test day (time p.a.)	Inj.	Animal no. - Males															
		(71)		(72)		(73)		(74)		(75)							
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F
<u>Treatment period</u>																	
1 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
2 (24 h)		0	0	0	-	0	1	0	-	0	0	0	-	0	0	0	-
3 (48 h)		0	1	0	-	0	1	0	-	0	1	0	-	0	1	0	-
5 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
7 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
8 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)		0	1	0	-	0	0	0	-	0	0	0	-	0	0	0	-
10 (48 h)		0	3	0	-	0	2	0	-	0	2	0	-	0	3	0	-
12 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
14 (144 h)		4	0	0	-	0	0	0	-	4	0	0	-	0	0	0	-
15 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
16 (24 h)		0	1	0	-	0	1	0	-	0	2	0	-	0	1	0	-
<u>Recovery period</u>																	
17 (48 h)		1	0	0	-	1	0	1	-	1	1	0	-	0	2	0	-
19 (96 h)		0	1	0	-	0	0	0	-	0	0	0	-	0	2	0	-
21 (144 h)		0	1	0	-	0	0	0	-	0	0	0	-	0	2	0	-
23 (192 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	3	-
25 (240 h)		0	0	0	-	0	0	0	-	0	1	0	-	0	1	0	-
27 (288 h)		0	0	0	-	0	0	0	-	0	1	0	-	0	1	0	-
29 (336 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
31 (384 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
33 (432 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
35 (480 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
37 (528 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-

- Inj.: Injection (i.m.) 0: No finding  
X/...: Denotes day of injection/number of injection sites 1: Very slight finding (barely perceptible)  
E: Erythema (grading: see right) 2: Well-defined finding  
Oe: Oedema (grading: see Section 3.8.3) 3: Moderate to severe finding  
I/H: Induration/hardening (by palpation; grading: see Section 3.8.3) 4: Severe finding  
F: Other findings (see right) -: No other finding

Three LNP-Formulated RNA Platforms encoding for Viral Proteins  
 TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

Assessment of injection sites based on DRAIZE

Group 3: 10 µg BNT162a1/animal

Test day (time p.a.)	Inj.	Animal no. - Females																			
		(76)			(77)			(78)			(79)			(80)							
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F				
<u>Treatment period</u>																					
1 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-				
2 (24 h)	0	1	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
3 (48 h)	0	1	0	-	0	0	0	-	0	0	0	-	0	1	0	-	0	0	0	-	
5 (96 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
7 (144 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
8 (4 h)	X/1	0	0	0	-	0	1	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)	0	1	0	-	0	1	0	-	0	2	0	-	0	0	0	-	0	1	0	-	
10 (48 h)	0	2	0	-	0	2	0	-	0	2	0	-	0	3	0	-	0	2	0	-	
12 (96 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
14 (144 h)	0	0	0	-	4	0	0	-	0	0	0	-	4	0	0	-	0	0	0	-	
15 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
16 (24 h)	0	1	0	-	0	1	0	-	1	2	0	-	0	2	0	-	0	1	0	-	

Inj.:	Injection (i.m.)	0: No finding
X/...:	Denotes day of injection/number of injection sites	1: Very slight finding (barely perceptible)
E:	Erythema (grading: see right)	2: Well-defined finding
Oe:	Oedema (grading: see Section 3.8.3)	3: Moderate to severe finding
I/H:	Induration/hardening (by palpation; grading: see Section 3.8.3)	4: Severe finding
F:	Other findings (see right)	-: No other finding

Three LNP-Formulated RNA Platforms encoding for Viral Proteins  
 TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

Assessment of injection sites based on DRAIZE

Group 3: 10 µg BNT162a1/animal

Test day (time p.a.)	Inj.	Animal no. - Females															
		(81)		(82)		(83)		(84)		(85)							
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F
<u>Treatment period</u>																	
1 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
2 (24 h)		0	1	0	-	0	0	0	-	0	1	0	-	0	0	0	-
3 (48 h)		0	1	0	-	0	0	0	-	0	1	0	-	0	0	0	-
5 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
7 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
8 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	1	0	-
10 (48 h)		0	2	0	-	0	3	0	-	0	3	0	-	0	3	0	-
12 (96 h)		0	0	0	-	0	0	0	-	0	1	0	-	0	0	0	-
14 (144 h)		0	0	0	-	0	0	0	-	4	0	0	-	0	0	0	-
15 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
16 (24 h)		0	2	0	-	0	1	0	-	0	2	0	-	0	1	0	-

- 
- |        |   |   |
|--------|---|---|
| Inj.:  | Injection (i.m.)  | 0: No finding                               |
| X/...: | Denotes day of injection/number of injection sites              | 1: Very slight finding (barely perceptible) |
| E:     | Erythema (grading: see right)                                   | 2: Well-defined finding                     |
| Oe:    | Oedema (grading: see Section 3.8.3)                             | 3: Moderate to severe finding               |
| I/H:   | Induration/hardening (by palpation; grading: see Section 3.8.3) | 4: Severe finding                           |
| F:     | Other findings (see right)                                      | -: No other finding                         |

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

## Assessment of injection sites based on DRAIZE

Group 3: 10 µg BNT162a1/animal

Test day (time p.a.)	Inj.	Animal no. - Females																			
		(86)			(87)			(88)			(89)			(90)							
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F				
<u>Treatment period</u>																					
1 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-				
2 (24 h)	0	1	0	-	0	0	0	-	0	1	0	-	0	0	0	-	0	1	0	-	
3 (48 h)	0	1	0	-	0	0	0	-	0	1	0	-	0	1	0	-	0	1	0	-	
5 (96 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
7 (144 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
8 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)	0	0	0	-	0	0	0	-	0	1	0	-	0	0	0	-	0	0	0	-	
10 (48 h)	0	3	0	-	0	2	0	-	0	2	0	-	0	3/2	0	-	0	2	0	-	
12 (96 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
14 (144 h)	4	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
15 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
16 (24 h)	0	2	0	-	0	1	0	-	0	1	0	-	0	2	0	-	0	1	0	-	
<u>Recovery period</u>																					
17 (48 h)	1	1	0	-	0	2	0	-	0	2	0	-	0	2	0	-	0	2	0	-	
19 (96 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
21 (144 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
23 (192 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
25 (240 h)	0	0	0	-	0	1	0	-	0	0	0	-	0	1	0	-	0	1	0	-	
27 (288 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
29 (336 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
31 (384 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
33 (432 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
35 (480 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
37 (528 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	

- Inj.: Injection (i.m.) 0: No finding  
X/...: Denotes day of injection/number of injection sites 1: Very slight finding (barely perceptible)  
E: Erythema (grading: see right) 2: Well-defined finding  
Oe: Oedema (grading: see Section 3.8.3) 3: Moderate to severe finding  
I/H: Induration/hardening (by palpation; grading: see Section 3.8.3) 4: Severe finding  
F: Other findings (see right) -: No other finding

Three LNP-Formulated RNA Platforms encoding for Viral Proteins  
 TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

Assessment of injection sites based on DRAIZE

Group 4: 30 µg BNT162b1/animal

Test day (time p.a.)	Inj.	Animal no. - Males																			
		(91)			(92)			(93)			(94)			(95)							
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F
<u>Treatment period</u>																					
1 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
2 (24 h)		0	1	0	-	0	1	0	-	0	2	0	-	0	0	0	-	0	0	0	-
3 (48 h)		0	2	0	-	0	1	0	-	0	2	0	-	0	0	0	-	0	1	0	-
5 (96 h)		0	0	0	-	0	0	0	-	0	1	0	-	0	0	0	-	0	0	0	S
7 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
8 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)		1	2	0	-	0	1	0	-	0	1	0	-	0	1	0	-	0	1	0	-
10 (48 h)		0	3	0	-	0	2	0	-	0	2	0	-	0	1	0	-	0	1	0	-
12 (96 h)		0	1	0	-	0	1	0	-	0	0	0	-	0	0	0	-	0	0	0	-
14 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
15 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
16 (24 h)		0	1	0	-	0	2	0	-	0	1	0	-	0	2	0	-	0	1	0	-

Inj.:	Injection (i.m.)	0: No finding
X/...:	Denotes day of injection/number of injection sites	1: Very slight finding (barely perceptible)
E:	Erythema (grading: see right)	2: Well-defined finding
Oe:	Oedema (grading: see Section 3.8.3)	3: Moderate to severe finding
I/H:	Induration/hardening (by palpation; grading: see Section 3.8.3)	4: Severe finding
F:	Other findings (see right)	-: No other finding
		S: Scabby skin

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

## Assessment of injection sites based on DRAIZE

Group 4: 30 µg BNT162b1/animal

Test day (time p.a.)	Inj.	Animal no. - Males																			
		(96)			(97)			(98)			(99)			(100)							
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F
<u>Treatment period</u>																					
1 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
2 (24 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	1	0	-
3 (48 h)		0	1	0	-	0	0	0	-	0	1	0	-	0	0	0	-	0	1	0	-
5 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	S
7 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
8 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)		0	2	0	-	0	1	0	-	0	1	0	-	1	0	0	-	0	1	0	-
10 (48 h)		0	1	0	-	0	1	0	-	0	1	0	-	0	1	0	-	0	1	0	-
12 (96 h)		0	0	0	-	0	0	0	-	0	1	0	-	0	0	0	-	0	0	0	-
14 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
15 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
16 (24 h)		0	1	0	-	0	1	0	-	0	1	0	-	0	1	0	-	1	1	0	-

Inj.:	Injection (i.m.)	0: No finding
X/...:	Denotes day of injection/number of injection sites	1: Very slight finding (barely perceptible)
E:	Erythema (grading: see right)	2: Well-defined finding
Oe:	Oedema (grading: see Section 3.8.3)	3: Moderate to severe finding
I/H:	Induration/hardening (by palpation; grading: see Section 3.8.3)	4: Severe finding
F:	Other findings (see right)	-: No other finding
		S: Scabby skin

Three LNP-Formulated RNA Platforms encoding for Viral Proteins  
 TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

Assessment of injection sites based on DRAIZE

Group 4: 30 µg BNT162b1/animal

Test day (time p.a.)	Inj.	Animal no. - Males																			
		(101)			(102)			(103)			(104)			(105)							
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F
<u>Treatment period</u>																					
1 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
2 (24 h)	0	1	0	-	0	0	0	-	0	1	0	-	0	2	0	-	0	1	0	-	
3 (48 h)	0	1	0	-	0	0	0	-	0	0	0	-	0	1	0	-	0	1	0	-	
5 (96 h)	0	0	0	-	0	0	0	S	0	0	0	-	0	0	0	-	0	0	0	-	
7 (144 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
8 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)	0	1	0	-	0	1	0	-	1	2	0	-	1	1	0	-	0	1	0	-	
10 (48 h)	0	0	0	-	0	0	0	-	1	1	0	-	0	3/2	0	-	0	0	0	-	
12 (96 h)	0	0	0	-	0	0	0	-	0	1	0	-	0	0	0	-	0	0	0	-	
14 (144 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
15 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
16 (24 h)	0	1	0	-	0	2	0	-	0	2	0	-	0	1	0	-	0	2	0	-	
<u>Recovery period</u>																					
17 (48 h)	0	1	0	-	0	2	0	-	1	2	0	-	0	1	0	-	0	2	0	-	
19 (96 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
21 (144 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
23 (192 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
25 (240 h)	0	0	0	-	0	1	0	-	0	0	0	-	0	0	0	-	0	1	0	-	
27 (288 h)	0	0	0	-	0	1	0	-	0	0	0	-	0	0	0	-	0	1	0	-	
29 (336 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	2	-	
31 (384 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	1	-	
33 (432 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	1	-	
35 (480 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
37 (528 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	

- Inj.: Injection (i.m.)
- X/...: Denotes day of injection/number of injection sites
- E: Erythema (grading: see right)
- Oe: Oedema (grading: see Section 3.8.3)
- I/H: Induration/hardening (by palpation; grading: see Section 3.8.3)
- F: Other findings (see right)
- 0: No finding
- 1: Very slight finding (barely perceptible)
- 2: Well-defined finding
- 3: Moderate to severe finding
- 4: Severe finding
- : No other finding
- S: Scabby skin
- T: Scar tissue

Three LNP-Formulated RNA Platforms encoding for Viral Proteins  
 TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

Assessment of injection sites based on DRAIZE

Group 4: 30 µg BNT162b1/animal

Test day (time p.a.)	Inj.	Animal no. - Females																			
		(106)			(107)			(108)			(109)			(110)							
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F
<u>Treatment period</u>																					
1 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
2 (24 h)		0	2	0	-	0	0	0	-	0	1	0	-	0	2	0	-	0	0	0	-
3 (48 h)		0	1	0	-	0	0	0	-	0	1	0	-	0	2	0	-	0	0	0	-
5 (96 h)		0	0	0	S	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
7 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
8 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)		1	1	0	-	0	1	0	-	0	0	0	-	0	1	0	-	0	1	0	-
10 (48 h)		0	1	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
12 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
14 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
15 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
16 (24 h)		0	1	0	-	0	2	0	-	1	2	0	-	0	1	0	-	0	2	0	-

Inj.:	Injection (i.m.)	0: No finding
X/...:	Denotes day of injection/number of injection sites	1: Very slight finding (barely perceptible)
E:	Erythema (grading: see right)	2: Well-defined finding
Oe:	Oedema (grading: see Section 3.8.3)	3: Moderate to severe finding
I/H:	Induration/hardening (by palpation; grading: see Section 3.8.3)	4: Severe finding
F:	Other findings (see right)	-: No other finding
		S: Scabby skin

Three LNP-Formulated RNA Platforms encoding for Viral Proteins  
 TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

Assessment of injection sites based on DRAIZE

Group 4: 30 µg BNT162b1/animal

Test day (time p.a.)	Inj.	Animal no. - Females																			
		(111)		(112)		(113)		(114)		(115)											
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F				
<u>Treatment period</u>																					
1 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-				
2 (24 h)	0	2	0	-	0	2	0	-	0	1	0	-	0	2	0	-	0	1	0	-	
3 (48 h)	0	1	0	-	0	2	0	-	0	1	0	-	0	2	0	-	0	0	0	-	
5 (96 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	S	0	0	0	-	
7 (144 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
8 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)	0	1	0	-	0	1	0	-	0	1	0	-	0	1	0	-	0	1	0	-	
10 (48 h)	0	1	0	-	0	0	0	-	0	1	0	-	0	1	0	-	0	1	0	-	
12 (96 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
14 (144 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
15 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
16 (24 h)	0	2	0	-	1	1	0	-	0	2	0	-	0	1	0	-	0	2	0	-	

Inj.:	Injection (i.m.)	0: No finding
X/...:	Denotes day of injection/number of injection sites	1: Very slight finding (barely perceptible)
E:	Erythema (grading: see right)	2: Well-defined finding
Oe:	Oedema (grading: see Section 3.8.3)	3: Moderate to severe finding
I/H:	Induration/hardening (by palpation; grading: see Section 3.8.3)	4: Severe finding
F:	Other findings (see right)	-: No other finding
		S: Scabby skin

Three LNP-Formulated RNA Platforms encoding for Viral Proteins  
 TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

Assessment of injection sites based on DRAIZE

Group 4: 30 µg BNT162b1/animal

Test day (time p.a.)	Inj.	Animal no. - Females																			
		(116)			(117)			(118)			(119)			(120)							
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F				
<u>Treatment period</u>																					
1 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-				
2 (24 h)	0	1	0	-	0	2	0	-	0	0	0	-	0	0	0	-	0	1	0	-	
3 (48 h)	0	2	0	-	0	2	0	-	0	1	0	-	0	1	0	-	0	2	0	-	
5 (96 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
7 (144 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
8 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)	0	1	0	-	0	2	0	-	0	1	0	-	0	1	0	-	0	1	0	-	
10 (48 h)	0	1	0	-	0	1	0	-	0	1	0	-	1	3/2	0	-	0	1	0	-	
12 (96 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
14 (144 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
15 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
16 (24 h)	0	1	0	-	0	1	0	-	0	2	0	-	0	2	0	-	0	1	0	-	
<u>Recovery period</u>																					
17 (48 h)	0	1	0	-	0	2	0	-	0	2	0	-	0	1	0	-	0	1	0	-	
19 (96 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
21 (144 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
23 (192 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
25 (240 h)	0	1	0	-	0	0	0	-	0	0	0	-	0	1	0	-	0	0	0	-	
27 (288 h)	0	1	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
29 (336 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
31 (384 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
33 (432 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
35 (480 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
37 (528 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	

- Inj.: Injection (i.m.) 0: No finding  
 X/...: Denotes day of injection/number of injection sites 1: Very slight finding (barely perceptible)  
 E: Erythema (grading: see right) 2: Well-defined finding  
 Oe: Oedema (grading: see Section 3.8.3) 3: Moderate to severe finding  
 I/H: Induration/hardening (by palpation; grading: see Section 3.8.3) 4: Severe finding  
 F: Other findings (see right) -: No other finding  
 S: Scabby skin  
 T: Scar tissue

Three LNP-Formulated RNA Platforms encoding for Viral Proteins  
 TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

Assessment of injection sites based on DRAIZE

Group 5: 100 µg BNT162b1/animal

Test day (time p.a.)	Inj.	Animal no. - Males															
		(121)		(122)		(123)		(124)		(125)							
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F
<u>Treatment period</u>																	
1 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
2 (24 h)	0	1	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0
3 (48 h)	0	1	0	-	0	0	0	-	0	0	0	-	0	0/1	0	-	0 1/0 0
5 (96 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0 0 0
7 (144 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0 0 0
8 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)	0	0	0	-	0	0	0	-	0	1	0	-	0	1/0	0	-	0 0 0
10 (48 h)	0	2	0	-	0	2/3	0	-	0	2	0	-	0	2	0	-	0 1 0
12 (96 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0 0 0
14 (144 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0 0 0
15 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
16 (24 h)	0	2	0	-	0	2	0	-	0	2	0	-	0	3	0	-	0 2 0

Inj.:	Injection (i.m.)	0: No finding
X/...:	Denotes day of injection/number of injection sites	1: Very slight finding (barely perceptible)
E:	Erythema (grading: see right)	2: Well-defined finding
Oe:	Oedema (grading: see Section 3.8.3)	3: Moderate to severe finding
I/H:	Induration/hardening (by palpation; grading: see Section 3.8.3)	4: Severe finding
F:	Other findings (see right)	-: No other finding
.../...:	Finding noted at left/right administration site (if applicable and different severities were noted)	S: Scabby skin

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

## Assessment of injection sites based on DRAIZE

Group 5: 100 µg BNT162b1/animal

Test day (time p.a.)	Inj.	Animal no. - Males																		
		(126)		(127)		(128)		(129)		(130)										
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F			
<u>Treatment period</u>																				
1 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-			
2 (24 h)	0	1	0	-	0	0	0	-	0	0	0	-	0	1	0	-	0	1	0	
3 (48 h)	0	1/0	0	-	0	1	0	-	0	0	0	-	0	0	0	-	0	1/0	0	
5 (96 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	
7 (144 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	
8 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0
9 (24 h)	0	0	0	-	0	1/0	0	-	0	0	0	-	0	1	0	-	0	1/0	0	
10 (48 h)	0	2	0	-	0	3	0	-	0	3	0	-	0	3/2	0	-	0	3/2	0	
12 (96 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	
14 (144 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	
15 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0
16 (24 h)	0	2/3	0	-	0	2	0	-	0	2	0	-	0	2	0	-	0	3	0	

Inj.:	Injection (i.m.)	0: No finding
X/...:	Denotes day of injection/number of injection sites	1: Very slight finding (barely perceptible)
E:	Erythema (grading: see right)	2: Well-defined finding
Oe:	Oedema (grading: see Section 3.8.3)	3: Moderate to severe finding
I/H:	Induration/hardening (by palpation; grading: see Section 3.8.3)	4: Severe finding
F:	Other findings (see right)	-: No other finding
.../...:	Finding noted at left/right administration site (if applicable and different severities were noted)	S: Scabby skin

Three LNP-Formulated RNA Platforms encoding for Viral Proteins  
 TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

Assessment of injection sites based on DRAIZE

Group 5: 100 µg BNT162b1/animal

Test day (time p.a.)	Inj.	Animal no. - Males															
		(131)		(132)		(133)		(134)		(135)							
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F
<u>Treatment period</u>																	
1 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
2 (24 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
3 (48 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	1/0	0	-
5 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
7 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
8 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	1/0	0	-
10 (48 h)		0	2	0	-	0	2	0	-	0	2	0	-	0	3/2	0	-
12 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
14 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
15 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
16 (24 h)		0	3	0	-	0	2	0	-	0	3/2	0	-	0	3	0	-
<u>Recovery period</u>																	
17 (48 h)		0	2/3	0	-	0	2	0	-	0	3	0	-	0	3/2	0	-
19 (96 h)		0	1	0	-	0	0	0	-	0	1	0	-	0	1	0	-
21 (144 h)		0	1	0	-	0	0	0	-	0	1	0	-	0	1	0	-
23 (192 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
25 (240 h)		0	1	0	-	0	0	0	-	0	1	0	-	0	1	0	-
27 (288 h)		0	1	0	-	0	0	0	-	0	0/1	0	-	0	1	0	-
29 (336 h)		0	1	0	-	0	0	0	-	0	1	0	-	0	0	0	-
31 (384 h)		0	1/0	0	-	0	0	0	-	0	1/0	0	-	0	0	0	-
33 (432 h)		0	1/0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
35 (480 h)		0	1/0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
37 (528 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-

- Inj.: Injection (i.m.) 0: No finding  
 X/...: Denotes day of injection/number of injection sites 1: Very slight finding (barely perceptible)  
 E: Erythema (grading: see right) 2: Well-defined finding  
 Oe: Oedema (grading: see Section 3.8.3) 3: Moderate to severe finding  
 I/H: Induration/hardening (by palpation; grading: see Section 3.8.3) 4: Severe finding  
 F: Other findings (see right) -: No other finding  
 .../...: Finding noted at left/right administration site S: Scabby skin  
 (if applicable and different severities were noted)

Three LNP-Formulated RNA Platforms encoding for Viral Proteins  
 TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

Assessment of injection sites based on DRAIZE

Group 5: 100 µg BNT162b1/animal

Test day (time p.a.)	Inj.	Animal no. - Females																			
		(136)			(137)			(138)			(139)			(140)							
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F
<u>Treatment period</u>																					
1 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
2 (24 h)		0	0	0	-	0	0	0	-	0	1	0	-	0	1	0	-	0	1	0	-
3 (48 h)	1	0	0	-	0	0	0	-	0	1	0	-	0	0	0	-	0/1	0/1	0	-	
5 (96 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	1	0	0	-	
7 (144 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
8 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)		0	1/0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
10 (48 h)	0	3	0	-	0	2/3	0	-	0	2	0	-	0	2	0	-	0	3/2	0	-	
12 (96 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
14 (144 h)	4	0	0	-	4	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
15 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
16 (24 h)		0	2	0	-	0	2	0	-	0	2	0	-	0	2	0	-	0	2	0	-

Inj.:	Injection (i.m.)	0: No finding
X/...:	Denotes day of injection/number of injection sites	1: Very slight finding (barely perceptible)
E:	Erythema (grading: see right)	2: Well-defined finding
Oe:	Oedema (grading: see Section 3.8.3)	3: Moderate to severe finding
I/H:	Induration/hardening (by palpation; grading: see Section 3.8.3)	4: Severe finding
F:	Other findings (see right)	-: No other finding
.../...:	Finding noted at left/right administration site (if applicable and different severities were noted)	S: Scabby skin

Three LNP-Formulated RNA Platforms encoding for Viral Proteins  
 TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

Assessment of injection sites based on DRAIZE

Group 5: 100 µg BNT162b1/animal

Test day (time p.a.)	Inj.	Animal no. - Females															
		(141)		(142)		(143)		(144)		(145)							
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F
<u>Treatment period</u>																	
1 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
2 (24 h)		0	0	0	-	0	1	0	-	0	0	0	-	0	1	0	-
3 (48 h)		0	0	0	-	0	0	0	-	1/0	1/0	0	-	0	0	0	-
5 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
7 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
8 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)		0	1/0	0	-	0	0	0	-	0	1/0	0	-	0	1	0	-
10 (48 h)		0	3	0	-	0	3/2	0	-	0	3	0	-	0	3/2	0	-
12 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
14 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
15 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
16 (24 h)		0	2/3	0	-	1/0	2	0	-	0	3	0	-	0	2	0	-

Inj.:	Injection (i.m.)	0: No finding
X/...:	Denotes day of injection/number of injection sites	1: Very slight finding (barely perceptible)
E:	Erythema (grading: see right)	2: Well-defined finding
Oe:	Oedema (grading: see Section 3.8.3)	3: Moderate to severe finding
I/H:	Induration/hardening (by palpation; grading: see Section 3.8.3)	4: Severe finding
F:	Other findings (see right)	-: No other finding
.../...:	Finding noted at left/right administration site (if applicable and different severities were noted)	S: Scabby skin

Three LNP-Formulated RNA Platforms encoding for Viral Proteins  
 TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

Assessment of injection sites based on DRAIZE

Group 5: 100 µg BNT162b1/animal

Test day (time p.a.)	Inj.	Animal no. - Females																		
		(146)		(147)		(148)		(149)		(150)										
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F			
<u>Treatment period</u>																				
1 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	-
2 (24 h)	0	1	0	-	0	1	0	-	0	0	0	-	0	1	0	-	0	0	0	
3 (48 h)	0	1/0	0	-	0	0	0	-	0	0	0	-	0	1/0	0	-	0	0	0	
5 (96 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	1	0	0	
7 (144 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	
8 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	-
9 (24 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	1/0	0	
10 (48 h)	0	2	0	-	0	2	0	-	0	3/2	0	-	0	3/2	0	-	0	3	0	
12 (96 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	
14 (144 h)	4	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	
15 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	-
16 (24 h)	0	2	0	-	0	2	0	-	0	2	0	-	0	3	0	-	0	2	0	
<u>Recovery period</u>																				
17 (48 h)	0	2	0	-	0	2	0	-	0	2	0	-	0	3/2	0	-	0	2	0	
19 (96 h)	0	1	0	-	0	0	0	-	0	0	0	-	0	1	0	-	0	0	0	
21 (144 h)	0	1	0	-	0	0	0	-	0	0	0	-	0	1	0	-	0	0	0	
23 (192 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	
25 (240 h)	0	1/2	0	-	0	1	0	-	0	1	0	-	0	1/0	0	-	0	1	0	
27 (288 h)	0	0/1	0	-	0	1	0	-	0	1	0	-	0	1	0	-	0	1	0	
29 (336 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	
31 (384 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	
33 (432 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	
35 (480 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	
37 (528 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	

- Inj.: Injection (i.m.)
- X/...: Denotes day of injection/number of injection sites
- E: Erythema (grading: see right)
- Oe: Oedema (grading: see Section 3.8.3)
- I/H: Induration/hardening (by palpation; grading: see Section 3.8.3)
- F: Other findings (see right)
- .../...: Finding noted at left/right administration site  
(if applicable and different severities were noted)
- 0: No finding
- 1: Very slight finding (barely perceptible)
- 2: Well-defined finding
- 3: Moderate to severe finding
- 4: Severe finding
- : No other finding
- S: Scabby skin

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

## Assessment of injection sites based on DRAIZE

Group 6: 30 µg BNT162c1/animal

Test day (time p.a.)	Inj.	Animal no. - Males																			
		(151)			(152)			(153)			(154)			(155)							
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F
<u>Treatment period</u>																					
1 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
2 (24 h)		0	0	0	-	0	1	0	-	0	0	0	-	0	0	0	-	0	1	0	-
3 (48 h)		0	1	0	-	0	2	0	-	0	1	0	-	0	0	0	-	0	1	0	-
5 (96 h)		0	0	0	-	0	0	0	-	1	0	0	-	0	0	0	-	0	0	0	-
7 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
8 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	1	0	-	0	0	0	-

Inj.:	Injection (i.m.)	0: No finding
X/...:	Denotes day of injection/number of injection sites	1: Very slight finding (barely perceptible)
E:	Erythema (grading: see right)	2: Well-defined finding
Oe:	Oedema (grading: see Section 3.8.3)	3: Moderate to severe finding
I/H:	Induration/hardening (by palpation; grading: see Section 3.8.3)	4: Severe finding
F:	Other findings (see right)	-: No other finding
.../...:	Finding noted at left/right administration site (if applicable and different severities were noted)	S: Scabby skin

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

## Assessment of injection sites based on DRAIZE

Group 6: 30 µg BNT162c1/animal

Test day (time p.a.)	Inj.	Animal no. - Males															
		(156)		(157)		(158)		(159)		(160)							
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F
<u>Treatment period</u>																	
1 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
2 (24 h)		0	0	0	-	0	1	0	-	0	1	0	-	0	1	0	-
3 (48 h)		0	0	0	-	0	1	0	-	0	1	0	-	0	1	0	-
5 (96 h)		0	0	0	-	0	0	0	-	1	0	0	-	0	0	0	-
7 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
8 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	1	0	-

Inj.:	Injection (i.m.)	0: No finding
X/...:	Denotes day of injection/number of injection sites	1: Very slight finding (barely perceptible)
E:	Erythema (grading: see right)	2: Well-defined finding
Oe:	Oedema (grading: see Section 3.8.3)	3: Moderate to severe finding
I/H:	Induration/hardening (by palpation; grading: see Section 3.8.3)	4: Severe finding
F:	Other findings (see right)	-: No other finding
.../...:	Finding noted at left/right administration site (if applicable and different severities were noted)	S: Scabby skin

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-2

Local Tolerance - Erythema, Oedema, Induration/Hardening

Rat

## Assessment of injection sites based on DRAIZE

Group 6: 30 µg BNT162c1/animal

Test day (time p.a.)	Inj.	Animal no. - Males																			
		(161)		(162)		(163)		(164)		(165)											
E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe
<u>Treatment period</u>																					
1 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
2 (24 h)	0	1	0	-	0	1	0	-	0	1	0	-	0	1	0	-	0	1	0	-	
3 (48 h)	0	1	0	-	0	1	0	-	0	2	0	-	0	1	0	-	0	2	0	-	
5 (96 h)	0	0	0	-	1	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
7 (144 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
8 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)	0	1	0	-	0	0	0	-	0	1	0	-	0	0	0	-	0	0	0	-	
<u>Recovery period</u>																					
10 (48 h)	0	3	0	-	0	4	0	-	0	4	0	-	0	3	0	-	0	3	0	-	
12 (96 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
14 (144 h)	0	0	0	-	4	0	0	-	4	0	0	-	4	0	0	-	4	0	0	-	
16 (192 h)	0	0	0	-	0	2	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
18 (240 h)	0	0	0	-	4	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
20 (288 h)	0	0	0	-	4	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
22 (336 h)	0	0	0	-	4	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
24 (384 h)	0	0	0	-	4	0	0	C	0	0	0	-	0	0	0	-	0	0	0	-	
26 (432 h)	0	0	0	-	1	0	0	C	0	0	0	-	0	0	0	-	0	0	0	-	
28 (480 h)	0	0	0	-	1	0	0	C	0	0	0	-	0	0	0	-	0	0	0	-	
30 (528 h)	0	0	0	-	1	0	0	C	0	0	0	-	0	0	0	-	0	0	0	-	

Inj.:	Injection (i.m.)	0: No finding
X/...:	Denotes day of injection/number of injection sites	1: Very slight finding (barely perceptible)
E:	Erythema (grading: see right)	2: Well-defined finding
Oe:	Oedema (grading: see Section 3.8.3)	3: Moderate to severe finding
I/H:	Induration/hardening (by palpation; grading: see Section 3.8.3)	4: Severe finding
F:	Other findings (see right)	-: No other finding
.../...:	Finding noted at left/right administration site (if applicable and different severities were noted)	C: Incrusted wound / Scar tissue

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

## Assessment of injection sites based on DRAIZE

Group 6: 30 µg BNT162c1/animal

Test day (time p.a.)	Inj.	Animal no. - Females																			
		(166)			(167)			(168)			(169)			(170)							
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F
<u>Treatment period</u>																					
1 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
2 (24 h)	0	1	0	-	0	1	0	-	0	1	0	-	0	1	0	-	0	0	0	-	
3 (48 h)	0	1	0	-	0	1	0	-	0	0	0	-	0	1	0	-	0	1	0	-	
5 (96 h)	0	0	0	-	1	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
7 (144 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
8 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)	0	1	0	-	0	0	0	-	0	1	0	-	0	1	0	-	0	0	0	-	

Inj.:	Injection (i.m.)	0: No finding
X/...:	Denotes day of injection/number of injection sites	1: Very slight finding (barely perceptible)
E:	Erythema (grading: see right)	2: Well-defined finding
Oe:	Oedema (grading: see Section 3.8.3)	3: Moderate to severe finding
I/H:	Induration/hardening (by palpation; grading: see Section 3.8.3)	4: Severe finding
F:	Other findings (see right)	-: No other finding
.../...:	Finding noted at left/right administration site (if applicable and different severities were noted)	S: Scabby skin

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

## Assessment of injection sites based on DRAIZE

Group 6: 30 µg BNT162c1/animal

Test day (time p.a.)	Inj.	Animal no. - Females																		
		(171)		(172)		(173)		(174)		(175)										
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F			
<u>Treatment period</u>																				
1 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0
2 (24 h)	0	1	0	-	0	1	0	-	0	1	0	-	0	1	0	-	0	1	0	
3 (48 h)	0	1	0	-	0	0	0	-	0	0	0	-	0	1	0	-	0	2	0	
5 (96 h)	0	0	0	-	0	1	0	-	0	0	0	-	0	0	0	-	1	0	0	
7 (144 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	
8 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0
9 (24 h)	0	0	0	-	0	1	0	-	0	1	0	-	0	0	0	-	0	1	0	

Inj.:	Injection (i.m.)	0: No finding
X/...:	Denotes day of injection/number of injection sites	1: Very slight finding (barely perceptible)
E:	Erythema (grading: see right)	2: Well-defined finding
Oe:	Oedema (grading: see Section 3.8.3)	3: Moderate to severe finding
I/H:	Induration/hardening (by palpation; grading: see Section 3.8.3)	4: Severe finding
F:	Other findings (see right)	-: No other finding
.../...:	Finding noted at left/right administration site (if applicable and different severities were noted)	S: Scabby skin

Three LNP-Formulated RNA Platforms encoding for Viral Proteins  
**TABLE 1-2** Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

Assessment of injection sites based on DRAIZE

Group 6: 30 µg BNT162c1/animal

Test day (time p.a.)	Inj.	<u>Animal no. - Females</u>																			
		(176)			(177)			(178)			(179)			(180)							
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F
<u>Treatment period</u>																					
1 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
2 (24 h)		0	1	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
3 (48 h)		0	1	0	-	0	0	0	-	0	1	0	-	0	1	0	-	0	1	0	-
5 (96 h)		0	0	0	-	0	0	0	-	1	0	0	-	1	1	0	-	0	0	0	-
7 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
8 (4 h)	X/1	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)		0	1	0	-	0	1	0	-	0	0	0	-	0	0	0	-	0	1	0	-
<u>Recovery period</u>																					
10 (48 h)		0	3	0	-	0	2	0	-	0	3	0	-	0	3	0	-	0	3	0	-
12 (96 h)		0	1	0	-	0	1	0	-	0	0	0	-	0	1	0	-	0	0	0	-
14 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	4	0	0	-	4	0	0	-
16 (192 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
18 (240 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
20 (288 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
22 (336 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
24 (384 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
26 (432 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
28 (480 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
30 (528 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-

Inj.:	Injection (i.m.)	0: No finding
X/...:	Denotes day of injection/number of injection sites	1: Very slight finding (barely perceptible)
E:	Erythema (grading: see right)	2: Well-defined finding
Oe:	Oedema (grading: see Section 3.8.3)	3: Moderate to severe finding
I/H:	Induration/hardening (by palpation; grading: see Section 3.8.3)	4: Severe finding
F:	Other findings (see right)	-: No other finding
.../...:	Finding noted at left/right administration site (if applicable and different severities were noted)	S: Scabby skin

Three LNP-Formulated RNA Platforms encoding for Viral Proteins  
 TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

Assessment of injection sites based on DRAIZE

Group 7: 100 µg BNT162b2/animal

Test day (time p.a.)	Inj.	Animal no. - Males															
		(181)		(182)		(183)		(184)		(185)							
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F
<u>Treatment period</u>																	
1 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
2 (24 h)		0	0	0	-	0	0/1	0	-	0	0/1	0	-	0	1	0	-
3 (48 h)		0	1	0	-	0	0/1	0	-	0	1	0	-	0	1	0	-
5 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
7 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
8 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	1/0	0	-
10 (48 h)		0	3	0	-	0	3	0	-	0	3/2	0	-	0	3/2	0	-
12 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
14 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
15 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
16 (24 h)		0	3	0	-	0	3	0	-	0	2	0	-	0	3	0	-

Inj.:	Injection (i.m.)	0: No finding
X/...:	Denotes day of injection/number of injection sites	1: Very slight finding (barely perceptible)
E:	Erythema (grading: see right)	2: Well-defined finding
Oe:	Oedema (grading: see Section 3.8.3)	3: Moderate to severe finding
I/H:	Induration/hardening (by palpation; grading: see Section 3.8.3)	4: Severe finding
F:	Other findings (see right)	-: No other finding
.../...:	Finding noted at left/right administration site (if applicable and different severities were noted)	S: Scabby skin

Three LNP-Formulated RNA Platforms encoding for Viral Proteins  
 TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

Assessment of injection sites based on DRAIZE

Group 7: 100 µg BNT162b2/animal

Test day (time p.a.)	Inj.	Animal no. - Males															
		(186)		(187)		(188)		(189)		(190)							
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F
<u>Treatment period</u>																	
1 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
2 (24 h)		0	0	0	-	0	1/0	0	-	0	1/0	0	-	0	1/0	0	-
3 (48 h)		0	0/1	0	-	0	0	0	-	0	0	0	-	0	1/0	0	-
5 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
7 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
8 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)		0	0	0	-	0	1/0	0	-	0	1/0	0	-	0	0	0	-
10 (48 h)		0	2	0	-	0	3/2	0	-	0	2	0	-	0	3	0	-
12 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
14 (144 h)		0	0	0	-	0	0	0	-	4	0	0	-	4	0	0	-
15 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
16 (24 h)		0	3	0	-	0	3	0	-	0	3	0	-	0	3	0	-

Inj.:	Injection (i.m.)	0: No finding
X/...:	Denotes day of injection/number of injection sites	1: Very slight finding (barely perceptible)
E:	Erythema (grading: see right)	2: Well-defined finding
Oe:	Oedema (grading: see Section 3.8.3)	3: Moderate to severe finding
I/H:	Induration/hardening (by palpation; grading: see Section 3.8.3)	4: Severe finding
F:	Other findings (see right)	-: No other finding
.../...:	Finding noted at left/right administration site (if applicable and different severities were noted)	S: Scabby skin

## Amendment No. 1 to Final Report

## Three LNP-Formulated RNA Platforms encoding for Viral Proteins

## Assessment of injection sites based on DRAIZE

### Group 7: 100 µg BNT162b2/animal

Test day (time p.a.)	Inj.	Animal no. - Males																			
		(191)				(192)				(193)				(194)				(195)			
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F
<u>Treatment period</u>																					
1 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
2 (24 h)		0	1	0	-	0	1	0	-	0	0	0	-	0	0/1	0	-	0	1/0	0	-
3 (48 h)		0	0	0	-	0	0	0	-	0	1/0	0	-	0	0	0	-	0	0	0	-
5 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
7 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
8 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)		0	1/0	0	-	0	0	0	-	0	1/0	0	-	0	0	0	-	0	1	0	-
10 (48 h)		0	2	0	-	0	3	0	-	0	3/2	0	-	0	3/2	0	-	0	2	0	-
12 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
14 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
15 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
16 (24 h)		0	3	0	-	0	3	0	-	0	3/4	0	-	0	3	0	-	0	3/4	0	-
<u>Recovery period</u>																					
17 (48 h)	1/0	3/2	0	-	0	3	0	-	0	3	0	-	0	2/3	0	-	0	2	0	-	
19 (96 h)	0	1	0	-	0	2	0	-	0	1	0	-	0	2	0	-	0	1	0	-	
21 (144 h)	0	1	0	-	0	2	0	-	0	1	0	-	0	2	0	-	0	1	0	-	
23 (192 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
25 (240 h)	0	1/2	0	-	0	1/2	0	-	0	2	0	-	0	1/2	0	-	0	1	0	-	
27 (288 h)	0	1	0	-	0	1/2	0	-	0	2	0	-	0	1/0	0	-	0	1	0	-	
29 (336 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
31 (384 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	
33 (432 h)	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	

Inj.:	Injection (i.m.)	0: No finding
X/...:	Denotes day of injection/number of injection sites	1: Very slight finding (barely perceptible)
E:	Erythema (grading: see right)	2: Well-defined finding
Oe:	Oedema (grading: see Section 3.8.3)	3: Moderate to severe finding
I/H:	Induration/hardening (by palpation; grading: see Section 3.8.3)	4: Severe finding
F:	Other findings (see right)	-: No other finding
.../...:	Finding noted at left/right administration site (if applicable and different severities were noted)	

Three LNP-Formulated RNA Platforms encoding for Viral Proteins  
 TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

Assessment of injection sites based on DRAIZE

Group 7: 100 µg BNT162b2/animal

Test day (time p.a.)	Inj.	Animal no. - Females																			
		(196)			(197)			(198)			(199)			(200)							
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F
<u>Treatment period</u>																					
1 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
2 (24 h)		0	0	0	-	0	1/0	0	-	0	0/1	0	-	0	0	0	-	0	1/0	0	-
3 (48 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
5 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-	1	0	0	-	0	0	0	-
7 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
8 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)		0	0/1	0	-	0	0	0	-	0	0	0	-	0	1/0	0	-	0	1	0	-
10 (48 h)		0	2	0	-	0	2	0	-	0	1	0	-	0	1	0	-	0	3/2	0	-
12 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
14 (144 h)		0	0	0	-	0	0	0	-	4/0	0	0	-	4	0	0	-	0	0	0	-
15 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
16 (24 h)		0	3	0	-	0	2	0	-	0	2/3	0	-	0	2/3	0	-	0	3	0	-

Inj.:	Injection (i.m.)	0: No finding
X/...:	Denotes day of injection/number of injection sites	1: Very slight finding (barely perceptible)
E:	Erythema (grading: see right)	2: Well-defined finding
Oe:	Oedema (grading: see Section 3.8.3)	3: Moderate to severe finding
I/H:	Induration/hardening (by palpation; grading: see Section 3.8.3)	4: Severe finding
F:	Other findings (see right)	-: No other finding
.../...:	Finding at left/right administration site, if different (if applicable and different severities were noted)	S: Scabby skin

Three LNP-Formulated RNA Platforms encoding for Viral Proteins  
 TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

Assessment of injection sites based on DRAIZE

Group 7: 100 µg BNT162b2/animal

Test day (time p.a.)	Inj.	Animal no. - Females																		
		(201)		(202)		(203)		(204)		(205)										
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F			
<u>Treatment period</u>																				
1 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	-
2 (24 h)		0	0	0	-	0	1	0	-	0	1	0	-	0	0/1	0	-	0	1	0
3 (48 h)		0	0	0	-	0	0	0	-	0	1/0	0	-	0	0	0	-	0	0	0
5 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0
7 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0
8 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	-
9 (24 h)		0	1/0	0	-	0	0	0	-	0	0/1	0	-	0	0	0	-	0	0	0
10 (48 h)		0	2	0	-	0	2	0	-	0	3/2	0	-	0	3	0	-	0	1	0
12 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0
14 (144 h)		4	0	0	-	4	0	0	-	0	0	0	-	0	0	0	-	0	0	0
15 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	-
16 (24 h)		0	3	0	-	0	3	0	-	0	2	0	-	0	3	0	-	0	2/3	0

Inj.:	Injection (i.m.)	0: No finding
X/...:	Denotes day of injection/number of injection sites	1: Very slight finding (barely perceptible)
E:	Erythema (grading: see right)	2: Well-defined finding
Oe:	Oedema (grading: see Section 3.8.3)	3: Moderate to severe finding
I/H:	Induration/hardening (by palpation; grading: see Section 3.8.3)	4: Severe finding
F:	Other findings (see right)	-: No other finding
.../...:	Finding at left/right administration site, if different (if applicable and different severities were noted)	S: Scabby skin

Three LNP-Formulated RNA Platforms encoding for Viral Proteins  
 TABLE 1-2 Local Tolerance - Erythema, Oedema, Induration/Hardening Rat

Assessment of injection sites based on DRAIZE

Group 7: 100 µg BNT162b2/animal

Test day (time p.a.)	Inj.	Animal no. - Females															
		(206)		(207)		(208)		(209)		(210)							
		E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F	E	Oe	I/H	F
<u>Treatment period</u>																	
1 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
2 (24 h)		0	1/0	0	-	0	1	0	-	0	1/0	0	-	0	1	0	-
3 (48 h)		0	0	0	-	0	0/1	0	-	0	0	0	-	0	0	0	-
5 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-	1	0	0	-
7 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
8 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
9 (24 h)		0	0	0	-	0	1/0	0	-	0	0	0	-	0	1	0	-
10 (48 h)		0	3	0	-	0	2	0	-	0	2/1	0	-	0	3/2	0	-
12 (96 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
14 (144 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
15 (4 h)	X/2	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
16 (24 h)		0	3/4	0	-	0	3	0	-	0	2/3	0	-	0	3	0	-
<u>Recovery period</u>																	
17 (48 h)		1/0	2/3	0	-	0	1/2	0	-	0	1	0	-	1/0	2	0	-
19 (96 h)		0	2	0	-	0	0	0	-	0	0/1	0	-	0	2/1	0	-
21 (144 h)		0	1	0	-	0	0	0	-	0	0/1	0	-	0	2/1	0	-
23 (192 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
25 (240 h)		0	1	0	-	0	1	0	-	0	1	0	-	0	1/2	0	-
27 (288 h)		0	1	0	-	0	0/1	0	-	0	1	0	-	0	1/2	0	-
29 (336 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
31 (384 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
33 (432 h)		0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-

- Inj.: Injection (i.m.)
- X/...: Denotes day of injection/number of injection sites
- E: Erythema (grading: see right)
- Oe: Oedema (grading: see Section 3.8.3)
- I/H: Induration/hardening (by palpation; grading: see Section 3.8.3)
- F: Other findings (see right)
- .../...: Finding at left/right administration site, if different (if applicable and different severities were noted)
- 0: No finding
- 1: Very slight finding (barely perceptible)
- 2: Well-defined finding
- 3: Moderate to severe finding
- 4: Severe finding
- : No other finding

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 2-1 Clinical Signs - Systemic Tolerance - Summary -

	Observation Type: All Types Sex: Male From Day 1 (Start Date) to 38 (Start Date)	Rat						
		Group 1: Control BNT162a1	Group 2: 30 µg/ animal BNT162a1	Group 3: 10 µg/ animal BNT162a1	Group 4: 30 µg/ animal BNT162b1	Group 5: 100 µg/ animal BNT162b1	Group 6: 30 µg/ animal BNT162c1	Group 7: 100 µg/ animal BNT162b2
<b>Normal</b>								
Number of Animals Affected		15	15	15	15	15	15	15
First to Last seen		1 - 38	1 - 38	1 - 38	1 - 38	1 - 38	1 - 31	1 - 38
% of Affected Animals		100	100	100	100	100	100	100
Number of Times Recorded		360	360	360	360	360	255	360
<b>Scheduled Removal (Terminal)</b>								
Number of Animals Affected		15	15	15	15	15	15	15
First to Last seen		17 - 38	17 - 38	17 - 38	17 - 38	17 - 38	10 - 31	17 - 38
% of Affected Animals		100	100	100	100	100	100	100
Number of Times Recorded		15	15	15	15	15	15	15

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 2-1 Clinical Signs - Systemic Tolerance - Summary -

		Rat						
		Group 1: Control	Group 2: 30 µg/ animal	Group 3: 10 µg/ animal	Group 4: 30 µg/ animal	Group 5: 100 µg/ animal	Group 6: 30 µg/ animal	Group 7: 100 µg/ animal
		BNT162a1	BNT162a1	BNT162a1	BNT162b1	BNT162b1	BNT162c1	BNT162b2
<b>Normal</b>								
Number of Animals Affected		15	15	15	15	15	15	15
First to Last seen		1 - 38	1 - 38	1 - 38	1 - 38	1 - 38	1 - 31	1 - 38
% of Affected Animals		100	100	100	100	100	100	100
Number of Times Recorded		360	360	360	360	360	255	360
<b>Scheduled Removal (Terminal)</b>								
Number of Animals Affected		15	15	15	15	15	15	15
First to Last seen		17 - 38	17 - 38	17 - 38	17 - 38	17 - 38	10 - 31	17 - 38
% of Affected Animals		100	100	100	100	100	100	100
Number of Times Recorded		15	15	15	15	15	15	15

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 2-2  
Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 1: Control Sex: Male	Observation Type: All Types	Day(s) Relative to Start Date																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
2	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
3	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
5	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
6	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
7	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
8	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
9	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
10	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
11	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
12	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
13	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
 RNA Platforms encoding for Viral Proteins

TABLE 2-2 Clinical Signs - Systemic Tolerance  
 - Individual Data -

Group 1: Sex: Male	Observation Type: All Types	Day(s) Relative to Start Date																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
14	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
15	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

N=Normal

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 1: Control Sex: Male	Observation Type: All Types	Day(s) Relative to Start Date																
		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
1	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
3	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
4	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
5	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
6	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
7	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
8	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
9	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
10	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
11	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K
12	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	.
13	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 2-2  
Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 1: Sex: Male	Observation Type: All Types	Day(s) Relative to Start Date																
		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
14	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
15	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 2: 30 µg/ animal BNT162a1 Sex: Male	Observation Type: All Types	Day(s) Relative to Start Date																					Rate
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
31	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
32	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
33	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
34	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
35	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
36	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
37	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
38	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
39	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
40	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
41	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
42	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 2: 30 µg/ animal BNT162a1 Sex: Male	Observation Type: All Types	Day(s) Relative to Start Date																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
43	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
44	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
45	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

N=Normal

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 2: 30 µg/ animal BNT162a1 Sex: Male	Observation Type: All Types	Day(s) Relative to Start Date															
		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
31	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
32	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
33	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
34	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
35	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
36	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
37	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
38	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
39	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
40	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
41	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K	N
42	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 2: 30 µg/ animal BNT162a1 Sex: Male	Observation Type: All Types	Day(s) Relative to Start Date																
		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
43	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
44	Normal Scheduled Removal (Terminal)	.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K
45	Normal Scheduled Removal (Terminal)	.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	.

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 3: 10 µg/ animal BNT162a1 Sex: Male	Observation Type: All Types	Day(s) Relative to Start Date																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
61	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
62	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
63	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
64	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
65	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
66	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
67	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
68	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
69	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
70	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
71	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
72	Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 3: 10 µg/ animal BNT162a1 Sex: Male	Observation Type: All Types	Day(s) Relative to Start Date																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
73	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
74	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
75	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

N=Normal

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 2-2

Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 3: 10 µg/ animal BNT162a1 Sex: Male	Observation Type: All Types	Day(s) Relative to Start Date															
		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
61	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
62	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
63	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
64	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
65	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
66	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
67	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
68	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
69	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
70	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
71	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K	N
72	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 3: 10 µg/ animal BNT162a1 Sex: Male	Observation Type: All Types	Day(s) Relative to Start Date																
		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
73	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
74	Normal Scheduled Removal (Terminal)	.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K
75	Normal Scheduled Removal (Terminal)	.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	.

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 2-2      Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 4: 30 µg/ animal BNT162b1 Sex: Male	Observation Type: All Types	Day(s) Relative to Start Date																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
91	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
92	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
93	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
94	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
95	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
96	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
97	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
98	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
99	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
100	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
101	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
102	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 4: 30 µg/ animal BNT162b1 Sex: Male	Observation Type: All Types	Day(s) Relative to Start Date																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
103	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
104	Normal Scheduled Removal (Terminal)	.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
105	Normal Scheduled Removal (Terminal)	.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

N=Normal

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 4: 30 µg/ animal BNT162b1 Sex: Male	Observation Type: All Types	Day(s) Relative to Start Date															
		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
91	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
92	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
93	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
94	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
95	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
96	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
97	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
98	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
99	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
100	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
101	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K	N
102	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 4: 30 µg/ animal BNT162b1 Sex: Male	Observation Type: All Types	Day(s) Relative to Start Date																
		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
103	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
104	Normal Scheduled Removal (Terminal)	.	N	N	N	N	N	N	N	N	N	N	N	N	N	.	K	.
105	Normal Scheduled Removal (Terminal)	.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	.

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 2-2      Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 5: 100 µg/ animal BNT162b1 Sex: Male	Observation Type: All Types	Day(s) Relative to Start Date																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
121	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
122	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
123	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
124	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
125	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
126	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
127	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
128	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
129	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
130	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
131	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
132	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 2-2  
Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 5: 100 µg/ animal BNT162b1 Sex: Male	Observation Type: All Types	Day(s) Relative to Start Date																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
133	Normal	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	Scheduled Removal (Terminal)	.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
134	Normal	.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	Scheduled Removal (Terminal)	.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
135	Normal	.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	Scheduled Removal (Terminal)	.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

N=Normal

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 5: 100 µg/ animal BNT162b1 Sex: Male	Observation Type: All Types	Day(s) Relative to Start Date															
		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
121	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
122	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
123	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
124	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
125	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
126	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
127	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
128	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
129	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	N	N
130	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K
131	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
132	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 5: 100 µg/ animal BNT162b1 Sex: Male	Observation Type: All Types	Day(s) Relative to Start Date																
		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
133	Normal	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	Scheduled Removal (Terminal)	.	N	N	N	N	N	N	N	N	N	N	N	N	N	.	K	.
134	Normal	.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	Scheduled Removal (Terminal)	.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
135	Normal	.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	K

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 2-2      Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 6: 30 µg/ animal BNT162c1 Sex: Male	Observation Type: All Types	Day(s) Relative to Start Date																					Rate
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
151	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K	.	.	.	.
152	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	.
153	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	.
154	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	.
155	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	.
156	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	.
157	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	.
158	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	.
159	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	.
160	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	.
161	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	.
162	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	.

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 6: 30 µg/ animal BNT162c1 Sex: Male	Observation Type: All Types	Day(s) Relative to Start Date																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
163	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
164	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
165	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

N=Normal

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 2-2      Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 6: 30 µg/ animal BNT162c1 Sex: Male	Observation Type: All Types	Day(s) Relative to Start Date												Rate				
		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
151	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
152	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
153	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
154	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
155	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
156	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
157	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
158	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
159	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
160	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	K	.	.	.
161	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K
162	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 6: 30 µg/ animal BNT162c1 Sex: Male	Observation Type: All Types	Day(s) Relative to Start Date																
		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
163	Normal Scheduled Removal (Terminal) Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
164	Normal Scheduled Removal (Terminal)	.	N	N	N	N	N	N	N	N	N	N	N	N	N	K	.	.
165	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 2-2      Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 7: 100 µg/ animal BNT162b2 Sex: Male	Observation Type: All Types	Day(s) Relative to Start Date																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
181	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
182	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
183	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
184	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
185	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
186	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
187	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
188	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
189	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
190	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
191	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
192	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 7: 100 µg/ animal BNT162b2 Sex: Male	Observation Type: All Types	Day(s) Relative to Start Date																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
193	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
194	Normal Scheduled Removal (Terminal)	.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
195	Normal Scheduled Removal (Terminal)	.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

N=Normal

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 7: 100 µg/ animal BNT162b2 Sex: Male	Observation Type: All Types	Day(s) Relative to Start Date															
		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
181	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
182	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
183	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
184	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
185	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
186	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
187	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
188	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
189	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
190	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
191	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K	N
192	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 7: 100 µg/ animal BNT162b2 Sex: Male	Observation Type: All Types	Day(s) Relative to Start Date																
		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
193	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
194	Normal Scheduled Removal (Terminal)	.	N	N	N	N	N	N	N	N	N	N	N	N	N	.	K	.
195	Normal Scheduled Removal (Terminal)	.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	.

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 1: Control Sex: Female	Observation Type: All Types	Day(s) Relative to Start Date																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
16	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
17	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
18	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
19	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
20	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
21	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
22	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
23	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
24	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
25	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
26	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
27	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
28	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
 RNA Platforms encoding for Viral Proteins

TABLE 2-2 Clinical Signs - Systemic Tolerance  
 - Individual Data -

Group 1: Control Sex: Female	Observation Type: All Types	Day(s) Relative to Start Date																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
29	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
30	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

N=Normal

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 1: Control Sex: Female	Observation Type: All Types	Day(s) Relative to Start Date																
		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
16	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
17	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
18	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
19	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
20	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
21	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
22	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
23	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
24	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
25	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	N	K	.
26	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
27	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
28	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 2-2  
Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 1: Control Sex: Female	Observation Type: All Types	Day(s) Relative to Start Date																
		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
29	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
30	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 2-2      Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 2: 30 µg/ animal BNT162a1 Sex: Female	Observation Type: All Types	Day(s) Relative to Start Date																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
46	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
47	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
48	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
49	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
50	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
51	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
52	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
53	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
54	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
55	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
56	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
57	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 2: 30 µg/ animal BNT162a1 Sex: Female	Observation Type: All Types	Day(s) Relative to Start Date																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
58	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
59	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
60	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

N=Normal

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 2-2

Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 2: 30 µg/ animal BNT162a1 Sex: Female	Observation Type: All Types	Day(s) Relative to Start Date												Rate				
		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
46	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
47	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
48	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
49	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
50	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
51	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
52	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	N	N	N
53	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	N	N	N
54	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	N	N	N
55	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K
56	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K
57	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 2: 30 µg/ animal BNT162a1 Sex: Female	Observation Type: All Types	Day(s) Relative to Start Date																
		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
58	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
59	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K
60	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	.

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 3: 10 µg/ animal BNT162a1 Sex: Female	Observation Type: All Types	Day(s) Relative to Start Date																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
76	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
77	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
78	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
79	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
80	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
81	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
82	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
83	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
84	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
85	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
86	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
87	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 3: 10 µg/ animal BNT162a1 Sex: Female	Observation Type: All Types	Day(s) Relative to Start Date																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
88	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
89	Normal Scheduled Removal (Terminal)	.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
90	Normal Scheduled Removal (Terminal)	.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

N=Normal

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 2-2 Clinical Signs - Systemic Tolerance - Individual Data -

Group 3: 10 µg/ animal BNT162a1 Sex: Female	Observation Type: All Types	Day(s) Relative to Start Date															
		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
76	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
77	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
78	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
79	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
80	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
81	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
82	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	N	N
83	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	N	N	N
84	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	N	N	N
85	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	N	N	N
86	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	N	N	N
87	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	N	N	K

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 3: 10 µg/ animal BNT162a1 Sex: Female	Observation Type: All Types	Day(s) Relative to Start Date																
		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
88	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
89	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K
90	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	.

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 4: 30 µg/ animal BNT162b1 Sex: Female	Observation Type: All Types	Day(s) Relative to Start Date																					Rate
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
106	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
107	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
108	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
109	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
110	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
111	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
112	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
113	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
114	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
115	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
116	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
117	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 2-2  
Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 4: 30 µg/ animal BNT162b1 Sex: Female	Observation Type: All Types	Day(s) Relative to Start Date																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
118	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
119	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
120	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

N=Normal

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 4: 30 µg/ animal BNT162b1 Sex: Female	Observation Type: All Types	Day(s) Relative to Start Date												Rate				
		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
106	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
107	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
108	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
109	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
110	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
111	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
112	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	N	N	N
113	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	N	N	N
114	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	N	N	N
115	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
116	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K	N	N
117	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 4: 30 µg/ animal BNT162b1 Sex: Female	Observation Type: All Types	Day(s) Relative to Start Date																
		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
118	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
119	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K
120	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	.

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 5: 100 µg/ animal BNT162b1 Sex: Female	Observation Type: All Types	Day(s) Relative to Start Date																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
136	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
137	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
138	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
139	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
140	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
141	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
142	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
143	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
144	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
145	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
146	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
147	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 5: 100 µg/ animal BNT162b1 Sex: Female	Observation Type: All Types	Day(s) Relative to Start Date																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
148	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
149	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
150	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

N=Normal

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 5: 100 µg/ animal BNT162b1 Sex: Female	Observation Type: All Types	Day(s) Relative to Start Date												Rate				
		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
136	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
137	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
138	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
139	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
140	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
141	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
142	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	N	N	N
143	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	N	N	N
144	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	N	N	N
145	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
146	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K	N	N
147	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 5: 100 µg/ animal BNT162b1 Sex: Female	Observation Type: All Types	Day(s) Relative to Start Date																
		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
148	Normal	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	Scheduled Removal (Terminal)	.	N	N	N	N	N	N	N	N	N	N	N	N	N	.	K	.
149	Normal	.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	Scheduled Removal (Terminal)	.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
150	Normal	.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	K

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 2-2  
Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 6: 30 µg/ animal BNT162c1 Sex: Female	Observation Type: All Types	Day(s) Relative to Start Date																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
166	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K	.	.
167	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
168	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
169	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
170	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
171	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
172	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
173	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
174	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
175	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
176	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
177	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 2-2  
Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 6: 30 µg/ animal BNT162c1 Sex: Female	Observation Type: All Types	Day(s) Relative to Start Date																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
178	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
179	Normal Scheduled Removal (Terminal)	.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
180	Normal Scheduled Removal (Terminal)	.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

N=Normal

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 2-2      Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 6: 30 µg/ animal BNT162c1 Sex: Female	Observation Type: All Types	Day(s) Relative to Start Date												Rate				
		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
166	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
167	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
168	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
169	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
170	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
171	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
172	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
173	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
174	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
175	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
176	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	K	.	.	.	.	.
177	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K	.

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 6: 30 µg/ animal BNT162c1 Sex: Female	Observation Type: All Types	Day(s) Relative to Start Date																
		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
178	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
179	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
180	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 2-2      Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 7: 100 µg/ animal BNT162b2 Sex: Female	Observation Type: All Types	Day(s) Relative to Start Date																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
196	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
197	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
198	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
199	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
200	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
201	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
202	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
203	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
204	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
205	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
206	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
207	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 7: 100 µg/ animal BNT162b2 Sex: Female	Observation Type: All Types	Day(s) Relative to Start Date																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
208	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
209	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
210	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

N=Normal

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 7: 100 µg/ animal BNT162b2 Sex: Female	Observation Type: All Types	Day(s) Relative to Start Date												Rate				
		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
196	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
197	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
198	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
199	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
200	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
201	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
202	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
203	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
204	Normal Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
205	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
206	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K	N
207	Normal Scheduled Removal (Terminal)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	K

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 2-2 Clinical Signs - Systemic Tolerance  
- Individual Data -

Group 7: 100 µg/ animal BNT162b2 Sex: Female	Observation Type: All Types	Day(s) Relative to Start Date																
		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
208	Normal	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	Scheduled Removal (Terminal)	.	N	N	N	N	N	N	N	N	N	N	N	N	N	.	K	.
209	Normal	.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	Scheduled Removal (Terminal)	.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
210	Normal	.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	Scheduled Removal (Terminal)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	K

N=Normal; K=Scheduled Removal

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-1 Body Weight - Summary

Sex: Male				Day(s) Relative to Start Date						
				-7 [a1]	-1 [a]	1 [a]	2 [a]	8 [a]	9 [a]	15 [a]
Group 1: Control	Mean SD N	-	-	257.62 6.64 15	263.53 7.58 15	268.90 6.51 15	310.87 12.03 15	319.78 13.46 15	356.29 12.27 15	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	-	-	257.65 6.69 15 0.0	261.61 6.31 15 -0.7	250.35** 8.19 15 -6.9	293.50** 8.11 15 -5.6	277.99** 9.29 15 -13.1	315.29** 16.84 15 -11.5	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	258.94n 24.65 15	-	314.03** - -	303.03** 21.12 15	342.02** 21.80 15	323.25 23.55 15	363.25 23.99 15	363.25 25.67 15	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	-	257.79 - - 0.1	263.16 5.64 15 -0.1	256.27** 5.36 15 -4.7	304.49 7.53 15 -2.1	298.98* 8.06 15 -6.5	337.96* 13.00 15 -5.1	337.96* 13.00 15 -5.1	

[a] - Anova & Dunnett(Rank): \* = p ≤ 0.05, \*\* = p ≤ 0.01  
 [a1] - Anova & Dunnett: n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-1

Body Weight - Summary

Sex: Male				Day(s) Relative to Start Date						
				1	2	8	9	15		
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	256.81n 17.84 15	-7 - -	309.21** 19.73 15	281.83 19.55 15	321.17 20.99 15	298.54** 24.02 15	347.63 26.28 15		
Group 6: 30 µg/ animal BNT162c1	Mean SD N %Diff	258.01n 19.50 15	- - -	308.23** 17.40 15	293.50** 18.46 15	325.49 24.01 15	305.99 22.53 15	348.50 26.54 5		
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	257.88n 19.55 15	- - -	305.63** 20.51 15	283.37 22.56 15	317.95 20.59 15	293.24** 21.98 15	341.19 21.54 15		
										-4.2

Anova &amp; Dunnett: \*\* = p ≤ 0.01; n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-1

Body Weight - Summary

Sex: Male				Day(s) Relative to Start Date						
				16 [a]	18 [a1]	22 [a1]	25 [a1]	29 [a1]	30 [a1]	32 [a1]
Group 1: Control	Mean SD N	361.27 11.98 15	362.44 13.75 5	380.10 19.57 5	385.68 16.43 5	409.78 15.77 5	-	-	-	418.86 12.26 5
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	301.04** 13.62 15 -16.7	319.16* 14.28 5 -11.9	343.06 16.70 5 -9.7	360.54 17.61 5 -6.5	392.18 15.75 5 -4.3	-	-	-	398.86 18.07 5 -4.8
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	351.17 25.67 15 -2.8	368.34 30.64 5 1.6	389.26 27.89 5 2.4	410.54 32.77 5 6.4	422.70 35.01 5 3.2	-	-	-	426.70 34.60 5 1.9
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	329.54** 11.94 15 -8.8	354.12 16.10 5 -2.3	374.26 16.54 5 -1.5	389.04 28.23 5 0.9	410.94 33.61 5 0.3	-	-	-	420.22 42.19 5 0.3

[a] - Anova & Dunnett(Rank): \*\* = p ≤ 0.01  
 [a1] - Anova & Dunnett: \* = p ≤ 0.05

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-1

Body Weight - Summary

Sex: Male		Day(s) Relative to Start Date						
		16	18	22	25	29	30	32
Group 5: 100 µg/ animal	Mean SD N %Diff	327.82** 28.27 15 -9.3	351.28 23.29 5 -3.1	369.70 24.59 5 -2.7	393.08 29.03 5 1.9	407.76 28.89 5 -0.5	- - -	414.80 28.04 5 -1.0
Group 6: 30 µg/ animal	Mean SD N %Diff	- - - -	366.86 35.54 5 1.2	386.92 36.88 5 1.8	400.70 33.35 5 3.9	403.28 27.03 5 -1.6	404.96n 30.01 5 -	- - -
Group 7: 100 µg/ animal	Mean SD N %Diff	320.31** 22.86 15 -11.3	339.30 27.06 5 -6.4	362.72 24.85 5 -4.6	382.86 26.36 5 -0.7	397.60 26.87 5 -3.0	- - -	405.80 29.28 5 -3.1

Anova &amp; Dunnett: \*\* = p ≤ 0.01; n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-1 Body Weight - Summary

Body Weight (g)	Rat			
Sex: Male	Day(s) Relative to Start Date			
	36	37	38	39
Group 1: Control	Mean SD N	427.06 18.28 5	430.64 17.07 5	-
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	413.02 21.85 5 -3.3	417.74 26.88 5 -3.0	-
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	438.92 38.53 5 2.8	441.08 36.63 5 2.4	-
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	430.80 45.93 5 0.9	432.84 42.13 5 0.5	-

Anova &amp; Dunnett

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-1 Body Weight - Summary

Body Weight (g)	Rat				
Sex: Male	Day(s) Relative to Start Date				
	36	37	38	39	
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	419.80 25.11 5 -1.7	421.92 27.60 5 -2.0		
Group 6: 30 µg/ animal BNT162c1	Mean SD N %Diff	- - - -	- - - -		
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	411.82 31.28 5 -3.6	417.40 28.42 5 -3.1		

Anova &amp; Dunnett

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-1

Body Weight - Summary

Sex: Female		Day(s) Relative to Start Date						
	Body Weight (g)	-7 [a1]	-1 [a]	1 [a]	2 [a]	8 [a]	9 [a]	15 [a]
Group 1: Control	Mean SD N	-	213.78 9.13 15	212.25 9.41 15	215.06 10.81 15	231.69 12.12 15	236.97 13.24 15	249.79 13.90 15
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	-	213.85 9.08 15 0.0	209.60 11.06 15 -1.3	205.43 9.87 15 -4.5	229.60 11.80 15 -0.9	221.53* 11.92 15 -6.5	243.21 10.42 15 -2.6
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	190.83n 20.28 15	-	215.39 18.50 15	211.83 17.58 15	232.60 20.46 15	224.57 19.61 15	243.57 22.86 15
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	-	214.15 9.03 15 0.2	213.98 10.29 15 0.8	214.20 10.97 15 -0.4	234.73 17.14 15 1.3	234.26 15.66 15 -1.1	258.37 17.90 15 3.4

[a] - Anova &amp; Dunnett(Rank): \* = p ≤ 0.05

[a1] - Anova &amp; Dunnett: n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-1

Body Weight - Summary

Sex: Female				Day(s) Relative to Start Date						
				1	2	8	9	15		
Group 5: 100 µg/ animal	Mean SD N %Diff	192.28n 18.07 15	-7 - -	214.81 17.07 15	204.95 14.94 15	234.26 16.46 15	222.42* 17.02 15	246.11 19.58 15		
BNT162b1	-	-	-	1.2	4.7	1.1	-6.1	-1.5		
Group 6: 30 µg/ animal	Mean SD N %Diff	193.47n 17.74 15	- - -	217.13 19.32 15	209.75 19.09 15	230.53 23.60 15	220.42** 23.19 15	237.84 32.48 5		
BNT162c1	-	-	-	2.3	-2.5	-0.5	-7.0	-4.8		
Group 7: 100 µg/ animal	Mean SD N %Diff	192.57n 18.31 15	- - -	218.14 19.76 15	205.63 18.37 15	228.15 17.99 15	220.75* 19.85 15	238.23 20.09 15		
BNT162b2	-	-	-	2.8	-4.4	-1.5	-6.8	-4.6		

Anova &amp; Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01; n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-1

Body Weight - Summary

Sex: Female				Day(s) Relative to Start Date						
				16 [a]	18 [a1]	22 [a]	25 [a2]	29 [a1]	30 [a1]	32 [a1]
Group 1: Control	Mean SD N	247.66 13.00 15	267.84 19.29 5	273.16 16.70 5	274.66 16.68 5	283.22 21.37 5	-	-	-	288.50 25.05 5
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	230.25** 10.43 15 -7.0	249.48 14.24 5 -6.9	255.86 13.76 5 -6.3	263.70 16.64 5 -4.0	274.06 7.60 5 -3.2	-	-	-	278.90 15.05 5 -3.3
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	238.89 21.23 15 -3.5	251.48 26.31 5 -6.1	254.12 18.83 5 -7.0	259.62 21.02 5 -5.5	272.38 24.61 5 -3.8	-	-	-	272.52 18.12 5 -5.5
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	250.33 17.86 15 1.1	266.42 5.68 5 -0.5	270.98 8.29 5 -0.8	272.64 8.67 5 -0.7	285.28 10.15 5 0.7	-	-	-	287.32 13.05 5 -0.4

[a] - Anova &amp; Dunnett(Rank). \*\* = p ≤ 0.01

[a1] - Anova &amp; Dunnett

[a2] - Anova &amp; Dunnett(Log)

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-1

Body Weight - Summary

Sex: Female				Day(s) Relative to Start Date						
				16	18	22	25	29	30	32
Group 5: 100 µg/ animal	Mean SD N %Diff	236.60 17.79 15 -4.5	248.36 17.83 5 -7.3	259.16 21.76 5 -5.1	274.44 23.21 5 -0.1	276.78 21.16 5 -2.3	-	-	274.96 17.93 5 -4.7	
BNT162b1	Mean SD N %Diff	- - - -	248.94 30.16 5 -7.1	256.08 33.99 5 -6.3	262.30 32.06 5 -4.5	274.14 32.12 5 -3.2	268.30n 32.09 5 -3.2	-		
Group 6: 30 µg/ animal	Mean SD N %Diff	- - - -	231.70** 19.18 15 -6.4	238.60 13.08 5 -10.9	245.28 18.43 5 -10.2	254.14 18.64 5 -7.5	264.86 19.30 5 -6.5	-	268.56 19.05 5 -6.9	
BNT162c1	Mean SD N %Diff	- - - -								
Group 7: 100 µg/ animal	Mean SD N %Diff									
BNT162b2	Mean SD N %Diff									

Anova &amp; Dunnett: \*\* = p ≤ 0.01; n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-1 Body Weight - Summary

Body Weight (g)		Rat			
Sex: Female		Day(s) Relative to Start Date			
		36	37	36	37
Group 1: Control	Mean SD N	299.72 26.90 5	-	296.84 29.87 5	-
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	285.70 16.50 5 -4.7	-	288.34 19.50 5 -2.9	-
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	275.70 20.21 5 -8.0	-	277.00 21.68 5 -6.7	-
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	294.12 10.23 5 -1.9	-	289.40 12.11 5 -2.5	-

Anova &amp; Dunnett

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-1 Body Weight - Summary

Body Weight (g)		Rat			
Sex: Female		Day(s) Relative to Start Date			
		36	37		
Group 5: 100 µg/ animal	BNT162b1	Mean SD N %Diff	283.10 16.64 5 -5.5	283.22 18.17 5 -4.6	
Group 6: 30 µg/ animal	BNT162c1	Mean SD N %Diff	- - - -	- - - -	
Group 7: 100 µg/ animal	BNT162b2	Mean SD N %Diff	274.54 19.52 5 -8.4	266.64 21.63 5 -10.2	

Anova &amp; Dunnett

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-1 Body Weight - Summary

Page	Measurement	Comments and Markers				
		Group	Sex	Day	Marker	
	Body Weight	2	Male	2	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
	Body Weight	2	Male	8	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
	Body Weight	2	Male	9	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
	Body Weight	2	Male	15	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
	Body Weight	3	Male	-7	n	Anova & Dunnett: n - Inappropriate for statistics
	Body Weight	3	Male	1	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
	Body Weight	3	Male	2	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
	Body Weight	3	Male	8	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
	Body Weight	4	Male	2	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
	Body Weight	4	Male	9	*	Anova & Dunnett(Rank): * = p ≤ 0.05
	Body Weight	4	Male	15	*	Anova & Dunnett(Rank): * = p ≤ 0.05
	Body Weight	2	Male	16	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
	Body Weight	2	Male	18	*	Anova & Dunnett: * = p ≤ 0.05
	Body Weight	4	Male	16	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
	Body Weight	5	Male	-7	n	Anova & Dunnett: n - Inappropriate for statistics
	Body Weight	5	Male	1	**	Anova & Dunnett: ** = p ≤ 0.01
	Body Weight	5	Male	9	**	Anova & Dunnett: ** = p ≤ 0.01
	Body Weight	6	Male	-7	n	Anova & Dunnett: n - Inappropriate for statistics
	Body Weight	6	Male	1	**	Anova & Dunnett: ** = p ≤ 0.01
	Body Weight	6	Male	2	**	Anova & Dunnett: ** = p ≤ 0.01
	Body Weight	7	Male	-7	n	Anova & Dunnett: n - Inappropriate for statistics
	Body Weight	7	Male	1	**	Anova & Dunnett: ** = p ≤ 0.01
	Body Weight	7	Male	9	**	Anova & Dunnett: ** = p ≤ 0.01
	Body Weight	5	Male	16	**	Anova & Dunnett: ** = p ≤ 0.01
	Body Weight	6	Male	30	n	Anova & Dunnett: n - Inappropriate for statistics
	Body Weight	7	Male	16	**	Anova & Dunnett: ** = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-1 Body Weight - Summary

Page	Measurement	Comments and Markers			
		Group	Sex	Day	Marker
2	Body Weight	Female	9	*	Anova & Dunnett(Rank): * = $p \leq 0.05$
2	Body Weight	Female	-7	n	Anova & Dunnett: n - Inappropriate for statistics
3	Body Weight	Female	16	**	Anova & Dunnett(Rank): ** = $p \leq 0.01$
2	Body Weight	Female	-7	n	Anova & Dunnett: n - Inappropriate for statistics
5	Body Weight	Female	9	*	Anova & Dunnett: * = $p \leq 0.05$
5	Body Weight	Female	-7	n	Anova & Dunnett: n - Inappropriate for statistics
6	Body Weight	Female	7	n	Anova & Dunnett: * = $p \leq 0.05$
6	Body Weight	Female	9	**	Anova & Dunnett: n - Inappropriate for statistics
7	Body Weight	Female	-7	n	Anova & Dunnett: n - Inappropriate for statistics
7	Body Weight	Female	9	*	Anova & Dunnett: * = $p \leq 0.05$
6	Body Weight	Female	30	n	Anova & Dunnett: n - Inappropriate for statistics
7	Body Weight	Female	16	**	Anova & Dunnett: ** = $p \leq 0.01$

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Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-2 Body Weight - Individual Data

Sex: Male	Body Weight (g)	Day(s) Relative to Start Date					Rat
		-7	-1	1	2	8	
1	-	251.8	258.8	263.2	303.8	313.1	350.3
2	-	255.5	259.7	261.3	303.8	307.1	340.3
3	-	256.1	262.9	271.5	322.0	329.2	371.3
4	-	261.1	266.1	275.6	316.1	323.3	358.0
5	-	253.1	262.7	268.2	314.1	318.6	346.0
6	-	257.7	264.3	272.2	314.7	322.4	373.9
7	-	250.8	258.6	266.8	308.0	319.4	351.8
8	-	266.4	273.3	275.7	318.5	329.4	360.0
9	-	250.2	255.1	262.8	317.2	327.9	373.7
10	-	268.4	274.2	277.0	328.5	341.0	366.7
11	-	267.7	270.9	276.9	316.6	325.9	355.0
12	-	249.1	254.8	261.4	279.1	286.3	341.9
13	-	264.4	278.4	275.4	317.4	330.6	363.0
14	-	252.5	254.9	257.8	295.4	301.5	334.6
15	-	259.5	258.3	267.7	307.8	321.0	357.8
Mean	-	257.62	263.53	268.90	310.87	319.78	356.29
SD	-	6.64	7.58	6.51	12.03	13.46	12.27
N	-	15	15	15	15	15	15

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Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-2      Body Weight - Individual Data

Sex: Male	Body Weight (g)	Day(s) Relative to Start Date					Rat
		16	18	22	25	29	
Group 1: Control							
1	351.1	-	-	-	-	-	-
2	345.4	-	-	-	-	-	-
3	376.9	-	-	-	-	-	-
4	361.8	-	-	-	-	-	-
5	351.3	-	-	-	-	-	-
6	377.6	-	-	-	-	-	-
7	355.6	-	-	-	-	-	-
8	365.0	-	-	-	-	-	-
9	375.6	-	-	-	-	-	-
10	369.6	-	-	-	-	-	-
11	364.2	365.0	377.9	385.3	412.9	416.5	419.9
12	352.6	351.8	373.8	371.2	397.0	414.3	424.7
13	365.6	375.5	396.4	404.0	425.8	431.8	443.4
14	337.6	344.9	351.8	367.7	390.1	401.9	401.4
15	369.1	375.0	400.6	400.2	423.1	429.8	445.9
Mean	361.27	362.44	380.10	385.68	409.78	418.86	427.06
SD	11.98	13.75	19.57	16.43	15.77	12.26	18.28
N	15	5	5	5	5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-2      Body Weight - Individual Data

Sex: Male	Body Weight (g)	Rat
Group 1: Control	Day(s) Relative to Start Date	
1	37	
2	-	
3	-	
4	-	
5	-	
6	-	
7	-	
8	-	
9	-	
10	-	
11	425.1	
12	431.7	
13	443.1	
14	404.9	
15	448.4	
Mean	430.64	
SD	17.07	
N	5	

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Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-2 Body Weight - Individual Data

Sex: Male	Body Weight (g)	Day(s) Relative to Start Date						Rat
		-7	-1	1	2	8	9	
<b>Group 2: 30 µg/ animal BNT162a1</b>								
31	-	265.3	270.3	257.9	285.4	268.0	310.1	
32	-	253.3	258.0	231.7	292.3	271.2	303.0	
33	-	257.9	256.1	253.0	305.1	289.7	347.2	
34	-	267.6	272.2	258.8	301.9	284.1	315.0	
35	-	256.2	263.5	251.9	295.0	281.3	321.2	
36	-	249.9	253.9	242.5	289.2	278.6	309.8	
37	-	268.5	267.1	253.3	293.2	279.6	316.5	
38	-	265.7	269.6	262.1	309.9	284.7	326.8	
39	-	249.2	259.9	239.5	279.8	257.3	269.7	
40	-	260.7	266.7	257.3	291.2	276.2	307.7	
41	-	255.8	258.5	250.3	291.8	286.3	316.7	
42	-	260.1	260.2	252.7	288.1	273.5	309.5	
43	-	252.6	260.8	254.3	298.0	292.1	330.8	
44	-	250.7	252.8	245.2	283.8	267.7	317.4	
45	-	251.2	254.5	244.7	297.8	279.5	327.9	
Mean	-	257.65	261.61	250.35	293.50	277.99	315.29	
SD	-	6.69	6.31	8.19	8.11	9.29	16.84	
N	-	15	15	15	15	15	15	

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RNA Platforms encoding for Viral Proteins

TABLE 3-2 Body Weight - Individual Data

Sex: Male	Body Weight (g)	Day(s) Relative to Start Date						Rat
		16	18	22	25	29	32	
<b>Group 2: 30 µg/ animal BNT162a1</b>								
31	291.4	-	-	-	-	-	-	-
32	293.6	-	-	-	-	-	-	-
33	319.2	-	-	-	-	-	-	-
34	303.9	-	-	-	-	-	-	-
35	306.5	-	-	-	-	-	-	-
36	300.7	-	-	-	-	-	-	-
37	305.1	-	-	-	-	-	-	-
38	313.2	-	-	-	-	-	-	-
39	260.9	-	-	-	-	-	-	-
40	293.9	-	-	-	-	-	-	-
41	304.0	312.3	329.6	343.6	377.1	382.2	-	392.3
42	297.5	309.0	331.4	347.5	379.0	380.9	-	398.7
43	315.1	344.3	370.3	388.5	415.6	424.7	-	448.1
44	304.9	315.1	336.8	361.5	390.7	403.4	-	408.3
45	305.7	315.1	347.2	361.6	398.5	403.1	-	417.7
Mean	301.04	319.16	343.06	360.54	392.18	398.86	413.02	
SD	13.62	14.28	5	5	17.61	18.07	21.85	
N	15	5	5	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-2      Body Weight - Individual Data

Sex: Male	Body Weight (g)			Rat
Group 2: 30 µg/ animal	Day(s) Relative to Start Date			
BNT162a1	37	-	-	
31	-	-	-	
32	-	-	-	
33	-	-	-	
34	-	-	-	
35	-	-	-	
36	-	-	-	
37	-	-	-	
38	-	-	-	
39	-	-	-	
40	-	-	-	
41	393.2	-	-	
42	399.6	-	-	
43	461.4	-	-	
44	412.1	-	-	
45	422.4	-	-	
Mean	417.74			
SD	26.88			
N	5			

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Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-2 Body Weight - Individual Data

Sex: Male	Body Weight (g)	Day(s) Relative to Start Date						Rat
		-7	-1	1	2	8	9	
<b>Group 3: 10 µg/ animal BNT162a1</b>								
61	286.5	-	341.7	327.9	365.9	353.3	395.8	
62	222.3	-	290.4	273.7	315.6	289.4	331.6	
63	287.6	-	335.3	339.7	365.9	352.1	388.5	
64	272.1	-	316.1	303.4	336.8	317.0	352.4	
65	229.0	-	293.2	285.3	332.7	316.1	361.4	
66	296.9	-	338.8	320.6	344.0	331.6	367.0	
67	278.5	-	335.8	324.9	375.7	351.3	394.9	
68	231.8	-	285.5	266.6	304.4	280.0	314.8	
69	234.6	-	295.0	286.4	315.4	302.6	345.1	
70	269.0	-	332.3	322.1	369.0	344.2	381.6	
71	246.4	-	300.4	292.8	339.3	321.4	363.1	
72	238.8	-	296.1	288.6	322.4	311.7	349.8	
73	243.0	-	292.2	287.6	318.1	297.2	330.8	
74	274.4	-	331.1	315.9	360.2	333.9	378.6	
75	273.2	-	326.5	309.9	364.9	347.0	393.3	
Mean	258.94	-	314.03	303.03	342.02	323.25	363.25	
SD	24.65	-	21.12	21.80	23.55	23.99	25.67	
N	15	-	15	15	15	15	15	

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RNA Platforms encoding for Viral Proteins

TABLE 3-2 Body Weight - Individual Data

Sex: Male	Body Weight (g)	Day(s) Relative to Start Date					Rat
		16	18	22	25	29	
<b>Group 3: 10 µg/ animal BNT162a1</b>							
61	377.1	-	-	-	-	-	-
62	325.2	-	-	-	-	-	-
63	374.3	-	-	-	-	-	-
64	348.8	-	-	-	-	-	-
65	355.0	-	-	-	-	-	-
66	347.0	-	-	-	-	-	-
67	382.7	-	-	-	-	-	-
68	296.6	-	-	-	-	-	-
69	335.0	-	-	-	-	-	-
70	369.8	-	-	-	-	-	-
71	342.9	356.1	380.7	399.9	416.1	423.9	445.2
72	338.0	347.0	373.3	385.5	395.4	394.9	406.6
73	319.4	337.5	356.2	378.4	385.0	391.7	393.4
74	372.7	392.7	414.0	433.9	450.5	453.7	464.2
75	383.0	408.4	422.1	455.0	466.5	469.3	485.2
Mean	351.17	368.34	389.26	410.54	422.70	426.70	438.92
SD	25.67	30.64	27.89	32.77	35.01	34.60	38.53
N	15	5	5	5	5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-2      Body Weight - Individual Data

Sex: Male	Body Weight (g)	Rat
Group 3: 10 µg/ animal	Day(s) Relative to Start Date	
BNT162a1	37	
61	-	
62	-	
63	-	
64	-	
65	-	
66	-	
67	-	
68	-	
69	-	
70	-	
71	447.4	
72	406.5	
73	400.7	
74	466.9	
75	483.9	
Mean	441.08	
SD	36.63	
N	5	

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Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-2      Body Weight - Individual Data

Sex: Male	Body Weight (g)	Day(s) Relative to Start Date					
		-7	-1	1	2	8	9
Group 4: 30 µg/ animal BNT162b1							
91	-	255.7	258.5	255.6	301.2	300.0	334.8
92	-	250.0	257.6	250.4	300.2	293.9	321.0
93	-	249.3	259.3	254.0	306.4	298.2	335.4
94	-	250.2	257.8	253.6	290.9	286.3	316.8
95	-	255.0	263.7	252.3	298.1	299.8	335.7
96	-	267.5	272.8	263.4	317.5	311.9	365.4
97	-	259.5	261.0	253.5	300.1	290.6	336.6
98	-	250.8	254.9	252.0	295.7	293.0	328.0
99	-	267.8	268.3	264.3	312.4	309.1	351.1
100	-	268.9	271.6	261.4	307.7	293.0	332.1
101	-	264.1	269.1	260.2	306.7	302.5	326.7
102	-	252.4	258.3	247.0	298.1	290.1	341.4
103	-	257.5	263.0	260.1	313.6	313.3	356.2
104	-	261.9	268.3	263.1	312.5	301.0	344.4
105	-	256.3	263.2	253.2	306.2	302.0	343.8
Mean	-	257.79	263.16	256.27	304.49	298.98	337.96
SD	-	6.87	5.64	5.36	7.53	8.06	13.00
N	-	15	15	15	15	15	15

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Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-2 Body Weight - Individual Data

Sex: Male	Body Weight (g)	Day(s) Relative to Start Date					Rat
		16	18	22	25	29	
<b>Group 4: 30 µg/ animal BNT162b1</b>							
91	329.1	-	-	-	-	-	-
92	315.9	-	-	-	-	-	-
93	323.2	-	-	-	-	-	-
94	319.3	-	-	-	-	-	-
95	326.7	-	-	-	-	-	-
96	352.5	-	-	-	-	-	-
97	324.5	-	-	-	-	-	-
98	322.1	-	-	-	-	-	-
99	342.5	-	-	-	-	-	-
100	318.1	-	-	-	-	-	-
101	321.5	332.2	358.3	356.4	372.2	367.6	383.9
102	331.1	353.2	362.2	380.7	394.9	402.9	398.3
103	355.5	377.3	400.3	433.8	460.7	482.0	500.5
104	332.5	357.0	372.6	382.5	401.8	414.3	423.9
105	328.6	350.9	377.9	391.8	425.1	434.3	447.4
Mean	329.54	354.12	374.26	389.04	410.94	420.22	430.80
SD	11.94	16.10	16.54	28.23	33.61	42.19	45.93
N	15	5	5	5	5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-2      Body Weight - Individual Data

Sex: Male	Body Weight (g)		Rat
Group 4: 30 µg/ animal	Day(s) Relative to Start Date		
BNT162b1	37		
91	-		
92	-		
93	-		
94	-		
95	-		
96	-		
97	-		
98	-		
99	-		
100	-		
101	391.9		
102	403.8		
103	500.3		
104	430.5		
105	437.7		
Mean	432.84		
SD	42.13		
N	5		

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RNA Platforms encoding for Viral Proteins

TABLE 3-2      Body Weight - Individual Data

Sex: Male	Body Weight (g)	Day(s) Relative to Start Date						Rat
		-7	-1	1	2	8	9	
<b>Group 5: 100 µg/ animal BNT162b1</b>								
121	275.7	-	333.6	301.4	338.0	319.2	371.4	
122	243.8	-	292.5	261.7	294.8	271.8	311.6	
123	236.5	-	292.5	268.3	314.2	299.2	345.9	
124	274.7	-	332.5	320.5	361.3	349.7	401.8	
125	239.3	-	293.2	272.2	298.2	281.4	323.1	
126	273.4	-	326.7	297.6	336.7	321.4	374.8	
127	241.4	-	292.9	261.3	308.9	284.6	335.2	
128	239.9	-	287.7	256.4	301.4	271.8	322.6	
129	269.8	-	313.6	285.6	325.7	301.5	340.2	
130	238.0	-	290.8	265.7	310.1	283.9	343.8	
131	281.9	-	343.9	306.3	350.7	326.5	380.4	
132	248.1	-	297.0	275.0	309.0	280.0	331.6	
133	241.6	-	292.6	267.3	297.5	270.2	317.3	
134	278.5	-	327.4	298.9	342.0	319.5	368.2	
135	269.6	-	321.3	289.2	329.0	297.4	346.5	
Mean	256.81	-	309.21	281.83	321.17	298.54	347.63	
SD	17.84	-	19.73	19.55	20.99	24.02	26.28	
N	15	-	15	15	15	15	15	

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RNA Platforms encoding for Viral Proteins

TABLE 3-2 Body Weight - Individual Data

Sex: Male	Body Weight (g)	Day(s) Relative to Start Date						Rat
		16	18	22	25	29	32	
<b>Group 5: 100 µg/ animal BNT162b1</b>								
121	359.4	-	-	-	-	-	-	-
122	296.4	-	-	-	-	-	-	-
123	328.9	-	-	-	-	-	-	-
124	387.5	-	-	-	-	-	-	-
125	310.9	-	-	-	-	-	-	-
126	359.7	-	-	-	-	-	-	-
127	314.8	-	-	-	-	-	-	-
128	291.3	-	-	-	-	-	-	-
129	319.8	-	-	-	-	-	-	-
130	318.3	-	-	-	-	-	-	-
131	354.9	381.6	402.1	435.6	445.7	458.3	452.3	-
132	305.3	332.5	348.1	375.2	378.8	403.6	409.1	-
133	294.9	326.3	344.3	362.4	380.3	385.1	392.4	-
134	346.6	367.6	385.7	408.0	425.2	424.5	439.7	-
135	328.6	348.4	368.3	384.2	408.8	402.5	405.5	-
Mean	327.82	351.28	369.70	393.08	407.76	414.80	419.80	
SD	28.27	23.29	24.59	29.03	28.89	28.04	25.11	
N	15	5	5	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-2      Body Weight - Individual Data

Sex: Male	Body Weight (g)	Rat
Group 5: 100 µg/ animal	Day(s) Relative to Start Date	
BNT162b1	37	
121	-	
122	-	
123	-	
124	-	
125	-	
126	-	
127	-	
128	-	
129	-	
130	-	
131	461.8	
132	407.9	
133	391.7	
134	437.1	
135	411.1	
Mean	421.92	
SD	27.60	
N	5	

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TABLE 3-2 Body Weight - Individual Data

Sex: Male	Body Weight (g)	Day(s) Relative to Start Date							Rat
		-7	1	2	8	9	15	18	
<b>Group 6: 30 µg/ animal BNT162c1</b>									
151	244.4	291.9	280.0	305.1	285.3	-	-	-	
152	294.0	337.0	319.8	347.9	329.4	-	-	-	
153	239.2	290.7	272.2	292.7	280.1	-	-	-	
154	238.9	298.0	293.1	327.1	308.0	-	-	-	
155	247.2	310.0	295.4	329.5	316.4	-	-	-	
156	247.7	300.5	292.7	318.5	297.2	-	-	-	
157	275.5	326.4	310.7	348.9	330.5	-	-	-	
158	244.5	292.2	269.5	287.6	272.4	-	-	-	
159	242.5	296.7	292.4	321.5	312.9	-	-	-	
160	242.4	286.1	264.9	299.7	274.6	-	-	-	
161	285.9	337.3	322.4	356.2	331.0	-	-	-	
162	242.8	296.1	275.9	306.6	286.1	-	-	-	
163	277.5	324.3	308.9	355.6	336.0	-	-	-	
164	269.6	315.8	292.0	326.2	300.4	-	-	-	
165	278.1	320.5	312.6	359.2	329.6	-	-	-	
Mean	258.01	308.23	293.50	325.49	305.99	-	-	-	
SD	19.50	17.40	18.46	24.01	22.53	-	-	-	
N	15	15	15	15	15	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-2      Body Weight - Individual Data

Sex: Male	Body Weight (g)	Day(s) Relative to Start Date		
Group 6: 30 µg/ animal		22	25	29
BNT162c1				
151	-	-	-	-
152	-	-	-	-
153	-	-	-	-
154	-	-	-	-
155	-	-	-	-
156	-	-	-	-
157	-	-	-	-
158	-	-	-	-
159	-	-	-	-
160	-	-	-	-
161	408.2	410.5	407.4	413.9
162	335.3	356.1	367.7	361.7
163	412.6	425.8	424.8	429.3
164	360.5	376.5	384.5	387.5
165	418.0	434.6	432.0	432.4
Mean	386.92	400.70	403.28	404.96
SD	36.88	33.35	27.03	30.01
N	5	5	5	5

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Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-2 Body Weight - Individual Data

Sex: Male	Body Weight (g)	Day(s) Relative to Start Date						Rat
		-7	-1	1	2	8	9	
<b>Group 7: 100 µg/ animal BNT162b2</b>								
181	283.0	-	338.3	327.4	355.2	332.4	371.5	
182	245.6	-	291.8	262.7	299.9	273.2	318.0	
183	244.2	-	301.1	270.6	320.6	293.3	342.7	
184	236.4	-	288.7	264.9	305.9	283.2	329.4	
185	281.3	-	336.7	307.0	347.7	314.0	375.5	
186	242.7	-	275.7	253.9	291.6	257.4	307.3	
187	277.3	-	324.9	296.5	334.2	298.7	346.2	
188	241.5	-	291.4	270.2	307.1	284.6	342.6	
189	247.9	-	297.8	271.8	304.8	275.6	327.6	
190	241.6	-	291.1	267.3	308.9	290.6	339.2	
191	247.5	-	293.4	276.0	303.5	280.1	327.8	
192	284.5	-	325.2	305.0	334.6	317.3	361.7	
193	282.3	-	326.2	313.3	341.0	322.4	365.4	
194	237.3	-	283.5	263.7	289.8	266.3	309.3	
195	275.1	-	318.6	300.3	324.5	309.5	353.6	
Mean	257.88	-	305.63	283.37	317.95	293.24	341.19	
SD	19.55	-	20.51	22.56	20.59	21.98	21.54	
N	15	-	15	15	15	15	15	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-2      Body Weight - Individual Data

Sex: Male	Body Weight (g)	Day(s) Relative to Start Date						Rat
		16	18	22	25	29	32	
<b>Group 7: 100 µg/ animal BNT162b2</b>								
181	353.6	-	-	-	-	-	-	-
182	294.8	-	-	-	-	-	-	-
183	320.2	-	-	-	-	-	-	-
184	307.8	-	-	-	-	-	-	-
185	348.7	-	-	-	-	-	-	-
186	290.5	-	-	-	-	-	-	-
187	318.9	-	-	-	-	-	-	-
188	316.9	-	-	-	-	-	-	-
189	308.8	-	-	-	-	-	-	-
190	322.2	-	-	-	-	-	-	-
191	307.9	314.8	339.3	362.8	376.8	387.6	-	-
192	345.9	356.7	379.1	398.4	407.4	419.4	430.0	432.3
193	354.6	366.3	385.1	411.8	425.3	435.7	440.6	-
194	282.3	305.9	332.3	348.3	362.3	364.0	366.5	-
195	331.5	352.8	377.8	393.0	416.2	422.3	429.7	-
Mean	320.31	339.30	362.72	382.86	397.60	405.80	411.82	
SD	22.86	27.06	24.85	26.36	26.87	29.28	31.28	
N	15	5	5	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-2      Body Weight - Individual Data

Sex: Male	Body Weight (g)	Rat
Group 7: 100 µg/ animal	Day(s) Relative to Start Date	
BNT162b2	37	
181	-	
182	-	
183	-	
184	-	
185	-	
186	-	
187	-	
188	-	
189	-	
190	-	
191	403.6	
192	427.4	
193	444.9	
194	374.7	
195	436.4	
Mean	417.40	
SD	28.42	
N	5	

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TABLE 3-2 Body Weight - Individual Data

Sex: Female	Body Weight (g)	Day(s) Relative to Start Date					Rat	
Group 1: Control		-7	-1	1	2	8	9	15
16	-	226.6	219.9	230.2	249.9	246.3	246.1	243.4
17	-	204.0	199.0	206.0	235.3	246.8	235.4	235.4
18	-	200.6	199.3	204.0	211.8	220.4	223.7	243.3
19	-	205.9	206.3	207.3	220.9	229.6	229.6	245.8
20	-	220.0	215.5	214.7	230.5	229.6	226.6	235.7
21	-	207.2	203.0	204.5	229.6	226.6	226.3	232.7
22	-	202.2	203.8	205.6	217.9	226.3	227.8	242.1
23	-	209.0	205.9	208.8	221.8	227.8	231.9	252.3
24	-	212.6	212.6	217.6	231.9	237.2	238.9	248.5
25	-	219.3	213.9	217.3	238.0	225.7	226.6	241.4
26	-	219.7	217.8	215.8	239.7	249.8	266.5	279.8
27	-	226.2	231.2	224.5	226.0	253.8	258.4	268.2
28	-	227.8	224.5	211.7	205.2	229.8	239.0	246.7
29	-	212.5	219.4	223.2	228.7	240.5	263.4	
Mean	-	213.78	212.25	215.06	231.69	236.97	249.79	
SD	-	9.13	9.41	10.81	12.12	13.24	13.90	
N	-	15	15	15	15	15	15	

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TABLE 3-2      Body Weight - Individual Data

Sex: Female	Body Weight (g)	Day(s) Relative to Start Date						Rat
		16	18	22	25	29	32	
<b>Group 1: Control</b>								
16	269.6	-	-	-	-	-	-	
17	242.1	-	-	-	-	-	-	
18	235.8	-	-	-	-	-	-	
19	236.9	-	-	-	-	-	-	
20	246.6	-	-	-	-	-	-	
21	238.7	-	-	-	-	-	-	
22	231.1	-	-	-	-	-	-	
23	242.4	-	-	-	-	-	-	
24	255.8	-	-	-	-	-	-	
25	250.6	242.7	260.6	252.0	256.7	253.0	-	270.6
26	238.7	293.9	298.1	295.9	310.7	312.0	-	320.7
27	264.6	272.6	281.4	285.0	297.4	312.3	-	332.6
28	273.8	256.7	257.6	269.4	270.5	277.1	-	276.9
29	238.5	273.3	268.1	271.0	280.8	288.1	-	297.8
30	249.7							
Mean	247.66	267.84	273.16	274.66	283.22	288.50	299.72	
SD	13.00	19.29	16.70	16.68	21.37	25.05	26.90	
N	15	5	5	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-2      Body Weight - Individual Data

Sex: Female	Body Weight (g)	Rat
Group 1: Control	Day(s) Relative to Start Date	
16	-	
17	-	
18	-	
19	-	
20	-	
21	-	
22	-	
23	-	
24	-	
25	-	
26	262.9	
27	321.3	
28	334.5	
29	281.5	
30	284.0	
Mean	296.84	
SD	29.87	
N	5	

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Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-2 Body Weight - Individual Data

Sex: Female	Body Weight (g)	Day(s) Relative to Start Date						Rat
Group 2: 30 µg/ animal BNT162a1	-7	-1	1	2	8	9	15	
46	-	226.6	224.6	217.0	241.8	235.0	245.7	
47	-	216.7	215.5	205.2	235.7	231.3	239.6	
48	-	208.1	205.0	203.7	228.9	228.3	258.4	
49	-	219.5	210.7	206.9	227.5	211.0	241.7	
50	-	216.0	215.5	206.9	220.4	224.1	243.8	
51	-	208.9	200.8	193.6	228.6	203.6	227.9	
52	-	200.6	194.0	193.9	218.5	218.6	255.4	
53	-	204.0	192.6	194.1	220.9	212.8	237.3	
54	-	213.0	213.4	204.3	229.8	218.7	233.0	
55	-	202.5	203.5	195.9	225.3	211.6	231.6	
56	-	204.7	193.0	195.0	216.6	212.7	235.7	
57	-	212.3	211.5	207.5	232.1	227.6	248.8	
58	-	225.5	224.6	224.8	242.6	231.4	253.7	
59	-	228.6	215.9	217.6	259.8	247.3	261.4	
60	-	220.8	223.4	215.1	215.5	208.9	234.1	
Mean	-	213.85	209.60	205.43	229.60	221.53	243.21	
SD	-	9.08	11.06	9.87	11.80	11.92	10.42	
N	-	15	15	15	15	15	15	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-2      Body Weight - Individual Data

Sex: Female	Body Weight (g)	Day(s) Relative to Start Date					Rat
		16	18	22	25	29	
<b>Group 2: 30 µg/ animal BNT162a1</b>							
46	233.6	-	-	-	-	-	-
47	233.4	-	-	-	-	-	-
48	253.4	-	-	-	-	-	-
49	224.8	-	-	-	-	-	-
50	234.5	-	-	-	-	-	-
51	212.2	-	-	-	-	-	-
52	232.1	-	-	-	-	-	-
53	217.0	-	-	-	-	-	-
54	223.7	-	-	-	-	-	-
55	223.1	-	-	-	-	-	-
56	222.5	232.8	236.6	253.6	277.0	284.4	276.8
57	234.3	256.2	258.8	261.0	269.7	266.9	271.8
58	237.7	258.5	271.8	287.2	278.4	291.6	302.9
59	243.7	264.2	263.9	272.3	282.1	292.4	304.4
60	227.8	235.7	248.2	244.4	263.1	259.2	272.6
Mean	230.25	249.48	255.86	263.70	274.06	278.90	285.70
SD	10.43	14.24	13.76	16.64	7.60	15.05	16.50
N	15	5	5	5	5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-2 Body Weight - Individual Data

Sex: Female	Body Weight (g)			Rat
Group 2: 30 µg/ animal BNT162a1	Day(s) Relative to Start Date			
	37			
46	-			
47	-			
48	-			
49	-			
50	-			
51	-			
52	-			
53	-			
54	-			
55	-			
56	280.6			
57	270.1			
58	314.9			
59	302.6			
60	273.5			
Mean	288.34			
SD	19.50			
N	5			

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RNA Platforms encoding for Viral Proteins

TABLE 3-2 Body Weight - Individual Data

Sex: Female	Body Weight (g)	Day(s) Relative to Start Date						Rat
Group 3: 10 µg/ animal BNT162a1		-7	-1	1	2	8	9	15
76	182.3	-	205.4	194.0	226.0	212.1	229.4	245.1
77	194.8	-	225.0	219.6	238.5	214.5	222.5	242.5
78	176.3	-	202.6	195.0	220.1	214.5	232.7	232.7
79	168.7	-	247.4	242.7	264.6	257.9	284.8	284.8
80	168.7	-	193.5	188.7	199.8	197.6	206.5	206.5
81	180.6	-	204.9	207.7	243.9	231.2	229.2	229.2
82	238.1	-	249.8	240.3	279.4	268.1	279.1	279.1
83	195.6	-	206.1	208.1	228.8	217.1	231.3	231.3
84	184.8	-	201.0	202.2	219.6	210.8	235.6	235.6
85	191.5	-	208.5	213.4	227.7	214.9	236.2	236.2
86	192.5	-	215.4	206.7	221.8	218.6	225.8	225.8
87	183.2	-	211.3	205.0	228.6	219.1	274.1	274.1
88	231.8	-	245.5	240.2	252.5	249.0	269.7	269.7
89	199.2	-	218.1	219.4	225.7	221.3	237.7	237.7
90	174.4	-	196.3	194.4	212.0	206.9	223.2	223.2
Mean	190.83	-	215.39	211.83	232.60	224.57	243.57	
SD	20.28	-	18.50	17.58	20.46	19.61	22.86	
N	15	-	15	15	15	15	15	

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RNA Platforms encoding for Viral Proteins

TABLE 3-2 Body Weight - Individual Data

Sex: Female	Body Weight (g)	Day(s) Relative to Start Date						Rat
		16	18	22	25	29	32	
<b>Group 3: 10 µg/ animal BNT162a1</b>								
76	238.3	-	-	-	-	-	-	-
77	233.1	-	-	-	-	-	-	-
78	220.6	-	-	-	-	-	-	-
79	279.3	-	-	-	-	-	-	-
80	210.1	-	-	-	-	-	-	-
81	234.9	-	-	-	-	-	-	-
82	278.9	-	-	-	-	-	-	-
83	228.7	-	-	-	-	-	-	-
84	231.4	-	-	-	-	-	-	-
85	231.1	-	-	-	-	-	-	-
86	222.0	235.8	238.3	244.2	252.5	253.4	259.7	-
87	257.5	287.5	268.8	275.4	285.9	293.2	287.0	-
88	263.3	267.6	278.6	286.9	304.5	288.3	305.0	-
89	235.3	245.5	248.8	254.6	275.0	271.6	270.1	-
90	218.8	221.0	236.1	237.0	244.0	256.1	256.7	-
Mean	238.89	251.48	254.12	259.62	272.38	272.52	275.70	
SD	21.23	26.31	18.83	21.02	24.61	18.12	20.21	
N	15	5	5	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-2      Body Weight - Individual Data

Sex: Female	Body Weight (g)			Rat
Group 3: 10 µg/ animal BNT162a1	Day(s) Relative to Start Date			
	37	-	-	
76		-	-	
77		-	-	
78		-	-	
79		-	-	
80		-	-	
81		-	-	
82		-	-	
83		-	-	
84		-	-	
85		-	-	
86		260.6		
87		292.5		
88		306.2		
89		270.5		
90		255.2		
Mean	277.00			
SD	21.68			
N	5			

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RNA Platforms encoding for Viral Proteins

TABLE 3-2 Body Weight - Individual Data

Sex: Female	Body Weight (g)	Day(s) Relative to Start Date						Rat
		-7	-1	1	2	8	9	
<b>Group 4: 30 µg/ animal BNT162b1</b>								
106	-	203.8	203.8	201.3	224.4	220.7	262.9	
107	-	225.3	225.6	226.0	246.9	241.9	252.9	
108	-	207.8	201.4	198.8	232.1	227.7	242.0	
109	-	223.3	219.9	222.4	260.5	266.6	299.4	
110	-	218.0	215.6	215.8	214.8	224.3	249.5	
111	-	227.7	228.5	234.4	252.8	255.4	267.5	
112	-	203.8	198.7	194.8	197.6	217.5	227.3	
113	-	215.2	221.1	218.8	256.8	252.1	283.4	
114	-	202.4	202.4	203.5	222.9	219.2	247.3	
115	-	205.8	200.0	207.6	225.7	216.8	240.6	
116	-	209.8	215.8	220.4	230.5	234.8	265.7	
117	-	215.0	215.7	214.2	230.8	224.7	250.1	
118	-	210.2	213.0	215.0	252.7	251.3	271.3	
119	-	226.4	226.6	218.8	233.4	227.9	257.1	
120	-	219.8	221.6	221.2	239.1	233.0	258.5	
Mean	-	214.15	213.98	214.20	234.73	234.26	258.37	
SD	-	9.03	10.29	10.97	17.14	15.66	17.90	
N	-	15	15	15	15	15	15	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-2      Body Weight - Individual Data

Sex: Female	Body Weight (g)	Day(s) Relative to Start Date					
		16	18	22	25	29	32
<b>Group 4: 30 µg/ animal BNT162b1</b>							
106	254.3	-	-	-	-	-	-
107	248.6	-	-	-	-	-	-
108	236.8	-	-	-	-	-	-
109	296.8	-	-	-	-	-	-
110	250.0	-	-	-	-	-	-
111	265.8	-	-	-	-	-	-
112	226.0	-	-	-	-	-	-
113	271.6	-	-	-	-	-	-
114	231.5	-	-	-	-	-	-
115	240.6	-	-	-	-	-	-
116	246.1	273.3	-	270.5	-	281.2	289.6
117	243.5	261.6	268.5	260.1	274.0	274.7	293.8
118	261.6	262.9	277.0	284.2	300.6	308.0	283.9
119	241.6	271.9	276.7	274.4	289.4	286.4	309.7
120	240.2	262.4	257.5	274.0	281.2	277.9	297.0
Mean	250.33	266.42	270.98	272.64	285.28	287.32	294.12
SD	17.86	5.68	8.29	8.67	10.15	13.05	10.23
N	15	5	5	5	5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-2 Body Weight - Individual Data

Sex: Female	Body Weight (g)	Rat
Group 4: 30 µg/ animal	Day(s) Relative to Start Date	
BNT162b1	37	
106	-	
107	-	
108	-	
109	-	
110	-	
111	-	
112	-	
113	-	
114	-	
115	-	
116	291.7	
117	283.0	
118	307.0	
119	291.0	
120	274.3	
Mean	289.40	
SD	12.11	
N	5	

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RNA Platforms encoding for Viral Proteins

TABLE 3-2      Body Weight - Individual Data

Sex: Female	Body Weight (g)	Day(s) Relative to Start Date						Rat
		-7	-1	1	2	8	9	
<b>Group 5: 100 µg/ animal BNT162b1</b>								
136	191.5	-	218.3	210.2	240.9	231.4	271.9	
137	192.7	-	206.1	195.5	233.8	218.7	240.4	
138	194.9	-	204.1	201.7	214.0	208.4	225.0	
139	183.5	-	214.7	203.8	230.5	226.7	238.3	
140	182.0	-	196.2	192.2	216.2	204.9	222.1	
141	233.9	-	249.4	234.2	264.7	254.9	263.7	
142	182.2	-	203.6	194.6	227.5	210.2	234.1	
143	175.9	-	207.7	199.9	225.1	218.9	257.7	
144	183.3	-	214.1	197.4	247.6	230.5	277.5	
145	229.5	-	248.3	236.9	269.0	254.7	270.3	
146	174.2	-	189.5	185.0	215.5	194.8	212.0	
147	198.2	-	219.4	205.1	226.4	217.0	237.2	
148	172.0	-	202.2	190.6	224.9	208.5	245.0	
149	191.8	-	220.1	211.0	241.2	233.7	257.6	
150	198.6	-	228.4	216.2	236.6	223.0	238.8	
Mean	192.28	-	214.81	204.95	234.26	222.42	246.11	
SD	18.07	-	17.07	14.94	16.46	17.02	19.58	
N	15	-	15	15	15	15	15	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-2      Body Weight - Individual Data

Sex: Female	Body Weight (g)	Day(s) Relative to Start Date					
		16	18	22	25	29	32
<b>Group 5: 100 µg/ animal BNT162b1</b>							
136	262.1	-	-	-	-	-	-
137	227.5	-	-	-	-	-	-
138	216.9	-	-	-	-	-	-
139	243.1	-	-	-	-	-	-
140	220.4	-	-	-	-	-	-
141	248.3	-	-	-	-	-	-
142	224.7	-	-	-	-	-	-
143	251.9	-	-	-	-	-	-
144	253.5	-	-	-	-	-	-
145	263.3	-	-	-	-	-	-
146	203.0	234.3	257.5	275.8	259.8	260.7	262.0
147	231.8	242.9	249.4	255.2	266.5	261.5	276.8
148	223.8	232.3	240.9	261.2	265.3	269.2	280.1
149	248.4	274.9	296.6	313.7	312.2	304.1	307.0
150	230.3	257.4	251.4	266.3	280.1	279.3	289.6
Mean	236.60	248.36	259.16	274.44	276.78	274.96	283.10
SD	17.79	17.83	21.76	23.21	21.16	17.93	16.64
N	15	5	5	5	5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-2      Body Weight - Individual Data

Sex: Female	Body Weight (g)	Rat
Group 5: 100 µg/ animal	Day(s) Relative to Start Date	
BNT162b1	37	
136	-	
137	-	
138	-	
139	-	
140	-	
141	-	
142	-	
143	-	
144	-	
145	-	
146	261.3	
147	276.6	
148	275.8	
149	308.1	
150	294.3	
Mean	283.22	
SD	18.17	
N	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-2      Body Weight - Individual Data

Sex: Female	Body Weight (g)	Day(s) Relative to Start Date						Rat
		-7	1	2	8	9	15	
<b>Group 6: 30 µg/ animal BNT162c1</b>								
166	193.9	207.4	212.1	227.3	219.8	-	-	
167	186.6	219.3	206.4	233.9	224.7	-	-	
168	172.2	201.4	184.5	199.8	196.7	-	-	
169	197.5	209.9	212.1	240.6	226.4	-	-	
170	231.7	252.7	245.3	260.8	255.6	-	-	
171	199.4	204.3	213.0	199.9	217.1	-	-	
172	197.5	214.4	209.8	227.7	208.9	-	-	
173	191.0	230.1	213.3	229.0	209.1	-	-	
174	185.0	215.6	202.4	222.5	213.0	-	-	
175	181.6	216.2	203.2	236.8	221.7	-	-	
176	194.7	197.4	195.2	216.6	200.2	214.6	225.3	
177	186.6	206.4	209.8	223.3	213.2	238.9	269.3	
178	180.5	206.0	193.5	223.0	209.1	217.0	221.7	
179	171.9	208.5	189.4	220.3	203.5	225.3	237.2	
180	231.9	267.3	256.3	296.5	287.3	293.4	291.2	
Mean	193.47	217.13	209.75	230.53	220.42	237.84	248.94	
SD	17.74	19.32	19.09	23.60	23.19	32.48	30.16	
N	15	15	15	15	15	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-2      Body Weight - Individual Data

Sex: Female	Body Weight (g)				
Group 6: 30 µg/ animal		22	25	29	30
166	-	-	-	-	-
167	-	-	-	-	-
168	-	-	-	-	-
169	-	-	-	-	-
170	-	-	-	-	-
171	-	-	-	-	-
172	-	-	-	-	-
173	-	-	-	-	-
174	-	-	-	-	-
175	-	-	-	-	-
176	234.1	247.4	255.9	251.5	
177	253.2	263.1	265.9	265.7	
178	235.8	236.6	253.6	242.0	
179	241.9	247.3	264.5	258.8	
180	315.4	317.1	330.8	323.5	
Mean	256.08	262.30	274.14	268.30	
SD	33.99	32.06	32.12	32.09	
N	5	5	5	5	

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TABLE 3-2 Body Weight - Individual Data

Sex: Female	Body Weight (g)	Day(s) Relative to Start Date						Rat
		-7	-1	1	2	8	9	
<b>Group 7: 100 µg/ animal BNT162b2</b>								
196	230.6	-	241.3	232.0	247.8	246.3	271.6	
197	182.6	-	199.0	195.1	219.5	207.3	210.8	
198	171.6	-	196.5	187.2	217.2	207.6	223.7	
199	182.0	-	204.8	180.1	211.1	197.1	228.9	
200	235.1	-	264.2	245.2	266.6	259.2	274.7	
201	188.8	-	214.8	198.7	229.5	220.8	248.2	
202	186.3	-	208.0	196.6	221.7	209.4	213.0	
203	198.3	-	227.5	209.9	235.0	228.9	245.4	
204	199.6	-	237.1	228.5	251.0	253.4	248.1	
205	196.3	-	227.6	212.7	234.7	228.3	245.2	
206	179.0	-	208.4	194.5	213.0	203.4	232.0	
207	193.8	-	215.6	202.9	219.1	212.6	233.8	
208	174.6	-	188.3	185.7	195.1	194.3	211.7	
209	182.6	-	210.9	200.5	223.0	214.7	228.9	
210	187.3	-	228.1	214.9	237.9	227.9	257.5	
Mean	192.57	-	218.14	205.63	228.15	220.75	238.23	
SD	18.31	-	19.76	18.37	17.99	19.85	20.09	
N	15	-	15	15	15	15	15	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-2      Body Weight - Individual Data

Sex: Female	Body Weight (g)	Day(s) Relative to Start Date					
		16	18	22	25	29	32
<b>Group 7: 100 µg/ animal BNT162b2</b>							
196	270.2	-	-	-	-	-	-
197	215.4	-	-	-	-	-	-
198	215.2	-	-	-	-	-	-
199	210.2	-	-	-	-	-	-
200	265.5	-	-	-	-	-	-
201	227.1	-	-	-	-	-	-
202	215.1	-	-	-	-	-	-
203	238.2	-	-	-	-	-	-
204	256.7	-	-	-	-	-	-
205	231.4	-	-	-	-	-	-
206	217.7	231.3	236.5	246.3	255.8	262.7	263.5
207	230.8	245.3	247.7	256.7	268.8	271.9	277.7
208	216.2	221.3	220.4	229.3	238.6	240.8	248.9
209	225.1	239.6	251.7	258.0	270.3	274.3	282.0
210	240.7	255.5	270.1	280.4	290.8	293.1	300.6
Mean	231.70	238.60	245.28	254.14	264.86	268.56	274.54
SD	19.18	13.08	18.43	18.64	19.30	19.05	19.52
N	15	5	5	5	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 3-2      Body Weight - Individual Data

Sex: Female	Body Weight (g)	Rat
Group 7: 100 µg/ animal	Day(s) Relative to Start Date	
BNT162b2	37	
196	-	
197	-	
198	-	
199	-	
200	-	
201	-	
202	-	
203	-	
204	-	
205	-	
206	253.5	
207	273.8	
208	238.8	
209	271.3	
210	295.8	
Mean	266.64	
SD	21.63	
N	5	

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RNA Platforms encoding for Viral Proteins

TABLE 3-3 Body Weight Gain - Summary

Sex: Male		Day(s) Relative to Start Date													
		1 → 2		1 → 8		1 → 9		1 → 15		1 → 16		16 → 18		16 → 22	
Group 1: Control	Mean SD N	2.06 1.33 15	17.97 3.46 15	21.34 3.76 15	35.25 4.75 15	37.14 4.80 15	1.29 1.26 5	6.19 2.26 5							
Group 2: 30 µg/ animal BNT162a1	Mean SD N	-4.30 2.23 15	12.23 3.49 15	6.31 4.18 15	20.60 7.32 15	15.14 6.02 15	4.46 2.72 5	12.27 3.47 5							
Group 3: 10 µg/ animal BNT162a1	Mean SD N	-3.51 1.94 15	8.94 3.06 15	2.93 3.14 15	15.71 4.06 15	11.87 4.61 15	4.84 1.57 5	10.86 0.53 5							
Group 4: 30 µg/ animal BNT162b1	Mean SD N	-2.61 1.19 15	15.71 1.83 15	13.63 2.60 15	28.43 4.14 15	25.24 4.20 15	6.06 1.59 5	12.10 2.03 5							
Group 5: 100 µg/ animal BNT162b1	Mean SD N	-8.87 1.89 15	3.88 2.37 15	-3.50 3.52 15	12.41 4.18 15	5.95 4.68 15	7.83 1.97 5	13.49 2.11 5							

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 RNA Platforms encoding for Viral Proteins

TABLE 3-3 Body Weight Gain - Summary

Body Weight Gain (%)		Day(s) Relative to Start Date						
Sex: Male		1 → 2	1 → 8	1 → 9	9 → 15	9 → 18	9 → 22	9 → 25
Group 6: 30 µg/ animal	Mean SD N	-4.79 2.10 15	5.54 3.57 15	-0.77 3.63 15	10.03 0.87 5	15.69 3.43 5	22.03 3.63 5	26.48 3.18 5
BNT162c1		-	-	-	-	-	-	-

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-3 Body Weight Gain - Summary

Body Weight Gain (%)		Day(s) Relative to Start Date						
Sex: Male		1 → 2	1 → 8	1 → 9	1 → 15	1 → 16	16 → 18	16 → 22
Group 7: 100 µg/ animal	BNT162b2	Mean SD N	-7.34 2.02 15	4.06 1.61 15	-4.07 2.59 15	11.69 2.88 15	4.82 3.41 15	4.69 2.59 5
				-	-	-	-	-

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-3 Body Weight Gain - Summary

Sex: Male		Day(s) Relative to Start Date					
		16 → 25	16 → 29	16 → 32	16 → 36	16 → 37	
Group 1: Control	Mean SD N	7.78 2.20 5	14.52 1.57 5	17.09 1.80 5	19.35 2.43 5	20.35 2.22 5	
Group 2: 30 µg/ animal BNT162a1	Mean SD N	18.00 3.69 5	28.37 3.00 5	30.54 3.62 5	35.16 4.80 5	36.68 6.31 5	
Group 3: 10 µg/ animal BNT162a1	Mean SD N	16.87 1.90 5	20.31 1.92 5	21.47 2.68 5	24.91 3.60 5	25.56 3.64 5	
Group 4: 30 µg/ animal BNT162b1	Mean SD N	16.43 4.31 5	22.97 6.22 5	25.68 8.45 5	28.83 9.49 5	29.45 7.98 5	
Group 5: 100 µg/ animal BNT162b1	Mean SD N	20.63 3.04 5	25.14 2.37 5	27.38 4.60 5	28.95 4.47 5	29.55 3.84 5	

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RNA Platforms encoding for Viral Proteins

TABLE 3-3 Body Weight Gain - Summary

Body Weight Gain (%)	Rat		
Sex: Male	Body Weight Gain - Summary		
	Day(s) Relative to Start Date		
	<i>9 → 29</i>		
Group 6: 30 µg/ animal BNT162c1	Mean SD N	27.42 2.94 5	27.88 2.36 5
		-	-

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-3 Body Weight Gain - Summary

Body Weight Gain (%)		Day(s) Relative to Start Date				Rat	
Sex: Male		16 → 25	16 → 29	16 → 32	16 → 36	16 → 37	
Group 7: 100 µg/ animal	BNT162b2	Mean SD	18.21 3.18	22.80 4.24	25.27 3.17	27.09 2.73	28.90 4.10
		N	5	5	5	5	5
			-	-	-	-	-

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-3 Body Weight Gain - Summary

Sex: Female		Day(s) Relative to Start Date											
		1 → 2		1 → 8		1 → 9		1 → 15		1 → 16		16 → 18	
Group 1: Control	Mean SD N	1.32 1.94 15	9.19 3.95 15	11.67 4.48 15	17.66 3.15 15	16.70 3.82 15	5.88 5.01 5	8.00 3.56 5					
Group 2: 30 µg/ animal BNT162a1	Mean SD N	-1.94 2.10 15	9.69 5.47 15	5.83 5.55 15	16.29 7.23 15	10.04 5.98 15	6.92 2.68 5	9.68 3.00 5					
Group 3: 10 µg/ animal BNT162a1	Mean SD N	-1.61 2.33 15	8.05 4.25 15	4.29 2.98 15	13.15 6.03 15	10.98 4.85 15	4.97 4.28 5	6.24 1.40 5					
Group 4: 30 µg/ animal BNT162b1	Mean SD N	0.10 1.86 15	9.70 6.04 15	9.50 5.44 15	20.79 6.86 15	17.05 7.25 15	8.15 4.69 5	9.94 3.49 5					
Group 5: 100 µg/ animal BNT162b1	Mean SD N	-4.53 1.76 15	9.18 3.72 15	3.60 2.76 15	14.78 7.38 15	10.34 6.39 15	9.29 4.90 5	14.13 8.65 5					

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RNA Platforms encoding for Viral Proteins

TABLE 3-3 Body Weight Gain - Summary

Sex: Female		Day(s) Relative to Start Date						
		1 → 2	1 → 8	1 → 9	9 → 15	9 → 18	9 → 22	9 → 25
Group 6: 30 µg/ animal BNT162c1	Mean	-3.33	6.16	1.49	7.17	12.56	15.42	18.41
	SD	4.18	4.77	4.56	4.28	9.66	4.01	6.20
N	15	15	15	5	5	5	5	5
-	-	-	-	-	-	-	-	-

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-3 Body Weight Gain - Summary

Body Weight Gain (%)		Day(s) Relative to Start Date						
Sex: Female		1 → 2	1 → 8	1 → 9	1 → 15	1 → 16	16 → 18	16 → 22
Group 7: 100 µg/ animal	BNT162b2	Mean SD	-5.69 2.59	4.71 2.91	1.24 2.99	9.33 3.95	6.35 3.85	5.50 1.76
		N	15	15	15	15	5	5
			-	-	-	-	-	-

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3-3      Body Weight Gain - Summary

Sex: Female		Day(s) Relative to Start Date					
	Body Weight Gain (%)	16 → 25	16 → 29	16 → 32	16 → 36	16 → 37	
Group 1: Control	Mean SD N	8.60 3.84 5	11.89 3.96 5	13.91 4.64 5	18.28 3.49 5	17.10 5.13 5	
Group 2: 30 µg/ animal BNT162a1	Mean SD N	13.04 4.97 5	17.60 3.93 5	19.64 5.99 5	22.48 4.58 5	23.62 6.47 5	
Group 3: 10 µg/ animal BNT162a1	Mean SD N	8.49 1.12 5	13.76 2.54 5	14.00 2.81 5	15.28 2.36 5	15.77 1.50 5	
Group 4: 30 µg/ animal BNT162b1	Mean SD N	10.60 3.14 5	15.71 2.80 5	16.49 2.31 5	19.29 2.31 5	17.35 2.36 5	
Group 5: 100 µg/ animal BNT162b1	Mean SD N	20.92 10.19 5	21.76 5.26 5	21.04 5.58 5	24.59 3.52 5	24.62 3.78 5	

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RNA Platforms encoding for Viral Proteins

TABLE 3-3 Body Weight Gain - Summary

Sex: Female	Day(s) Relative to Start Date		
	9 → 29	9 → 30	
Group 6: 30 µg/ animal BNT162c1	Mean SD N	23.79 5.84 5	21.15 6.53 5

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RNA Platforms encoding for Viral Proteins

TABLE 3-3 Body Weight Gain - Summary

Body Weight Gain (%)		Day(s) Relative to Start Date			
Sex: Female		16 → 25	16 → 29	16 → 32	16 → 36
Group 7: 100 µg/ animal	BNT162b2	Mean SD	12.31 3.99	17.04 4.14	18.70 4.41
		N	5	5	5
			-	-	-

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TABLE 3.4 Body Weight Gain - Individual Data

Sex: Male	Body Weight Gain (%)	Day(s) Relative to Start Date						Rat			
		1 → 2		1 → 8		1 → 9		1 → 15	1 → 16	16 → 18	16 → 22
1	1.7	17.4		21.0		35.4		35.7		-	-
2	0.6	17.0		18.3		31.0		33.0		-	-
3	3.3	22.5		25.2		41.2		43.4		-	-
4	3.6	18.8		21.5		34.5		36.0		-	-
5	2.1	19.6		21.3		31.7		33.7		-	-
6	3.0	19.1		22.0		41.5		42.9		-	-
7	3.2	19.1		23.5		36.0		37.5		-	-
8	0.9	16.5		20.5		31.7		33.6		-	-
9	3.0	24.3		28.5		46.5		47.2		-	-
10	1.0	19.8		24.4		33.7		34.8		-	-
11	2.2	16.9		20.3		31.0		34.4		0.2	3.8
12	2.6	9.5		12.4		34.2		38.4		-0.2	6.0
13	-1.1	14.0		18.8		30.4		31.3		2.7	8.4
14	1.1	15.9		18.3		31.3		32.4		2.2	4.2
15	3.6	19.2		24.3		38.5		42.9		1.6	8.5
Mean	2.06	17.97		21.34		35.25		37.14		1.29	6.19
SD	1.33	3.46		3.76		4.75		4.80		1.26	2.26
N	15	15		15		15		15		5	5

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RNA Platforms encoding for Viral Proteins

TABLE 3.4      Body Weight Gain - Individual Data

Sex: Male	Body Weight Gain (%)	Day(s) Relative to Start Date			Rat
Group 1: Control		16 → 25	16 → 29	16 → 32	16 → 36
1	-	-	-	-	-
2	-	-	-	-	-
3	-	-	-	-	-
4	-	-	-	-	-
5	-	-	-	-	-
6	-	-	-	-	-
7	-	-	-	-	-
8	-	-	-	-	-
9	-	-	-	-	-
10	5.8	13.4	14.4	15.3	16.7
11	5.3	12.6	17.5	20.4	22.4
12	10.5	16.5	18.1	21.3	21.2
13	8.9	15.6	19.0	18.9	19.9
14	8.4	14.6	16.4	20.8	21.5
Mean	7.78	14.52	17.09	19.35	20.35
SD	2.20	1.57	1.80	2.43	2.22
N	5	5	5	5	5

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TABLE 3.4 Body Weight Gain - Individual Data

Sex: Male	Body Weight Gain (%)	Day(s) Relative to Start Date						Rat
		1 → 2	1 → 8	1 → 9	1 → 15	1 → 16	16 → 18	
<b>Group 2: 30 µg/ animal BNT162a1</b>								
31	-4.6	5.6	-0.9	14.7	7.8	-	-	-
32	-10.2	13.3	5.1	17.4	13.8	-	-	-
33	-1.2	19.1	13.1	35.6	24.6	-	-	-
34	-4.9	10.9	4.4	15.7	11.6	-	-	-
35	-4.4	12.0	6.8	21.9	16.3	-	-	-
36	-4.5	13.9	9.7	22.0	18.4	-	-	-
37	-5.2	9.8	4.7	18.5	14.2	-	-	-
38	-2.8	14.9	5.6	21.2	16.2	-	-	-
39	-7.8	7.7	-1.0	3.8	0.4	-	-	-
40	-3.5	9.2	3.6	15.4	10.2	-	-	-
41	-3.2	12.9	10.8	22.5	17.6	-	-	-
42	-2.9	10.7	5.1	18.9	14.3	2.7	8.4	11.4
43	-2.5	14.3	12.0	26.8	20.8	3.9	17.5	10.5
44	-3.0	12.3	5.9	25.6	20.6	3.3	3.1	13.6
45	-3.9	17.0	9.8	28.8	20.1	-	-	-
Mean	-4.30	12.23	6.31	20.60	15.14	4.46	12.27	
SD	2.23	3.49	4.18	7.32	6.02	2.72	3.47	
N	15	15	15	15	15	5	5	

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TABLE 3.4 Body Weight Gain - Individual Data

Sex: Male	Body Weight Gain (%)	Day(s) Relative to Start Date			Rat
Group 2: 30 µg/ animal BNT162a1		16 → 25	16 → 29	16 → 32	16 → 36
31	-	-	-	-	-
32	-	-	-	-	-
33	-	-	-	-	-
34	-	-	-	-	-
35	-	-	-	-	-
36	-	-	-	-	-
37	-	-	-	-	-
38	-	-	-	-	-
39	-	-	-	-	-
40	13.0	24.0	25.7	29.0	29.3
41	16.8	27.4	28.0	34.0	34.3
42	23.3	31.9	34.8	42.2	46.4
43	18.6	28.1	32.3	33.9	35.2
44	18.3	30.4	31.9	36.6	38.2
Mean	18.00	28.37	30.54	35.16	36.68
SD	3.69	3.00	3.62	4.80	6.31
N	5	5	5	5	5

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TABLE 3.4 Body Weight Gain - Individual Data

Sex: Male	Body Weight Gain (%)	Day(s) Relative to Start Date						Rat
		1 → 2	1 → 8	1 → 9	1 → 15	1 → 16	16 → 18	
<b>Group 3: 10 µg/ animal BNT162a1</b>								
61	-4.0	7.1	3.4	15.8	10.4	-	-	-
62	-5.8	8.7	-0.3	14.2	12.0	-	-	-
63	1.3	9.1	5.0	15.9	11.6	-	-	-
64	-4.0	6.5	0.3	11.5	10.3	-	-	-
65	-2.7	13.5	7.8	23.3	21.1	-	-	-
66	-5.4	1.5	-2.1	8.3	2.4	-	-	-
67	-3.2	11.9	4.6	17.6	14.0	-	-	-
68	-6.6	6.6	-1.9	10.3	3.9	-	-	-
69	-2.9	6.9	2.6	17.0	13.6	-	-	-
70	-3.1	11.0	3.6	14.8	11.3	-	-	-
71	-2.5	12.9	7.0	20.9	14.1	-	-	-
72	-2.5	8.9	5.3	18.1	14.2	3.8	11.0	10.4
73	-1.6	8.9	1.7	13.2	9.3	2.7	11.5	11.1
74	-4.6	8.8	0.8	14.3	12.6	5.7	11.1	10.2
75	-5.1	11.8	6.3	20.5	17.3	6.6	-	-
Mean	-3.51	8.94	2.93	15.71	11.87	4.84	10.86	
SD	1.94	3.06	3.14	4.06	4.61	1.57	0.53	
N	15	15	15	15	15	5	5	

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TABLE 3.4 Body Weight Gain - Individual Data

Sex: Male	Body Weight Gain (%)	Day(s) Relative to Start Date			Rat
Group 3: 10 µg/ animal BNT162a1		16 → 25	16 → 29	16 → 32	16 → 36
61	-	-	-	-	-
62	-	-	-	-	-
63	-	-	-	-	-
64	-	-	-	-	-
65	-	-	-	-	-
66	-	-	-	-	-
67	-	-	-	-	-
68	-	-	-	-	-
69	-	-	-	-	-
70	16.6	21.3	23.6	29.8	-
71	14.1	17.0	16.8	20.3	30.5
72	18.5	20.5	22.6	23.2	20.3
73	16.4	20.9	21.7	24.6	25.5
74	18.8	21.8	22.5	26.7	25.3
75	-	-	-	-	26.3
Mean	16.87	20.31	21.47	24.91	25.56
SD	1.90	1.92	2.68	3.60	3.64
N	5	5	5	5	5

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TABLE 3.4      Body Weight Gain - Individual Data

Sex: Male	Body Weight Gain (%)	Day(s) Relative to Start Date						Rat
		1 → 2	1 → 8	1 → 9	1 → 15	1 → 16	16 → 18	
<b>Group 4: 30 µg/ animal BNT162b1</b>								
91	-1.1	16.5	16.1	29.5	27.3	-	-	-
92	-2.8	16.5	14.1	24.6	22.6	-	-	-
93	-2.0	18.2	15.0	29.3	24.6	-	-	-
94	-1.6	12.8	11.1	22.9	23.9	-	-	-
95	-4.3	13.0	13.7	27.3	23.9	-	-	-
96	-3.4	16.4	14.3	33.9	29.2	-	-	-
97	-2.9	15.0	11.3	29.0	24.3	-	-	-
98	-1.1	16.0	14.9	28.7	26.4	-	-	-
99	-1.5	16.4	15.2	30.9	27.7	-	-	-
100	-3.8	13.3	7.9	22.3	17.1	-	-	-
101	-3.3	14.0	12.4	21.4	19.5	3.3	11.4	9.4
102	-4.4	15.4	12.3	32.2	28.2	6.7	12.6	12.1
103	-1.1	19.2	19.1	35.4	35.2	6.1	7.4	6.8
104	-1.9	16.5	12.2	28.4	23.9	7.4	12.1	15.0
105	-3.8	16.3	14.7	30.6	24.8	6.8	12.1	15.0
Mean	-2.61	15.71	13.63	28.43	25.24	6.06	12.10	
SD	1.19	1.83	2.60	4.14	4.20	1.59	2.03	
N	15	15	15	15	15	5	5	

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TABLE 3.4 Body Weight Gain - Individual Data

Sex: Male	Body Weight Gain (%)	Day(s) Relative to Start Date			Rat	
Group 4: 30 µg/ animal BNT162b1		16 → 25	16 → 29	16 → 32	16 → 36	16 → 37
91	-	-	-	-	-	-
92	-	-	-	-	-	-
93	-	-	-	-	-	-
94	-	-	-	-	-	-
95	-	-	-	-	-	-
96	-	-	-	-	-	-
97	-	-	-	-	-	-
98	-	-	-	-	-	-
99	-	-	-	-	-	-
100	10.9	15.8	14.3	19.4	21.9	
101	15.0	19.3	21.7	20.3	22.0	
102	22.0	29.6	35.6	40.8	40.7	
103	15.0	20.8	24.6	27.5	29.5	
104	19.2	29.4	32.2	36.2	33.2	
Mean	16.43	22.97	25.68	28.83	29.45	
SD	4.31	6.22	8.45	9.49	7.98	
N	5	5	5	5	5	

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TABLE 3.4 Body Weight Gain - Individual Data

Sex: Male	Body Weight Gain (%)	Day(s) Relative to Start Date						Rat
		1 → 2	1 → 8	1 → 9	1 → 15	1 → 16	16 → 18	
<b>Group 5: 100 µg/ animal BNT162b1</b>								
121	-9.7	1.3	-4.3	11.3	7.7	-	-	-
122	-10.5	0.8	-7.1	6.5	1.3	-	-	-
123	-8.3	7.4	2.3	18.3	12.4	-	-	-
124	-3.6	8.7	5.2	20.8	16.5	-	-	-
125	-7.2	1.7	-4.0	10.2	6.0	-	-	-
126	-8.9	3.1	-1.6	14.7	10.1	-	-	-
127	-10.8	5.5	-2.8	14.4	7.5	-	-	-
128	-10.9	4.8	-5.5	12.1	1.3	-	-	-
129	-8.9	3.9	-3.9	8.5	2.0	-	-	-
130	-8.6	6.6	-2.4	18.2	9.5	-	-	-
131	-10.9	2.0	-5.1	10.6	3.2	-	-	-
132	-7.4	4.0	-5.7	11.6	2.8	7.5	13.3	14.0
133	-8.6	1.7	-7.7	8.4	0.8	8.9	16.8	16.8
134	-8.7	4.5	-2.4	12.5	5.9	6.1	11.3	11.3
135	-10.0	2.4	-7.4	7.8	2.3	6.0	12.1	12.1
Mean	-8.87	3.88	-3.50	12.41	5.95	7.83	13.49	
SD	1.89	2.37	3.52	4.18	4.68	1.97	2.11	
N	15	15	15	15	15	5	5	

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TABLE 3.4 Body Weight Gain - Individual Data

Sex: Male	Body Weight Gain (%)				Rat
Group 5: 100 µg/ animal BNT162b1	16 → 25	16 → 29	16 → 32	16 → 36	16 → 37
121	-	-	-	-	-
122	-	-	-	-	-
123	-	-	-	-	-
124	-	-	-	-	-
125	-	-	-	-	-
126	-	-	-	-	-
127	-	-	-	-	-
128	-	-	-	-	-
129	-	-	-	-	-
130	22.7	25.6	29.1	27.4	30.1
131	22.9	24.1	32.2	34.0	33.6
132	22.9	29.0	30.6	33.1	32.8
133	22.9	22.7	22.5	26.9	26.1
134	17.7	24.4	22.5	23.4	25.1
135	16.9				
Mean	20.63	25.14	27.38	28.95	29.55
SD	3.04	2.37	4.60	4.47	3.84
N	5	5	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 3.4      Body Weight Gain - Individual Data

Sex: Male	Body Weight Gain (%)	Day(s) Relative to Start Date						Rat
		1 → 2	1 → 8	1 → 9	9 → 15	9 → 18	9 → 22	
<b>Group 6: 30 µg/ animal BNT162c1</b>								
151	-4.1	4.5	-2.3	-	-	-	-	-
152	-5.1	3.2	-2.3	-	-	-	-	-
153	-6.4	0.7	-3.6	-	-	-	-	-
154	-1.6	9.8	3.4	-	-	-	-	-
155	-4.7	6.3	2.1	-	-	-	-	-
156	-2.6	6.0	-1.1	-	-	-	-	-
157	-4.8	6.9	1.3	-	-	-	-	-
158	-7.8	-1.6	-6.8	-	-	-	-	-
159	-1.4	8.4	5.5	-	-	-	-	-
160	-7.4	4.8	-4.0	-	-	-	-	-
161	-4.4	5.6	-1.9	11.1	19.8	23.3	24.0	-
162	-6.8	3.5	-3.4	9.2	11.1	17.2	24.5	-
163	-4.7	9.7	3.6	10.1	17.4	22.8	26.7	-
164	-7.5	3.3	-4.9	9.1	13.3	20.0	25.3	-
165	-2.5	12.1	2.8	10.6	16.8	26.8	31.9	-
Mean	-4.79	5.54	-0.77	10.03	15.69	22.03	26.48	
SD	2.10	3.57	3.63	0.87	3.43	3.63	3.18	
N	15	15	15	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 3.4 Body Weight Gain - Individual Data

Sex: Male	Body Weight Gain (%)		Rat
Group 6: 30 µg/ animal BNT162c1	Day(s) Relative to Start Date		
	9 → 29	9 → 30	
151	-	-	
152	-	-	
153	-	-	
154	-	-	
155	-	-	
156	-	-	
157	-	-	
158	-	-	
159	-	-	
160	-	-	
161	23.1	25.0	
162	28.5	26.4	
163	26.4	27.8	
164	28.0	29.0	
165	31.1	31.2	
Mean	27.42	27.88	
SD	2.94	2.36	
N	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 3.4 Body Weight Gain - Individual Data

Sex: Male	Body Weight Gain (%)	Day(s) Relative to Start Date						Rat
		1 → 2	1 → 8	1 → 9	1 → 15	1 → 16	16 → 18	
<b>Group 7: 100 µg/ animal BNT162b2</b>								
181	-3.2	5.0	-1.7	9.8	4.5	-	-	-
182	-10.0	2.8	-6.4	9.0	1.0	-	-	-
183	-10.1	6.5	-2.6	13.8	6.3	-	-	-
184	-8.2	6.0	-1.9	14.1	6.6	-	-	-
185	-8.8	3.3	-6.7	11.5	3.6	-	-	-
186	-7.9	5.8	-6.6	11.5	5.4	-	-	-
187	-8.7	2.9	-8.1	6.6	-1.8	-	-	-
188	-7.3	5.4	-2.3	17.6	8.8	-	-	-
189	-8.7	2.4	-7.5	10.0	3.7	-	-	-
190	-8.2	6.1	-0.2	16.5	10.7	-	-	-
191	-5.9	3.4	-4.5	11.7	4.9	2.2	10.2	9.6
192	-6.2	2.9	-2.4	11.2	6.4	3.1	8.6	8.6
193	-4.0	4.5	-1.2	12.0	8.7	3.3	17.7	14.0
194	-7.0	2.2	-6.1	9.1	-0.4	8.4	-	-
195	-5.7	1.9	-2.9	11.0	4.0	6.4	-	-
Mean	7.34	4.06	-4.07	11.69	4.82	4.69	12.02	
SD	2.02	1.61	2.59	2.88	3.41	2.59	3.78	
N	15	15	15	15	15	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 3.4 Body Weight Gain - Individual Data

Sex: Male	Body Weight Gain (%)	Day(s) Relative to Start Date			Rat	
Group 7: 100 µg/ animal BNT162b2		16 → 25	16 → 29	16 → 32	16 → 36	16 → 37
181	-	-	-	-	-	-
182	-	-	-	-	-	-
183	-	-	-	-	-	-
184	-	-	-	-	-	-
185	-	-	-	-	-	-
186	-	-	-	-	-	-
187	-	-	-	-	-	-
188	-	-	-	-	-	-
189	-	-	-	-	-	-
190	17.8	22.4	25.9	27.4	31.1	
191	15.2	17.8	21.2	24.3	23.6	
192	16.1	19.9	22.9	24.3	25.5	
193	23.4	28.3	28.9	29.8	32.7	
194	18.6	25.6	27.4	29.6	31.6	
Mean	18.21	22.80	25.27	27.09	28.90	
SD	3.18	4.24	3.17	2.73	4.10	
N	5	5	5	5	5	

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TABLE 3.4 Body Weight Gain - Individual Data

Sex: Female	Body Weight Gain (%)	Day(s) Relative to Start Date						Rat
		1 → 2	1 → 8	1 → 9	1 → 15	1 → 16	16 → 18	
Group 1: Control								
16	4.7	13.6	12.0	21.9	22.6	-	-	-
17	3.5	18.2	24.0	22.3	21.7	-	-	-
18	2.4	6.3	10.6	18.1	18.3	-	-	-
19	0.5	7.1	8.4	17.9	14.8	-	-	-
20	-0.4	7.0	6.5	14.1	14.4	-	-	-
21	0.7	13.1	11.6	16.1	17.6	-	-	-
22	0.9	6.9	11.0	14.2	13.4	-	-	-
23	1.4	7.7	10.6	17.6	17.7	-	-	-
24	2.4	9.1	11.6	18.7	20.3	-	-	-
25	1.6	11.3	11.7	16.2	17.2	-	-	-
26	-0.9	3.6	4.0	10.8	9.6	1.7	9.2	12.7
27	3.7	8.0	15.3	21.0	14.4	11.1	-	-
28	0.7	13.1	15.1	19.5	22.0	-0.4	2.8	-
29	-3.1	8.5	12.9	16.5	12.7	7.6	8.0	-
30	1.7	4.2	9.6	20.1	13.8	9.5	7.4	-
Mean	1.32	9.19	11.67	17.66	16.70	5.88	8.00	-
SD	1.94	3.95	4.48	3.15	3.82	5.01	3.56	-
N	15	15	15	15	15	5	5	-

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RNA Platforms encoding for Viral Proteins

TABLE 3.4 Body Weight Gain - Individual Data

Sex: Female	Body Weight Gain (%)	Day(s) Relative to Start Date			Rat
Group 1: Control		16 → 25	16 → 29	16 → 32	16 → 36
16	-	-	-	-	-
17	-	-	-	-	-
18	-	-	-	-	-
19	-	-	-	-	-
20	-	-	-	-	-
21	-	-	-	-	-
22	-	-	-	-	-
23	-	-	-	-	-
24	-	-	-	-	-
25	5.6	7.5	6.0	13.4	10.1
26	11.8	17.4	17.9	21.2	21.4
27	4.1	8.6	14.1	21.5	22.2
28	13.0	13.4	16.2	16.1	18.0
29	8.5	12.5	15.4	19.3	13.7
Mean	8.60	11.89	13.91	18.28	17.10
SD	3.84	3.96	4.64	3.49	5.13
N	5	5	5	5	5

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TABLE 3.4 Body Weight Gain - Individual Data

Sex: Female	Body Weight Gain (%)	Day(s) Relative to Start Date						Rat
		1 → 2	1 → 8	1 → 9	1 → 15	1 → 16	16 → 18	
<b>Group 2: 30 µg/ animal BNT162a1</b>								
46	-3.4	7.7	4.6	9.4	4.0	-	-	-
47	-4.8	9.4	7.3	11.2	8.3	-	-	-
48	-0.6	11.7	11.4	26.0	23.6	-	-	-
49	-1.8	8.0	0.1	14.7	6.7	-	-	-
50	-4.0	2.3	4.0	13.1	8.8	-	-	-
51	-3.6	13.8	1.4	13.5	5.7	-	-	-
52	-0.1	12.6	12.7	31.6	19.6	-	-	-
53	0.8	14.7	10.5	23.2	12.7	-	-	-
54	-4.3	7.7	2.5	9.2	4.8	-	-	-
55	-3.7	10.7	4.0	13.8	9.6	-	-	-
56	1.0	12.2	10.2	22.1	15.3	-	-	-
57	-1.9	9.7	7.6	17.6	10.8	-	-	-
58	0.1	8.0	3.0	13.0	5.8	-	-	-
59	0.8	20.3	14.5	21.1	12.9	-	-	-
60	-3.7	-3.5	-6.5	4.8	2.0	-	-	-
Mean	-1.94	9.69	5.83	16.29	10.04	6.92	9.68	
SD	2.10	5.47	5.55	7.23	5.98	2.68	3.00	
N	15	15	15	15	15	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 3.4 Body Weight Gain - Individual Data

Sex: Female	Body Weight Gain (%)	Day(s) Relative to Start Date			Rat
Group 2: 30 µg/ animal BNT162a1		16 → 25	16 → 29	16 → 32	16 → 36
46	-	-	-	-	-
47	-	-	-	-	-
48	-	-	-	-	-
49	-	-	-	-	-
50	-	-	-	-	-
51	-	-	-	-	-
52	-	-	-	-	-
53	-	-	-	-	-
54	-	-	-	-	-
55	-	-	-	-	-
56	14.0	24.5	27.8	24.4	26.1
57	11.4	15.1	13.9	16.0	15.3
58	20.8	17.1	22.7	27.4	32.5
59	11.7	15.8	20.0	24.9	24.2
60	7.3	15.5	13.8	19.7	20.1
Mean	13.04	17.60	19.64	22.48	23.62
SD	4.97	3.93	5.99	4.58	6.47
N	5	5	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 3.4      Body Weight Gain - Individual Data

Sex: Female	Body Weight Gain (%)	Day(s) Relative to Start Date						Rat
		1 → 2	1 → 8	1 → 9	1 → 15	1 → 16	16 → 18	
<b>Group 3: 10 µg/ animal BNT162a1</b>								
76	-5.6	100	3.3	19.3	16.0	-	-	-
77	-2.4	6.0	2.0	7.8	3.6	-	-	-
78	-3.8	8.6	5.9	14.9	8.9	-	-	-
79	-1.9	7.0	4.2	15.1	12.9	-	-	-
80	-2.5	3.3	2.1	6.7	8.6	-	-	-
81	1.4	19.0	12.8	11.9	14.6	-	-	-
82	-3.8	11.8	7.3	11.7	11.6	-	-	-
83	1.0	11.0	5.3	12.2	11.0	-	-	-
84	0.6	9.3	4.9	17.2	15.1	-	-	-
85	2.4	9.2	3.1	13.3	10.8	-	-	-
86	-4.0	3.0	1.5	4.8	3.1	-	-	-
87	-3.0	8.2	3.7	29.7	21.9	6.2	7.3	4.4
88	-2.2	2.9	1.4	9.9	7.3	11.7	1.6	5.8
89	0.6	3.5	1.5	9.0	7.9	4.3	4.3	5.7
90	-1.0	8.0	5.4	13.7	11.5	1.0	1.0	7.9
Mean	-1.61	8.05	4.29	13.15	10.98	4.97	6.24	6.24
SD	2.33	4.25	2.98	6.03	4.85	4.28	1.40	1.40
N	15	15	15	15	15	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 3.4 Body Weight Gain - Individual Data

Sex: Female	Body Weight Gain (%)	Day(s) Relative to Start Date			Rat
Group 3: 10 µg/ animal BNT162a1	16 → 25	16 → 29	16 → 32	16 → 36	16 → 37
76	-	-	-	-	-
77	-	-	-	-	-
78	-	-	-	-	-
79	-	-	-	-	-
80	-	-	-	-	-
81	-	-	-	-	-
82	-	-	-	-	-
83	-	-	-	-	-
84	-	-	-	-	-
85	-	-	-	-	-
86	10.0	13.7	14.1	17.0	17.4
87	7.0	11.0	13.9	11.5	13.6
88	9.0	15.6	9.5	15.8	16.3
89	8.2	16.9	15.4	14.8	15.0
90	8.3	11.5	17.0	17.3	16.6
Mean	8.49	13.76	14.00	15.28	15.77
SD	1.12	2.54	2.81	2.36	1.50
N	5	5	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 3.4      Body Weight Gain - Individual Data

Sex: Female	Body Weight Gain (%)	Day(s) Relative to Start Date						Rat
		1 → 2	1 → 8	1 → 9	1 → 15	1 → 16	16 → 18	
<b>Group 4: 30 µg/ animal BNT162b1</b>								
106	-1.2	101	8.3	29.0	24.8	-	-	-
107	0.2	9.4	7.2	12.1	10.2	-	-	-
108	-1.3	15.2	13.1	20.2	17.6	-	-	-
109	1.1	18.5	21.2	36.2	35.0	-	-	-
110	0.1	-0.4	4.0	15.7	16.0	-	-	-
111	2.6	10.6	11.8	17.1	16.3	-	-	-
112	-2.0	-0.6	9.5	14.4	13.7	-	-	-
113	-1.0	16.1	14.0	28.2	22.8	-	-	-
114	0.5	10.1	8.3	22.2	14.4	-	-	-
115	3.8	12.9	8.4	20.3	20.3	-	-	-
116	2.1	6.8	8.8	23.1	14.0	-	-	-
117	-0.7	7.0	4.2	15.9	12.9	11.1	11.8	10.3
118	0.9	18.6	18.0	27.4	22.8	7.4	5.9	14.5
119	-3.4	3.0	0.6	13.5	6.6	0.5	12.5	7.2
120	-0.2	7.9	5.1	16.7	8.4	9.2	-	-
Mean	0.10	9.70	9.50	20.79	17.05	8.15	9.94	
SD	1.86	6.04	5.44	6.86	7.25	4.69	3.49	
N	15	15	15	15	15	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 3.4 Body Weight Gain - Individual Data

Sex: Female	Body Weight Gain (%)	Day(s) Relative to Start Date			Rat
Group 4: 30 µg/ animal BNT162b1		16 → 25	16 → 29	16 → 32	16 → 36
106	-	-	-	-	-
107	-	-	-	-	-
108	-	-	-	-	-
109	-	-	-	-	-
110	-	-	-	-	-
111	-	-	-	-	-
112	-	-	-	-	-
113	-	-	-	-	-
114	-	-	-	-	-
115	-	-	-	-	-
116	9.9	14.3	17.7	19.4	18.5
117	6.8	12.5	12.8	16.6	16.2
118	8.6	14.9	17.7	18.4	17.4
119	13.6	19.8	18.5	22.9	20.4
120	14.1	17.1	15.7	19.2	14.2
Mean	10.60	15.71	16.49	19.29	17.35
SD	3.14	2.80	2.31	2.31	2.36
N	5	5	5	5	5

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TABLE 34 Body Weight Gain - Individual Data

Sex: Female	Body Weight Gain (%)	Day(s) Relative to Start Date						Rat
		1 → 2	1 → 8	1 → 9	1 → 15	1 → 16	16 → 18	
<b>Group 5: 100 µg/ animal BNT162b1</b>								
136	-3.7	10.4	6.0	24.6	20.1	-	-	-
137	-5.1	13.4	6.1	16.6	10.4	-	-	-
138	-1.2	4.9	2.1	10.2	6.3	-	-	-
139	-5.1	7.4	5.6	11.0	13.2	-	-	-
140	-2.0	10.2	4.4	13.2	12.3	-	-	-
141	-6.1	6.1	2.2	5.7	-0.4	-	-	-
142	-4.4	11.7	3.2	15.0	10.4	-	-	-
143	-3.8	8.4	5.4	24.1	21.3	-	-	-
144	-7.8	15.6	7.7	29.6	18.4	-	-	-
145	-4.6	8.3	2.6	8.9	6.0	-	-	-
146	-2.4	13.7	2.8	11.9	7.1	-	-	-
147	-6.5	3.2	-1.1	8.1	5.7	15.4	26.8	7.6
148	-5.7	11.2	3.1	21.2	10.7	4.8	7.6	7.6
149	-4.1	9.6	6.2	17.0	12.9	3.8	19.4	19.4
150	-5.3	3.6	-2.4	4.6	0.8	10.7	11.8	9.2
Mean	-4.53	9.18	3.60	14.78	10.34	9.29	14.13	
SD	1.76	3.72	2.76	7.38	6.39	4.90	8.65	
N	15	15	15	15	15	5	5	5

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TABLE 3.4 Body Weight Gain - Individual Data

Sex: Female	Body Weight Gain (%)	Day(s) Relative to Start Date			Rat
Group 5: 100 µg/ animal BNT162b1		16 → 25	16 → 29	16 → 32	16 → 36
136	-	-	-	-	-
137	-	-	-	-	-
138	-	-	-	-	-
139	-	-	-	-	-
140	-	-	-	-	-
141	-	-	-	-	-
142	-	-	-	-	-
143	-	-	-	-	-
144	-	-	-	-	-
145	-	-	-	-	-
146	35.9	28.0	28.4	29.1	28.7
147	10.1	15.0	12.8	19.4	19.3
148	16.7	18.5	20.3	25.2	23.2
149	26.3	25.7	22.4	23.6	24.0
150	15.6	21.6	21.3	25.7	27.8
Mean	20.92	21.76	21.04	24.59	24.62
SD	10.19	5.26	5.58	3.52	3.78
N	5	5	5	5	5

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TABLE 3.4 Body Weight Gain - Individual Data

Sex: Female	Body Weight Gain (%)	Day(s) Relative to Start Date						Rat
		1 → 2	1 → 8	1 → 9	9 → 15	9 → 18	9 → 22	
<b>Group 6: 30 µg/ animal BNT162c1</b>								
166	2.3	9.6	6.0	-	-	-	-	-
167	-5.9	6.7	2.5	-	-	-	-	-
168	-8.4	-0.8	-2.3	-	-	-	-	-
169	1.0	14.6	7.9	-	-	-	-	-
170	-2.9	3.2	1.1	-	-	-	-	-
171	4.3	-2.2	6.3	-	-	-	-	-
172	-2.1	6.2	-2.6	-	-	-	-	-
173	-7.3	-0.5	-9.1	-	-	-	-	-
174	-6.1	3.2	-1.2	-	-	-	-	-
175	-6.0	9.5	2.5	-	-	-	-	-
176	-1.1	9.7	1.4	7.2	12.5	16.9	23.6	-
177	1.6	8.2	3.3	12.1	26.3	18.8	23.4	-
178	-6.1	8.3	1.5	3.8	6.0	12.8	13.2	-
179	-9.2	5.7	-2.4	10.7	16.6	18.9	21.5	-
180	-4.1	10.9	7.5	2.1	1.4	9.8	10.4	-
Mean	-3.33	6.16	1.49	7.17	12.56	15.42	18.41	
SD	4.18	4.77	4.56	4.28	9.66	4.01	6.20	
N	15	15	15	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 3.4 Body Weight Gain - Individual Data

Sex: Female	Body Weight Gain (%)		Rat
Group 6: 30 µg/ animal BNT162c1	Day(s) Relative to Start Date		
	9 → 29	9 → 30	
166	-	-	
167	-	-	
168	-	-	
169	-	-	
170	-	-	
171	-	-	
172	-	-	
173	-	-	
174	-	-	
175	-	-	
176	27.8	25.6	
177	24.7	24.6	
178	21.3	15.7	
179	30.0	27.2	
180	15.1	12.6	
Mean	23.79	21.15	
SD	5.84	6.53	
N	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 3.4 Body Weight Gain - Individual Data

Sex: Female	Body Weight Gain (%)	Day(s) Relative to Start Date						Rat
		1 → 2	1 → 8	1 → 9	1 → 15	1 → 16	16 → 18	
<b>Group 7: 100 µg/ animal BNT162b2</b>								
196	-3.9	2.7	2.1	12.6	12.0	-	-	-
197	-2.0	10.3	4.2	5.9	8.2	-	-	-
198	-4.7	10.5	5.6	13.8	9.5	-	-	-
199	-12.1	3.1	-3.8	11.8	2.6	-	-	-
200	-7.2	0.9	-1.9	4.0	0.5	-	-	-
201	-7.5	6.8	2.8	15.5	5.7	-	-	-
202	-5.5	6.6	0.7	2.4	3.4	-	-	-
203	-7.7	3.3	0.6	7.9	4.7	-	-	-
204	-3.6	5.9	6.9	4.6	8.3	-	-	-
205	-6.5	3.1	0.3	7.7	1.7	-	-	-
206	-6.7	2.2	-2.4	11.3	4.5	6.2	8.6	8.6
207	-5.9	1.6	-1.4	8.4	7.1	6.3	7.3	7.3
208	-1.4	3.6	3.2	12.4	14.8	2.4	1.9	1.9
209	-4.9	5.7	1.8	8.5	6.7	6.4	11.8	11.8
210	-5.8	4.3	-0.1	12.9	5.5	6.1	12.2	12.2
Mean	-5.69	4.71	1.24	9.33	6.35	5.50	8.39	8.39
SD	2.59	2.91	2.99	3.95	3.85	1.76	4.16	4.16
N	15	15	15	15	15	5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 3.4 Body Weight Gain - Individual Data

Sex: Female	Body Weight Gain (%)	Day(s) Relative to Start Date			Rat
Group 7: 100 µg/ animal BNT162b2		16 → 25	16 → 29	16 → 32	16 → 36
196	-	-	-	-	-
197	-	-	-	-	-
198	-	-	-	-	-
199	-	-	-	-	-
200	-	-	-	-	-
201	-	-	-	-	-
202	-	-	-	-	-
203	-	-	-	-	-
204	-	-	-	-	-
205	-	-	-	-	-
206	13.1	17.5	20.7	21.0	16.4
207	11.2	16.5	17.8	20.3	18.6
208	6.1	10.4	11.4	15.1	10.5
209	14.6	20.1	21.9	25.3	20.5
210	16.5	20.8	21.8	24.9	22.9
Mean	12.31	17.04	18.70	21.33	17.79
SD	3.99	4.14	4.41	4.12	4.74
N	5	5	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 3-5 Body Weight at Autopsy - Individual Data

Sex: Male	Body Weight at Autopsy (g)	Rat
Group 1: Control		Day(s) Relative to Start Date
	10	17
1	-	313.8
2	-	307.2
3	-	335.8
4	-	333.3
5	-	310.4
6	-	333.0
7	-	318.0
8	-	335.2
9	-	340.4
10	-	338.5
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
Mean	326.56	388.26
SD	12.71	20.47
N	10	5

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RNA Platforms encoding for Viral Proteins

TABLE 3-5 Body Weight at Autopsy - Individual Data

Sex: Male	Body Weight at Autopsy (g)			Rat
Group 2: 30 µg/ animal		Day(s) Relative to Start Date		
BNT162a1	10	17	31	38
31	-	270.6	-	-
32	-	257.9	-	-
33	-	299.9	-	-
34	-	281.6	-	-
35	-	280.0	-	-
36	-	267.5	-	-
37	-	272.7	-	-
38	-	281.9	-	-
39	-	236.4	-	-
40	-	270.3	-	-
41	-	-	355.1	-
42	-	-	355.8	-
43	43	-	417.0	-
44	44	-	377.4	-
45	45	-	378.2	-
Mean	-	271.88	-	376.70
SD	-	16.75	-	25.15
N	10	-	-	5

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RNA Platforms encoding for Viral Proteins

TABLE 3-5 Body Weight at Autopsy - Individual Data

Sex: Male	Body Weight at Autopsy (g)			Rat
Group 3: 10 µg/ animal		Day(s) Relative to Start Date		
BNT162a1	10	17	31	38
61	-	350.3	-	-
62	-	302.2	-	-
63	-	344.3	-	-
64	-	323.3	-	-
65	-	336.8	-	-
66	-	320.4	-	-
67	-	355.1	-	-
68	-	277.7	-	-
69	-	313.5	-	-
70	-	354.3	-	-
71	-	-	-	410.7
72	-	-	-	376.6
73	-	-	-	366.9
74	-	-	-	422.0
75	-	-	-	442.8
Mean	-	327.79	-	403.80
SD	-	25.28	-	31.63
N	10	10	-	5

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RNA Platforms encoding for Viral Proteins

TABLE 3-5 Body Weight at Autopsy - Individual Data

Sex: Male	Body Weight at Autopsy (g)			Rat
Group 4: 30 µg/ animal		Day(s) Relative to Start Date		
	10	17	31	38
91	-	307.3	-	-
92	-	290.0	-	-
93	-	299.9	-	-
94	-	289.3	-	-
95	-	302.5	-	-
96	-	331.1	-	-
97	-	301.6	-	-
98	-	287.8	-	-
99	-	320.2	-	-
100	-	297.9	-	-
101	-	-	359.7	-
102	-	-	373.6	-
103	-	-	451.4	-
104	-	-	387.1	-
105	-	-	405.8	-
Mean	-	302.76	-	395.52
SD	-	13.86	-	35.58
N	-	10	-	5

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RNA Platforms encoding for Viral Proteins

TABLE 3-5 Body Weight at Autopsy - Individual Data

Sex: Male	Body Weight at Autopsy (g)			Rat
Group 5: 100 µg/ animal		Day(s) Relative to Start Date		
BNT162b1	10	17	31	38
121	-	331.9	-	-
122	-	272.1	-	-
123	-	306.9	-	-
124	-	363.7	-	-
125	-	289.6	-	-
126	-	340.9	-	-
127	-	303.9	-	-
128	-	277.5	-	-
129	-	301.0	-	-
130	-	301.1	-	-
131	-	-	420.9	-
132	-	-	374.8	-
133	-	-	361.8	-
134	-	-	402.4	-
135	-	-	376.2	-
Mean	-	308.86	-	387.22
SD	-	28.72	-	23.91
N	10	10	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 3-5 Body Weight at Autopsy - Individual Data

Sex: Male	Body Weight at Autopsy (g)			Rat
Group 6: 30 µg/ animal		Day(s) Relative to Start Date		
	10	17	31	38
BNT162c1				
151	261.1	-	-	-
152	303.3	-	-	-
153	250.9	-	-	-
154	276.8	-	-	-
155	282.0	-	-	-
156	265.4	-	-	-
157	296.3	-	-	-
158	245.8	-	-	-
159	279.9	-	-	-
160	253.9	-	-	-
161	-	-	374.8	-
162	-	-	327.9	-
163	-	-	391.8	-
164	-	-	349.7	-
165	-	-	388.2	-
Mean	271.54	-	366.48	-
SD	19.37	-	27.17	-
N	10	-	5	-

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RNA Platforms encoding for Viral Proteins

TABLE 3-5 Body Weight at Autopsy - Individual Data

Sex: Male	Body Weight at Autopsy (g)			Rat
Group 7: 100 µg/ animal		Day(s) Relative to Start Date		
BNT162b2	10	17	31	38
181	-	329.3	-	-
182	-	271.5	-	-
183	-	294.8	-	-
184	-	292.7	-	-
185	-	337.6	-	-
186	-	263.2	-	-
187	-	300.6	-	-
188	-	305.9	-	-
189	-	293.2	-	-
190	-	300.8	-	-
191	-	-	356.9	-
192	-	-	389.1	-
193	-	-	410.6	-
194	-	-	336.7	-
195	-	-	391.4	-
Mean	-	298.96	-	376.94
SD	-	22.58	-	29.63
N	10	10	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 3-5 Body Weight at Autopsy - Individual Data

Sex: Female	Body Weight at Autopsy (g)	Rat
Group 1: Control		Day(s) Relative to Start Date
	10	16
		-
		233.2
	17	-
		218.5
	18	-
		203.8
	19	-
		216.8
	20	-
		225.5
	21	-
		216.0
	22	-
		207.2
	23	-
		217.6
	24	-
		237.1
	25	-
		229.6
	26	-
		-
	27	-
		-
	28	-
		-
	29	-
		-
	30	-
Mean	220.53	263.48
SD	10.78	20.14
N	10	5

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RNA Platforms encoding for Viral Proteins

TABLE 3-5 Body Weight at Autopsy - Individual Data

Sex: Female	Body Weight at Autopsy (g)			Rat
Group 2: 30 µg/ animal		Day(s) Relative to Start Date		
	10	17	31	38
46	-	212.9	-	-
47	-	215.9	-	-
48	-	220.2	-	-
49	-	206.1	-	-
50	-	213.3	-	-
51	-	193.3	-	-
52	-	207.1	-	-
53	-	198.6	-	-
54	-	207.6	-	-
55	-	209.4	-	-
56	-	-	248.5	-
57	-	-	246.3	-
58	-	-	275.8	-
59	-	-	262.4	-
60	-	-	249.6	-
Mean	-	208.44	-	256.52
SD	-	7.97	-	12.48
N	10	10	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 3-5 Body Weight at Autopsy - Individual Data

Sex: Female	Body Weight at Autopsy (g)			Rat
Group 3: 10 µg/ animal		Day(s) Relative to Start Date		
	10	17	31	38
76	-	214.4	-	-
77	-	214.7	-	-
78	-	204.5	-	-
79	-	246.9	-	-
80	-	190.0	-	-
81	-	213.4	-	-
82	-	253.3	-	-
83	-	207.4	-	-
84	-	213.9	-	-
85	-	211.6	-	-
86	-	-	238.4	-
87	-	-	262.7	-
88	-	-	284.0	-
89	-	-	246.9	-
90	-	-	229.9	-
Mean	-	217.01	-	252.38
SD	-	19.01	-	21.43
N	-	10	-	5

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RNA Platforms encoding for Viral Proteins

TABLE 3-5 Body Weight at Autopsy - Individual Data

Sex: Female	Body Weight at Autopsy (g)			Rat
Group 4: 30 µg/ animal		Day(s) Relative to Start Date		
	10	17	31	38
106	-	233.3	-	-
107	-	231.4	-	-
108	-	216.4	-	-
109	-	261.4	-	-
110	-	232.2	-	-
111	-	248.3	-	-
112	-	210.9	-	-
113	-	245.2	-	-
114	-	212.2	-	-
115	-	219.8	-	-
116	-	-	256.8	-
117	-	-	253.4	-
118	-	-	273.4	-
119	-	-	258.8	-
120	-	-	249.6	-
Mean	-	231.11	-	258.40
SD	-	16.76	-	9.09
N	10	-	-	5

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RNA Platforms encoding for Viral Proteins

TABLE 3-5 Body Weight at Autopsy - Individual Data

Sex: Female	Body Weight at Autopsy (g)			Rat
Group 5: 100 µg/ animal		Day(s) Relative to Start Date		
BNT162b1	10	17	31	38
136	-	245.4	-	-
137	-	212.3	-	-
138	-	254.9	-	-
139	-	226.8	-	-
140	-	209.9	-	-
141	-	240.7	-	-
142	-	205.9	-	-
143	-	227.9	-	-
144	-	243.8	-	-
145	-	240.9	-	-
146	-	-	238.8	-
147	-	-	251.1	-
148	-	-	243.2	-
149	-	-	278.6	-
150	-	-	257.9	-
Mean	-	230.85	-	253.92
SD	-	16.95	-	15.62
N	10	-	-	5

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RNA Platforms encoding for Viral Proteins

TABLE 3-5 Body Weight at Autopsy - Individual Data

Sex: Female	Body Weight at Autopsy (g)			Rat
Group 6: 30 µg/ animal		Day(s) Relative to Start Date		
	10	17	31	38
166	192.1	-	-	-
167	201.7	-	-	-
168	174.9	-	-	-
169	196.4	-	-	-
170	225.0	-	-	-
171	192.7	-	-	-
172	190.2	-	-	-
173	183.2	-	-	-
174	187.6	-	-	-
175	204.0	-	-	-
176	-	-	221.1	-
177	-	-	235.9	-
178	-	-	224.7	-
179	-	-	233.5	-
180	-	-	285.9	-
Mean	194.78	-	240.22	-
SD	13.59	-	26.25	-
N	10	-	5	-

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RNA Platforms encoding for Viral Proteins

TABLE 3-5 Body Weight at Autopsy - Individual Data

Sex: Female	Body Weight at Autopsy (g)			Rat
Group 7: 100 µg/ animal		Day(s) Relative to Start Date		
	10	17	31	38
196	-	248.5	-	-
197	-	205.9	-	-
198	-	200.7	-	-
199	-	195.0	-	-
200	-	248.7	-	-
201	-	211.3	-	-
202	-	203.1	-	-
203	-	225.1	-	-
204	-	234.5	-	-
205	-	213.1	-	-
206	-	-	236.3	-
207	-	-	247.4	-
208	-	-	238.7	-
209	-	-	241.1	-
210	-	-	261.7	-
Mean	-	218.59	-	245.04
SD	-	19.60	-	10.19
N	10	-	-	5

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RNA Platforms encoding for Viral Proteins

TABLE 4-1 Food Consumption - Summary

Relative Food Consumption (g/kg b.w./day)		Day(s) Relative to Start Date					Rat
Sex: Male		TW 1	TW 2	TW 3	TW 4	TW 5	
Group 1: Control	Mean SD N	95.02 4.58 15	89.37 3.07 15	79.37 3.18 5	74.29 2.75 5	71.17 4.85 5	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	89.60* 5.50 15 -5.7	82.93** 4.86 15 -7.2	78.47 3.15 5 -1.1	85.90** 3.32 5 15.6	78.78** 2.09 5 10.7	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	78.93** 4.99 15 -16.9	80.15** 5.23 15 -10.3	70.54** 4.92 5 -11.1	69.89 4.87 5 -5.9	70.18 3.36 5 -1.4	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	90.88 5.24 15 -4.4	87.19 4.51 15 -2.4	74.95 2.05 5 -5.6	76.22 4.45 5 2.6	70.46 3.44 5 -1.0	

Anova &amp; Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01

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RNA Platforms encoding for Viral Proteins

TABLE 4-1 Food Consumption - Summary

Relative Food Consumption (g/kg b.w./day)		Day(s) Relative to Start Date					Rat
Sex: Male		TW 1	TW 2	TW 3	TW 4	TW 5	
Group 5: 100 µg/ animal	Mean SD N %Diff	73.25** 5.22 15 -22.9	78.44** 4.70 15 -12.2	69.61** 3.06 5 -12.3	74.13 7.97 5 -0.2	70.34 1.75 5 -1.2	
BNT162b1							
Group 6: 30 µg/ animal	Mean SD N %Diff	77.41** 2.78 15 -18.5	77.14** 2.41 5 -13.7	74.10 3.86 5 -6.6	72.39 5.35 5 -2.6	- - - -	
BNT162c1							
Group 7: 100 µg/ animal	Mean SD N %Diff	73.79** 5.13 15 -22.3	79.48** 6.12 15 -11.1	68.70** 3.17 5 -13.4	78.21 5.55 5 5.3	71.79 3.43 5 0.9	
BNT162b2							

Anova &amp; Dunnett: \*\* = p ≤ 0.01

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RNA Platforms encoding for Viral Proteins

TABLE 4-1 Food Consumption - Summary

Relative Food Consumption (g/kg b.w./day)		Day(s) Relative to Start Date				
Sex: Female		TW 1	TW 2	TW 3	TW 4	TW 5
Group 1: Control	Mean SD N	98.30 6.46 15	94.31 5.55 15	82.23 5.07 5	85.56 6.08 5	81.65 5.64 5
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	95.08 6.23 15 -3.3	90.19 7.02 15 -4.4	83.01 5.39 5 0.9	88.56 5.41 5 3.5	85.17 2.09 5 4.3
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	91.92* 6.28 15 -6.5	93.16 6.42 15 -1.2	85.45 9.00 5 3.9	88.77 6.33 5 3.8	81.33 5.85 5 -0.4
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	96.59 6.84 15 -1.7	93.89 6.67 15 -0.4	81.64 6.27 5 -0.7	84.09 3.65 5 -1.7	79.63 3.75 5 -2.5

Anova &amp; Dunnett: \* = p ≤ 0.05

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RNA Platforms encoding for Viral Proteins

TABLE 4-1 Food Consumption - Summary

Relative Food Consumption (g/kg b.w./day)		Day(s) Relative to Start Date					Rat
Sex: Female		TW 1	TW 2	TW 3	TW 4	TW 5	
Group 5: 100 µg/ animal	Mean SD N %Diff	85.20** 7.16 15 -13.3	92.31 5.32 15 -2.1	86.22 4.66 5 4.9	96.32* 6.53 5 12.6	80.15 6.97 5 -1.8	
BNT162b1							
Group 6: 30 µg/ animal	Mean SD N %Diff	88.75** 5.68 15 -9.7	91.99 5.49 5 -2.5	88.83 7.46 5 8.0	88.76 3.90 5 3.7	- - - -	
BNT162c1							
Group 7: 100 µg/ animal	Mean SD N %Diff	84.82** 5.22 15 -13.7	92.22 5.49 15 -2.2	85.38 4.86 5 3.8	96.84** 1.80 5 13.2	85.75 3.65 5 5.0	
BNT162b2							

Anova &amp; Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01

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TABLE 4-1 Food Consumption - Summary

Page	Measurement	Group	Sex	Day	Marker	Comments and Markers
						Comment
	Relative Food Consumption	2	Male	TW 1	*	Anova & Dunnett: * = p ≤ 0.05
	Relative Food Consumption	2	Male	TW 2	**	Anova & Dunnett: ** = p ≤ 0.01
	Relative Food Consumption	2	Male	TW 4	**	Anova & Dunnett: ** = p ≤ 0.01
	Relative Food Consumption	2	Male	TW 5	**	Anova & Dunnett: ** = p ≤ 0.01
	Relative Food Consumption	3	Male	TW 1	**	Anova & Dunnett: ** = p ≤ 0.01
	Relative Food Consumption	3	Male	TW 2	**	Anova & Dunnett: ** = p ≤ 0.01
	Relative Food Consumption	3	Male	TW 3	**	Anova & Dunnett: ** = p ≤ 0.01
	Relative Food Consumption	5	Male	TW 1	**	Anova & Dunnett: ** = p ≤ 0.01
	Relative Food Consumption	5	Male	TW 2	**	Anova & Dunnett: ** = p ≤ 0.01
	Relative Food Consumption	5	Male	TW 3	**	Anova & Dunnett: ** = p ≤ 0.01
	Relative Food Consumption	6	Male	TW 1	**	Anova & Dunnett: ** = p ≤ 0.01
	Relative Food Consumption	6	Male	TW 2	**	Anova & Dunnett: ** = p ≤ 0.01
	Relative Food Consumption	7	Male	TW 1	**	Anova & Dunnett: ** = p ≤ 0.01
	Relative Food Consumption	7	Male	TW 2	**	Anova & Dunnett: ** = p ≤ 0.01
	Relative Food Consumption	7	Male	TW 3	**	Anova & Dunnett: ** = p ≤ 0.01

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TABLE 4-1 Food Consumption - Summary

<u>Page</u>	<u>Measurement</u>	<u>Group</u>	<u>Sex</u>	<u>Day</u>	<u>Marker</u>	<u>Comments and Markers</u>
3	Relative Food Consumption	5	Female	TW 1	*	Anova & Dunnett: * = p ≤ 0.05
5	Relative Food Consumption	5	Female	TW 1	**	Anova & Dunnett: ** = p ≤ 0.01
5	Relative Food Consumption	5	Female	TW 4	*	Anova & Dunnett: * = p ≤ 0.05
6	Relative Food Consumption	6	Female	TW 1	**	Anova & Dunnett: ** = p ≤ 0.01
7	Relative Food Consumption	7	Female	TW 1	**	Anova & Dunnett: ** = p ≤ 0.01
7	Relative Food Consumption	7	Female	TW 4	**	Anova & Dunnett: ** = p ≤ 0.01

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TABLE 4-2 Food Consumption - Individual Data

Sex: Male	Relative Food Consumption (g/kg b.w./day)	Day(s) Relative to Start Date					Rat
Group 1: Control		TW 1	TW 2	TW 3	TW 4	TW 5	
1	95.1	89.9	-	-	-	-	
2	97.3	92.4	-	-	-	-	
3	97.6	88.0	-	-	-	-	
4	88.9	87.0	-	-	-	-	
5	99.6	90.9	-	-	-	-	
6	105.0	96.5	-	-	-	-	
7	94.3	84.9	-	-	-	-	
8	88.0	86.9	-	-	-	-	
9	97.1	93.0	-	-	-	-	
10	96.4	88.7	-	-	-	-	
11	96.5	87.6	75.7	70.8	72.6		
12	94.2	91.8	82.0	77.8	75.7		
13	88.3	85.9	76.1	72.9	62.9		
14	96.2	88.5	81.7	73.8	72.4		
15	90.9	88.7	81.3	76.1	72.4		
Mean	95.02	89.37	79.37	74.29	71.17		
SD	4.58	3.07	3.18	2.75	4.85		
N	15	15	5	5	5		

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TABLE 4-2 Food Consumption - Individual Data

Sex: Male	Relative Food Consumption (g/kg b.w./day)	Day(s) Relative to Start Date					Rat
Group 2: 30 µg/ animal BNT162a1	TW 1	TW 2	TW 3	TW 4	TW 5		
31	80.5	80.3	-	-	-	-	
32	92.0	79.7	-	-	-	-	
33	94.8	84.2	-	-	-	-	
34	84.9	77.1	-	-	-	-	
35	97.7	88.0	-	-	-	-	
36	87.7	84.6	-	-	-	-	
37	83.8	82.3	-	-	-	-	
38	88.1	82.1	-	-	-	-	
39	87.4	72.5	-	-	-	-	
40	86.3	81.5	-	-	-	-	
41	99.6	93.6	81.1	86.1	79.7		
42	94.6	86.2	80.1	85.6	81.4		
43	93.7	83.1	80.3	85.5	77.3		
44	88.1	86.4	77.3	90.8	79.3		
45	84.8	82.4	73.4	81.5	76.1		
Mean	89.60	82.93	78.47	85.90	78.78		
SD	5.50	4.86	3.15	3.32	2.09		
N	15	15	5	5	5		

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TABLE 4-2 Food Consumption - Individual Data

Sex: Male	Relative Food Consumption (g/kg b.w./day)	Day(s) Relative to Start Date				Rat
Group 3: 10 µg/ animal BNT162a1		TW 1	TW 2	TW 3	TW 4	TW 5
61	75.0	73.5	-	-	-	-
62	74.6	82.6	-	-	-	-
63	75.9	75.1	-	-	-	-
64	75.1	79.5	-	-	-	-
65	87.4	87.5	-	-	-	-
66	77.1	78.2	-	-	-	-
67	76.8	78.3	-	-	-	-
68	74.6	73.1	-	-	-	-
69	84.5	87.9	-	-	-	-
70	76.3	77.2	-	-	-	-
71	82.8	83.3	66.8	67.3	71.8	
72	88.9	84.9	70.5	76.9	68.7	
73	81.6	86.9	77.9	64.1	75.3	
74	73.3	73.3	65.4	72.0	67.2	
75	79.7	81.1	72.1	69.1	67.9	
Mean	78.93	80.15	70.54	69.89	70.18	
SD	4.99	5.23	4.92	4.87	3.36	
N	15	15	5	5	5	

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TABLE 4-2 Food Consumption - Individual Data

Sex: Male	Relative Food Consumption (g/kg b.w./day)	Day(s) Relative to Start Date				Rat
Group 4: 30 µg/ animal BNT162b1		TW 1	TW 2	TW 3	TW 4	TW 5
91	93.4	88.5	-	-	-	-
92	89.5	84.9	-	-	-	-
93	91.3	89.5	-	-	-	-
94	101.3	95.6	-	-	-	-
95	93.2	87.0	-	-	-	-
96	87.4	84.5	-	-	-	-
97	85.2	82.4	-	-	-	-
98	100.2	93.4	-	-	-	-
99	85.0	85.6	-	-	-	-
100	87.7	86.5	-	-	-	-
101	91.6	89.6	75.9	79.3	71.8	
102	96.0	92.8	77.1	76.4	68.2	
103	89.3	83.3	75.1	77.7	74.2	
104	83.8	78.5	71.6	68.5	65.7	
105	88.2	85.8	75.0	79.1	72.4	
Mean	90.88	87.19	74.95	76.22	70.46	
SD	5.24	4.51	2.05	4.45	3.44	
N	15	15	5	5	5	

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TABLE 4-2 Food Consumption - Individual Data

Sex: Male	Relative Food Consumption (g/kg b.w./day)	Day(s) Relative to Start Date					Rat
Group 5: 100 µg/ animal BNT162b1		TW 1	TW 2	TW 3	TW 4	TW 5	
121	66.5	72.3	-	-	-	-	
122	67.7	75.8	-	-	-	-	
123	71.9	81.1	-	-	-	-	
124	78.3	74.9	-	-	-	-	
125	76.1	83.5	-	-	-	-	
126	75.7	82.0	-	-	-	-	
127	74.9	86.9	-	-	-	-	
128	73.3	81.5	-	-	-	-	
129	72.0	71.0	-	-	-	-	
130	76.9	79.3	-	-	-	-	
131	68.4	71.4	67.2	64.6	68.9		
132	85.7	81.9	68.7	84.3	71.7		
133	71.7	80.5	75.0	73.2	72.6		
134	74.4	78.1	68.8	68.8	68.5		
135	65.2	76.4	68.3	79.7	69.9		
Mean	73.25	78.44	69.61	74.13	70.34		
SD	5.22	4.70	3.06	7.97	1.75		
N	15	15	5	5	5		

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TABLE 4-2 Food Consumption - Individual Data

Sex: Male	Relative Food Consumption (g/kg b.w./day)	Day(s) Relative to Start Date				Rat
Group 6: 30 µg/ animal BNT162c1		TW 1	TW 2	TW 3	TW 4	TW 5
151	77.2	-	-	-	-	-
152	77.5	-	-	-	-	-
153	72.7	-	-	-	-	-
154	81.1	-	-	-	-	-
155	81.5	-	-	-	-	-
156	77.3	-	-	-	-	-
157	73.4	-	-	-	-	-
158	78.1	-	-	-	-	-
159	81.8	-	-	-	-	-
160	78.7	-	-	-	-	-
161	79.4	80.0	78.0	64.5	-	-
162	76.6	76.3	68.4	69.7	-	-
163	74.6	73.5	72.2	73.6	-	-
164	75.4	77.9	75.3	76.9	-	-
165	76.1	77.9	76.7	77.2	-	-
Mean	77.41	77.14	74.10	72.39	-	-
SD	2.78	2.41	3.86	5.35	-	-
N	15	5	5	5	-	-

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RNA Platforms encoding for Viral Proteins

TABLE 4-2      Food Consumption - Individual Data

Sex: Male	Relative Food Consumption (g/kg b.w./day)	Day(s) Relative to Start Date					Rat
		TW 1	TW 2	TW 3	TW 4	TW 5	
<b>Group 7: 100 µg/ animal BNT162b2</b>							
181	63.1	70.9	-	-	-	-	
182	68.6	77.0	-	-	-	-	
183	76.3	76.0	-	-	-	-	
184	79.3	87.4	-	-	-	-	
185	69.6	74.3	-	-	-	-	
186	80.1	90.9	-	-	-	-	
187	67.1	71.1	-	-	-	-	
188	79.6	85.1	-	-	-	-	
189	73.0	78.4	-	-	-	-	
190	78.9	86.7	-	-	-	-	
191	75.1	81.7	-	-	-	-	
192	72.1	77.2	66.6	82.7	72.3		
193	78.3	83.0	66.8	75.7	66.2		
194	72.5	73.4	72.7	83.7	73.5		
195	73.1	79.1	65.8	78.9	71.5		
			71.5	70.1	75.4		
Mean	73.79	79.48	68.70	78.21	71.79		
SD	5.13	6.12	3.17	5.55	3.43		
N	15	15	5	5	5		

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TABLE 4-2 Food Consumption - Individual Data

Sex:Female	Relative Food Consumption (g/kg b.w./day)	Day(s) Relative to Start Date				Rat
Group 1: Control		TW 1	TW 2	TW 3	TW 4	TW 5
16	105.2	98.1	-	-	-	-
17	107.6	98.6	-	-	-	-
18	105.2	92.7	-	-	-	-
19	91.1	89.2	-	-	-	-
20	94.4	91.8	-	-	-	-
21	98.2	86.9	-	-	-	-
22	111.5	107.9	-	-	-	-
23	93.3	91.7	-	-	-	-
24	97.9	90.4	-	-	-	-
25	95.2	87.1	-	-	-	-
26	90.8	98.7	84.4	91.6	89.2	-
27	96.1	92.5	78.6	77.8	75.2	-
28	95.7	93.8	87.5	80.4	84.0	-
29	91.3	96.5	85.3	89.3	77.0	-
30	101.0	98.8	75.3	88.8	82.8	-
Mean	98.30	94.31	82.23	85.56	81.65	
SD	6.46	5.55	5.07	6.08	5.64	
N	15	15	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 4-2      Food Consumption - Individual Data

Sex: Female	Relative Food Consumption (g/kg b.w./day)	Day(s) Relative to Start Date				Rat
Group 2: 30 µg/ animal BNT162a1		TW 1	TW 2	TW 3	TW 4	TW 5
46	101.4	82.9	-	-	-	-
47	93.6	96.2	-	-	-	-
48	100.1	100.9	-	-	-	-
49	82.6	79.0	-	-	-	-
50	97.5	86.0	-	-	-	-
51	82.9	86.9	-	-	-	-
52	97.9	95.8	-	-	-	-
53	99.4	86.7	-	-	-	-
54	97.8	96.4	-	-	-	-
55	96.0	94.4	-	-	-	-
56	89.4	87.2	79.6	86.1	85.3	
57	101.9	102.5	89.2	97.4	87.0	
58	89.4	82.7	84.8	83.0	82.1	
59	97.4	87.5	75.6	87.2	84.4	
60	98.8	87.6	85.8	89.0	87.2	
Mean	95.08	90.19	83.01	88.56	85.17	
SD	6.23	7.02	5.39	5.41	2.09	
N	15	15	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 4-2      Food Consumption - Individual Data

Sex: Female	Relative Food Consumption (g/kg b.w./day)	Day(s) Relative to Start Date				Rat
Group 3: 10 µg/ animal BNT162a1		TW 1	TW 2	TW 3	TW 4	TW 5
76	88.1	105.6	-	-	-	-
77	86.6	89.2	-	-	-	-
78	99.4	98.0	-	-	-	-
79	94.8	96.9	-	-	-	-
80	87.0	94.3	-	-	-	-
81	99.0	83.8	-	-	-	-
82	82.3	90.2	-	-	-	-
83	88.7	90.9	-	-	-	-
84	95.0	97.6	-	-	-	-
85	91.5	91.6	-	-	-	-
86	89.8	86.7	77.9	88.0	77.9	78.1
87	97.4	101.9	95.9	82.6	75.6	89.1
88	81.2	82.1	74.6	85.1	89.1	86.0
89	96.7	95.0	91.4	99.2	-	-
90	101.2	93.6	87.6	89.0	-	-
Mean	91.92	93.16	85.45	88.77	81.33	
SD	6.28	6.42	9.00	6.33	5.85	
N	15	15	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 4-2 Food Consumption - Individual Data

Sex: Female	Relative Food Consumption (g/kg b.w./day)	Day(s) Relative to Start Date				Rat
Group 4: 30 µg/ animal BNT162b1		TW 1	TW 2	TW 3	TW 4	TW 5
106	89.8	90.1	-	-	-	-
107	91.9	89.8	-	-	-	-
108	99.4	100.2	-	-	-	-
109	91.7	100.5	-	-	-	-
110	85.3	88.2	-	-	-	-
111	94.3	99.2	-	-	-	-
112	112.1	101.3	-	-	-	-
113	99.0	100.6	-	-	-	-
114	105.1	103.5	-	-	-	-
115	90.6	85.0	-	-	-	-
116	103.7	83.3	80.2	84.2	77.4	
117	95.1	93.6	81.4	82.7	77.2	
118	97.1	89.3	73.6	78.7	77.7	
119	99.4	96.0	91.2	87.3	86.1	
120	94.2	87.8	81.8	87.5	79.7	
Mean	96.59	93.89	81.64	84.09	79.63	
SD	6.84	6.67	6.27	3.65	3.75	
N	15	15	5	5	5	

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TABLE 4-2 Food Consumption - Individual Data

Sex: Female	Relative Food Consumption (g/kg b.w./day)	Day(s) Relative to Start Date				Rat
Group 5: 100 µg/ animal BNT162b1		TW 1	TW 2	TW 3	TW 4	TW 5
136	83.3	92.8	-	-	-	-
137	88.0	93.2	-	-	-	-
138	94.4	100.8	-	-	-	-
139	88.9	95.9	-	-	-	-
140	78.6	91.5	-	-	-	-
141	77.8	89.0	-	-	-	-
142	99.6	95.5	-	-	-	-
143	90.9	96.0	-	-	-	-
144	89.9	101.8	-	-	-	-
145	73.8	80.6	-	-	-	-
146	86.3	89.9	91.4	84.8	78.1	83.4
147	85.1	90.9	88.7	98.8	86.0	68.9
148	85.4	89.0	79.0	99.8	97.7	84.4
149	80.3	90.2	84.9	100.5	100.5	-
150	75.7	87.4	87.1	-	-	-
Mean	85.20	92.31	86.22	96.32	80.15	
SD	7.16	5.32	4.66	6.53	6.97	
N	15	15	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 4-2 Food Consumption - Individual Data

Sex: Female	Relative Food Consumption (g/kg b.w./day)	Day(s) Relative to Start Date				Rat
Group 6: 30 µg/ animal BNT162c1		TW 1	TW 2	TW 3	TW 4	TW 5
166	92.5	-	-	-	-	-
167	89.9	-	-	-	-	-
168	99.2	-	-	-	-	-
169	87.8	-	-	-	-	-
170	76.9	-	-	-	-	-
171	84.3	-	-	-	-	-
172	85.5	-	-	-	-	-
173	89.0	-	-	-	-	-
174	86.2	-	-	-	-	-
175	87.4	-	-	-	-	-
176	83.9	88.4	78.0	90.0	84.6	-
177	95.5	92.2	95.0	94.6	94.3	-
178	95.4	100.9	94.6	92.4	89.4	-
179	84.9	91.7	84.2	84.2	85.5	-
180	92.9	86.7	-	-	-	-
Mean	88.75	91.99	88.83	88.76	88.76	-
SD	5.68	5.49	7.46	3.90	5	-
N	15	5	5	5	5	-

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TABLE 4-2 Food Consumption - Individual Data

Sex: Female	Relative Food Consumption (g/kg b.w./day)	Day(s) Relative to Start Date				Rat
Group 7: 100 µg/ animal BNT162b2		TW 1	TW 2	TW 3	TW 4	TW 5
196	72.8	85.2	-	-	-	-
197	88.1	101.2	-	-	-	-
198	83.7	100.5	-	-	-	-
199	86.8	94.3	-	-	-	-
200	76.7	85.5	-	-	-	-
201	90.0	93.3	-	-	-	-
202	86.3	90.3	-	-	-	-
203	84.2	94.9	-	-	-	-
204	86.6	98.2	-	-	-	-
205	79.9	83.8	-	-	-	-
206	83.7	93.3	88.4	100.0	87.8	84.0
207	82.6	87.8	83.1	95.6	95.6	81.6
208	91.1	93.7	90.2	96.7	96.7	90.9
209	89.6	94.2	87.1	95.8	95.8	84.5
210	90.4	87.0	78.1	96.2	96.2	
Mean	84.82	92.22	85.38	96.84	85.75	
SD	5.22	5.49	4.86	1.80	3.65	
N	15	15	5	5	5	

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TABLE 5-1 Body Temperature - Summary

Sex: Male				Day(s) Relative to Start Date						
				1 (4 h pa) [a]	2 (24h pa) [a]	8 (4 h pa) [a1]	9 (24h pa) [a]	15 [a2]	15 (4 h pa) [a2]	16 (24h pa) [a2]
Group 1: Control	Mean SD N	37.36 0.21 15	37.51 0.37 15	37.26 0.25 15	37.31 0.56 15	-	-	38.25 0.29 15	38.04 0.38 15	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	37.92** 0.38 15 1.5	38.54** 0.27 15 2.8	37.91** 0.49 15 1.7	39.03** 0.37 15 4.6	-	-	38.23 0.35 15 0.0	38.91** 0.46 15 2.3	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	37.69* 0.30 15 0.9	36.98 0.69 15 -1.4	37.59 0.36 15 0.9	38.05 0.33 15 2.0	-	-	37.62** 0.56 15 -1.6	38.18 0.43 15 0.4	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	37.57 0.48 15 0.6	37.76 0.35 15 0.7	37.46 0.50 15 0.5	38.19** 0.49 15 2.4	-	-	37.43** 0.38 15 -2.1	37.97 0.46 15 -0.2	

[a] - Anova &amp; Dunnett(Rank). \* = p ≤ 0.05, \*\* = p ≤ 0.01

[a1] - Anova &amp; Dunnett(Log): \*\* = p ≤ 0.01

[a2] - Anova &amp; Dunnett: \*\* = p ≤ 0.01

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TABLE 5-1 Body Temperature - Summary

Sex: Male		Day(s) Relative to Start Date						
		1 (4 h pa)	2 (24h pa)	8 (4 h pa)	9 (24h pa)	15	15 (4 h pa)	16 (24h pa)
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	38.65** 0.58 15 3.5	36.70** 0.71 15 -2.2	38.01** 0.43 15 2.0	38.97** 0.36 15 4.5	-	38.74* 0.58 15 1.3	39.09** 0.40 15 2.8
Group 6: 30 µg/ animal BNT162c1	Mean SD N %Diff	38.27** 0.32 15 2.4	36.59** 0.87 15 -2.5	37.98** 0.27 15 1.9	38.98** 0.20 15 4.5	38.60n 0.23 5	-	-
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	38.49** 0.38 15 3.0	37.45 0.75 15 -0.2	38.07** 0.38 15 2.2	38.94** 0.52 15 4.4	-	38.60 0.54 15 0.9	39.11** 0.34 15 2.8

Anova &amp; Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01; n - Inappropriate for statistics

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TABLE 5-1 Body Temperature - Summary

Body Temperature (°C)				Rat
Sex: Male				
				Day(s) Relative to Start Date
Group 1: Control	Mean SD N	37.40 0.55 5	22 [a] -	37.72 0.47 5
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	37.80 0.59 5 1.1	29 [a] -	36.82 0.62 5
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	38.36* 0.43 5 2.6	38.42 0.23 5 1.9	37.42 0.68 5 1.6
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	38.40* 0.55 5 2.7	38.66* 0.54 5 2.5	38.24* 0.85 5 3.9

[a] - Anova &amp; Dunnett: \* = p ≤ 0.05

[a1] - Anova &amp; Dunnett(Rank): \* = p ≤ 0.05

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RNA Platforms encoding for Viral Proteins

TABLE 5-1 Body Temperature - Summary

Body Temperature (°C)		Day(s) Relative to Start Date				Rat
Sex: Male		22	29	36	39	
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	38.38* 0.49 5 2.6	38.38 0.68 5 1.7	37.46 0.86 5 1.7		
Group 6: 30 µg/ animal BNT162c1	Mean SD N %Diff	38.48** 0.34 5 2.9	39.00 ** 0.36 5 3.4	- - -		
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	38.44* 0.38 5 2.8	38.68* 0.44 5 2.5	36.96 0.39 5 0.4		

Anova &amp; Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01

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TABLE 5-1      Body Temperature - Summary

Sex: Female		Day(s) Relative to Start Date						Rat
	Body Temperature (°C)	1 (4 h pa) [a]	2 (24h pa) [a]	3 (48h pa) [a]	8 (4h pa) [a]	9 (24h pa) [a]	15 [a]	15 (4 h pa) [a]
Group 1: Control	Mean SD N	37.37 0.30 15	38.25 0.67 15	-	-	37.64 0.54 15	38.43 0.78 15	-
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	38.30** 0.62 15 2.5	38.63 0.38 15 1.0	-	-	38.35** 0.37 15	39.05 0.40 15	-
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	38.19** 0.52 15 2.2	38.38 0.42 15 0.3	-	-	37.95 0.57 15	38.79 0.47 15	-
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	37.73 0.53 15 1.0	38.47 0.63 15 0.6	-	-	38.15 0.81 15 1.3	38.66 0.58 15 0.6	-

[a] - Anova & Dunnett: \*\* = p ≤ 0.01  
[a] - Anova & Dunnett(Rank): \*\* = p ≤ 0.01

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RNA Platforms encoding for Viral Proteins

TABLE 5-1      Body Temperature - Summary

Body Temperature (°C)		Day(s) Relative to Start Date						Rat
Sex: Female		1 (4 h pa)	2 (24h pa)	3 (48h pa)	8 (4 h pa)	9 (24h pa)	15	15 (4 h pa)
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	38.41** 0.43 15 2.8	38.35 0.73 15 0.2	-	38.22* 0.53 15 1.5	38.99 0.30 15 1.4	-	39.17 0.47 15 0.8
Group 6: 30 µg/ animal BNT162c1	Mean SD N %Diff	38.69** 0.57 15 3.6	38.12 1.16 15 -0.3	39.20n - 1 -	38.44** 0.64 15 2.1	39.03 0.45 15 1.6	38.70n 0.37 5 -	-
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	38.51** 0.44 15 3.1	39.09** 0.27 15 2.2	-	38.35** 0.28 15 1.9	39.29** 0.38 15 2.2	-	39.13 0.43 15 0.7

Anova & Dunnett: \* =  $p \leq 0.05$ ; \*\* =  $p \leq 0.01$ ; n - Inappropriate for statistics

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TABLE 5-1      Body Temperature - Summary

Body Temperature (°C)		Day(s) Relative to Start Date						Rat
Sex: Female		16 (24h pa) [a]	17 [a]	22 [a]	29 [a1]	36 [a1]		
Group 1: Control	Mean SD N	39.01 0.41 15	-	-	38.84 0.71 5	38.32 0.83 5	38.26 1.07 5	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	39.20 0.59 15 0.5	-	-	39.04 0.55 5	38.90 0.28 5	38.76 0.91 5	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	39.13 0.48 15 0.3	-	-	39.04 0.37 5	39.06 0.49 5	38.76 0.84 5	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	39.04 0.56 15 0.1	-	-	38.92 0.36 5	38.84 0.43 5	38.74 0.30 5	

[a] - Anova & Dunnett  
[a1] - Anova & Dunnett(Rank)

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TABLE 5-1 Body Temperature - Summary

Body Temperature (°C)		Day(s) Relative to Start Date						Rat
Sex: Female		16(24h pa)	17	22	29	36		
Group 5: 100 µg/ animal	Mean SD N %Diff	39.43 0.47 15 1.1	38.50n 1	39.04 0.35 5	39.28 0.24 5	39.06 0.34 5		
BNT162b1			-	0.5	2.5	2.1		
Group 6: 30 µg/ animal	Mean SD N %Diff	- - -	- - -	38.90 0.20 5	39.08 0.34 5	- -		
BNT162c1			-	0.2	2.0	-		
Group 7: 100 µg/ animal	Mean SD N %Diff	39.51* 0.38 15 1.3	- - -	39.00 0.31 5	39.00 0.25 5	39.18 0.15 5		
BNT162b2			-	0.4	1.8	2.4		

Anova &amp; Dunnett: \* = p ≤ 0.05; n - Inappropriate for statistics

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TABLE 5-1      Body Temperature - Summary      Rat

Page	Measurement	Comments and Markers				
		Group	Sex	Day	Marker	Comment
2	Body Temperature	2	Male	1 (4 h pa)	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
	Body Temperature	2	Male	2 (24h pa)	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
	Body Temperature	2	Male	8 (4 h pa)	**	Anova & Dunnett(Log): ** = p ≤ 0.01
	Body Temperature	2	Male	9 (24h pa)	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
	Body Temperature	2	Male	16 (24h pa)	**	Anova & Dunnett: ** = p ≤ 0.01
	Body Temperature	3	Male	1 (4 h pa)	*	Anova & Dunnett(Rank): * = p ≤ 0.05
	Body Temperature	3	Male	15 (4 h pa)	**	Anova & Dunnett: ** = p ≤ 0.01
	Body Temperature	4	Male	9 (24h pa)	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
	Body Temperature	4	Male	15 (4 h pa)	**	Anova & Dunnett: ** = p ≤ 0.01
	Body Temperature	3	Male	22	*	Anova & Dunnett: * = p ≤ 0.05
	Body Temperature	4	Male	22	*	Anova & Dunnett: * = p ≤ 0.05
	Body Temperature	4	Male	29	*	Anova & Dunnett: * = p ≤ 0.05
	Body Temperature	4	Male	36	*	Anova & Dunnett(Rank): * = p ≤ 0.05
	Body Temperature	5	Male	1 (4 h pa)	**	Anova & Dunnett: ** = p ≤ 0.01
	Body Temperature	5	Male	2 (24h pa)	**	Anova & Dunnett: ** = p ≤ 0.01
	Body Temperature	5	Male	8 (4 h pa)	**	Anova & Dunnett: ** = p ≤ 0.01
	Body Temperature	5	Male	9 (24h pa)	**	Anova & Dunnett: ** = p ≤ 0.01
	Body Temperature	5	Male	15 (4 h pa)	*	Anova & Dunnett: * = p ≤ 0.05
	Body Temperature	5	Male	16 (24h pa)	**	Anova & Dunnett: ** = p ≤ 0.01
	Body Temperature	6	Male	1 (4 h pa)	**	Anova & Dunnett: ** = p ≤ 0.01
	Body Temperature	6	Male	2 (24h pa)	**	Anova & Dunnett: ** = p ≤ 0.01
	Body Temperature	6	Male	8 (4 h pa)	**	Anova & Dunnett: ** = p ≤ 0.01
	Body Temperature	6	Male	9 (24h pa)	**	Anova & Dunnett: ** = p ≤ 0.01
	Body Temperature	6	Male	15	n	Anova & Dunnett: n - Inappropriate for statistics
	Body Temperature	7	Male	1 (4 h pa)	**	Anova & Dunnett: ** = p ≤ 0.01
	Body Temperature	7	Male	8 (4 h pa)	**	Anova & Dunnett: ** = p ≤ 0.01
	Body Temperature	7	Male	9 (24h pa)	**	Anova & Dunnett: ** = p ≤ 0.01
	Body Temperature	7	Male	16 (24h pa)	**	Anova & Dunnett: ** = p ≤ 0.01

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TABLE 5-1 Body Temperature - Summary

<u>Page</u>	<u>Measurement</u>	<u>Group</u>	<u>Sex</u>	<u>Day</u>	<u>Marker</u>	<u>Comments and Markers</u>
	Body Temperature	5	Male	22	*	Anova & Dunnett: * = $p \leq 0.05$
	Body Temperature	6	Male	22	**	Anova & Dunnett: ** = $p \leq 0.01$
	Body Temperature	6	Male	29	**	Anova & Dunnett: ** = $p \leq 0.01$
	Body Temperature	7	Male	22	*	Anova & Dunnett: * = $p \leq 0.05$
	Body Temperature	7	Male	29	*	Anova & Dunnett: * = $p \leq 0.05$

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TABLE 5-1      Body Temperature - Summary

Page	Measurement	Comments and Markers				
		Group	Sex	Day	Marker	
2	Body Temperature	2	Female	1 (4 h pa)	**	Anova & Dunnett: ** = p ≤ 0.01
		2	Female	8 (4 h pa)	**	Anova & Dunnett(RanL): ** = p ≤ 0.01
3	Body Temperature	3	Female	1 (4 h pa)	**	Anova & Dunnett: ** = p ≤ 0.01
4	Body Temperature	4	Female	15 (4 h pa)	**	Anova & Dunnett: ** = p ≤ 0.01
5	Body Temperature	5	Female	1 (4 h pa)	**	Anova & Dunnett: ** = p ≤ 0.01
5	Body Temperature	5	Female	8 (4 h pa)	*	Anova & Dunnett: * = p ≤ 0.05
6	Body Temperature	6	Female	1 (4 h pa)	**	Anova & Dunnett: ** = p ≤ 0.01
6	Body Temperature	6	Female	3 (48h pa)	n	Anova & Dunnett: n - Inappropriate for statistics
6	Body Temperature	6	Female	8 (4 h pa)	**	Anova & Dunnett: ** = p ≤ 0.01
6	Body Temperature	6	Female	15	n	Anova & Dunnett: n - Inappropriate for statistics
7	Body Temperature	7	Female	1 (4 h pa)	**	Anova & Dunnett: ** = p ≤ 0.01
7	Body Temperature	7	Female	2 (24h pa)	**	Anova & Dunnett: ** = p ≤ 0.01
7	Body Temperature	7	Female	8 (4 h pa)	**	Anova & Dunnett: ** = p ≤ 0.01
7	Body Temperature	7	Female	9 (24h pa)	**	Anova & Dunnett: ** = p ≤ 0.01
5	Body Temperature	5	Female	17	n	Anova & Dunnett: n - Inappropriate for statistics
7	Body Temperature	7	Female	16 (24h pa)	*	Anova & Dunnett: * = p ≤ 0.05

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TABLE 5-2 Body Temperature - Individual Data

Sex: Male	Body Temperature (°C)	Day(s) Relative to Start Date					Rat	
		1 (4 h pa)	2 (24h pa)	8 (4 h pa)	9 (24h pa)	15 (4 h pa)	16 (24h pa)	22
Group 1: Control								
1	37.1	37.1	37.1	37.2	36.9	38.4	38.2	-
2	37.3	37.3	37.5	37.4	38.0	38.7	38.8	-
3	37.2	37.2	37.2	37.3	37.2	38.2	37.6	-
4	37.4	37.4	38.2	37.3	37.4	38.7	38.1	-
5	37.4	37.4	37.6	37.1	38.1	37.9	38.2	-
6	37.9	37.9	37.4	37.3	37.2	38.2	37.7	-
7	37.4	37.4	37.2	36.9	36.6	38.3	38.1	-
8	37.7	37.7	38.2	37.7	37.4	38.7	38.4	-
9	37.3	37.3	37.3	37.3	37.7	38.0	38.5	-
10	37.2	37.2	37.0	37.0	37.9	38.3	38.3	-
11	37.1	37.1	38.0	36.9	38.0	38.1	37.9	36.6
12	37.3	37.3	37.3	37.7	37.4	38.1	37.4	37.1
13	37.4	37.4	37.6	37.1	36.5	38.2	37.7	37.6
14	37.4	37.4	37.4	37.5	36.5	37.7	37.7	38.0
15	37.3	37.3	37.6	37.2	36.8	38.2	38.0	37.7
Mean	37.36	37.51	37.26	37.31	38.25	38.04	37.40	
SD	0.21	0.37	0.25	0.56	0.29	0.38	0.55	
N	15	15	15	15	15	15	5	

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TABLE 5-2 Body Temperature - Individual Data

Sex: Male	Body Temperature (°C)	Rat
Group 1: Control	Day(s) Relative to Start Date	
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	-	-
10	-	-
11	37.4	36.4
12	37.8	36.5
13	37.1	36.8
14	38.1	36.5
15	38.2	37.9
Mean	37.72	36.82
SD	0.47	0.62
N	5	5

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TABLE 5-2 Body Temperature - Individual Data

Sex: Male	Body Temperature (°C)	Day(s) Relative to Start Date					Rat
Group 2: 30 µg/ animal BNT162a1	1 (4 h pa)	2 (24h pa)	8 (4 h pa)	9 (24h pa)	15 (4 h pa)	16 (24h pa)	22
31	37.8	38.3	37.5	38.6	38.7	39.1	-
32	37.4	38.4	37.8	39.1	37.9	39.1	-
33	38.2	39.0	38.2	39.1	38.0	39.2	-
34	37.2	38.5	37.4	38.8	37.9	37.8	-
35	38.1	38.3	38.2	38.8	38.5	38.5	-
36	38.1	38.3	37.4	39.2	38.4	39.2	-
37	38.6	39.0	38.7	39.4	38.6	39.2	-
38	38.2	38.6	38.8	39.3	38.2	39.6	-
39	38.2	38.6	38.3	39.5	38.3	39.1	-
40	38.2	38.7	38.1	39.1	38.3	39.0	-
41	38.0	38.3	37.9	38.8	38.5	39.2	38.3
42	37.9	39.0	37.3	39.5	38.1	38.7	37.1
43	37.3	38.2	37.2	38.1	38.6	38.3	37.7
44	37.8	38.4	38.0	38.9	38.1	38.5	38.5
45	37.8	38.5	37.8	39.2	37.4	39.1	37.4
Mean	37.92	38.54	37.91	39.03	38.23	38.91	37.80
SD	0.38	0.27	0.49	0.37	0.35	0.46	0.59
N	15	15	15	15	15	15	5

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TABLE 5-2

Sex: Male    Body Temperature (°C)

Group 2: 30 µg/ animal BNT162a1	Day(s) Relative to Start Date	
	29	36
31	-	-
32	-	-
33	-	-
34	-	-
35	-	-
36	-	-
37	-	-
38	-	-
39	-	-
40	38.5	38.6
41	38.5	37.4
42	38.7	36.9
43	38.3	37.1
44	38.1	37.1
45		
Mean	38.42	37.42
SD	0.23	0.68
N	5	5

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TABLE 5-2      Body Temperature - Individual Data

Sex: Male	Body Temperature (°C)	Day(s) Relative to Start Date					Rat
		1 (4 h pa)	2 (24h pa)	8 (4 h pa)	9 (24h pa)	15 (4 h pa)	
<b>Group 3: 10 µg/ animal BNT162a1</b>							
61	37.7	37.7	37.2	37.8	36.8	38.1	-
62	38.0	36.4	37.7	37.9	37.4	38.4	-
63	37.7	36.1	37.4	37.8	37.0	38.2	-
64	37.6	38.1	37.7	38.6	37.7	38.8	-
65	37.6	38.0	37.3	38.1	37.3	37.8	-
66	37.2	37.3	37.0	37.8	37.4	38.4	-
67	37.4	36.4	37.5	37.7	38.4	37.7	-
68	38.4	36.9	38.4	38.9	38.7	38.2	-
69	37.4	36.3	37.3	38.0	38.0	38.2	-
70	37.4	36.5	37.3	38.0	37.3	38.7	-
71	37.6	37.8	37.6	38.0	37.2	38.7	-
72	37.9	36.6	37.9	38.1	37.7	38.5	38.0
73	37.7	36.2	38.0	38.2	38.5	38.2	38.2
74	38.0	37.0	37.8	37.7	37.3	37.2	39.1
75	37.7	37.4	37.8	38.1	37.6	37.8	38.3
Mean	37.69	36.98	37.59	38.05	37.62	38.18	38.36
SD	0.30	0.69	0.36	0.33	0.56	0.43	0.43
N	15	15	15	15	15	15	5

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RNA Platforms encoding for Viral Proteins

TABLE 5-2 Body Temperature - Individual Data

Sex: Male	Body Temperature (°C)		Rat
<b>Group 3: 10 µg/ animal</b>			
BNT162a1	29	36	
61	-	-	
62	-	-	
63	-	-	
64	-	-	
65	-	-	
66	-	-	
67	-	-	
68	-	-	
69	-	-	
70	38.7	37.3	
71	39.2	38.7	
72	38.8	37.9	
73	37.5	36.9	
74	38.7	37.3	
75			
Mean	38.58	37.62	
SD	0.64	0.70	
N	5	5	

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TABLE 5-2 Body Temperature - Individual Data

Sex: Male	Body Temperature (°C)	Day(s) Relative to Start Date					Rat
Group 4: 30 µg/ animal BNT162b1	1 (4 h pa)	2 (24h pa)	8 (4 h pa)	9 (24h pa)	15 (4 h pa)	16 (24h pa)	22
91	38.3	38.5	37.8	38.5	37.9	37.2	-
92	37.4	37.6	37.7	38.3	37.3	38.0	-
93	37.3	38.5	37.0	38.0	37.3	38.0	-
94	36.7	37.7	36.5	38.3	37.0	37.9	-
95	37.4	37.7	37.4	39.0	38.2	37.6	-
96	37.7	37.7	37.2	37.4	36.9	38.0	-
97	38.6	37.9	37.4	38.2	37.5	38.2	-
98	37.8	37.6	37.8	38.5	37.4	38.2	-
99	36.9	37.4	37.3	38.4	37.4	38.2	-
100	37.6	37.8	37.5	38.1	37.4	37.9	-
101	37.7	37.7	38.8	39.0	37.7	39.0	39.3
102	37.7	37.2	37.5	37.2	37.0	37.1	38.3
103	37.4	37.8	37.6	38.1	38.0	38.3	38.4
104	37.2	37.5	37.3	37.8	37.1	37.8	37.8
105	37.8	37.8	37.1	38.1	37.3	38.2	38.2
Mean	37.57	37.76	37.46	38.19	37.43	37.97	38.40
SD	0.48	0.35	0.50	0.49	0.38	0.46	0.55
N	15	15	15	15	15	15	5

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TABLE 5-2 Body Temperature - Individual Data

Sex: Male	Body Temperature (°C)		Rat
<b>Group 4: 30 µg/ animal</b>			
BNT162b1	29	36	
91	-	-	
92	-	-	
93	-	-	
94	-	-	
95	-	-	
96	-	-	
97	-	-	
98	-	-	
99	-	-	
100	-	-	
101	39.4	39.5	
102	38.8	38.7	
103	38.3	37.9	
104	38.8	37.5	
105	38.0	37.6	
Mean	38.66	38.24	
SD	0.54	0.85	
N	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 5-2      Body Temperature - Individual Data

Sex: Male	Body Temperature (°C)	Day(s) Relative to Start Date					Rat
		1 (4 h pa)	2 (24h pa)	8 (4 h pa)	9 (24h pa)	15 (4 h pa)	
<b>Group 5: 100 µg/ animal BNT162b1</b>							
121	38.2	38.0	38.2	38.4	38.3	39.4	-
122	38.0	35.7	38.4	39.4	39.4	39.5	-
123	38.0	36.7	37.6	38.6	38.2	39.0	-
124	38.2	36.1	37.6	38.8	37.8	38.6	-
125	39.2	37.4	38.0	39.4	39.7	39.1	-
126	38.5	36.8	38.0	38.7	38.6	39.1	-
127	38.1	38.1	37.7	39.5	39.1	39.2	-
128	39.4	37.2	38.7	39.0	39.3	39.7	-
129	39.3	36.8	37.4	39.2	38.6	39.3	-
130	38.0	36.1	38.0	38.8	38.8	39.4	-
131	39.1	36.4	38.7	38.7	39.1	39.1	38.2
132	38.8	36.5	38.5	39.4	39.2	39.3	37.8
133	39.5	36.1	38.0	39.2	38.5	38.7	38.6
134	39.2	36.1	38.0	39.0	38.8	38.9	39.1
135	38.3	36.5	37.4	38.5	37.7	38.1	38.2
Mean	38.65	36.70	38.01	38.97	38.74	39.09	38.38
SD	0.58	0.71	0.43	0.36	0.58	0.40	0.49
N	15	15	15	15	15	15	5

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RNA Platforms encoding for Viral Proteins

TABLE 5-2      Body Temperature - Individual Data

Sex: Male	Body Temperature (°C)		Rat
<b>Group 5: 100 µg/ animal</b>			
BNT162b1		29	36
121	-	-	-
122	-	-	-
123	-	-	-
124	-	-	-
125	-	-	-
126	-	-	-
127	-	-	-
128	-	-	-
129	-	-	-
130	-	-	-
131	37.7	38.2	
132	37.8	36.6	
133	39.1	38.3	
134	39.1	37.7	
135	38.2	36.5	
Mean	38.38	37.46	
SD	0.68	0.86	
N	5	5	

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TABLE 5-2 Body Temperature - Individual Data

Sex: Male	Body Temperature (°C)	Day(s) Relative to Start Date						Rat
Group 6: 30 µg/ animal BNT162c1	1 (4 h pa)	2 (24h pa)	8 (4 h pa)	9 (24h pa)	15	22	29	
151	38.1	35.7	37.9	38.8	-	-	-	
152	38.6	37.5	37.9	38.7	-	-	-	
153	38.2	35.5	38.1	39.0	-	-	-	
154	38.1	36.1	37.8	39.0	-	-	-	
155	38.2	36.4	37.7	38.7	-	-	-	
156	38.1	36.7	37.4	39.0	-	-	-	
157	38.2	36.3	38.1	38.8	-	-	-	
158	39.1	36.1	38.0	39.4	-	-	-	
159	38.2	37.8	38.1	39.0	-	-	-	
160	38.0	37.2	38.0	38.8	-	-	-	
161	38.5	38.1	38.1	39.2	-	-	-	
162	38.1	36.9	38.2	39.0	-	-	-	
163	38.2	37.4	38.0	39.1	-	-	-	
164	38.6	35.9	38.6	39.2	-	-	-	
165	37.8	35.2	37.8	39.0	-	-	-	
Mean	38.27	36.59	37.98	38.98	38.60	38.48	39.00	
SD	0.32	0.87	0.27	0.20	0.23	0.34	0.36	
N	15	15	15	15	5	5	5	

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TABLE 5-2 Body Temperature - Individual Data

Sex: Male	Body Temperature (°C)	Day(s) Relative to Start Date					Rat	
Group 7: 100 µg/ animal BNT162b2		1 (4 h pa)	2 (24h pa)	8 (4 h pa)	9 (24h pa)	15 (4 h pa)	16 (24h pa)	22
181	38.2	38.7	38.1	39.2	38.5	38.6	-	-
182	39.1	37.2	39.0	39.4	39.3	39.1	-	-
183	38.6	37.7	38.1	39.4	37.8	39.4	-	-
184	38.6	37.3	38.1	39.0	38.5	39.1	-	-
185	38.8	37.6	38.3	38.1	38.6	38.4	-	-
186	38.9	36.1	38.6	39.6	39.5	39.5	-	-
187	38.2	38.3	37.7	39.1	37.8	38.9	-	-
188	38.5	37.1	38.1	38.1	39.0	39.4	-	-
189	37.6	38.3	37.4	38.8	38.4	39.2	-	-
190	38.4	37.8	38.0	38.5	39.0	38.9	-	-
191	38.6	37.2	38.0	38.4	38.3	39.0	38.0	38.6
192	38.4	36.0	37.7	39.1	38.4	39.2	39.0	39.0
193	38.1	37.3	37.8	38.5	37.8	39.3	38.3	38.3
194	38.4	38.0	38.2	39.7	39.1	39.7	38.3	38.3
195	38.9	37.1	38.0	39.2	39.0	38.9	38.3	38.3
Mean	38.49	37.45	38.07	38.94	38.60	39.11	38.44	
SD	0.38	0.75	0.38	0.52	0.54	0.34	0.38	
N	15	15	15	15	15	15	5	

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TABLE 5-2 Body Temperature - Individual Data

Sex: Male	Body Temperature (°C)		Rat
<b>Group 7: 100 µg/ animal BNT162b2</b>			
		Day(s) Relative to Start Date	
	29	36	
181	-	-	
182	-	-	
183	-	-	
184	-	-	
185	-	-	
186	-	-	
187	-	-	
188	-	-	
189	-	-	
190	-	-	
191	38.1	36.6	
192	39.3	36.5	
193	38.8	37.4	
194	38.5	37.1	
195	38.7	37.2	
Mean	38.68	36.96	
SD	0.44	0.39	
N	5	5	

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TABLE 5-2 Body Temperature - Individual Data

Sex: Female	Body Temperature (°C)	Day(s) Relative to Start Date					Rat	
Group 1: Control		1 (4 h pa)	2 (24h pa)	8 (4 h pa)	9 (24h pa)	15 (4 h pa)	16 (24h pa)	17
16	37.1	38.4	37.6	39.0	38.8	38.9	-	-
17	37.2	38.0	37.4	37.7	38.6	38.7	-	-
18	37.0	37.5	38.0	38.3	38.1	38.1	-	-
19	37.3	37.3	37.4	36.6	39.2	39.0	-	-
20	37.3	37.6	37.0	38.2	39.1	38.8	-	-
21	37.3	37.7	37.3	38.1	38.7	38.7	-	-
22	37.3	39.4	38.3	39.4	39.0	39.6	-	-
23	37.7	37.7	38.5	39.4	38.8	39.2	-	-
24	37.9	38.7	38.3	38.8	38.8	39.1	-	-
25	37.2	38.6	37.1	38.0	38.8	38.8	-	-
26	37.4	39.4	37.2	39.0	39.4	39.2	-	-
27	37.0	37.8	37.0	37.5	38.7	39.1	-	-
28	37.2	38.2	38.5	39.0	39.0	38.7	-	-
29	37.7	38.9	37.4	39.0	39.0	39.7	-	-
30	37.9	38.6	37.6	38.5	39.0	39.5	-	-
Mean	37.37	38.25	37.64	38.43	38.87	39.01	-	-
SD	0.30	0.67	0.54	0.78	0.30	0.41	-	-
N	15	15	15	15	15	15	-	-

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TABLE 5-2

Sex: Female	Body Temperature (°C)	Body Temperature - Individual Data		Rat
Group 1: Control		Day(s) Relative to Start Date		
16	-	-	-	-
17	-	-	-	-
18	-	-	-	-
19	-	-	-	-
20	-	-	-	-
21	-	-	-	-
22	-	-	-	-
23	-	-	-	-
24	-	-	-	-
25	-	-	-	-
26	38.7	39.0	39.4	
27	37.7	36.9	37.1	
28	39.0	38.7	37.7	
29	39.5	38.7	37.7	
30	39.3	38.3	39.4	
Mean	38.84	38.32	38.26	
SD	0.71	0.83	1.07	
N	5	5	5	

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TABLE 5-2 Body Temperature - Individual Data

Sex: Female	Body Temperature (°C)	Day(s) Relative to Start Date					Rat
Group 2: 30 µg/ animal BNT162a1	1 (4 h pa)	2 (24h pa)	8 (4 h pa)	9 (24h pa)	15 (4 h pa)	16 (24h pa)	17
46	38.8	38.5	38.2	39.0	38.4	38.9	-
47	38.4	38.3	37.7	38.7	39.0	39.7	-
48	37.8	38.5	38.1	38.5	38.0	38.3	-
49	37.4	38.8	38.0	39.2	37.7	39.2	-
50	37.2	38.1	38.3	38.8	38.5	39.1	-
51	38.2	38.6	38.8	39.2	39.0	39.4	-
52	38.9	38.6	38.0	39.1	38.2	38.7	-
53	37.7	38.7	38.6	39.8	38.7	40.2	-
54	38.5	38.6	38.7	39.6	39.6	39.9	-
55	39.4	39.6	38.9	39.7	39.4	39.9	-
56	38.5	38.2	38.4	38.8	38.6	38.9	-
57	38.6	39.1	38.5	39.2	38.5	39.8	-
58	38.6	38.8	38.9	39.6	38.8	39.0	-
59	38.8	38.8	38.2	38.7	38.7	38.5	-
60	37.7	38.2	38.0	38.7	38.7	38.5	-
Mean	38.30	38.63	38.35	39.05	38.65	39.20	-
SD	0.62	0.38	0.37	0.40	0.49	0.59	-
N	15	15	15	15	15	15	-

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RNA Platforms encoding for Viral Proteins

TABLE 5-2 Body Temperature - Individual Data

Sex: Female	Body Temperature (°C)			Rat
Group 2: 30 µg/ animal		Day(s) Relative to Start Date		
46	-	-	-	36
47	-	-	-	-
48	-	-	-	-
49	-	-	-	-
50	-	-	-	-
51	-	-	-	-
52	-	-	-	-
53	-	-	-	-
54	-	-	-	-
55	-	-	-	-
56	39.5	39.0	39.7	
57	39.1	38.6	39.2	
58	39.4	38.6	37.3	
59	39.1	39.1	39.0	
60	38.1	39.2	38.6	
Mean	39.04	38.90	38.76	
SD	0.55	0.28	0.91	
N	5	5	5	

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TABLE 5-2 Body Temperature - Individual Data

Sex: Female	Body Temperature (°C)	Day(s) Relative to Start Date					Rat
Group 3: 10 µg/ animal BNT162a1	1 (4 h pa)	2 (24h pa)	8 (4 h pa)	9 (24h pa)	15 (4 h pa)	16 (24h pa)	17
76	38.2	38.2	38.2	38.7	38.7	38.5	-
77	39.1	39.0	37.4	38.5	39.1	39.0	-
78	38.0	38.8	37.4	38.6	38.5	38.5	-
79	38.1	38.0	38.6	39.4	39.1	39.5	-
80	38.0	38.0	37.8	38.6	39.4	39.3	-
81	38.6	38.4	38.0	38.4	39.6	38.7	-
82	37.7	37.7	38.0	38.6	38.0	39.4	-
83	38.9	38.3	37.8	38.6	38.3	39.0	-
84	37.7	38.0	37.7	38.9	38.1	38.8	-
85	39.0	38.9	39.1	39.7	39.6	39.9	-
86	38.2	38.7	37.2	38.4	39.3	39.5	-
87	37.6	37.8	37.3	38.1	37.8	38.3	-
88	37.4	38.5	37.9	38.6	39.4	39.6	-
89	38.0	38.7	39.0	39.6	39.1	39.4	-
90	38.4	38.7	37.9	39.2	39.6	39.5	-
Mean	38.19	38.38	37.95	38.79	38.91	39.13	-
SD	0.52	0.42	0.57	0.47	0.63	0.48	-
N	15	15	15	15	15	15	-

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RNA Platforms encoding for Viral Proteins

TABLE 5-2      Body Temperature - Individual Data

Sex: Female	Body Temperature (°C)			Rat
Group 3: 10 µg/ animal		Day(s) Relative to Start Date		
	22	29	36	
76	-	-	-	
77	-	-	-	
78	-	-	-	
79	-	-	-	
80	-	-	-	
81	-	-	-	
82	-	-	-	
83	-	-	-	
84	-	-	-	
85	-	-	-	
86	39.1	39.2	38.8	
87	38.4	38.2	37.4	
88	39.1	39.2	39.3	
89	39.3	39.4	39.6	
90	39.3	39.3	38.7	
Mean	39.04	39.06	38.76	
SD	0.37	0.49	0.84	
N	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 5-2      Body Temperature - Individual Data

Sex: Female	Body Temperature (°C)	Day(s) Relative to Start Date					Rat
		1 (4 h pa)	2 (24h pa)	8 (4 h pa)	9 (24h pa)	15 (4 h pa)	
<b>Group 4: 30 µg/ animal BNT162b1</b>							
106	37.1	38.1	39.0	39.1	37.2	38.8	-
107	37.5	39.0	39.2	39.2	37.7	39.3	-
108	38.2	37.2	37.5	37.9	37.2	38.7	-
109	37.7	38.5	39.0	39.1	37.6	38.4	-
110	37.9	38.5	38.7	39.3	37.9	39.1	-
111	38.0	38.8	37.2	38.3	37.8	38.3	-
112	39.1	39.9	39.5	39.6	39.0	40.0	-
113	37.7	38.5	37.7	38.6	37.7	39.3	-
114	37.2	38.0	38.8	38.6	38.6	39.8	-
115	38.1	38.0	37.0	39.2	36.9	38.2	-
116	37.4	38.9	38.0	38.4	37.2	39.4	-
117	37.2	37.8	37.2	37.6	37.4	38.6	-
118	37.4	38.6	37.7	38.2	37.6	38.7	-
119	38.2	39.0	37.7	38.7	37.4	39.7	-
120	37.3	38.2	38.0	38.1	37.2	39.3	-
Mean	37.73	38.47	38.15	38.66	37.63	39.04	-
SD	0.53	0.63	0.81	0.58	0.55	0.56	-
N	15	15	15	15	15	15	-

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RNA Platforms encoding for Viral Proteins

TABLE 5-2

Sex: Female	Body Temperature (°C)	Body Temperature - Individual Data		Rat
Group 4: 30 µg/ animal BNT162b1		Day(s) Relative to Start Date		
	22	29	36	
106	-	-	-	
107	-	-	-	
108	-	-	-	
109	-	-	-	
110	-	-	-	
111	-	-	-	
112	-	-	-	
113	-	-	-	
114	-	-	-	
115	-	-	-	
116	39.0	39.5	38.8	
117	38.6	39.0	38.6	
118	38.8	38.4	38.3	
119	38.7	38.7	39.0	
120	39.5	38.6	39.0	
Mean	38.92	38.84	38.74	
SD	0.36	0.43	0.30	
N	5	5	5	

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TABLE 5-2 Body Temperature - Individual Data

Sex: Female	Body Temperature (°C)	Day(s) Relative to Start Date						Rat
		1 (4 h pa)	2 (24h pa)	8 (4 h pa)	9 (24h pa)	15 (4 h pa)	16 (24h pa)	
<b>Group 5: 100 µg/ animal BNT162b1</b>								
136	39.3	37.1	38.0	38.9	39.2	39.1	-	
137	38.4	37.7	38.2	39.2	39.0	39.7	-	
138	39.2	39.0	39.5	39.5	39.8	39.9	-	
139	38.3	38.5	38.0	38.6	39.4	38.6	-	
140	37.9	38.4	37.4	39.0	39.7	39.6	-	
141	37.7	37.8	37.5	39.0	39.3	38.8	-	
142	38.1	38.7	38.0	38.9	39.5	39.2	-	
143	38.3	37.8	38.2	38.9	38.5	39.4	-	
144	38.7	39.1	38.4	38.8	38.5	39.9	-	
145	38.4	38.9	38.2	39.2	38.2	39.0	-	
146	38.3	39.3	38.5	39.1	39.2	39.3	-	
147	38.1	37.2	37.8	39.1	39.6	39.8	-	
148	38.3	37.7	38.2	38.6	39.0	39.0	-	
149	38.4	38.9	39.0	38.5	39.5	40.2	-	
150	38.7	39.1	38.4	39.5	39.1	39.9	-	
Mean	38.41	38.35	38.22	38.99	39.17	39.43	38.50	
SD	0.43	0.73	0.53	0.30	0.47	0.47	-	
N	15	15	15	15	15	15	1	

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TABLE 5-2

Sex: Female	Body Temperature (°C)	Body Temperature - Individual Data		Rat
Group 5: 100 µg/ animal BNT162b1		Day(s) Relative to Start Date		
	22	29	36	
136	-	-	-	
137	-	-	-	
138	-	-	-	
139	-	-	-	
140	-	-	-	
141	-	-	-	
142	-	-	-	
143	-	-	-	
144	-	-	-	
145	-	-	-	
146	38.5	38.9	38.6	
147	39.4	39.4	39.2	
148	38.9	39.4	39.5	
149	39.2	39.5	39.1	
150	39.2	39.2	38.9	
Mean	39.04	39.28	39.06	
SD	0.35	0.24	0.34	
N	5	5	5	

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TABLE 5-2 Body Temperature - Individual Data

Sex: Female	Body Temperature (°C)	Day(s) Relative to Start Date					Rat
Group 6: 30 µg/ animal BNT162c1	1 (4 h pa)	2 (24h pa)	3 (48h pa)	8 (4h pa)	9 (24h pa)	15	22
166	39.5	39.1	-	39.0	39.2	-	-
167	38.1	35.7	-	37.7	38.9	-	-
168	38.0	38.8	-	38.2	38.7	-	-
169	39.6	38.5	-	38.0	38.9	-	-
170	38.6	37.1	-	37.7	38.7	-	-
171	39.6	40.0	39.2	39.6	39.4	-	-
172	38.0	38.0	-	39.6	39.8	-	-
173	38.8	38.7	-	39.2	39.4	-	-
174	38.7	38.5	-	38.6	38.7	-	-
175	38.2	36.7	-	38.0	38.5	-	-
176	38.7	38.7	-	38.3	39.2	-	-
177	39.1	39.1	-	37.8	39.5	-	-
178	39.0	37.1	-	38.3	38.8	-	-
179	38.1	36.9	-	38.0	39.1	-	-
180	38.4	38.9	-	38.6	39.4	-	-
Mean	38.69	38.12	39.20	38.44	39.03	38.70	38.90
SD	0.57	1.16	-	0.64	0.45	0.37	0.20
N	15	15	1	15	15	5	5

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TABLE 5-2 Body Temperature - Individual Data

Sex: Female	Body Temperature (°C)	Rat
Group 6: 30 µg/ animal	Day(s) Relative to Start Date	
BNT162c1	29	
166	-	
167	-	
168	-	
169	-	
170	-	
171	-	
172	-	
173	-	
174	-	
175	-	
176	39.2	
177	39.1	
178	39.4	
179	39.2	
180	38.5	
Mean	39.08	
SD	0.34	
N	5	

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TABLE 5-2 Body Temperature - Individual Data

Sex: Female	Body Temperature (°C)	Day(s) Relative to Start Date						Rat
		1 (4 h pa)	2 (24h pa)	8 (4 h pa)	9 (24h pa)	15 (4 h pa)	16 (24h pa)	
<b>Group 7: 100 µg/ animal BNT162b2</b>								
196	39.0	39.3	38.2	39.4	39.0	39.5	-	
197	37.7	39.0	38.2	39.1	39.2	38.9	-	
198	38.3	38.6	38.7	39.2	38.3	39.4	-	
199	38.8	38.8	38.0	39.2	39.5	39.5	-	
200	39.0	39.5	38.8	39.6	39.6	39.9	-	
201	38.2	39.1	38.1	39.7	38.3	39.6	-	
202	38.0	39.3	38.5	39.6	39.2	39.9	-	
203	38.5	39.4	38.2	39.0	38.8	39.0	-	
204	38.6	39.0	38.5	39.1	39.7	38.9	-	
205	38.9	39.1	38.8	39.6	39.5	39.9	-	
206	38.5	39.2	38.1	39.6	39.1	39.9	-	
207	38.5	38.8	38.6	39.1	39.0	39.9	-	
208	37.8	38.7	38.0	38.2	39.2	39.1	-	
209	39.0	39.1	38.4	39.4	39.6	39.7	-	
210	38.9	39.4	38.2	39.6	39.0	39.6	-	
Mean	38.51	39.09	38.35	39.29	39.13	39.51	-	
SD	0.44	0.27	0.28	0.38	0.43	0.38	-	
N	15	15	15	15	15	15	-	

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TABLE 5-2

Sex: Female	Body Temperature (°C)	Body Temperature - Individual Data		Rat
<b>Group 7: 100 µg/ animal BNT162b2</b>				
196	-	22	29	36
197	-	-	-	-
198	-	-	-	-
199	-	-	-	-
200	-	-	-	-
201	-	-	-	-
202	-	-	-	-
203	-	-	-	-
204	-	-	-	-
205	38.8	39.3	39.2	39.2
206	39.4	39.2	39.2	39.2
207	39.1	38.7	39.0	39.0
208	39.1	38.8	39.4	39.4
209	38.6	39.0	39.1	39.1
Mean	39.00	39.00	39.18	
SD	0.31	0.25	0.15	
N	5	5	5	

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TABLE 6-1 Haematological Parameters - Summary

		Day: 4 Relative to Start Date					
		Rat					
Sex: Male		Haematological Parameters					
		HGB (mmol/L)	RBC ( $\times 10^6/\mu\text{L}$ )	WBC ( $\times 10^3/\mu\text{L}$ )	Reti (%)	Reti ( $\times 10^3/\mu\text{L}$ )	PLT ( $\times 10^3/\mu\text{L}$ )
Group 1: Control	Mean SD N	[a] 8.60 0.24 10	[a] 7.270 0.365 10	[a] 9.367 2.087 10	[a] 4.21 0.58 10	[a] 306.96 36.75 10	[a] 998.5 129.0 10
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	8.43 0.25 10 -2.0	7.218 0.260 10 -0.7	11.746 2.519 10 25.4	1.04** 0.22 10 -75.3	74.85** 14.71 10 -75.6	1021.7 131.1 10 2.3
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	8.99* 0.42 10 4.5	7.754** 0.371 10 6.7	10.574 1.841 10 12.9	1.51** 0.34 10 -64.1	116.28** 23.50 10 -62.1	1118.6 154.1 10 12.0
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	8.21* 0.17 10 -4.5	7.126 0.198 10 -2.0	10.001 2.166 10 6.8	2.40 0.41 10 -43.0	171.12** 28.57 10 -44.3	1001.6 126.9 10 0.3

[a] - Anova & Dunnett.. \* =  $p \leq 0.05$ ; \*\* =  $p \leq 0.01$ [a1] - Anova & Dunnett(Rank); \*\* =  $p \leq 0.01$ [a2] - Anova & Dunnett(Log); \* =  $p \leq 0.05$

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

		Day: 4 Relative to Start Date					
		Rat					
Sex: Male		Haematological Parameters					
		HGB (mmol/L)	RBC ( $\times 10^6/\mu\text{L}$ )	WBC ( $\times 10^3/\mu\text{L}$ )	Reti (%)	Reti ( $\times 10^3/\mu\text{L}$ )	PLT ( $\times 10^3/\mu\text{L}$ )
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	8.93* 0.23 10 3.8	7.784** 0.249 10 7.1	10.911 2.388 10 16.5	1.45** 0.35 10 -65.6	112.54** 26.19 10 -63.3	1051.6 148.2 10 5.3
Group 6: 30 µg/ animal BNT162c1	Mean SD N %Diff	8.95* 0.34 10 4.1	7.796** 0.323 10 7.2	12.886** 2.098 10 37.6	0.99** 0.28 10 -76.5	77.06** 20.59 10 -74.9	1099.3 147.4 10 10.1
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	9.11** 0.21 10 5.9	7.848** 0.182 10 8.0	12.834** 1.431 10 37.0	1.08** 0.23 10 -74.3	85.52** 16.53 10 -72.1	948.9 164.8 10 -5.0

[a] - Anova & Dunnett: \* =  $p \leq 0.05$ ; \*\* =  $p \leq 0.01$

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Day: 10 Relative to Start Date		Haematological Parameters						
Sex: Male		HGB (mmol/L)	RBC (x10E6/ $\mu$ L)	WBC (x10E3/ $\mu$ L)	Reti (%)	Reti (x10E3/ $\mu$ L)	PLT (x10E3/ $\mu$ L)	HCT (%)
Group 6: 30 $\mu$ g/ animal BNT162c1	Mean SD N	[a] 8.75n 0.37 10	[a] 7.708n 0.319 10	[a] 20.115n 4.492 10	[a] 2.49n 0.50 10	[a] 192.67n 36.61 10	[a] 708.8n 100.9 10	[a] 41.46n 1.90 10

[a] - Anova &amp; Dunnett: n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

		Day: 17 Relative to Start Date						
Sex: Male		Haematological Parameters						
		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
Group 1: Control	Mean SD N	[a] 9.14 0.25 10	[a] 7.956 0.232 10	[a] 9.090 2.418 10	[a] 2.96 0.37 10	[a] 234.60 25.66 10	[a] 1089.2 199.5 10	[a] 45.03 1.21 10
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	8.67** 0.31 10 -5.1	7.723 0.229 10 -2.9	16.280** 3.632 10 79.1	2.26** 0.46 10 -23.6	174.83** 33.86 10 -25.5	804.7** 148.6 10 -26.1	42.43** 1.50 10 -5.8
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	8.69** 0.31 10 -4.9	7.844 0.403 10 -1.4	14.759** 2.207 10 62.4	2.43 0.39 10 -17.9	190.39* 29.73 10 -18.8	805.1** 169.4 10 -26.1	41.10** 1.40 10 -8.7
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	8.62** 0.23 10 -5.7	7.751 0.285 10 -2.6	14.612** 3.826 10 60.7	2.46 0.30 10 -16.9	188.61* 20.68 10 -19.6	930.6 167.8 10 -14.6	42.66** 1.27 10 -5.3

[a] - Anova & Dunnett: \*\* = p ≤ 0.01  
 [a] - Anova & Dunnett(Log): \* = p ≤ 0.05, \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

		Haematological Parameters						
Day: 17 Relative to Start Date		HGB (mmol/L)	RBC (x10E6/ $\mu$ L)	WBC (x10E3/ $\mu$ L)	Reti (%)	Reti (x10E3/ $\mu$ L)	PLT (x10E3/ $\mu$ L)	HCT (%)
Sex: Male		[a]	[a]	[a]	[a]	[a]	[a]	[a]
Group 5: 100 $\mu$ g/ animal	Mean	8.14**	7.511	16.564** 4.442	3.00 0.85	223.29	817.2** 145.9	38.79** 1.80
	SD	0.34	0.430	10	10	59.50	10	10
	N	10				10		
	%Diff	-10.9	-5.6	82.2	1.4	-4.8	-25.0	-13.9
BNT162b1	Mean	8.31**	7.670	19.876** 5.114	2.27** 0.41	172.94** 28.95	771.4** 121.1	39.65** 1.55
	SD	0.33	0.307	10	10	10	10	10
	N	10						
	%Diff	-9.1	-3.6	118.7	-23.3	-26.3	-29.2	-11.9
Group 7: 100 $\mu$ g/ animal	Mean							
BNT162b2	Mean							

[a] - Anova &amp; Dunnett: \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Day: 31 Relative to Start Date		Haematological Parameters						
Sex: Male		HGB (mmol/L)	RBC (x10E6/ $\mu$ L)	WBC (x10E3/ $\mu$ L)	Reti (%)	Reti (x10E3/ $\mu$ L)	PLT (x10E3/ $\mu$ L)	HCT (%)
Group 6: 30 $\mu$ g/ animal BNT162c1	[a] Mean SD N	8.80n 0.16 5	[a] 8.456n 0.201 5	[a] 6.900n 1.457 5	[a] 2.40n 0.29 5	[a] 202.06n 27.22 5	[a] 977.4n 117.6 5	[a] 42.62n 0.99 5

[a] - Anova &amp; Dunnett n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

		Day: 38 Relative to Start Date						
Sex: Male		Haematological Parameters						
		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
Group 1: Control	Mean SD N	[a] 8.96 0.46 5	[a] 8.524 0.626 5	[a] 10.126 2.715 5	[a] 2.80 0.62 5	[a] 236.12 42.05 5	[a] 988.4 160.5 5	[a] 44.22 1.79 5
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	9.00 0.20 5 0.4	8.582 0.134 5 0.7	9.254 1.545 5 -8.6	3.04 0.34 5 8.6	261.06 28.05 5 10.6	1106.4 64.9 5 11.9	44.34 0.67 5 0.3
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	9.04 0.45 5 0.9	8.680 0.487 5 1.8	9.280 2.388 5 -8.4	2.56 0.40 5 -8.6	222.06 26.58 5 -6.0	1040.0 185.1 5 5.2	44.26 1.97 5 0.1
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	8.56 0.28 5 -4.5	8.338 0.463 5 -2.2	8.066 2.376 5 -20.3	2.66 0.56 5 -5.0	222.08 39.64 5 -5.9	942.0 126.0 5 -4.7	42.52 1.73 5 -3.8

[a] - Anova &amp; Dunnett

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Day: 38 Relative to Start Date		Haematological Parameters						
Sex: Male		HGB (mmol/L)	RBC (x10E6/ $\mu$ L)	WBC (x10E3/ $\mu$ L)	Reti (%)	Reti (x10E3/ $\mu$ L)	PLT (x10E3/ $\mu$ L)	HCT (%)
Group 5: 100 $\mu$ g/ animal	Mean SD N %Diff	8.86 0.26 5 -1.1	8.668 0.237 5 1.7	9.048 1.157 5 -10.6	2.32 0.40 5 -17.1	201.20 40.75 5 -14.8	921.4 76.2 5 -6.8	43.56 1.71 5 -1.5
BNT162b1								
Group 7: 100 $\mu$ g/ animal	Mean SD N %Diff	9.08 0.28 5 1.3	8.884 0.351 5 4.2	10.370 2.679 5 2.4	2.40 0.45 5 -14.3	211.78 38.99 5 -10.3	1027.0 159.6 5 3.9	44.56 1.66 5 0.8
BNT162b2								

[a] - Anova &amp; Dunnett

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1      Haematological Parameters - Summary

Sex: Male		Haematological Parameters					
		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
Group 1: Control	Mean SD N	15.93 2.78 10	78.39 3.54 10	3.10 0.58 10	1.31 0.39 10	0.98 0.39 10	0.28 0.08 10
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	29.05 3.79 10 82.4	60.74 5.51 10 -22.5	3.42 0.82 10 10.3	1.04 0.34 10 -20.6	5.46 2.17 10 457.1	0.33 0.08 10 17.9
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	13.58 3.45 10 -14.8	79.92 4.56 10 2.0	2.80 0.62 10 -9.7	1.14 0.41 10 -13.0	2.11 0.69 10 115.3	0.44 0.10 10 57.1
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	14.78 3.37 10 -7.2	79.57 3.61 10 1.5	2.57 0.48 10 -17.1	1.32 0.60 10 0.8	1.43 0.52 10 45.9	0.33 0.07 10 17.9

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1      Haematological Parameters - Summary

Sex: Male		Haematological Parameters					
		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	12.08 1.79 10 -24.2	82.40 2.95 10 5.1	1.93 0.53 10 -37.7	1.10 0.37 10 -16.0	2.11 1.03 10 115.3	0.39 0.12 10 39.3
Group 6: 30 µg/ animal BNT162c1	Mean SD N %Diff	19.64 2.52 10 23.3	72.80 3.68 10 -7.1	3.18 1.07 10 2.6	0.75 0.24 10 -42.7	3.17 1.76 10 223.5	0.45 0.10 10 60.7
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	15.79 6.43 10 -0.9	77.95 7.77 10 -0.6	2.15 0.61 10 -30.6	0.86 0.46 10 -34.4	2.76 0.75 10 181.6	0.49 0.07 10 75.0

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Day: 10 Relative to Start Date		Haematological Parameters					
Sex: Male		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	
Group 6: 30 µg/ animal BNT162c1	Mean SD N	44.37 7.23 10	44.33 8.32 10	3.18 1.06 10	0.48 0.18 10	7.18 2.61 10	0.47 0.22 10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Day: 17 Relative to Start Date		Haematological Parameters					
Sex: Male		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
Group 1: Control	Mean SD N	16.11 6.39 10	77.96 6.57 10	3.38 0.63 10	1.27 0.34 10	0.95 0.28 10	0.32 0.09 10
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	47.63 4.39 10 195.7	41.20 4.79 10 -47.2	3.47 0.60 10 2.7	0.61 0.17 10 -52.0	6.73 3.16 10 608.4	0.37 0.13 10 15.6
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	36.56 5.18 10 126.9	54.82 4.57 10 -29.7	4.18 1.32 10 23.7	0.75 0.31 10 -40.9	3.25 1.06 10 242.1	0.46 0.08 10 43.8
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	40.64 6.72 10 152.3	51.38 6.71 10 -34.1	4.35 1.39 10 28.7	1.64 0.36 10 29.1	1.61 0.32 10 69.5	0.41 0.12 10 28.1

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Day: 17 Relative to Start Date		Haematological Parameters					
Sex: Male		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	46.94 6.74 10 191.4	43.82 7.90 10 -43.8	3.34 0.94 10 -1.2	2.21 0.64 10 74.0	3.32 1.32 10 249.5	0.37 0.07 10 15.6
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	51.91 3.40 10 222.2	39.18 4.27 10 -49.7	2.53 0.98 10 -25.1	2.83 0.71 10 122.8	3.21 1.46 10 237.9	0.34 0.13 10 6.3

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Day: 31 Relative to Start Date		Haematological Parameters					
Sex: Male		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
Group 6: 30 µg/ animal BNT162c1	Mean SD N	21.10 2.21 5	73.18 2.59 5	3.14 0.56 5	1.54 0.17 5	0.82 0.19 5	0.22 0.08 5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1      Haematological Parameters - Summary

Sex: Male		Haematological Parameters					
		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
Group 1: Control	Mean SD N	17.54 2.88 5	76.02 3.69 5	3.32 0.80 5	1.78 0.63 5	1.08 0.25 5	0.28 0.04 5
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	15.26 2.29 5 -13.0	77.78 1.62 5 2.3	3.74 0.77 5 12.7	1.48 0.48 5 -16.9	1.46 0.44 5 35.2	0.30 0.10 5 7.1
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	15.74 3.35 5 -10.3	78.58 4.11 5 3.4	2.98 0.89 5 -10.2	1.54 0.54 5 -13.5	0.92 0.19 5 -14.8	0.20 0.07 5 -28.6
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	19.94 5.77 5 13.7	73.28 5.50 5 -3.6	3.54 0.86 5 6.6	2.02 0.34 5 13.5	1.00 0.29 5 -7.4	0.26 0.05 5 -7.1

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Day: 38 Relative to Start Date		Haematological Parameters					
Sex: Male		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
Group 5: 100 µg/ animal	Mean SD N %Diff	19.86 3.93 5 -1.6	74.82 4.17 5 -24.1	2.52 0.39 5 -5.6	1.68 0.70 5 -20.4	0.86 0.21 5 -10.4	0.24 0.11 5 -14.3
BNT162b1		13.2					
Group 7: 100 µg/ animal	Mean SD N %Diff	17.94 6.72 5 -0.2	75.84 7.21 5 -6.6	3.10 0.84 5 -1.1	1.76 0.57 5 -1.9	1.10 0.44 5 0.0	0.28 0.04 5 0.0
BNT162b2		2.3					

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

		Day: 4 Relative to Start Date						Rat
		Haematological Parameters						
Sex: Male		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)	Baso (x10E3/µL)	
Group 1: Control		[a] 1.499 0.458 10	[a] 7.338 1.608 10	[a] 0.292 0.097 10	[a] 0.121 0.037 10	[a] 0.089 0.026 10	[a] 0.026 0.012 10	
Group 2: 30 µg/ animal BNT162a1		3.430 ** 0.888 10 %Diff 128.8	7.087 1.507 10 -3.4	0.406 0.144 10 39.0	0.121 0.051 10 0.0	0.663 ** 0.305 10 64.9	0.038 0.018 10 46.2	
Group 3: 10 µg/ animal BNT162a1		1.414 0.355 10 %Diff -5.7	8.479 1.682 10 15.5	0.296 0.080 10 1.4	0.119 0.041 10 -1.7	0.219 ** 0.073 10 146.1	0.047 * 0.018 10 80.8	
Group 4: 30 µg/ animal BNT162b1		1.464 0.407 10 %Diff -2.3	7.976 1.830 10 8.7	0.255 0.067 10 -12.7	0.124 0.042 10 2.5	0.146 0.079 10 64.0	0.035 0.014 10 34.6	

[a] - Anova & Dunnett(Log): \*\* = p ≤ 0.01  
 [a] - Anova & Dunnett: \* = p ≤ 0.05

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

		Day: 4 Relative to Start Date					
		Rat					
Sex: Male		Haematological Parameters					
		Neut ( $\times 10^3/\mu\text{L}$ )	Lym ( $\times 10^3/\mu\text{L}$ )	Mono ( $\times 10^3/\mu\text{L}$ )	Eos ( $\times 10^3/\mu\text{L}$ )	LUC ( $\times 10^3/\mu\text{L}$ )	Baso ( $\times 10^3/\mu\text{L}$ )
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	[a] 1.317 0.340 10 -12.1	[a] 8.996 2.006 10 22.6	[a] 0.209 0.076 10 -28.4	[a] 0.119 0.055 10 -1.7	[a] 0.224** 0.097 10 151.7	[a] 0.042 0.019 10 61.5
Group 6: 30 µg/ animal BNT162c1	Mean SD N %Diff	[a] 2.524** 0.478 10 68.4	[a] 9.393* 1.671 10 28.0	[a] 0.405 0.152 10 38.7	[a] 0.097 0.029 10 -19.8	[a] 0.410** 0.210 10 360.7	[a] 0.060** 0.020 10 130.8
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	[a] 1.998 0.755 10 33.3	[a] 10.039** 1.733 10 36.8	[a] 0.273 0.082 10 -6.5	[a] 0.110 0.059 10 -9.1	[a] 0.352** 0.092 10 295.5	[a] 0.065** 0.014 10 150.0

[a] - Anova & Dunnett: \* =  $p \leq 0.05$ ; \*\* =  $p \leq 0.01$

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Day: 10 Relative to Start Date		Haematological Parameters					
Sex: Male		Neut (x10E3/ $\mu$ L)	Lym (x10E3/ $\mu$ L)	Mono (x10E3/ $\mu$ L)	Eos (x10E3/ $\mu$ L)	LUC (x10E3/ $\mu$ L)	Baso (x10E3/ $\mu$ L)
Group 6: 30 $\mu$ g/ animal	Mean SD N	8.793n 1.767 10	[a] 9.110n 3.446 10	[a] 0.632n 0.232 10	[a] 0.094n 0.037 10	[a] 1.384n 0.455 10	[a] 0.102n 0.078 10
BNT162c1	-	-	-	-	-	-	-

[a] - Anova &amp; Dunnett n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

		Day: 17 Relative to Start Date					
Sex: Male		Haematological Parameters					
		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)	Baso (x10E3/µL)
Group 1: Control	Mean SD N	[a] 1.458 0.707 10	[a] 7.094 2.057 10	[a1] 0.308 0.102 10	[a2] 0.109 0.014 10	[a] 0.088 0.051 10	[a] 0.030 0.014 10
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	7.736 ** 1.803 10 430.6	6.645 1.466 10 -6.3	0.569 * 0.184 10 84.7	0.101 0.036 10 -7.3	1.167 ** 0.672 10 1226.1	0.063 ** 0.029 10 1100
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	5.353 ** 0.805 10 267.1	8.116 1.525 10 14.4	0.627 ** 0.241 10 103.6	0.106 0.030 10 -2.8	0.489 ** 0.197 10 455.7	0.069 ** 0.017 10 130.0
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	5.893 ** 1.610 10 304.2	7.564 2.424 10 6.6	0.623 ** 0.227 10 102.3	0.231 ** 0.049 10 111.9	0.237 ** 0.088 10 169.3	0.060 ** 0.034 10 100.0

[a] - Anova & Dunnett(Log): \*\* = p ≤ 0.01  
 [a1] - Anova & Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01  
 [a2] - Anova & Dunnett(Rank): \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Day: 17 Relative to Start Date		Haematological Parameters					
Sex: Male		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)	Baso (x10E3/µL)
Group 5: 100 µg/ animal	Mean SD N %Diff	7.980** 3.197 10 447.3	[a] 7.021 1.113 10 -1.0	[a] 0.548* 0.184 10 77.9	[a] 0.360** 0.119 10 230.3	[a] 0.594** 0.453 10 575.0	[a] 0.063** 0.025 10 110.0
Group 7: 100 µg/ animal	Mean SD N %Diff	10.291** 2.545 10 605.8	7.752 2.029 10 9.3	0.502 0.230 10 63.0	0.566** 0.199 10 419.3	0.691** 0.468 10 685.2	0.074** 0.040 10 146.7
BNT162b1							
BNT162b2							

[a] - Anova &amp; Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Day: 31 Relative to Start Date		Haematological Parameters					
Sex: Male		Neut (x10E3/ $\mu$ L)	Lym (x10E3/ $\mu$ L)	Mono (x10E3/ $\mu$ L)	Eos (x10E3/ $\mu$ L)	LUC (x10E3/ $\mu$ L)	Baso (x10E3/ $\mu$ L)
Group 6: 30 $\mu$ g/ animal	Mean SD N	[a] 1.470n 0.420 5	[a] 5.034n 0.984 5	[a] 0.216n 0.062 5	[a] 0.106n 0.023 5	[a] 0.060n 0.016 5	[a] 0.016n 0.009 5
					-	-	-

[a] - Anova &amp; Dunnett: n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

		Day: 38 Relative to Start Date						Rat
		Haematological Parameters						
Sex: Male		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)	Baso (x10E3/µL)	
Group 1: Control		[a] 1.806 0.724 5	[a] 7.638 1.735 5	[a] 0.352 0.185 5	[a] 0.194 0.116 5	[a] 0.106 0.027 5	[a] 0.028 0.015 5	
Group 2: 30 µg/ animal BNT162a1		1.404 0.268 5 -22.3	7.194 1.173 5 -5.8	0.350 0.119 5 -0.6	0.138 0.055 5 -28.9	0.138 0.056 5 30.2	0.028 0.008 5 0.0	
Group 3: 10 µg/ animal BNT162a1		1.410 0.196 5 -21.9	7.358 2.272 5 -3.7	0.268 0.057 5 -23.9	0.134 0.030 5 -30.9	0.090 0.041 5 -15.1	0.018 0.013 5 -35.7	
Group 4: 30 µg/ animal BNT162b1		1.530 0.362 5 -15.3	5.984 2.049 5 -21.7	0.286 0.113 5 -18.8	0.160 0.056 5 -17.5	0.082 0.033 5 -22.6	0.020 0.010 5 -28.6	

[a] - Anova & Dunnett  
 [a1] - Anova & Dunnett(Rank)

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Sex: Male		Haematological Parameters					
		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)	Baso (x10E3/µL)
Group 5: 100 µg/ animal	Mean SD N	1.798 0.458 5	6.768 0.935 5	0.224 0.013 5	0.158 0.077 5	0.076 0.025 5	0.022 0.013 5
BNT162b1	%Diff	-0.4	-11.4	-36.4	-18.6	-28.3	-21.4
Group 7: 100 µg/ animal	Mean SD N	1.830 0.623 5	7.906 2.412 5	0.310 0.069 5	0.180 0.080 5	0.114 0.053 5	0.030 0.016 5
BNT162b2	%Diff	1.3	3.5	-11.9	-7.2	7.5	7.1

[a] - Anova &amp; Dunnett

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1      Haematological Parameters - Summary

Day: 4 Relative to Start Date		Haematological Parameters			
Sex: Male		MCV (fL)	MCH (fmol)	MCHC (mmol/L)	Rat
Group 1: Control	Mean SD N	[a] 57.74 2.12 10	[a] 1.184 0.042 10	[a] 20.490 0.150 10	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	56.24 1.48 10 -2.6	1.167 0.028 10 -1.4	20.782* 0.244 10 1.4	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	55.19** 1.16 10 -4.4	1.161 0.028 10 -1.9	21.034** 0.286 10 2.7	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	56.73 1.55 10 -1.7	1.154 0.025 10 -2.5	20.362 0.229 10 -0.6	

[a] - Anova &amp; Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Day: 4 Relative to Start Date		Haematological Parameters			
Sex: Male		MCV (fL)	MCH (fmol)	MCHC (mmol/L)	Rat
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	54.63 ** 0.93 10 -5.4	[a] 1.49 0.025 10 -3.0	[a] 21.039 ** 0.261 10 2.7	
Group 6: 30 µg/ animal BNT162c1	Mean SD N %Diff	54.75 ** 1.44 10 -5.2	[a] 1.150 0.026 10 -2.9	[a] 20.990 ** 0.256 10 2.4	
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	54.68 ** 1.38 10 -5.3	[a] 1.162 0.023 10 -1.9	[a] 21.252 ** 0.266 10 3.7	

[a] - Anova &amp; Dunnett: \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1      Haematological Parameters - Summary

Day: 10 Relative to Start Date		Haematological Parameters						Rat
		Sex: Male	PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	
Group 6: 30 µg/ animal	BNT162c1	Mean SD N	[a] 9.91 n 0.39 10	[a] 18.25 n 0.78 10	[a] 298.20 n 18.63 10	[a] 53.80 n 1.59 10	[a] 1.133 n 0.021 10	[a] 21.070 n 0.364 10

[a] - Anova & Dunnett: n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1      Haematological Parameters - Summary

Sex: Male		Haematological Parameters						Rat
		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)	
Group 1: Control	Mean SD N	[a] 9.57 0.22 9	[a] 15.32 1.79 9	[a2] 106.12 9.55 9	[a] 56.61 1.67 10	[a] 1.151 0.029 10	[a] 20.319 0.270 10	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	9.49 0.60 10 -0.8	17.70 ** 1.40 10 15.5	309.10 ** 23.06 10 191.3	54.96 * 1.03 10 -2.9	1.122 0.017 10 -2.5	20.403 0.253 10 0.4	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	9.70 0.37 9 1.4	18.11 ** 1.31 9 18.2	271.00 ** 22.32 9 155.4	52.48 ** 1.47 10 -7.3	1.110 ** 0.028 10 -3.6	21.153 ** 0.239 10 4.1	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	9.56 0.33 10 -0.1	14.59 0.54 10 -4.8	271.40 ** 22.57 10 155.7	55.07 * 0.97 10 -2.7	1.113 ** 0.025 10 -3.3	20.217 0.305 10 -0.5	

[a] - Anova & Dunnett.. \* =  $p \leq 0.05$ ; \*\* =  $p \leq 0.01$

[a1] - Anova & Dunnett(Rank); \*\* =  $p \leq 0.01$

[a2] - Anova & Dunnett(Log); \*\* =  $p \leq 0.01$

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Sex: Male		Haematological Parameters						Rat
		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)	
Group 5: 100 µg/ animal	Mean SD N %Diff	9.33 0.51 10 -2.5	[a] 16.82 1.17 10 9.8	[a] 310.0** 11.81 10 192.1	[a] 51.69** 1.20 10 -8.7	[a] 1.085** 0.022 10 -5.7	[a] 20.998** 0.336 10 3.3	
Group 7: 100 µg/ animal	Mean SD N %Diff	9.38 0.45 10 -2.0	17.49* 1.22 10 14.1	323.90** 27.56 10 205.2	51.72** 1.43 10 -8.6	1.082** 0.029 10 -6.0	20.963** 0.209 10 3.2	
BNT162b1								
BNT162b2								

[a] - Anova &amp; Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Day: 31 Relative to Start Date		Haematological Parameters						Rat
Sex: Male		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)	
Group 6: 30 µg/ animal	Mean SD N	[a] 9.76n 0.47 5	[a] 14.58n 1.03 5	[a] 140.80n 55.98 5	[a] 50.42n 0.61 5	[a] 1.038n 0.025 5	[a] 20.628n 0.297 5	-
BNT162c1	-	-	-	-	-	-	-	-

[a] - Anova &amp; Dunnett n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Day: 38 Relative to Start Date			Rat					
Sex: Male			Haematological Parameters					
	PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)	[a]	
Group 1: Control	Mean SD N	[a] 9.42 0.32 5	[a] 15.74 0.90 5	[a] 164.34 75.46 5	[a] 52.00 1.82 5	[a] 1.054 0.034 5	[a] 20.280 0.184 5	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	9.94 0.38 5 5.5	15.78 0.70 5 0.3	95.52 7.40 5 -41.9	51.68 1.08 5 -0.6	1.052 0.029 5 -0.2	- 20.318 0.201 5 0.2	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	9.70 0.20 5 3.0	15.64 1.23 5 -0.6	127.80 71.17 5 -22.2	51.00 1.04 5 -1.9	1.040 0.020 5 -1.3	20.378 0.275 5 0.5	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	9.88 0.18 5 4.9	15.22 0.24 5 -3.3	102.90 10.75 5 -37.4	51.04 1.65 5 -1.8	1.028 0.029 5 -2.5	20.106 0.322 5 -0.9	

[a] - Anova & Dunnett  
 [a1] - Anova & Dunnett(Rank)

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Sex: Male		Haematological Parameters					
		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)
Group 5: 100 µg/ animal	Mean SD N %Diff	9.60 0.37 5 1.9	[a] 16.46 2.24 5 4.6	[a] 132.82 72.39 5 -19.2	[a] 50.22 0.80 5 -3.4	[a] 1.020 0.007 5 -3.2	[a] 20.332 0.170 5 0.3
BNT162b1							
Group 7: 100 µg/ animal	Mean SD N %Diff	9.60 0.50 5 1.9	[a] 15.90 1.55 5 1.0	[a] 103.76 15.93 5 -36.9	[a] 50.16 0.74 5 -3.5	[a] 1.024 0.023 5 -2.8	[a] 20.408 0.294 5 0.6
BNT162b2							

[a] - Anova &amp; Dunnett

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

		Day: 4 Relative to Start Date					
Sex: Male		Haematological Parameters					
		MPV (fL)	PCT (%)	PDW (%)	RDW (%)	MPC (g/dL)	
Group 1: Control	Mean SD N	[a] 7.91 0.79 10	[a] 0.790 0.108 10	[a] 71.43 10.12 10	[a] 12.48 0.51 10	[a] 20.69 1.31 10	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	8.25 0.63 10 4.3	0.840 0.092 10 6.3	89.37** 4.39 10 25.1	13.25** 0.32 10 6.2	22.78** 1.18 10 10.1	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	7.43 0.76 10 -6.1	0.824 0.089 10 4.3	83.89** 6.30 10 17.4	12.06 0.48 10 -3.4	23.49** 0.91 10 13.5	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	8.15 0.61 10 3.0	0.814 0.099 10 3.0	75.39 7.01 10 5.5	12.88 0.49 10 3.2	21.21 1.15 10 2.5	

[a] - Anova & Dunnett: \*\* = p ≤ 0.01  
 [a] - Anova & Dunnett(Rank): \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Day: 4 Relative to Start Date		Haematological Parameters						Rat
Sex: Male		MPV (fL)	PCT (%)	PDW (%)	RDW (%)	MPC (g/dL)		
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	7.78 0.53 10 -1.6	0.818 0.115 10 3.5	[a] 81.43* 8.09 10 14.0	[a] 12.14 0.36 10 -2.7	[a] 23.38** 1.41 10 13.0		
Group 6: 30 µg/ animal BNT162c1	Mean SD N %Diff	7.98 0.71 10 0.9	0.876 0.126 10 10.9	[a] 88.08** 8.19 10 23.3	[a] 12.21 0.33 10 -2.2	[a] 23.58** 0.39 10 14.0		
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	8.48 0.47 10 7.2	0.803 0.119 10 1.6	[a] 89.07** 8.48 10 24.7	[a] 12.03 0.32 10 -3.6	[a] 23.96** 1.49 10 15.8		

[a] - Anova &amp; Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Day: 10 Relative to Start Date		Haematological Parameters					Rat
Sex: Male		MPV (fL)	PCT (%)	PDW (%)	RDW (%)	MPC (g/dL)	
Group 6: 30 µg/ animal	Mean SD N	[a] 9.55n 1.01 10	[a] 0.673n 0.110 10	[a] 94.97n 6.21 10	[a] 13.32n 0.42 10	[a] 22.61n 1.39 10	
BNT162c1		-	-	-	-	-	

[a] - Anova &amp; Dunnett n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

		Day: 17 Relative to Start Date					
Sex: Male		Haematological Parameters			Rat		
		MPV (fL)	PCT (%)	PDW (%)	RDW (%)	MPC (g/dL)	
Group 1: Control	Mean SD N	[a] 10.91 0.88 10	[a] 1.180 0.190 10	[a] 56.59 2.67 10	[a] 15.17 0.74 10	[a] 18.09 0.99 10	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	11.79 0.90 10 8.1	0.941 ** 0.157 10 -20.3	70.88 ** 6.33 10 25.3	16.27 ** 0.54 10 7.3	19.73 ** 0.85 10 9.1	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	8.68 ** 0.81 10 -20.4	0.690 ** 0.096 10 -41.5	84.87 ** 6.09 10 50.0	13.32 ** 0.62 10 -12.2	21.21 ** 1.16 10 17.2	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	11.55 0.83 10 5.9	1.072 0.188 10 -9.2	61.40 * 2.91 10 8.5	16.52 ** 0.76 10 8.9	18.64 0.82 10 3.0	

[a] - Anova &amp; Dunnett: \*\* = p ≤ 0.01

[a] - Anova &amp; Dunnett(Log): \* = p ≤ 0.05, \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1      Haematological Parameters - Summary

		Day: 17 Relative to Start Date					
Sex: Male		Haematological Parameters					
		MPV (fL)	PCT (%)	PDW (%)	RDW (%)	MPC (g/dL)	
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	9.04** 0.69 10 -17.1	0.733** 0.094 10 -37.9	[a] 83.22** 5.76 10 47.1	[a] 13.32** 0.66 10 -12.2	[a] 21.61** 0.90 10 19.5	
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	9.36 ** 0.66 10 -14.2	0.723 ** 0.125 10 -38.7	[a] 82.52** 3.31 10 45.8	[a] 13.35** 0.59 10 -12.0	[a] 21.48 ** 0.99 10 18.7	

[a] - Anova &amp; Dunnett: \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Day: 31 Relative to Start Date		Haematological Parameters				
Sex: Male		MPV (fL)	PCT (%)	PDW (%)	RDW (%)	MPC (g/dL)
Group 6: 30 µg/ animal BNT162c1	Mean SD N	[a] 7.94 0.48 5	[a] 0.778 0.131 5	[a] 70.16 6.56 5	[a] 13.04 0.44 5	[a] 20.22 1.10 5

[a] - Anova &amp; Dunnett n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

		Day: 38 Relative to Start Date						Rat
Sex: Male		Haematological Parameters			RDW			MPC
		MPV (fL)	PCT (%)	PDW (%)	[a]	(%)	(g/dL)	[a]
Group 1: Control	Mean SD N	[a] 8.86 0.86 5	[a] 0.866 0.106 5	[a] 68.38 2.85 5	[a] 11.50 0.69 5	[a] 18.90 0.85 5		
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	8.14 0.43 5 -8.1	0.902 0.072 5 4.2	67.70 4.18 5 -1.0		13.54** 0.36 5 17.7	19.56 1.14 5 3.5	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	8.00 0.51 5 -9.7	0.830 0.112 5 -4.2	70.42 9.60 5 3.0		13.66** 0.34 5 18.8	20.34 1.02 5 7.6	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	8.44 0.89 5 -4.7	0.786 0.083 5 -9.2	69.08 7.39 5 1.0		13.44** 0.57 5 16.9	19.62 1.09 5 3.8	

[a] - Anova &amp; Dunnett: \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Day: 38 Relative to Start Date		Haematological Parameters					Rat
Sex: Male		MPV (fL)	PCT (%)	PDW (%)	RDW (%)	MPC (g/dL)	
Group 5: 100 µg/ animal	Mean SD N %Diff	8.46 1.00 5 -4.5	0.774 0.054 5 -10.6	73.32 8.40 5 7.2	13.34** 0.42 5 16.0	19.50 1.54 5 3.2	[a]
BNT162b1							
Group 7: 100 µg/ animal	Mean SD N %Diff	8.16 0.25 5 -7.9	0.842 0.143 5 -2.8	69.26 7.23 5 1.3	13.26** 0.53 5 15.3	19.80 1.15 5 4.8	[a]
BNT162b2							

[a] - Anova &amp; Dunnett: \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

		Day: 4 Relative to Start Date						
Sex: Female		Haematological Parameters						
		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
Group 1: Control	Mean SD N	[a] 8.87 0.46 10	[a] 7.654 0.344 10	[a] 8.417 3.256 10	[a] 2.56 0.47 10	[a] 195.69 33.93 10	[a] 975.1 150.4 10	[a] 41.87 2.45 10
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	8.57 0.36 10 -3.4	7.295 0.334 10 -4.7	12.893** 1.660 10 53.2	0.97** 0.36 10 -62.1	69.75** 23.24 10 -64.4	753.6* 133.3 10 -22.7	40.41 1.69 10 -3.5
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	9.12 0.36 10 2.8	7.807 0.409 10 2.0	8.719 2.464 10 3.6	1.23** 0.35 10 -52.0	94.88** 23.30 10 -51.5	1068.3 242.8 10 9.6	42.23 1.90 10 0.9
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	8.70 0.33 10 -1.9	7.506 0.474 10 -1.9	8.311 1.844 10 -1.3	1.92** 0.57 10 -25.0	143.85* 44.93 10 -26.5	985.7 128.7 10 1.1	41.39 1.79 10 -1.1

[a] - Anova & Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01  
 [a] - Anova & Dunnett(Log): \* = p ≤ 0.05; \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

		Day: 4 Relative to Start Date						
Sex: Female		Haematological Parameters						
		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	8.62 0.32 10 -2.8	7.589 0.262 10 -0.8	9.049 1.822 10 7.5	1.47** 0.28 10 -42.6	112.33** 20.92 10 -42.6	1048.6 125.9 10 7.5	40.49 1.54 10 -3.3
Group 6: 30 µg/ animal BNT162c1	Mean SD N %Diff	8.78 0.36 10 -1.0	7.576 0.339 10 -1.0	10.029 2.855 10 19.2	1.05** 0.18 10 -59.0	79.63** 12.83 10 -59.3	1000.2 145.2 10 2.6	40.31 1.49 10 -3.7
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	8.74 0.35 10 -1.5	7.578 0.440 10 -1.0	10.395 2.908 10 23.5	1.34** 0.33 10 -47.7	101.31** 28.82 10 -48.2	1016.5 116.2 10 4.2	40.15 1.80 10 -4.1

[a] - Anova &amp; Dunnett: \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Day: 10 Relative to Start Date		Haematological Parameters						
Sex: Female		HGB (mmol/L)	RBC (x10E6/ $\mu$ L)	WBC (x10E3/ $\mu$ L)	Reti (%)	Reti (x10E3/ $\mu$ L)	PLT (x10E3/ $\mu$ L)	HCT (%)
Group 6: 30 $\mu$ g/ animal BNT162c1	Mean SD N	[a] 8.43 n 0.33 10	[a] 7.419 n 0.508 10	[a] 15.267 n 2.493 10	[a] 2.53 n 0.73 10	[a] 184.44 n 44.08 10	[a] 570.4 n 145.4 10	[a] 38.86 n 1.55 10

[a] - Anova &amp; Dunnett: n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

		Day: 17 Relative to Start Date						
Sex: Female		Haematological Parameters						
		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
Group 1: Control	Mean SD N	9.08 0.36 10	7.892 0.213 10	[a] 7.106 2.414 10	[a] 2.56 0.53 10	[a] 200.95 38.85 10	[a] 1068.1 140.4 10	[a] 43.45 1.83 10
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	8.66 0.34 10 4.6	7.546 0.340 10 -4.4	[a] 14.50** 4.114 10 104.1	[a] 2.64 0.69 10 3.1	[a] 199.77 50.73 10 -0.6	[a] 622.9** 155.2 10 -41.7	[a] 41.74 1.92 10 -3.9
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	8.38 ** 0.32 10 -7.7	7.465 * 0.298 10 -5.4	[a] 11.016 * 2.490 10 55.0	[a] 3.04 0.92 10 18.8	[a] 225.54 66.10 10 12.2	[a] 698.1 ** 166.4 10 -34.6	[a] 39.24 ** 1.56 10 -9.7
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	8.13 ** 0.34 10 -10.5	7.248 ** 0.296 10 -8.2	[a] 12.744 ** 3.637 10 79.3	[a] 2.89 0.60 10 12.9	[a] 209.89 38.31 10 4.4	[a] 876.8 * 117.1 10 -17.9	[a] 39.50 ** 1.44 10 -9.1

[a] - Anova &amp; Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

		Day: 17 Relative to Start Date						
Sex: Female		Haematological Parameters						
		HGB (mmol/L)	RBC (x10E6/ $\mu$ L)	WBC (x10E3/ $\mu$ L)	Reti (%)	Reti (x10E3/ $\mu$ L)	PLT (x10E3/ $\mu$ L)	HCT (%)
Group 5: 100 $\mu$ g/ animal BNT162b1	Mean SD N %Diff	7.85** 0.50 10 -13.5	7.145** 0.355 10 -9.5	14.405** 2.642 10 102.7	3.18 0.70 10 24.2	226.66 43.09 10 12.8	702.2** 116.6 10 -34.3	37.06** 2.38 10 -14.7
Group 7: 100 $\mu$ g/ animal BNT162b2	Mean SD N %Diff	7.93** 0.35 10 -12.7	7.115** 0.288 10 -9.8	14.997** 3.215 10 111.0	2.78 0.58 10 8.6	197.95 36.41 10 -1.5	704.4** 148.3 10 -34.1	37.59** 1.81 10 -13.5

[a] - Anova &amp; Dunnett: \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Day: 31 Relative to Start Date		Haematological Parameters						
Sex: Female		HGB (mmol/L)	RBC (x10E6/ $\mu$ L)	WBC (x10E3/ $\mu$ L)	Reti (%)	Reti (x10E3/ $\mu$ L)	PLT (x10E3/ $\mu$ L)	HCT (%)
Group 6: 30 $\mu$ g/ animal BNT162c1	Mean SD N	[a] 8.84n 0.18 5	[a] 8.142n 0.352 5	[a] 5.514n 1.521 5	[a] 3.06n 0.60 5	[a] 248.30n 42.44 5	[a] 1025.8n 137.3 5	[a] 42.12n 1.12 5

[a] - Anova &amp; Dunnett n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

		Day: 38 Relative to Start Date						
Sex: Female		Haematological Parameters						
		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
Group 1: Control	Mean SD N	[a] 8.80 0.31 5	[a] 8.176 0.238 5	[a] 6.084 1.403 5	[a] 3.20 0.76 5	[a] 259.88 55.32 5	[a] 949.8 265.6 5	[a] 42.50 1.58 5
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	8.66 0.40 5 -1.6	7.910 0.407 5 -3.3	7.622 2.997 5 25.3	3.00 1.10 5 -6.3	236.40 74.87 5 -9.0	940.4 136.3 5 -10	42.34 1.89 5 -0.4
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	9.04 0.24 5 2.7	8.312 0.312 5 1.7	7.012 2.164 5 15.3	2.28 0.43 5 -28.8	189.54 40.57 5 -27.1	992.8 194.6 5 4.5	43.64 0.94 5 2.7
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	9.00 0.38 5 2.3	8.558 0.595 5 4.7	7.282 2.998 5 19.7	2.58 0.35 5 -19.4	219.42 18.25 5 -15.6	825.0 70.3 5 -13.1	43.70 2.15 5 2.8

[a] - Anova &amp; Dunnett

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1      Haematological Parameters - Summary

		Day: 38 Relative to Start Date						
Sex: Female		Haematological Parameters						
		HGB (mmol/L)	RBC (x10E6/ $\mu$ L)	WBC (x10E3/ $\mu$ L)	Reti (%)	Reti (x10E3/ $\mu$ L)	PLT (x10E3/ $\mu$ L)	HCT (%)
Group 5: 100 $\mu$ g/ animal	Mean SD N %Diff	8.70 0.34 5 -1.1	8.122 0.443 5 -0.7	6.830 2.050 5 12.3	2.32 0.86 5 -27.5	187.36 61.82 5 -27.9	891.4 140.1 5 -6.1	42.32 1.60 5 -0.4
BNT162b1								
Group 7: 100 $\mu$ g/ animal	Mean SD N %Diff	8.96 0.18 5 1.8	8.446 0.428 5 3.3	7.120 2.398 5 17.0	2.26 0.50 5 -29.4	190.28 40.16 5 -26.8	998.4 134.0 5 5.1	43.56 0.98 5 2.5
BNT162b2								

[a] - Anova & Dunnett

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1      Haematological Parameters - Summary

Sex: Female		Haematological Parameters					
		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
Group 1: Control	Mean SD N	14.63 6.24 10	80.11 7.20 10	2.35 0.76 10	1.68 0.90 10	0.95 0.28 10	0.28 0.10 10
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	29.64 3.57 10 102.6	60.59 3.27 10 -24.4	3.35 0.87 10 42.6	1.38 0.45 10 -17.9	4.56 1.85 10 380.0	0.45 0.07 10 60.7
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	12.96 3.62 10 -11.4	80.53 4.40 10 0.5	2.71 0.66 10 15.3	1.25 0.41 10 -25.6	2.16 0.60 10 127.4	0.37 0.09 10 32.1
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	13.51 3.00 10 -7.7	80.74 2.85 10 0.8	2.17 0.39 10 -7.7	1.94 0.90 10 15.5	1.28 0.23 10 34.7	0.35 0.10 10 25.0

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

		Day: 4 Relative to Start Date					
Sex: Female		Haematological Parameters					
		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	18.07 7.76 10 23.5	74.98 9.53 10 -6.4	2.22 0.59 10 -5.5	1.16 0.43 10 -31.0	3.18 2.32 10 234.7	0.36 0.10 10 28.6
Group 6: 30 µg/ animal BNT162c1	Mean SD N %Diff	22.94 3.18 10 56.8	68.08 3.41 10 -15.0	3.68 0.86 10 56.6	1.45 0.66 10 -13.7	3.39 1.06 10 256.8	0.44 0.12 10 57.1
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	23.67 6.09 10 61.8	68.70 7.33 10 -14.2	2.20 0.73 10 -6.4	1.58 0.63 10 -6.0	3.47 1.58 10 265.3	0.39 0.09 10 39.3

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Day: 10 Relative to Start Date		Haematological Parameters					
Sex: Female		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
Group 6: 30 µg/ animal BNT162c1	Mean SD N	43.23 6.69 10	47.54 6.97 10	2.53 0.69 10	0.59 0.22 10	5.74 1.20 10	0.37 0.11 10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1      Haematological Parameters - Summary

Sex: Female		Haematological Parameters						Rat
		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)	
Group 1: Control	Mean SD N	14.55 5.97 10	80.19 6.30 10	2.71 0.59 10	1.28 0.40 10	1.00 0.35 10	0.23 0.08 10	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	44.23 7.15 10 204.0	46.59 7.68 10 -41.9	2.40 0.82 10 -11.4	0.71 0.18 10 -44.5	5.65 2.28 10 465.0	0.42 0.11 10 82.6	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	38.09 5.11 10 161.8	51.89 5.85 10 -35.3	4.03 0.78 10 48.7	1.46 1.09 10 14.1	4.18 2.42 10 318.0	0.37 0.11 10 60.9	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	42.95 9.45 10 195.2	47.52 9.74 10 -40.7	3.49 0.81 10 28.8	2.50 0.69 10 95.3	3.24 1.07 10 224.0	0.32 0.06 10 39.1	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Sex: Female		Haematological Parameters					
		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	48.05 6.00 10 230.2	41.13 6.95 10 -48.7	2.82 0.63 10 4.1	3.52 0.93 10 175.0	4.20 1.82 10 320.0	0.30 0.08 10 30.4
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	48.70 8.05 10 234.7	41.65 8.29 10 -48.1	2.01 0.59 10 -25.8	3.80 1.03 10 196.9	3.59 1.17 10 259.0	0.26 0.05 10 13.0

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Day: 31 Relative to Start Date		Haematological Parameters					Rat
Sex: Female		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
Group 6: 30 µg/ animal BNT162c1	Mean SD N	14.32 3.47 5	79.76 4.06 5	2.78 0.72 5	2.00 0.78 5	0.94 0.29 5	0.24 0.09 5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1      Haematological Parameters - Summary

Sex: Female		Haematological Parameters					
		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
Group 1: Control	Mean SD N	15.58 5.05 5	77.06 6.10 5	3.12 0.66 5	3.06 2.05 5	0.98 0.30 5	0.24 0.05 5
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	15.88 2.77 5 1.9	78.66 2.35 5 2.1	2.52 0.64 5 -19.2	1.58 0.44 5 -48.4	1.12 0.34 5 14.3	0.26 0.09 5 8.3
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	14.96 3.15 5 4.0	78.66 4.86 5 2.1	3.12 0.70 5 0.0	2.06 1.78 5 -32.7	1.00 0.28 5 2.0	0.22 0.11 5 -8.3
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	18.62 4.94 5 19.5	74.60 5.81 5 -3.2	3.04 0.55 5 -2.6	2.42 1.53 5 -20.9	1.10 0.37 5 12.2	0.22 0.08 5 -8.3

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Sex: Female		Haematological Parameters					
	Day: 38 Relative to Start Date	Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	18.20 5.42 5 16.8	75.92 5.59 5 -1.5	3.22 0.64 5 3.2	1.50 0.20 5 -51.0	0.96 0.17 5 -2.0	0.18 0.08 5 -25.0
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	17.80 3.87 5 14.2	76.60 4.05 5 -0.6	2.40 0.34 5 -23.1	2.04 0.69 5 -33.3	0.92 0.18 5 -6.1	0.26 0.09 5 8.3

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1      Haematological Parameters - Summary

Sex: Female		Haematological Parameters						Rat
		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)	Baso (x10E3/µL)	
Group 1: Control	Mean SD N	[a] 1.112 0.328 10	[a] 6.872 3.137 10	[a] 0.190 0.067 10	[a] 0.134 0.058 10	[a] 0.087 0.059 10	[a] 0.026 0.018 10	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	3.837** 0.761 10 245.1	7.798 0.963 10 13.5	0.436** 0.150 10 129.5	0.175 0.050 10 30.6	0.587** 0.239 10 574.7	0.057** 0.013 10 119.2	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	1.109 0.388 10 -0.3	7.055 2.172 10 2.7	0.228 0.064 10 20.0	0.104 0.035 10 -22.4	0.186** 0.072 10 113.8	0.036 0.018 10 38.5	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	1.125 0.346 10 1.2	6.709 1.515 10 -2.4	0.183 0.059 10 -3.7	0.158 0.065 10 17.9	0.108 0.033 10 24.1	0.030 0.014 10 15.4	

[a] - Anova & Dunnett(Log): \*\* = p ≤ 0.01  
[a] - Anova & Dunnett(Rank)

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

		Day: 4 Relative to Start Date					
Sex: Female		Haematological Parameters					
		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)	Baso (x10E3/µL)
Group 5: 100 µg/ animal	Mean SD N %Diff	1.734 1.075 10 55.9	[a] 6.663 0.964 10 -3.0	[a] 0.204 0.070 10 7.4	[a] 0.107 0.047 10 -20.1	[a] 0.305** 0.270 10 250.6	[a] 0.033 0.012 10 26.9
Group 6: 30 µg/ animal	Mean SD N %Diff	2.278 ** 0.619 10 104.9	6.865 2.142 10 -0.1	0.368 ** 0.128 10 93.7	0.137 0.040 10 2.2	0.334 ** 0.130 10 283.9	0.047 ** 0.017 10 80.8
Group 7: 100 µg/ animal	Mean SD N %Diff	2.523 ** 1.276 10 126.9	7.082 1.693 10 3.1	0.223 0.077 10 17.4	0.162 0.074 10 20.9	0.365 ** 0.205 10 319.5	0.043 * 0.016 10 65.4

[a] - Anova &amp; Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Day: 10 Relative to Start Date		Haematological Parameters					
Sex: Female		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)	Baso (x10E3/µL)
Group 6: 30 µg/ animal	Mean SD N	[a] 6.552n 1.209 10	[a] 7.308n 1.937 10	[a] 0.386n 0.118 10	[a] 0.092n 0.038 10	[a] 0.870n 0.215 10	[a] 0.055n 0.021 10
BNT162c1	-	-	-	-	-	-	-

[a] - Anova &amp; Dunnett: n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Sex: Female		Haematological Parameters					
		Neut (x10E3/ $\mu$ L)	Lym (x10E3/ $\mu$ L)	Mono (x10E3/ $\mu$ L)	Eos (x10E3/ $\mu$ L)	LUC (x10E3/ $\mu$ L)	Baso (x10E3/ $\mu$ L)
Group 1: Control	Mean SD N	[a] 0.945 0.228 10	[a] 5.784 2.222 10	[a] 0.189 0.063 10	[a] 0.094 0.048 10	[a] 0.077 0.044 10	[a] 0.019 0.009 10
Group 2: 30 $\mu$ g/ animal BNT162a1	Mean SD N %Diff	6.515 ** 2.556 10 589.4	6.586 1.428 10 13.9	0.373 * 0.239 10 97.4	0.099 0.032 10 5.3	0.864 ** 0.511 10 1022.1	0.060 ** 0.028 10 215.8
Group 3: 10 $\mu$ g/ animal BNT162a1	Mean SD N %Diff	4.139 ** 0.842 10 338.0	5.771 1.657 10 -0.2	0.438 ** 0.119 10 131.7	0.152 * 0.088 10 61.7	0.478 ** 0.330 10 520.8	0.039 * 0.014 10 105.3
Group 4: 30 $\mu$ g/ animal BNT162b1	Mean SD N %Diff	5.539 ** 2.191 10 486.1	5.982 1.845 10 3.4	0.443 ** 0.183 10 134.4	0.308 ** 0.088 10 227.7	0.429 ** 0.214 10 457.1	0.042 ** 0.020 10 121.1

[a] - Anova & Dunnett(Log): \* =  $p \leq 0.05$ ; \*\* =  $p \leq 0.01$ 

[a1] - Anova &amp; Dunnett

[a2] - Anova & Dunnett(Rank): \* =  $p \leq 0.05$ ; \*\* =  $p \leq 0.01$

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

		Day: 17 Relative to Start Date					
Sex: Female		Haematological Parameters					
		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)	Baso (x10E3/µL)
Group 5: 100 µg/ animal	Mean SD N %Diff	6.958 ** 1.735 10 636.3	5.865 1.083 10 1.4	0.404 ** 0.129 10 113.8	0.508 ** 0.152 10 440.4	0.627 ** 0.354 10 714.3	0.043 ** 0.018 10 126.3
Group 7: 100 µg/ animal	Mean SD N %Diff	7.369 ** 2.215 10 679.8	6.174 1.707 10 6.7	0.305 0.135 10 61.4	0.573 ** 0.182 10 509.6	0.535 ** 0.200 10 594.8	0.039 * 0.014 10 105.3
BNT162b1							
BNT162b2							

[a] - Anova &amp; Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Day: 31 Relative to Start Date		Haematological Parameters					
Sex: Female		Neut (x10E3/ $\mu$ L)	Lym (x10E3/ $\mu$ L)	Mono (x10E3/ $\mu$ L)	Eos (x10E3/ $\mu$ L)	LUC (x10E3/ $\mu$ L)	Baso (x10E3/ $\mu$ L)
Group 6: 30 $\mu$ g/ animal	Mean SD N	[a] 0.802n 0.344 5	[a] 4.384n 1.134 5	[a] 0.160n 0.090 5	[a] 0.104n 0.035 5	[a] 0.050n 0.016 5	[a] 0.014n 0.005 5

[a] - Anova &amp; Dunnett: n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1      Haematological Parameters - Summary

Sex: Female		Haematological Parameters					
		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)	Baso (x10E3/µL)
Group 1: Control	Mean SD N	[a] 0.938 0.301 5	[a] 4.712 1.330 5	[a] 0.186 0.052 5	[a] 0.170 0.103 5	[a] 0.060 0.029 5	[a] 0.014 0.005 5
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	1.176 0.465 5 25.4	6.014 2.369 5 27.6	0.200 0.113 5 7.5	0.120 0.052 5 -29.4	0.088 0.037 5 46.7	0.022 0.013 5 57.1
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	1.008 0.223 5 7.5	5.566 1.919 5 18.1	0.222 0.100 5 19.4	0.126 0.076 5 -25.9	0.072 0.037 5 20.0	0.014 0.011 5 0.0
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	1.268 0.306 5 35.2	5.536 2.583 5 17.5	0.220 0.086 5 18.3	0.158 0.073 5 -7.1	0.080 0.051 5 33.3	0.016 0.015 5 14.3

[a] - Anova & Dunnett

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Day: 38 Relative to Start Date		Haematological Parameters					
Sex: Female		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)	Baso (x10E3/µL)
Group 5: 100 µg/ animal	Mean SD N %Diff	1.160 0.115 5 23.7	[a] 5.274 2.004 5	[a] 0.212 0.047 5	[a] 0.106 0.039 5	[a] 0.064 0.023 5	[a] 0.012 0.008 5
BNT162b1			11.9	14.0	-37.6	6.7	-14.3
Group 7: 100 µg/ animal	Mean SD N %Diff	1.224 0.357 5 30.5	5.502 2.067 5 16.8	0.168 0.061 5 -9.7	0.140 0.050 5 -17.6	0.064 0.024 5 6.7	0.018 0.008 5 28.6
BNT162b2							

[a] - Anova &amp; Dunnett

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1      Haematological Parameters - Summary

Day: 4 Relative to Start Date		Haematological Parameters			
Sex: Female		MCV (fL)	MCH (fmol)	MCHC (mmol/L)	Rat
Group 1: Control	Mean SD N	[a] 54.73 1.93 10	[a] 1.159 0.035 10	[a] 21.189 0.234 10	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	55.43 1.03 10 1.3	1.176 0.015 10 1.5	21.240 0.223 10 0.2	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	54.13 1.36 10 -1.1	1.170 0.028 10 0.9	21.606** 0.281 10 2.0	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	55.21 1.77 10 0.9	1.162 0.040 10 0.3	21.069 0.264 10 -0.6	

[a] - Anova & Dunnett  
 [a1] - Anova & Dunnett(Rank): \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

		Day: 4 Relative to Start Date				Rat
Sex: Female		Haematological Parameters				
		MCV (fL)	MCH (fmol)	MCHC (mmol/L)	[a]	
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	53.35 1.61 10 -2.5	1.138 0.039 10 -1.8	21.319 0.284 10 0.6		
Group 6: 30 µg/ animal BNT162c1	Mean SD N %Diff	53.25 1.78 10 -2.7	1.158 0.040 10 -0.1	21.738** 0.286 10 2.6		
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	53.02 1.91 10 -3.1	1.157 0.065 10 -0.2	21.833* 1.040 10 3.0		

[a] - Anova &amp; Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-1      Haematological Parameters - Summary

		Day: 10 Relative to Start Date					
		Rat					
Sex: Female		Haematological Parameters					
		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)
Group 6: 30 µg/ animal	Mean SD N	[a] 9.44 n 0.36 10	[a] 18.68 n 0.72 10	[a] 267.30 n 23.49 10	[a] 52.48 n 1.91 10	[a] 1.140 n 0.039 10	[a] 21.700 n 0.193 10

[a] - Anova & Dunnett: n - Inappropriate for statistics

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RNA Platforms encoding for Viral Proteins

TABLE 6-1      Haematological Parameters - Summary

		Day: 17 Relative to Start Date						Rat
Sex: Female		Haematological Parameters						
		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)	
Group 1: Control	Mean SD N	[a] 9.03 0.40 10	[a] 15.08 1.24 10	[a] 114.44 58.30 10	[a] 55.04 1.43 10	[a] 1.149 0.025 10	[a] 20.880 0.237 10	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	9.13 0.47 10 1.1	17.59** 1.11 10 16.6	314.00** 24.64 10 174.4	55.30 0.94 10 0.5	1.149 0.018 10 0.0	20.777 0.224 10 -0.5	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	8.70 1.32 9 -3.7	18.59** 1.42 9 23.3	279.78* 63.93 9 144.5	52.58** 1.84 10 -4.5	1.121 0.037 10 -2.4	21.328** 0.362 10 2.1	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	9.34 0.39 9 3.5	14.74 0.70 9 -2.2	281.78** 26.36 9 146.2	54.53 2.02 10 -0.9	1.120 0.043 10 -2.5	20.554* 0.230 10 -1.6	

[a] - Anova & Dunnett(Rank). \* =  $p \leq 0.05$ ; \*\* =  $p \leq 0.01$   
 [a] - Anova & Dunnett. \* =  $p \leq 0.05$ ; \*\* =  $p \leq 0.01$

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RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Sex: Female		Haematological Parameters						Rat
		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)	
Group 5: 100 µg/ animal	Mean SD N	9.24 0.53 10	[a] 17.15** 1.38 10	[a] 299.10** 32.24 10	[a] 51.86** 1.49 10	[a] 1.100** 0.029 10	[a] 21.221* 0.273 10	
BNT162b1	%Diff	2.3	13.7	161.4	-5.8	4.3	1.6	
Group 7: 100 µg/ animal	Mean SD N	9.39 0.44 8	17.81** 1.01 8	297.75** 15.50 8	52.84* 1.27 10	1.116 0.023 10	21.098 0.331 10	
BNT162b2	%Diff	4.0	18.1	160.2	-4.0	-2.9	1.0	

[a] - Anova &amp; Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01

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RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Day: 31 Relative to Start Date		Haematological Parameters						Rat
Sex: Female		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)	
Group 6: 30 µg/ animal BNT162c1	Mean SD N	[a] 9.28n 0.60 5	[a] 15.32n 1.09 5	[a] 104.00n 29.23 5	[a] 51.78n 1.18 5	[a] 1.086n 0.036 5	[a] 20.992n 0.367 5	-

[a] - Anova &amp; Dunnett n - Inappropriate for statistics

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RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Sex: Female		Haematological Parameters						Rat
		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fl)	MCH (fmol)	MCHC (mmol/L)	
Group 1: Control	Mean SD N	[a] 9.34 0.63 5	[a1] 17.05 0.64 4	[a2] 88.25 7.69 4	[a1] 52.00 1.97 5	[a1] 1.078 0.030 5	[a2] 20.718 0.160 5	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	9.36 0.29 5 0.2	15.58 0.80 4 -8.7	86.78 4.08 4 -17	53.58 1.72 5 3.0	1.094 0.025 5 1.5	20.402 0.231 5 -1.5	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	9.26 0.27 5 -0.9	17.52 1.43 5 2.8	116.98 70.19 4 32.5	52.50 1.34 5 1.0	1.086 0.022 5 0.7	20.706 0.205 5 -0.1	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	9.16 0.17 5 -1.9	16.86 1.53 5 -1.1	96.84 25.92 5 9.7	51.16 1.55 5 -1.6	1.052 0.044 5 -2.4	20.634 0.238 5 -0.4	

[a] - Anova &amp; Dunnett(Log)

[a1] - Anova &amp; Dunnett

[a2] - Anova &amp; Dunnett(Rank)

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TABLE 6-1 Haematological Parameters - Summary

Day: 38 Relative to Start Date		Haematological Parameters					
Sex: Female		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)
Group 5: 100 µg/ animal	Mean SD N %Diff	8.86 0.24 5 -5.1	17.98 1.51 5 5.5	[a] 86.80 8.98 5 -1.6	[a] 52.16 1.84 5 0.3	[a] 1.068 0.036 5 -0.9	[a] 20.516 0.249 5 -1.0
BNT162b1							
Group 7: 100 µg/ animal	Mean SD N %Diff	8.96 0.34 5 -4.1	16.30 0.65 5 -4.4	[a] 84.68 11.39 5 -4.0	[a] 51.68 2.05 5 -0.6	[a] 1.064 0.050 5 -1.3	[a] 20.608 0.235 5 -0.5
BNT162b2							

[a] - Anova &amp; Dunnett

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TABLE 6-1 Haematological Parameters - Summary

Day: 4 Relative to Start Date		Haematological Parameters						Rat
Sex: Female		MPV (fL)	PCT (%)	PDW (%)	RDW (%)	MPC (g/dL)		
Group 1: Control	Mean SD N	[a] 7.78 0.58 10	[a] 0.757 0.105 10	[a] 78.02 8.25 10	[a] 11.15 0.58 10	[a] 20.82 1.26 10		
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	8.26 0.48 10 6.2	0.619* 0.097 10 -18.2	87.37 7.22 10 12.0	11.24 0.53 10 0.8	[a] 21.90 0.92 10 5.2		
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	6.92** 0.34 10 -11.1	0.736 0.150 10 -2.8	84.49 10.23 10 8.3	10.87 0.50 10 -2.5	[a] 23.43** 1.16 10 12.5		
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	7.85 0.63 10 0.9	0.770 0.099 10 1.7	80.95 6.60 10 3.8	11.85 0.64 10 6.3	[a] 21.46 0.88 10 3.1		

[a] - Anova & Dunnett: \*\* = p ≤ 0.01  
 [a] - Anova & Dunnett(Log): \* = p ≤ 0.05

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TABLE 6-1 Haematological Parameters - Summary

Day: 4 Relative to Start Date		Haematological Parameters						Rat
Sex: Female		MPV (fL)	PCT (%)	PDW (%)	RDW (%)	MPC (g/dL)		
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	7.15* 0.36 10 -8.1	0.748 0.088 10 -1.2	84.37 8.93 10 8.1	11.61 0.82 10 4.1	23.80** 0.78 10 14.3		
Group 6: 30 µg/ animal BNT162c1	Mean SD N %Diff	7.19* 0.41 10 -7.6	0.716 0.089 10 -5.4	86.49 8.46 10 10.9	11.37 0.50 10 2.0	23.28** 0.97 10 11.8		
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	7.25 0.47 10 -6.8	0.733 0.095 10 -3.2	82.59 9.77 10 5.9	11.26 0.81 10 1.0	23.91** 1.04 10 14.8		

[a] - Anova &amp; Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01

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TABLE 6-1 Haematological Parameters - Summary

Day: 10 Relative to Start Date		Haematological Parameters				
Sex: Female		MPV (fL)	PCT (%)	PDW (%)	RDW (%)	MPC (g/dL)
Group 6: 30 µg/ animal BNT162c1	Mean SD N	[a] 8.64 n 1.01 10	[a] 0.484 n 0.107 10	[a] 99.52 n 4.66 10	[a] 12.17 n 0.80 10	[a] 23.57 n 0.79 10

[a] - Anova &amp; Dunnett: n - Inappropriate for statistics

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TABLE 6-1 Haematological Parameters - Summary

Day: 17 Relative to Start Date		Rat					
Sex: Female		Haematological Parameters					
		MPV (fL)	PCT (%)	PDW (%)	RDW (%)	MPC (g/dL)	
Group 1: Control	Mean SD N	[a] 10.78 0.48 10	[a] 1.156 0.177 10	[a2] 56.63 1.84 10	[a1] 14.25 0.60 10	[a1] 17.77 1.01 10	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	11.93 1.22 10 10.7	0.733 ** 0.153 10 -36.6	68.54 ** 5.88 10 21.0	15.83 ** 0.73 10 11.1	19.72 ** 0.85 10 11.0	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	8.93 ** 0.97 10 -17.2	0.619 ** 0.135 10 -46.5	82.72 ** 6.86 10 46.1	13.01 ** 0.66 10 -8.7	20.34 ** 0.86 10 14.5	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	10.55 0.56 10 -2.1	0.924 ** 0.134 10 -20.1	61.27 4.66 10 8.2	15.12 * 0.62 10 6.1	19.33 ** 1.00 10 8.8	

[a] - Anova & Dunnett(Rank). \*\* = p ≤ 0.01  
[a1] - Anova & Dunnett. \* = p ≤ 0.05; \*\* = p ≤ 0.01  
[a2] - Anova & Dunnett(Log); \*\* = p ≤ 0.01

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TABLE 6-1 Haematological Parameters - Summary

Day: 17 Relative to Start Date		Haematological Parameters					
Sex: Female		MPV (fL)	PCT (%)	PDW (%)	RDW (%)	MPC (g/dL)	
Group 5: 100 µg/ animal	Mean SD N %Diff	[a] 9.34** 0.78 10 -13.4	[a] 0.654** 0.100 10 -43.4	[a] 84.26** 7.72 10 48.8	[a] 13.30* 0.80 10 -6.7	[a] 21.36** 0.96 10 20.2	
BNT162b1							
Group 7: 100 µg/ animal	Mean SD N %Diff	[a] 9.53 ** 1.16 10 -11.6	[a] 0.657** 0.103 10 -43.2	[a] 80.65** 6.96 10 42.4	[a] 13.37* 0.78 10 -6.2	[a] 21.02** 0.96 10 18.3	
BNT162b2							

[a] - Anova &amp; Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01

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TABLE 6-1 Haematological Parameters - Summary

Day: 31 Relative to Start Date		Haematological Parameters				
Sex: Female		MPV (fL)	PCT (%)	PDW (%)	RDW (%)	MPC (g/dL)
Group 6: 30 µg/ animal BNT162c1	Mean SD N	[a] 7.98n 0.61 5	[a] 0.816n 0.084 5	[a] 72.20n 10.98 5	[a] 12.96n 0.31 5	[a] 20.76n 0.91 5

[a] - Anova &amp; Dunnett n - Inappropriate for statistics

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TABLE 6-1      Haematological Parameters - Summary

		Day: 38 Relative to Start Date					
Sex: Female		Haematological Parameters					
		MPV (fL)	PCT (%)	PDW (%)	RDW (%)	MPC (g/dL)	Rat
Group 1: Control	Mean SD N	[a] 8.50 0.49 5	[a] 0.802 0.203 5	[a] 66.30 5.37 5	[a] 11.64 0.55 5	[a] 18.32 0.64 5	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	8.44 0.53 5 -0.7	0.788 0.086 5 -1.7	66.86 5.43 5 0.8	13.38** 0.54 5 14.9	18.90 0.93 5 3.2	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	8.08 0.75 5 -4.9	0.798 0.123 5 -0.5	72.26 4.94 5 9.0	13.14** 0.84 5 12.9	20.06* 0.59 5 9.5	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	8.66 0.71 5 1.9	0.714 0.104 5 -11.0	73.16 3.43 5 10.3	13.08** 0.36 5 12.4	19.48 0.55 5 6.3	

[a] - Anova & Dunnett: \* =  $p \leq 0.05$ ; \*\* =  $p \leq 0.01$

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TABLE 6-1 Haematological Parameters - Summary

Day: 38 Relative to Start Date		Haematological Parameters					
Sex: Female		MPV (fL)	PCT (%)	PDW (%)	RDW (%)	MPC (g/dL)	Rat
Group 5: 100 µg/ animal	Mean SD N %Diff	7.74 0.38 5 -8.9	0.692 0.106 5 -13.7	[a] 71.88 11.82 5 8.4	[a] 13.36** 0.23 5 14.8	[a] 20.64** 1.61 5 12.7	
BNT162b1							
Group 7: 100 µg/ animal	Mean SD N %Diff	7.76 0.54 5 -8.7	0.780 0.146 5 -2.7	[a] 72.34 4.02 5 9.1	[a] 13.36** 0.30 5 14.8	[a] 20.96** 0.86 5 14.4	
BNT162b2							

[a] - Anova &amp; Dunnett: \*\* = p ≤ 0.01

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TABLE 6-1 Haematological Parameters - Summary

Page	Day	Group	Sex	Measurement	Comments and Markers	
					Marker	Comment
4	2	Male	Male	Reticulocyte (Relative)	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
4	2	Male	Male	Reticulocyte (Absolute)	**	Anova & Dunnett: ** = p ≤ 0.01
4	3	Male	HGB	*	Anova & Dunnett: * = p ≤ 0.05	
4	3	Male	RBC	**	Anova & Dunnett: ** = p ≤ 0.01	
4	3	Male	Reticulocyte (Relative)	**	Anova & Dunnett(Rank): ** = p ≤ 0.01	
4	3	Male	Reticulocyte (Absolute)	**	Anova & Dunnett: ** = p ≤ 0.01	
4	4	Male	HGB	*	Anova & Dunnett: * = p ≤ 0.01	
4	4	Male	RBC	**	Anova & Dunnett: ** = p ≤ 0.05	
4	4	Male	Reticulocyte (Absolute)	**	Anova & Dunnett: ** = p ≤ 0.01	
4	4	Male	HCT	*	Anova & Dunnett: * = p ≤ 0.05	
4	5	Male	HGB	*	Anova & Dunnett: * = p ≤ 0.05	
4	5	Male	RBC	**	Anova & Dunnett: ** = p ≤ 0.01	
4	5	Male	Reticulocyte (Relative)	**	Anova & Dunnett: ** = p ≤ 0.01	
4	5	Male	Reticulocyte (Absolute)	**	Anova & Dunnett: ** = p ≤ 0.01	
4	6	Male	HGB	*	Anova & Dunnett: * = p ≤ 0.05	
4	6	Male	RBC	**	Anova & Dunnett: ** = p ≤ 0.01	
4	6	Male	WBC	**	Anova & Dunnett: ** = p ≤ 0.01	
4	6	Male	Reticulocyte (Relative)	**	Anova & Dunnett: ** = p ≤ 0.01	
4	6	Male	Reticulocyte (Absolute)	**	Anova & Dunnett: ** = p ≤ 0.01	
4	7	Male	HGB	*	Anova & Dunnett: * = p ≤ 0.01	
4	7	Male	RBC	**	Anova & Dunnett: ** = p ≤ 0.01	
4	7	Male	WBC	**	Anova & Dunnett: ** = p ≤ 0.01	
4	7	Male	Reticulocyte (Relative)	**	Anova & Dunnett: ** = p ≤ 0.01	
4	7	Male	Reticulocyte (Absolute)	**	Anova & Dunnett: ** = p ≤ 0.01	
10	6	Male	HGB	n	Anova & Dunnett: n - Inappropriate for statistics	
10	6	Male	RBC	n	Anova & Dunnett: n - Inappropriate for statistics	
10	6	Male	WBC	n	Anova & Dunnett: n - Inappropriate for statistics	
10	6	Male	Reticulocyte (Relative)	n	Anova & Dunnett: n - Inappropriate for statistics	
10	6	Male	Reticulocyte (Absolute)	n	Anova & Dunnett: n - Inappropriate for statistics	
10	6	Male	PLT	n	Anova & Dunnett: n - Inappropriate for statistics	

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TABLE 6-1      Haematological Parameters - Summary

Page	Day	Group	Sex	Measurement	Comments and Markers	
					Marker	Comment
10	6	Male	Male	HCT	n	Anova & Dunnett: n - Inappropriate for statistics
17	2	Male	Male	HGB	**	Anova & Dunnett: ** = p ≤ 0.01
17	2	Male	Male	WBC	**	Anova & Dunnett: ** = p ≤ 0.01
17	2	Male	Male	Reticulocyte (Relative)	**	Anova & Dunnett(Log): ** = p ≤ 0.01
17	2	Male	Male	Reticulocyte (Absolute)	**	Anova & Dunnett(Log): ** = p ≤ 0.01
17	2	Male	Male	PLT	**	Anova & Dunnett: ** = p ≤ 0.01
17	2	Male	Male	HCT	**	Anova & Dunnett: ** = p ≤ 0.01
17	3	Male	Male	HGB	**	Anova & Dunnett: ** = p ≤ 0.01
17	3	Male	Male	WBC	**	Anova & Dunnett: ** = p ≤ 0.01
17	3	Male	Male	Reticulocyte (Absolute)	*	Anova & Dunnett(Log): * = p ≤ 0.05
17	3	Male	Male	PLT	**	Anova & Dunnett: ** = p ≤ 0.01
17	3	Male	Male	HCT	**	Anova & Dunnett: ** = p ≤ 0.01
17	4	Male	Male	HGB	**	Anova & Dunnett: ** = p ≤ 0.01
17	4	Male	Male	WBC	**	Anova & Dunnett: ** = p ≤ 0.01
17	4	Male	Male	Reticulocyte (Absolute)	*	Anova & Dunnett(Log): * = p ≤ 0.05
17	4	Male	Male	HCT	**	Anova & Dunnett: ** = p ≤ 0.01
17	5	Male	Male	HGB	**	Anova & Dunnett: ** = p ≤ 0.01
17	5	Male	Male	WBC	**	Anova & Dunnett: ** = p ≤ 0.01
17	5	Male	Male	PLT	**	Anova & Dunnett: ** = p ≤ 0.01
17	5	Male	Male	HCT	**	Anova & Dunnett: ** = p ≤ 0.01
17	7	Male	Male	HGB	**	Anova & Dunnett: ** = p ≤ 0.01
17	7	Male	Male	WBC	**	Anova & Dunnett: ** = p ≤ 0.01
17	7	Male	Male	Reticulocyte (Relative)	**	Anova & Dunnett: ** = p ≤ 0.01
17	7	Male	Male	Reticulocyte (Absolute)	**	Anova & Dunnett: ** = p ≤ 0.01
17	7	Male	Male	PLT	**	Anova & Dunnett: ** = p ≤ 0.01
17	7	Male	Male	HCT	**	Anova & Dunnett: ** = p ≤ 0.01
31	6	Male	Male	HGB	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Male	Male	RBC	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Male	Male	WBC	n	Anova & Dunnett: n - Inappropriate for statistics

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TABLE 6-1      Haematological Parameters - Summary

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Measurement</u>	<u>Marker</u>	<u>Comment</u>
31		6	Male	Reticulocyte (Relative)	n	Anova & Dunnett: n - Inappropriate for statistics
31		6	Male	Reticulocyte (Absolute)	n	Anova & Dunnett: n - Inappropriate for statistics
31		6	Male	PLT	n	Anova & Dunnett: n - Inappropriate for statistics
31		6	Male	HCT	n	Anova & Dunnett: n - Inappropriate for statistics

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TABLE 6-1 Haematological Parameters - Summary

Page	Day	Group	Sex	Measurement	Comments and Markers	
					Marker	Comment
4	2	Male	Male	Neutrophils (Absolute)	**	Anova & Dunnett(Log): ** = p ≤ 0.01
4	2	Male	Male	Large Unclassified Cells	**	Anova & Dunnett(Log): ** = p ≤ 0.01
4	3	Male	Male	Large Unclassified Cells	**	Anova & Dunnett(Log): ** = p ≤ 0.01
4	3	Male	Male	Basophils (Absolute)	*	Anova & Dunnett: * = p ≤ 0.05
4	5	Male	Male	Large Unclassified Cells	**	Anova & Dunnett: ** = p ≤ 0.01
4	6	Male	Male	Neutrophils (Absolute)	**	Anova & Dunnett: ** = p ≤ 0.01
4	6	Male	Male	Lymphocytes (Absolute)	*	Anova & Dunnett: * = p ≤ 0.05
4	6	Male	Male	Large Unclassified Cells	**	Anova & Dunnett: ** = p ≤ 0.01
4	6	Male	Male	Basophils (Absolute)	**	Anova & Dunnett: ** = p ≤ 0.01
4	7	Male	Male	Lymphocytes (Absolute)	**	Anova & Dunnett: ** = p ≤ 0.01
4	7	Male	Male	Large Unclassified Cells	**	Anova & Dunnett: ** = p ≤ 0.01
4	7	Male	Male	Basophils (Absolute)	**	Anova & Dunnett: ** = p ≤ 0.01
10	6	Male	Male	Neutrophils (Absolute)	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Male	Male	Lymphocytes (Absolute)	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Male	Male	Monocytes (Absolute)	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Male	Male	Eosinophils (Absolute)	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Male	Male	Large Unclassified Cells	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Male	Male	Basophils (Absolute)	n	Anova & Dunnett: n - Inappropriate for statistics
17	2	Male	Male	Neutrophils (Absolute)	*	Anova & Dunnett(Log): ** = p ≤ 0.01
17	2	Male	Male	Monocytes (Absolute)	*	Anova & Dunnett: * = p ≤ 0.05
17	2	Male	Male	Large Unclassified Cells	**	Anova & Dunnett(Log): ** = p ≤ 0.01
17	2	Male	Male	Basophils (Absolute)	**	Anova & Dunnett(Log): ** = p ≤ 0.01
17	3	Male	Male	Neutrophils (Absolute)	**	Anova & Dunnett(Log): ** = p ≤ 0.01
17	3	Male	Male	Monocytes (Absolute)	**	Anova & Dunnett(Log): ** = p ≤ 0.01
17	3	Male	Male	Large Unclassified Cells	**	Anova & Dunnett(Log): ** = p ≤ 0.01
17	3	Male	Male	Basophils (Absolute)	**	Anova & Dunnett(Log): ** = p ≤ 0.01
17	4	Male	Male	Neutrophils (Absolute)	**	Anova & Dunnett(Log): ** = p ≤ 0.01
17	4	Male	Male	Monocytes (Absolute)	**	Anova & Dunnett: ** = p ≤ 0.01
17	4	Male	Male	Eosinophils (Absolute)	**	Anova & Dunnett(Rank): ** = p ≤ 0.01

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TABLE 6-1 Haematological Parameters - Summary

Page	Day	Group	Sex	Measurement	Comments and Markers	
					Marker	Comment
17	4	Male	Male	Large Unclassified Cells	**	Anova & Dunnett(Log): ** = p ≤ 0.01
17	4	Male	Male	Basophils (Absolute)	**	Anova & Dunnett(Log): ** = p ≤ 0.01
17	5	Male	Male	Neutrophils (Absolute)	**	Anova & Dunnett: ** = p ≤ 0.01
17	5	Male	Male	Monocytes (Absolute)	*	Anova & Dunnett: * = p ≤ 0.05
17	5	Male	Male	Eosinophils (Absolute)	**	Anova & Dunnett: ** = p ≤ 0.01
17	5	Male	Male	Large Unclassified Cells	**	Anova & Dunnett: ** = p ≤ 0.01
17	5	Male	Male	Basophils (Absolute)	**	Anova & Dunnett: ** = p ≤ 0.01
17	7	Male	Male	Neutrophils (Absolute)	**	Anova & Dunnett: ** = p ≤ 0.01
17	7	Male	Male	Eosinophils (Absolute)	**	Anova & Dunnett: ** = p ≤ 0.01
17	7	Male	Male	Large Unclassified Cells	**	Anova & Dunnett: ** = p ≤ 0.01
17	7	Male	Male	Basophils (Absolute)	**	Anova & Dunnett: ** = p ≤ 0.01
31	6	Male	Male	Neutrophils (Absolute)	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Male	Male	Lymphocytes (Absolute)	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Male	Male	Monocytes (Absolute)	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Male	Male	Eosinophils (Absolute)	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Male	Male	Large Unclassified Cells	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Male	Male	Basophils (Absolute)	n	Anova & Dunnett: n - Inappropriate for statistics

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TABLE 6-1      Haematological Parameters - Summary

Page	Day	Group	Sex	Measurement	Comments and Markers	
					Marker	Comment
4	4	2	Male	MCHC	*	Anova & Dunnett: * = $p \leq 0.05$
4	4	3	Male	MCV	**	Anova & Dunnett: ** = $p \leq 0.01$
4	4	3	Male	MCHC	**	Anova & Dunnett: ** = $p \leq 0.01$
4	4	5	Male	MCV	**	Anova & Dunnett: ** = $p \leq 0.01$
4	4	5	Male	MCHC	**	Anova & Dunnett: ** = $p \leq 0.01$
4	4	6	Male	MCV	**	Anova & Dunnett: ** = $p \leq 0.01$
4	4	6	Male	MCHC	**	Anova & Dunnett: ** = $p \leq 0.01$
4	4	7	Male	MCV	**	Anova & Dunnett: ** = $p \leq 0.01$
4	4	7	Male	MCHC	**	Anova & Dunnett: ** = $p \leq 0.01$

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TABLE 6-1 Haematological Parameters - Summary

Page	Day	Group	Sex	Measurement	Comments and Markers	
					Marker	Comment
10	6	Male	Male	PT	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Male	Male	aPTT	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Male	Male	Fibrinogen	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Male	Male	MCV	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Male	Male	MCH	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Male	Male	MCHC	n	Anova & Dunnett: n - Inappropriate for statistics
17	2	Male	Male	aPTT	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
17	2	Male	Male	Fibrinogen	**	Anova & Dunnett(Log): ** = p ≤ 0.01
17	2	Male	Male	MCV	*	Anova & Dunnett: * = p ≤ 0.05
17	3	Male	Male	aPTT	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
17	3	Male	Male	Fibrinogen	**	Anova & Dunnett(Log): ** = p ≤ 0.01
17	3	Male	Male	MCV	**	Anova & Dunnett: ** = p ≤ 0.01
17	3	Male	Male	MCH	**	Anova & Dunnett: ** = p ≤ 0.01
17	3	Male	Male	MCHC	**	Anova & Dunnett: ** = p ≤ 0.01
17	4	Male	Male	Fibrinogen	**	Anova & Dunnett(Log): ** = p ≤ 0.01
17	4	Male	Male	MCV	*	Anova & Dunnett: * = p ≤ 0.01
17	4	Male	Male	MCH	**	Anova & Dunnett: ** = p ≤ 0.05
17	5	Male	Male	Fibrinogen	**	Anova & Dunnett: ** = p ≤ 0.01
17	5	Male	Male	MCV	**	Anova & Dunnett: ** = p ≤ 0.01
17	5	Male	Male	MCH	**	Anova & Dunnett: ** = p ≤ 0.01
17	5	Male	Male	MCHC	**	Anova & Dunnett: ** = p ≤ 0.01
17	7	Male	Male	aPTT	*	Anova & Dunnett: * = p ≤ 0.05
17	7	Male	Male	Fibrinogen	**	Anova & Dunnett: ** = p ≤ 0.01
17	7	Male	Male	MCV	**	Anova & Dunnett: ** = p ≤ 0.01
17	7	Male	Male	MCH	**	Anova & Dunnett: ** = p ≤ 0.01
31	6	Male	Male	MCHC	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Male	Male	PT	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Male	Male	aPTT	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Male	Male	Fibrinogen	n	Anova & Dunnett: n - Inappropriate for statistics

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TABLE 6-1      Haematological Parameters - Summary

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Measurement</u>	<u>Marker</u>	<u>Comment</u>
31	31	6	Male	MCV	n	Anova & Dunnett: n - Inappropriate for statistics
31	31	6	Male	MCH	n	Anova & Dunnett: n - Inappropriate for statistics
31	31	6	Male	MCHC	n	Anova & Dunnett: n - Inappropriate for statistics

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RNA Platforms encoding for Viral Proteins

TABLE 6-1 Haematological Parameters - Summary

Page	Day	Group	Sex	Measurement	Comments and Markers	
					Marker	Comment
4	2	Male	Male	Platlet Dist Width	**	Anova & Dunnett: ** = p ≤ 0.01
4	2	Male	Male	RDW	**	Anova & Dunnett: ** = p ≤ 0.01
4	2	Male	Male	MPC	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
4	3	Male	Male	Platlet Dist Width	**	Anova & Dunnett: ** = p ≤ 0.01
4	3	Male	Male	MPC	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
4	5	Male	Male	Platlet Dist Width	*	Anova & Dunnett: * = p ≤ 0.05
4	5	Male	Male	MPC	**	Anova & Dunnett: ** = p ≤ 0.01
4	6	Male	Male	Platlet Dist Width	**	Anova & Dunnett: ** = p ≤ 0.01
4	6	Male	Male	MPC	**	Anova & Dunnett: ** = p ≤ 0.01
4	7	Male	Male	Platlet Dist Width	**	Anova & Dunnett: ** = p ≤ 0.01
4	7	Male	Male	MPC	**	Anova & Dunnett: ** = p ≤ 0.01
10	6	Male	Male	MPV	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Male	Male	Plateletcrit	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Male	Male	Platlet Dist Width	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Male	Male	RDW	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Male	Male	MPC	n	Anova & Dunnett: n - Inappropriate for statistics
17	2	Male	Male	Plateletcrit	**	Anova & Dunnett: ** = p ≤ 0.01
17	2	Male	Male	Platlet Dist Width	**	Anova & Dunnett(Log): ** = p ≤ 0.01
17	2	Male	Male	RDW	**	Anova & Dunnett: ** = p ≤ 0.01
17	2	Male	Male	MPC	**	Anova & Dunnett: ** = p ≤ 0.01
17	3	Male	Male	MPV	**	Anova & Dunnett: ** = p ≤ 0.01
17	3	Male	Male	Plateletcrit	**	Anova & Dunnett: ** = p ≤ 0.01
17	3	Male	Male	Platlet Dist Width	**	Anova & Dunnett(Log): ** = p ≤ 0.01
17	3	Male	Male	RDW	**	Anova & Dunnett: ** = p ≤ 0.01
17	3	Male	Male	MPC	**	Anova & Dunnett: ** = p ≤ 0.01
17	4	Male	Male	Platlet Dist Width	*	Anova & Dunnett(Log): * = p ≤ 0.05
17	4	Male	Male	RDW	**	Anova & Dunnett: ** = p ≤ 0.01
17	5	Male	Male	MPV	**	Anova & Dunnett: ** = p ≤ 0.01
17	5	Male	Male	Plateletcrit	**	Anova & Dunnett: ** = p ≤ 0.01

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TABLE 6-1 Haematological Parameters - Summary

Page	Day	Group	Sex	Measurement	Comments and Markers	
					Marker	Comment
17	5	Male	Male	Platlet Dist Width	**	Anova & Dunnett: ** = p ≤ 0.01
17	5	Male	Male	RDW	**	Anova & Dunnett: ** = p ≤ 0.01
17	5	Male	Male	MPC	**	Anova & Dunnett: ** = p ≤ 0.01
17	7	Male	Male	MPV	**	Anova & Dunnett: ** = p ≤ 0.01
17	7	Male	Male	Plateletcrit	**	Anova & Dunnett: ** = p ≤ 0.01
17	7	Male	Male	Platlet Dist Width	**	Anova & Dunnett: ** = p ≤ 0.01
17	7	Male	Male	RDW	**	Anova & Dunnett: ** = p ≤ 0.01
17	7	Male	Male	MPC	**	Anova & Dunnett: ** = p ≤ 0.01
17	7	Male	Male	MPV	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Male	Male	Plateletcrit	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Male	Male	Platlet Dist Width	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Male	Male	RDW	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Male	Male	MPC	n	Anova & Dunnett: n - Inappropriate for statistics
38	2	Male	Male	RDW	**	Anova & Dunnett: ** = p ≤ 0.01
38	3	Male	Male	RDW	**	Anova & Dunnett: ** = p ≤ 0.01
38	4	Male	Male	RDW	**	Anova & Dunnett: ** = p ≤ 0.01
38	5	Male	Male	RDW	**	Anova & Dunnett: ** = p ≤ 0.01
38	7	Male	Male	RDW	**	Anova & Dunnett: ** = p ≤ 0.01

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TABLE 6-1 Haematological Parameters - Summary

Page	Day	Group	Sex	Measurement	Comments and Markers	
					Marker	Comment
4	2	Female	WBC	**	Anova & Dunnett(Log): ** = p ≤ 0.01	
4	2	Female	Reticulocyte (Relative)	**	Anova & Dunnett: ** = p ≤ 0.01	
4	2	Female	Reticulocyte (Absolute)	**	Anova & Dunnett(Log): ** = p ≤ 0.01	
4	2	Female	PLT	*	Anova & Dunnett: * = p ≤ 0.05	
4	3	Female	Reticulocyte (Relative)	**	Anova & Dunnett: ** = p ≤ 0.01	
4	3	Female	Reticulocyte (Absolute)	**	Anova & Dunnett(Log): ** = p ≤ 0.01	
4	4	Female	Reticulocyte (Relative)	**	Anova & Dunnett: ** = p ≤ 0.01	
4	4	Female	Reticulocyte (Absolute)	*	Anova & Dunnett(Log): * = p ≤ 0.05	
4	5	Female	Reticulocyte (Relative)	**	Anova & Dunnett: ** = p ≤ 0.01	
4	5	Female	Reticulocyte (Absolute)	**	Anova & Dunnett: ** = p ≤ 0.01	
4	6	Female	Reticulocyte (Relative)	**	Anova & Dunnett: ** = p ≤ 0.01	
4	6	Female	Reticulocyte (Absolute)	**	Anova & Dunnett: ** = p ≤ 0.01	
4	7	Female	Reticulocyte (Relative)	**	Anova & Dunnett: ** = p ≤ 0.01	
4	7	Female	Reticulocyte (Absolute)	**	Anova & Dunnett: ** = p ≤ 0.01	
10	6	Female	HGB	n	Anova & Dunnett: n - Inappropriate for statistics	
10	6	Female	RBC	n	Anova & Dunnett: n - Inappropriate for statistics	
10	6	Female	WBC	n	Anova & Dunnett: n - Inappropriate for statistics	
10	6	Female	Reticulocyte (Relative)	n	Anova & Dunnett: n - Inappropriate for statistics	
10	6	Female	Reticulocyte (Absolute)	n	Anova & Dunnett: n - Inappropriate for statistics	
10	6	Female	PLT	n	Anova & Dunnett: n - Inappropriate for statistics	
10	6	Female	HCT	n	Anova & Dunnett: n - Inappropriate for statistics	
17	2	Female	WBC	**	Anova & Dunnett: ** = p ≤ 0.01	
17	2	Female	PLT	**	Anova & Dunnett: ** = p ≤ 0.01	
17	3	Female	HGB	*	Anova & Dunnett: * = p ≤ 0.05	
17	3	Female	RBC	*	Anova & Dunnett: * = p ≤ 0.05	
17	3	Female	WBC	**	Anova & Dunnett: ** = p ≤ 0.01	
17	3	Female	PLT	**	Anova & Dunnett: ** = p ≤ 0.01	
17	3	Female	HCT	**	Anova & Dunnett: ** = p ≤ 0.01	
17	4	Female	HGB	**	Anova & Dunnett: ** = p ≤ 0.01	

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TABLE 6-1 Haematological Parameters - Summary

Page	Day	Group	Sex	Measurement	Comments and Markers	
					Marker	Comment
17	4	Female	RBC	**	Anova & Dunnett: ** = p ≤ 0.01	
17	4	Female	WBC	**	Anova & Dunnett: ** = p ≤ 0.01	
17	4	Female	PLT	*	Anova & Dunnett: * = p ≤ 0.05	
17	4	Female	HCT	**	Anova & Dunnett: ** = p ≤ 0.01	
17	5	Female	HGB	**	Anova & Dunnett: ** = p ≤ 0.01	
17	5	Female	RBC	**	Anova & Dunnett: ** = p ≤ 0.01	
17	5	Female	WBC	**	Anova & Dunnett: ** = p ≤ 0.01	
17	5	Female	PLT	**	Anova & Dunnett: ** = p ≤ 0.01	
17	5	Female	HCT	**	Anova & Dunnett: ** = p ≤ 0.01	
17	7	Female	HGB	**	Anova & Dunnett: ** = p ≤ 0.01	
17	7	Female	RBC	**	Anova & Dunnett: ** = p ≤ 0.01	
17	7	Female	WBC	**	Anova & Dunnett: ** = p ≤ 0.01	
17	7	Female	PLT	**	Anova & Dunnett: ** = p ≤ 0.01	
17	7	Female	HCT	**	Anova & Dunnett: ** = p ≤ 0.01	
31	6	Female	HGB	n	Anova & Dunnett: n - Inappropriate for statistics	
31	6	Female	RBC	n	Anova & Dunnett: n - Inappropriate for statistics	
31	6	Female	WBC	n	Anova & Dunnett: n - Inappropriate for statistics	
31	6	Female	Reticulocyte (Relative)	n	Anova & Dunnett: n - Inappropriate for statistics	
31	6	Female	Reticulocyte (Absolute)	n	Anova & Dunnett: n - Inappropriate for statistics	
31	6	Female	PLT	n	Anova & Dunnett: n - Inappropriate for statistics	
31	6	Female	HCT	n	Anova & Dunnett: n - Inappropriate for statistics	

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TABLE 6-1 Haematological Parameters - Summary

Page	Day	Group	Sex	Measurement	Comments and Markers	
					Marker	Comment
4	2	Female		Neutrophils (Absolute)	**	Anova & Dunnett(Log): ** = p ≤ 0.01
4	2	Female		Monocytes (Absolute)	**	Anova & Dunnett(Log): ** = p ≤ 0.01
4	2	Female		Large Unclassified Cells	**	Anova & Dunnett(Log): ** = p ≤ 0.01
4	2	Female		Basophils (Absolute)	**	Anova & Dunnett(Log): ** = p ≤ 0.01
4	3	Female		Large Unclassified Cells	**	Anova & Dunnett(Log): ** = p ≤ 0.01
4	5	Female		Large Unclassified Cells	**	Anova & Dunnett(Log): ** = p ≤ 0.01
4	6	Female		Large Unclassified Cells	**	Anova & Dunnett: ** = p ≤ 0.01
4	6	Female		Neutrophils (Absolute)	**	Anova & Dunnett: ** = p ≤ 0.01
4	6	Female		Monocytes (Absolute)	**	Anova & Dunnett: ** = p ≤ 0.01
4	6	Female		Large Unclassified Cells	**	Anova & Dunnett: ** = p ≤ 0.01
4	6	Female		Basophils (Absolute)	**	Anova & Dunnett: ** = p ≤ 0.01
4	7	Female		Neutrophils (Absolute)	**	Anova & Dunnett: ** = p ≤ 0.01
4	7	Female		Large Unclassified Cells	**	Anova & Dunnett: ** = p ≤ 0.01
4	7	Female		Basophils (Absolute)	*	Anova & Dunnett: * = p ≤ 0.05
10	6	Female		Neutrophils (Absolute)	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Female		Lymphocytes (Absolute)	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Female		Monocytes (Absolute)	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Female		Eosinophils (Absolute)	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Female		Large Unclassified Cells	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Female		Basophils (Absolute)	n	Anova & Dunnett: n - Inappropriate for statistics
17	2	Female		Neutrophils (Absolute)	**	Anova & Dunnett(Log): ** = p ≤ 0.01
17	2	Female		Monocytes (Absolute)	*	Anova & Dunnett(Log): * = p ≤ 0.05
17	2	Female		Large Unclassified Cells	**	Anova & Dunnett(Log): ** = p ≤ 0.01
17	3	Female		Basophils (Absolute)	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
17	3	Female		Neutrophils (Absolute)	**	Anova & Dunnett(Log): ** = p ≤ 0.01
17	3	Female		Monocytes (Absolute)	*	Anova & Dunnett(Log): * = p ≤ 0.01
17	3	Female		Eosinophils (Absolute)	*	Anova & Dunnett(Log): * = p ≤ 0.05
17	3	Female		Large Unclassified Cells	**	Anova & Dunnett(Log): ** = p ≤ 0.01
17	3	Female		Basophils (Absolute)	*	Anova & Dunnett(Rank): * = p ≤ 0.05
17	4	Female		Neutrophils (Absolute)	**	Anova & Dunnett(Log): ** = p ≤ 0.01

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TABLE 6-1      Haematological Parameters - Summary

Page	Day	Group	Sex	Measurement	Comments and Markers	
					Marker	Comment
17	4	Female		Monocytes (Absolute)	**	Anova & Dunnett(Log): ** = p ≤ 0.01
17	4	Female		Eosinophils (Absolute)	**	Anova & Dunnett(Log): ** = p ≤ 0.01
17	4	Female		Large Unclassified Cells	**	Anova & Dunnett(Log): ** = p ≤ 0.01
17	4	Female		Basophils (Absolute)	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
17	4	Female		Neutrophils (Absolute)	**	Anova & Dunnett: *** = p ≤ 0.01
17	5	Female		Monocytes (Absolute)	**	Anova & Dunnett: *** = p ≤ 0.01
17	5	Female		Eosinophils (Absolute)	**	Anova & Dunnett: *** = p ≤ 0.01
17	5	Female		Large Unclassified Cells	**	Anova & Dunnett: *** = p ≤ 0.01
17	5	Female		Basophils (Absolute)	**	Anova & Dunnett: *** = p ≤ 0.01
17	5	Female		Neutrophils (Absolute)	**	Anova & Dunnett: *** = p ≤ 0.01
17	7	Female		Eosinophils (Absolute)	**	Anova & Dunnett: *** = p ≤ 0.01
17	7	Female		Large Unclassified Cells	**	Anova & Dunnett: *** = p ≤ 0.01
17	7	Female		Basophils (Absolute)	**	Anova & Dunnett: *** = p ≤ 0.01
17	7	Female		Neutrophils (Absolute)	**	Anova & Dunnett: *** = p ≤ 0.01
17	7	Female		Eosinophils (Absolute)	*	Anova & Dunnett: * = p ≤ 0.05
17	7	Female		Large Unclassified Cells	**	Anova & Dunnett: *** = p ≤ 0.01
17	7	Female		Basophils (Absolute)	*	Anova & Dunnett: * = p ≤ 0.05
31	6	Female		Neutrophils (Absolute)	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Female		Lymphocytes (Absolute)	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Female		Monocytes (Absolute)	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Female		Eosinophils (Absolute)	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Female		Large Unclassified Cells	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Female		Basophils (Absolute)	n	Anova & Dunnett: n - Inappropriate for statistics

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TABLE 6-1 Haematological Parameters - Summary

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Measurement</u>	<u>Comments and Markers</u>	
					<u>Marker</u>	<u>Comment</u>
4	4	3	Female	MCHC	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
4	4	6	Female	MCHC	**	Anova & Dunnett: ** = p ≤ 0.01
4	4	7	Female	MCHC	*	Anova & Dunnett: * = p ≤ 0.05

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TABLE 6-1 Haematological Parameters - Summary

Page	Day	Group	Sex	Measurement	Comments and Markers	
					Marker	Comment
10	6	Female	PT	n	Anova & Dunnett: n - Inappropriate for statistics	
10	6	Female	aPTT	n	Anova & Dunnett: n - Inappropriate for statistics	
10	6	Female	Fibrinogen	n	Anova & Dunnett: n - Inappropriate for statistics	
10	6	Female	MCV	n	Anova & Dunnett: n - Inappropriate for statistics	
10	6	Female	MCH	n	Anova & Dunnett: n - Inappropriate for statistics	
10	6	Female	MCHC	n	Anova & Dunnett: n - Inappropriate for statistics	
17	2	Female	aPTT	**	Anova & Dunnett: ** = p ≤ 0.01	
17	2	Female	Fibrinogen	**	Anova & Dunnett(Rank): ** = p ≤ 0.01	
17	3	Female	aPTT	**	Anova & Dunnett: ** = p ≤ 0.01	
17	3	Female	Fibrinogen	*	Anova & Dunnett(Rank): * = p ≤ 0.05	
17	3	Female	MCV	**	Anova & Dunnett: ** = p ≤ 0.01	
17	3	Female	MCHC	**	Anova & Dunnett: ** = p ≤ 0.01	
17	4	Female	Fibrinogen	**	Anova & Dunnett(Rank): ** = p ≤ 0.01	
17	4	Female	MCHC	*	Anova & Dunnett: * = p ≤ 0.05	
17	5	Female	aPTT	**	Anova & Dunnett: ** = p ≤ 0.01	
17	5	Female	Fibrinogen	**	Anova & Dunnett: ** = p ≤ 0.01	
17	5	Female	MCV	**	Anova & Dunnett: ** = p ≤ 0.01	
17	5	Female	MCH	*	Anova & Dunnett: * = p ≤ 0.01	
17	5	Female	MCHC	*	Anova & Dunnett: * = p ≤ 0.05	
17	7	Female	aPTT	**	Anova & Dunnett: ** = p ≤ 0.01	
17	7	Female	Fibrinogen	**	Anova & Dunnett: ** = p ≤ 0.01	
17	7	Female	MCV	*	Anova & Dunnett: * = p ≤ 0.05	
31	6	Female	PT	n	Anova & Dunnett: n - Inappropriate for statistics	
31	6	Female	aPTT	n	Anova & Dunnett: n - Inappropriate for statistics	
31	6	Female	Fibrinogen	n	Anova & Dunnett: n - Inappropriate for statistics	
31	6	Female	MCV	n	Anova & Dunnett: n - Inappropriate for statistics	
31	6	Female	MCH	n	Anova & Dunnett: n - Inappropriate for statistics	
31	6	Female	MCHC	n	Anova & Dunnett: n - Inappropriate for statistics	

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TABLE 6-1 Haematological Parameters - Summary

Page	Day	Group	Sex	Measurement	Comments and Markers	
					Marker	Comment
4	2	Female	Female	Plateletcrit	*	Anova & Dunnett(Log): * = p ≤ 0.05
4	3	Female	MPV		**	Anova & Dunnett: ** = p ≤ 0.01
4	3	Female	MPC		**	Anova & Dunnett: *** = p ≤ 0.01
4	5	Female	MPV		*	Anova & Dunnett: * = p ≤ 0.05
4	5	Female	MPC		**	Anova & Dunnett: ** = p ≤ 0.01
4	6	Female	MPV		*	Anova & Dunnett: *** = p ≤ 0.01
4	6	Female	MPV		**	Anova & Dunnett: * = p ≤ 0.05
4	6	Female	MPV		**	Anova & Dunnett: ** = p ≤ 0.05
4	6	Female	MPV		**	Anova & Dunnett: *** = p ≤ 0.01
4	7	Female	MPV		**	Anova & Dunnett: n - Inappropriate for statistics
4	6	Female	Plateletcrit		n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Female	Plateletcrit		n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Female	Platlet Dist Width		n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Female	RDW		n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Female	MPC		n	Anova & Dunnett: n - Inappropriate for statistics
17	2	Female	Plateletcrit		**	Anova & Dunnett: ** = p ≤ 0.01
17	2	Female	Platlet Dist Width		**	Anova & Dunnett(Log): ** = p ≤ 0.01
17	2	Female	RDW		**	Anova & Dunnett: *** = p ≤ 0.01
17	2	Female	MPC		**	Anova & Dunnett: *** = p ≤ 0.01
17	3	Female	Plateletcrit		**	Anova & Dunnett(Rank): ** = p ≤ 0.01
17	3	Female	Platlet Dist Width		**	Anova & Dunnett(Log): ** = p ≤ 0.01
17	3	Female	RDW		**	Anova & Dunnett: *** = p ≤ 0.01
17	3	Female	MPC		**	Anova & Dunnett: *** = p ≤ 0.01
17	4	Female	Plateletcrit		**	Anova & Dunnett: *** = p ≤ 0.01
17	4	Female	RDW		*	Anova & Dunnett: * = p ≤ 0.05
17	4	Female	MPC		**	Anova & Dunnett: ** = p ≤ 0.01
17	5	Female	MPV		**	Anova & Dunnett: *** = p ≤ 0.01
17	5	Female	Plateletcrit		**	Anova & Dunnett: *** = p ≤ 0.01
17	5	Female	Platlet Dist Width		**	Anova & Dunnett: *** = p ≤ 0.01
17	5	Female	RDW		*	Anova & Dunnett: * = p ≤ 0.05

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TABLE 6-1 Haematological Parameters - Summary

Page	Day	Group	Sex	Measurement	Comments and Markers	
					Marker	Comment
17	5	Female	MPC	**	Anova & Dunnett: ** = p ≤ 0.01	
17	7	Female	MPV	**	Anova & Dunnett: ** = p ≤ 0.01	
17	7	Female	Plateletcrit	**	Anova & Dunnett: ** = p ≤ 0.01	
17	7	Female	Platlet Dist Width	**	Anova & Dunnett: ** = p ≤ 0.01	
17	7	Female	RDW	*	Anova & Dunnett: * = p ≤ 0.05	
17	7	Female	MPC	**	Anova & Dunnett: ** = p ≤ 0.01	
31	6	Female	MPV	n	Anova & Dunnett: n - Inappropriate for statistics	
31	6	Female	Plateletcrit	n	Anova & Dunnett: n - Inappropriate for statistics	
31	6	Female	Platlet Dist Width	n	Anova & Dunnett: n - Inappropriate for statistics	
31	6	Female	RDW	n	Anova & Dunnett: n - Inappropriate for statistics	
31	6	Female	MPC	n	Anova & Dunnett: n - Inappropriate for statistics	
38	2	Female	RDW	**	Anova & Dunnett: ** = p ≤ 0.01	
38	3	Female	RDW	**	Anova & Dunnett: ** = p ≤ 0.01	
38	3	Female	MPC	*	Anova & Dunnett: * = p ≤ 0.05	
38	4	Female	RDW	**	Anova & Dunnett: ** = p ≤ 0.01	
38	5	Female	RDW	**	Anova & Dunnett: ** = p ≤ 0.01	
38	5	Female	MPC	**	Anova & Dunnett: ** = p ≤ 0.01	
38	7	Female	RDW	**	Anova & Dunnett: ** = p ≤ 0.01	
38	7	Female	MPC	**	Anova & Dunnett: ** = p ≤ 0.01	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Haematological Parameters						
Group 1: Control		HGB (mmol/L)	RBC (x10E6/ $\mu$ L)	WBC (x10E3/ $\mu$ L)	Reti (%)	Reti (x10E3/ $\mu$ L)	PLT (x10E3/ $\mu$ L)	HCT (%)
1	8.4	7.25	7.49	4.2	307.3	973	41.2	
2	8.5	6.94	9.22	4.1	286.2	871	40.9	
3	8.9	7.45	8.28	5.0	374.2	1090	43.7	
4	8.7	7.25	7.25	4.3	311.9	894	42.2	
5	8.5	7.61	14.48	4.2	323.2	1017	41.3	
11	8.9	7.82	9.07	4.0	316.0	896	43.3	
12	8.2	6.51	9.33	5.2	337.1	1124	40.2	
13	8.4	7.24	11.08	3.9	283.5	1050	40.9	
14	8.9	7.48	8.86	3.1	234.5	1237	43.3	
15	8.6	7.15	8.61	4.1	295.7	833	42.2	
Mean	8.60	7.270	9.367	4.21	306.96	998.5	41.92	
SD	0.24	0.365	2.087	0.58	36.75	129.0	1.21	
N	10	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Haematological Parameters						
Group 2: 30 µg/ animal BNT162a1		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
		31	8.6	7.29	15.65	1.3	93.2	1254
32	8.7	7.69	8.76	0.6	47.3	1191	41.6	41.7
33	7.8	6.76	7.69	1.3	91.1	976	36.8	36.8
34	8.4	7.35	11.30	1.1	81.6	982	40.1	40.1
35	8.3	7.17	12.35	0.9	67.4	1105	40.4	40.4
41	8.5	6.88	11.97	1.1	74.0	1089	40.5	40.5
42	8.6	7.24	12.14	0.8	54.7	941	40.8	40.8
43	8.4	7.16	15.07	1.1	81.6	888	41.1	41.1
44	8.5	7.39	12.72	1.1	80.0	915	41.5	41.5
45	8.5	7.25	9.81	1.1	77.6	876	41.3	41.3
Mean	8.43	7.218	11.746	1.04	74.85	1021.7	40.58	
SD	0.25	0.260	2.519	0.22	14.71	131.1	1.44	
N	10	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Haematological Parameters					
Group 3: 10 µg/ animal BNT162a1	HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
61	8.9	7.83	9.50	1.2	95.7	1077	43.1
62	8.5	7.57	8.92	1.6	120.2	1453	41.5
63	8.9	7.76	8.64	1.5	112.8	970	41.7
64	9.3	8.14	14.66	0.7	60.8	905	43.9
65	9.0	7.43	9.12	1.9	139.7	1057	42.4
71	8.4	7.05	11.26	1.7	122.2	1219	39.9
72	9.1	7.88	9.98	1.6	122.3	1116	43.0
73	9.9	8.37	11.06	1.6	132.8	1134	47.4
74	9.1	7.92	12.29	1.5	116.6	1032	43.6
75	8.8	7.59	10.31	1.8	139.7	1223	41.2
Mean	8.99	7.754	10.574	1.51	116.28	1118.6	42.77
SD	0.42	0.371	1.841	0.34	23.50	154.1	2.03
N	10	10	10	10	10	10	10

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Haematological Parameters					
Group 4: 30 µg/ animal BNT162b1	HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
91	8.2	7.16	10.05	1.9	137.5	898	40.3
92	8.2	7.12	9.23	2.3	160.9	954	40.7
93	8.3	7.31	10.32	2.8	207.2	1035	39.8
94	8.2	7.29	13.56	1.7	123.7	1200	40.4
95	8.3	7.03	12.80	2.9	206.5	993	40.8
101	8.4	7.16	11.85	2.0	146.3	823	41.0
102	8.1	7.00	7.73	2.5	178.0	1216	40.5
103	7.8	6.81	7.64	2.6	174.1	987	38.7
104	8.3	7.47	9.37	2.6	192.7	888	40.8
105	8.3	6.91	7.46	2.7	184.3	1022	40.9
Mean	8.21	7.126	10.001	2.40	171.12	1001.6	40.39
SD	0.17	0.198	2.166	0.41	28.57	126.9	0.69
N	10	10	10	10	10	10	10

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Haematological Parameters						
Group 5: 100 µg/ animal BNT162b1		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
121		8.9	7.84	12.00	2.1	161.6	902	42.4
122		8.9	7.83	7.14	1.0	76.7	1124	42.3
123		8.5	7.39	13.99	1.7	125.7	1224	41.3
124		8.9	7.54	10.67	1.7	125.7	829	41.9
125		9.2	8.04	9.78	1.5	120.8	1223	44.2
131		9.1	7.69	15.07	1.1	86.1	1182	42.6
132		9.3	8.25	8.29	1.2	100.8	852	45.0
133		8.9	7.82	10.37	1.1	89.0	1060	41.9
134		8.8	7.86	11.47	1.7	136.5	104	41.7
135		8.8	7.58	10.33	1.4	102.5	1106	42.0
Mean		8.93	7.784	10.911	1.45	112.54	1051.6	42.53
SD		0.23	0.249	2.388	0.35	26.19	148.2	1.17
N		10	10	10	10	10	10	10

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Haematological Parameters						
Group 6: 30 µg/ animal		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
151		9.4	8.06	11.80	1.1	91.8	1060	44.5
152		9.4	7.89	15.19	0.9	71.8	953	44.2
153		8.7	7.68	14.61	0.4	32.0	1008	41.6
154		8.9	7.55	11.33	1.1	85.3	965	41.9
155		8.8	7.59	16.77	1.3	95.2	1212	43.1
161		8.4	7.36	11.35	1.0	74.4	1292	40.4
162		8.6	7.41	9.97	0.9	64.7	1251	41.6
163		8.9	7.97	12.72	1.4	107.6	920	42.3
164		9.2	8.29	13.44	0.8	70.1	1293	43.5
165		9.2	8.16	11.68	1.0	77.7	1039	43.5
Mean		8.95	7.796	12.886	0.99	77.06	1099.3	42.66
SD		0.34	0.323	2.098	0.28	20.59	147.4	1.31
N		10	10	10	10	10	10	10

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Haematological Parameters						
Group 7: 100 µg/ animal BNT162b2		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
181	8.8	7.97	10.79	1.3	101.3	832	41.7	
182	8.8	7.42	13.27	1.2	90.5	1033	42.3	
183	8.9	7.77	14.25	1.1	89.2	940	42.3	
184	9.2	7.73	12.92	1.3	98.0	841	43.4	
185	9.4	8.00	10.95	1.4	113.6	994	44.1	
191	9.1	7.87	11.76	0.9	71.7	876	42.3	
192	9.3	7.97	14.38	0.7	59.3	698	43.0	
193	9.2	7.88	12.73	1.1	86.5	955	44.0	
194	9.1	7.82	12.30	0.9	70.2	1322	42.0	
195	9.3	8.05	14.99	0.9	74.9	998	43.7	
Mean	9.11	7.848	12.834	1.08	85.52	948.9	42.88	
SD	0.21	0.182	1.431	0.23	16.53	164.8	0.87	
N	10	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 10 Relative to Start Date	Haematological Parameters						
Group 6: 30 µg/ animal		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
151	8.9	7.72	13.54	2.4	187.4	643	42.1	
152	9.1 I	7.80 I	29.53 I	2.9 I	229.1 I	751 I	43.3 I	
153	8.7	7.67	21.69	2.5	189.1	745	41.4	
154	8.8	7.78	16.88	3.2	249.3	691	42.5	
155	8.5	7.35	23.33	2.7	197.2	887	41.7	
156	8.6	7.58	17.76	3.0	229.6	741	40.4	
157	8.4	7.62	19.12	2.5	194.3	580	39.6	
158	9.3	8.43	17.78	1.9	159.8	537	44.3	
159	8.1	7.26	18.15	2.2	162.2	743	37.6	
160	9.1	7.87	23.37	1.6	128.7	770	41.7	
Mean	8.75	7.708	20.115	2.49	192.67	708.8	41.46	
SD	0.37	0.319	4.492	0.50	36.61	100.9	1.90	
N	10	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male Day: 17 Relative to Start Date

		Haematological Parameters						
Group 1: Control		HGB (mmol/L)	RBC (x10E6/ $\mu$ L)	WBC (x10E3/ $\mu$ L)	Reti (%)	Reti (x10E3/ $\mu$ L)	PLT (x10E3/ $\mu$ L)	HCT (%)
1	9.0	8.01	8.28	3.1	247.1	1176	44.9	
2	9.3	7.94	7.33	2.8	222.4	792	46.2	
3	9.3	8.00	6.21	3.1	245.1	1391	46.7	
4	9.0	7.89	8.21	2.6	202.4	958	43.7	
5	8.8	8.12	10.65	2.9	234.1	1264	43.8	
6	9.2	7.83	8.48	3.5	271.6	900	45.0	
7	9.5	8.28	14.28	3.0	251.7	1065	45.6	
8	9.3	7.84	9.22	3.1	241.7	878	46.1	
9	8.7	7.45	11.36	3.3	246.5	1217	43.0	
10	9.3	8.20	6.88	2.2	183.4	1251	45.3	
Mean	9.14	7.956	9.090	2.96	234.60	1089.2	45.03	
SD	0.25	0.232	2.418	0.37	25.66	199.5	1.21	
N	10	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Haematological Parameters						
Group 2: 30 µg/ animal BNT162a1		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
31	9.3	8.19	22.02	2.5	203.4	959	45.8	
32	8.4	7.69	10.09	2.4	184.9	867	41.9	
33	8.4	7.48	12.18	2.5	189.9	716	41.3	
34	8.2	7.44	20.51	1.6	121.1	778	39.9	
35	8.7	7.66	15.07	2.9	219.3	1029	41.8	
36	8.6	7.50	14.89	2.9	216.0	855	42.8	
37	8.8	7.77	15.55	1.8	142.8	805	42.7	
38	8.7	7.72	16.89	2.3	176.0	641	42.7	
39	8.7	7.87	16.42	1.8	140.8	525	42.7	
40	8.9	7.91	19.18	1.9	154.1	872	42.7	
Mean	8.67	7.723	16.280	2.26	174.83	804.7	42.43	
SD	0.31	0.229	3.632	0.46	33.86	148.6	1.50	
N	10	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Haematological Parameters						
Group 3: 10 µg/ animal BNT162a1		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
61	9.2	8.38	16.81	2.2	180.5	708	43.9	
62	8.3	7.55	12.08	2.8	211.1	1226	40.1	
63	8.8	8.15	14.49	1.7	136.7	668	41.2	
64	8.8	7.98	16.23	2.1	167.8	757	42.1	
65	8.5	7.43	10.46	3.0	225.4	872	40.0	
66	8.8	8.07	13.49	2.5	203.2	631	41.3	
67	8.9	7.91	16.34	2.4	189.0	691	42.1	
68	8.9	8.31	15.88	2.8	234.1	818	41.4	
69	8.5	7.33	17.27	2.6	192.7	845	39.7	
70	8.2	7.33	14.54	2.2	163.4	835	39.2	
Mean	8.69	7.844	14.759	2.43	190.39	805.1	41.10	
SD	0.31	0.403	2.207	0.39	29.73	169.4	1.40	
N	10	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Haematological Parameters						
Group 4: 30 µg/ animal BNT162b1		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
91	8.5	7.72	16.45	2.1	161.0	885	42.3	
92	8.6	7.78	11.90	2.1	161.4	876	43.1	
93	8.6	7.77	13.19	2.9	221.5	874	42.5	
94	8.5	7.78	16.64	2.5	193.6	1320	42.3	
95	8.3	7.34	17.38	2.8	202.5	887	40.9	
96	8.9	7.87	22.80	2.4	185.6	908	43.3	
97	8.8	7.76	12.77	2.8	217.3	1071	42.9	
98	8.3	7.25	12.84	2.5	179.0	800	40.7	
99	8.9	8.02	9.00	2.2	177.7	703	45.1	
100	8.8	8.22	13.15	2.3	186.5	982	43.5	
Mean	8.62	7.751	14.612	2.46	188.61	930.6	42.66	
SD	0.23	0.285	3.826	0.30	20.68	167.8	1.27	
N	10	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Haematological Parameters						
Group 5: 100 µg/ animal BNT162b1		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
121	7.8	7.25	15.87	3.8	278.9	628	37.3	
122	8.2	7.67	14.02	3.5	269.2	664	39.3	
123	7.7	6.81	19.41	2.8	190.0	1022	36.7	
124	7.9	7.12	15.26	2.5	176.2	947	37.8	
125	8.2	7.44	17.07	4.1	301.6	877	38.7	
126	7.8	7.17	26.77	4.3	311.3	736	36.0	
127	8.6	7.87	12.80	2.3	180.2	984	41.0	
128	8.5	8.02	14.18	2.4	190.1	716	40.6	
129	8.6	8.15	19.16	1.9	155.0	688	41.0	
130	8.1	7.61	11.10	2.4	180.4	910	39.5	
Mean	8.14	7.511	16.564	3.00	223.29	817.2	38.79	
SD	0.34	0.430	4.442	0.85	59.50	145.9	1.80	
N	10	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Haematological Parameters						
Group 7: 100 µg/ animal BNT162b2		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
181	8.0	7.56	16.36	2.5	190.8	753	37.9	
182	8.1	7.17	14.77	2.7	193.4	801	38.8	
183	8.3	7.69	25.89	1.7	132.9	658	40.0	
184	8.7	7.78	22.53	1.7	130.1	734	41.3	
185	8.9	8.02	22.85	2.0	162.7	739	42.5	
186	8.2	7.62	14.24	2.9	220.5	579	38.4	
187	8.5	8.09	20.86	2.4	190.3	849	40.1	
188	8.5	8.00	16.24	2.1	166.8	1020	40.9	
189	8.0	7.40	15.99	2.1	152.9	720	38.4	
190	7.9	7.37	29.03	2.6	189.0	861	38.2	
Mean	8.31	7.670	19.876	2.27	172.94	771.4	39.65	
SD	0.33	0.307	5.114	0.41	28.95	121.1	1.55	
N	10	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 31 Relative to Start Date	Haematological Parameters						
Group 6: 30 µg/ animal BNT162c1		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
161	8.7	8.31	8.76	2.6	214.5	1017	41.9	
162	8.9	8.35	6.48	2.1	171.5	1117	42.9	
163	8.6	8.28	7.67	2.3	193.4	856	41.3	
164	8.8	8.73	4.84	2.2	188.6	854	43.6	
165	9.0	8.61	6.75	2.8	242.3	1043	43.4	
Mean	8.80	8.456	6.900	2.40	202.06	977.4	42.62	
SD	0.16	0.201	1.457	0.29	27.22	117.6	0.99	
N	5	5	5	5	5	5	5	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male Day: 38 Relative to Start Date		Haematological Parameters						
Group 1: Control		HGB (mmol/L)	RBC (x10E6/ $\mu$ L)	WBC (x10E3/ $\mu$ L)	Reti (%)	Reti (x10E3/ $\mu$ L)	PLT (x10E3/ $\mu$ L)	HCT (%)
11	9.5	9.39	10.47	2.4	225.8	1155	46.3	
12	8.6	7.85	9.83	3.4	270.5	940	42.6	
13	8.4	8.04	14.52	3.4	270.9	982	42.3	
14	9.3	8.88	8.13	2.8	244.4	1115	45.7	
15	9.0	8.46	7.68	2.0	169.0	750	44.2	
Mean	8.96	8.524	10.126	2.80	236.12	988.4	44.22	
SD	0.46	0.626	2.715	0.62	42.05	160.5	1.79	
N	5	5	5	5	5	5	5	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Haematological Parameters						
Group 2: 30 µg/ animal BNT162a1		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
41	9.1	8.46	8.92	3.1	264.4	1096	44.4	
42	8.7	8.61	7.46	3.4	291.1	1174	43.7	
43	8.9	8.50	10.36	2.8	239.5	1161	43.7	
44	9.1	8.80	11.26	2.6	226.0	1012	44.6	
45	9.2	8.54	8.27	3.3	284.3	1089	45.3	
Mean	9.00	8.582	9.254	3.04	261.06	1106.4	44.34	
SD	0.20	0.134	1.545	0.34	28.05	64.9	0.67	
N	5	5	5	5	5	5	5	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Haematological Parameters						
Group 3: 10 µg/ animal BNT162a1		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
71	8.8	8.19	13.08	3.2	259.3	1227	42.5	
72	9.4	9.25	7.55	2.5	235.3	871	45.5	
73	9.6	9.11	7.95	2.1	190.5	813	46.9	
74	8.9	8.61	10.20	2.5	219.3	1136	44.1	
75	8.5	8.24	7.62	2.5	205.9	1153	42.3	
Mean	9.04	8.680	9.280	2.56	222.06	1040.0	44.26	
SD	0.45	0.487	2.388	0.40	26.58	185.1	1.97	
N	5	5	5	5	5	5	5	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Haematological Parameters						
Group 4: 30 µg/ animal BNT162b1		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
101	8.7	8.56	9.70	2.8	243.6	924	42.5	
102	8.7	8.53	5.07	2.0	174.0	865	43.2	
103	8.1	7.76	8.31	2.9	226.1	1088	39.7	
104	8.8	8.88	10.89	2.2	193.1	785	44.4	
105	8.5	7.96	6.36	3.4	273.6	1048	42.8	
Mean	8.56	8.338	8.066	2.66	222.08	942.0	42.52	
SD	0.28	0.463	2.376	0.56	39.64	126.0	1.73	
N	5	5	5	5	5	5	5	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Haematological Parameters						
Group 5: 100 µg/ animal BNT162b1		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
131	8.9	8.64	10.03	2.0	169.5	998	44.1	
132	9.1	8.84	7.31	2.3	204.3	826	44.6	
133	8.5	8.40	10.12	2.2	186.9	994	41.1	
134	9.1	8.97	8.60	3.0	270.1	922	45.4	
135	8.7	8.49	9.18	2.1	175.2	867	42.6	
Mean	8.86	8.668	9.048	2.32	201.20	921.4	43.56	
SD	0.26	0.237	1.157	0.40	40.75	76.2	1.71	
N	5	5	5	5	5	5	5	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Haematological Parameters						
Group 7: 100 µg/ animal BNT162b2		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
191	9.1	8.99	8.87	2.6	231.3	929	45.2	
192	9.3	9.31	12.64	2.5	229.2	1100	45.7	
193	8.6	8.37	9.54	2.7	226.4	1081	41.7	
194	9.2	8.74	7.19	1.6	142.1	1217	44.6	
195	9.2	9.01	13.61	2.6	229.9	808	45.6	
Mean	9.08	8.884	10.370	2.40	211.78	1027.0	44.56	
SD	0.28	0.351	2.679	0.45	38.99	159.6	1.66	
N	5	5	5	5	5	5	5	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Rat					
		Haematological Parameters					
Group 1: Control		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
1	13.7	80.8	3.0	1.5	0.8	0.8	0.3
2	18.9	74.7	3.8	1.5	0.8	0.8	0.2
3	14.5	80.5	2.4	1.1	1.2	0.2	0.3
4	20.8	72.1	3.2	1.7	2.0	0.2	0.2
5	17.6	77.1	3.1	1.0	0.8	0.4	0.4
11	16.9	77.1	3.2	1.9	0.7	0.2	0.2
12	16.7	77.7	3.1	1.5	0.7	0.2	0.2
13	15.5	77.7	4.1	1.4	0.9	0.4	0.4
14	12.2	83.6	2.1	0.7	1.1	0.3	0.3
15	12.5	82.6	3.0	0.8	0.8	0.3	0.3
Mean	15.93	78.39	3.10	1.31	0.98	0.28	
SD	2.78	3.54	0.58	0.39	0.39	0.08	
N	10	10	10	10	10	10	10

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Haematological Parameters					
		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
<b>Group 2: 30 µg/ animal BNT162a1</b>							
31	25.6	65.2	2.8	0.6	5.4	0.4	
32	29.7	64.8	2.5	0.7	2.1	0.3	
33	25.5	67.2	2.4	1.3	3.5	0.2	
34	29.1	59.1	3.4	1.4	6.7	0.3	
35	34.6	55.4	2.5	1.0	6.1	0.4	
41	27.7	56.5	4.5	1.4	9.5	0.4	
42	35.0	52.4	4.4	0.8	7.1	0.4	
43	29.1	60.3	4.2	1.5	4.5	0.4	
44	30.9	57.6	3.8	1.0	6.4	0.3	
45	23.3	68.9	3.7	0.7	3.3	0.2	
Mean	29.05	60.74	3.42	1.04	5.46	0.33	
SD	3.79	5.51	0.82	0.34	2.17	0.08	
N	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Haematological Parameters					
		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
<b>Group 3: 10 µg/ animal BNT162a1</b>							
61	12.8	80.9	3.0	1.0	1.7	0.5	
62	14.8	78.1	2.5	1.3	2.9	0.4	
63	19.1	74.0	2.8	1.7	1.9	0.5	
64	15.1	77.5	3.3	1.2	2.3	0.6	
65	19.1	72.2	4.0	1.6	2.7	0.4	
71	9.7	85.4	2.2	0.5	1.7	0.5	
72	12.3	79.9	3.4	0.7	3.4	0.3	
73	9.8	85.1	2.1	0.9	1.7	0.5	
74	10.4	84.8	2.3	0.9	1.2	0.4	
75	12.7	81.3	2.4	1.6	1.6	0.3	
Mean	13.58	79.92	2.80	1.14	2.11	0.44	
SD	3.45	4.56	0.62	0.41	0.69	0.10	
N	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Haematological Parameters					
		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
<b>Group 4: 30 µg/ animal BNT162b1</b>							
91	12.6	80.5	3.0	1.5	2.1	0.3	
92	10.6	85.3	2.1	0.7	1.0	0.3	
93	12.0	82.0	3.0	0.9	1.6	0.4	
94	16.0	78.6	2.0	0.5	2.4	0.4	
95	12.2	83.0	2.0	1.1	1.4	0.4	
101	17.7	76.7	3.3	1.2	0.8	0.4	
102	20.5	73.4	2.2	2.5	1.1	0.3	
103	13.4	79.8	2.9	2.0	1.7	0.2	
104	13.6	80.9	2.5	1.5	1.2	0.3	
105	19.2	75.5	2.7	1.3	1.0	0.3	
Mean	14.78	79.57	2.57	1.32	1.43	0.33	
SD	3.37	3.61	0.48	0.60	0.52	0.07	
N	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Haematological Parameters					
		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
<b>Group 5: 100 µg/ animal BNT162b1</b>							
121	12.8	81.6	1.7	1.2	2.3	0.5	
122	13.2	81.5	2.1	1.5	1.5	0.3	
123	11.4	83.2	1.7	0.7	2.5	0.5	
124	15.6	76.7	3.0	1.4	2.8	0.5	
125	9.2	87.2	1.0	1.0	1.4	0.2	
131	12.4	81.9	2.3	1.7	1.2	0.4	
132	12.0	80.2	2.2	0.5	4.6	0.4	
133	10.5	85.1	1.7	0.8	1.7	0.2	
134	10.6	85.1	1.6	1.1	1.2	0.5	
135	13.1	81.5	2.0	1.1	1.9	0.4	
Mean	12.08	82.40	1.93	1.10	2.11	0.39	
SD	1.79	2.95	0.53	0.37	1.03	0.12	
N	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Haematological Parameters					
		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
<b>Group 6: 30 µg/ animal BNT162c1</b>							
151	16.2	76.7	3.7	0.9	2.1	0.4	
152	21.7	69.0	5.2	0.6	3.0	0.6	
153	20.2	73.8	1.7	0.6	3.3	0.5	
154	21.5	65.9	3.7	0.5	8.0	0.3	
155	17.5	75.5	2.3	0.8	3.3	0.6	
161	19.7	72.3	4.2	1.2	2.2	0.4	
162	22.8	70.7	3.0	0.9	2.2	0.4	
163	22.0	71.4	2.4	0.9	2.8	0.4	
164	19.3	74.9	2.2	0.4	2.6	0.5	
165	15.5	77.8	3.4	0.7	2.2	0.4	
Mean	19.64	72.80	3.18	0.75	3.17	0.45	
SD	2.52	3.68	1.07	0.24	1.76	0.10	
N	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Haematological Parameters					
		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
<b>Group 7: 100 µg/ animal BNT162b2</b>							
181	20.6	73.4	1.7	0.9	2.9	0.5	
182	6.5	89.7	1.2	0.3	1.8	0.5	
183	14.0	80.0	1.6	0.6	3.3	0.5	
184	15.2	78.0	2.0	1.2	3.1	0.5	
185	10.6	83.8	2.0	0.6	2.5	0.5	
191	28.0	62.9	2.9	1.5	4.4	0.3	
192	19.2	73.4	2.5	1.7	2.7	0.5	
193	20.2	73.0	3.2	0.6	2.4	0.6	
194	15.0	78.8	2.4	0.7	2.6	0.5	
195	8.6	86.5	2.0	0.5	1.9	0.5	
Mean	15.79	77.95	2.15	0.86	2.76	0.49	
SD	6.43	7.77	0.61	0.46	0.75	0.07	
N	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 10 Relative to Start Date	Haematological Parameters					
		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
<b>Group 6: 30 µg/ animal BNT162c1</b>							
151	49.4	41.1	2.2	0.4	6.6	0.3	
152	38.6 I	53.4 I	3.6 I	0.5 I	2.9 I	1.0 I	
153	50.2	40.5	1.5	0.6	6.8	0.4	
154	39.6	43.3	5.2	0.4	11.2	0.4	
155	38.4	50.2	2.2	0.3	8.5	0.4	
156	43.5	45.6	3.6	0.5	6.4	0.2	
157	55.8	28.8	3.8	0.8	10.5	0.4	
158	53.4	36.4	3.2	0.3	6.3	0.4	
159	39.6	46.7	3.8	0.7	8.6	0.6	
160	35.2	57.3	2.7	0.3	4.0	0.6	
Mean	44.37	44.33	3.18	0.48	7.18	0.47	
SD	7.23	8.32	1.06	0.18	2.61	0.22	
N	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male Day: 17 Relative to Start Date		Haematological Parameters					
Group 1: Control		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
1	12.5	81.3	3.5	1.3	1.1	0.2	
2	23.4	70.7	3.4	1.6	0.6	0.3	
3	14.4	78.1	4.5	1.8	1.0	0.2	
4	19.5	74.1	3.2	1.6	1.2	0.3	
5	29.4	64.7	4.0	0.8	0.8	0.3	
6	9.8	85.6	2.1	1.3	1.0	0.3	
7	13.5	80.1	3.6	0.8	1.5	0.5	
8	16.7	78.0	3.2	1.0	0.8	0.4	
9	8.7	85.7	3.1	1.1	0.9	0.4	
10	13.2	81.3	3.2	1.4	0.6	0.3	
Mean	16.11	77.96	3.38	1.27	0.95	0.32	
SD	6.39	6.57	0.63	0.34	0.28	0.09	
N	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Haematological Parameters					
		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
<b>Group 2: 30 µg/ animal BNT162a1</b>							
31	44.9	41.2	2.9	0.5	10.1	0.5	
32	46.7	47.8	3.0	0.5	1.8	0.3	
33	47.1	44.7	4.0	0.7	3.2	0.3	
34	53.3	34.0	4.8	0.9	6.5	0.5	
35	45.3	41.6	3.8	0.6	8.2	0.3	
36	53.4	35.8	3.2	0.7	6.7	0.2	
37	50.4	42.7	3.1	0.8	2.7	0.4	
38	48.2	37.1	3.2	0.6	10.6	0.3	
39	48.6	39.1	3.0	0.4	8.5	0.3	
40	38.4	48.0	3.7	0.4	9.0	0.6	
Mean	47.63	41.20	3.47	0.61	6.73	0.37	
SD	4.39	4.79	0.60	0.17	3.16	0.13	
N	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Haematological Parameters					
		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
<b>Group 3: 10 µg/ animal BNT162a1</b>							
61	34.5	54.9	5.2	0.4	4.4	0.6	
62	46.3	46.3	1.8	0.9	4.3	0.4	
63	37.2	54.0	4.4	0.7	3.1	0.5	
64	38.4	53.0	5.2	0.8	2.3	0.5	
65	33.8	57.2	5.2	1.5	1.8	0.4	
66	43.6	49.9	2.0	0.6	3.3	0.6	
67	34.7	57.0	4.1	0.8	3.1	0.4	
68	36.5	54.8	4.0	0.4	3.9	0.4	
69	30.4	58.2	5.6	0.8	4.6	0.4	
70	30.2	62.9	4.3	0.6	1.7	0.4	
Mean	36.56	54.82	4.18	0.75	3.25	0.46	
SD	5.18	4.57	1.32	0.31	1.06	0.08	
N	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Haematological Parameters					
		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
<b>Group 4: 30 µg/ animal BNT162b1</b>							
91	43.6	46.9	6.0	1.3	1.8	0.4	
92	35.6	56.3	5.1	1.6	1.1	0.4	
93	40.1	50.7	5.5	1.6	1.7	0.4	
94	48.8	45.4	2.5	1.5	1.5	0.3	
95	41.6	50.3	4.5	1.8	1.4	0.4	
96	34.2	58.1	4.0	1.2	1.9	0.7	
97	30.9	62.1	3.1	1.4	2.2	0.3	
98	48.7	45.8	2.1	1.5	1.5	0.3	
99	48.6	41.3	5.9	2.2	1.7	0.4	
100	34.3	56.9	4.8	2.3	1.3	0.5	
Mean	40.64	51.38	4.35	1.64	1.61	0.41	
SD	6.72	6.71	1.39	0.36	0.32	0.12	
N	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Haematological Parameters					
		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
<b>Group 5: 100 µg/ animal BNT162b1</b>							
121	48.2	42.7	3.1	2.6	3.1	3.1	0.3
122	53.8	35.6	3.7	3.4	3.1	0.4	
123	47.2	43.5	3.8	1.7	3.3	0.5	
124	43.0	47.3	5.0	2.4	1.9	0.4	
125	49.3	41.6	3.8	2.7	2.3	0.3	
126	58.8	28.9	2.9	2.1	6.8	0.4	
127	39.1	52.2	3.6	1.7	3.1	0.4	
128	47.9	43.4	3.7	1.3	3.4	0.3	
129	46.8	45.8	1.9	1.6	3.5	0.4	
130	35.3	57.2	1.9	2.6	2.7	0.3	
Mean	46.94	43.82	3.34	2.21	3.32	0.37	
SD	6.74	7.90	0.94	0.64	1.32	0.07	
N	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Haematological Parameters					
		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
<b>Group 7: 100 µg/ animal BNT162b2</b>							
181	58.6	32.4	3.3	2.2	3.3	0.2	
182	46.6	48.2	0.9	2.4	1.7	0.2	
183	49.6	39.9	3.4	3.1	3.5	0.4	
184	54.0	35.3	1.6	3.1	5.6	0.4	
185	50.3	41.4	1.2	3.0	3.5	0.6	
186	53.0	40.2	2.7	1.8	2.0	0.2	
187	54.4	35.6	3.6	3.7	2.5	0.3	
188	53.2	38.9	2.9	2.6	2.1	0.4	
189	49.5	40.7	3.3	4.1	2.1	0.3	
190	49.9	39.2	2.4	2.3	5.8	0.4	
Mean	51.91	39.18	2.53	2.83	3.21	0.34	
SD	3.40	4.27	0.98	0.71	1.46	0.13	
N	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 31 Relative to Start Date	Haematological Parameters					
Group 6: 30 µg/ animal BNT162c1		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
161	23.7	69.9	3.6	1.5	1.0	0.3	
162	22.7	72.4	2.6	1.5	0.5	0.2	
163	21.0	73.1	3.3	1.7	0.9	0.1	
164	20.0	73.4	3.7	1.7	0.9	0.3	
165	18.1	77.1	2.5	1.3	0.8	0.2	
Mean	21.10	73.18	3.14	1.54	0.82	0.22	
SD	2.21	2.59	0.56	0.17	0.19	0.08	
N	5	5	5	5	5	5	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male Day: 38 Relative to Start Date		Haematological Parameters					
Group 1: Control		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
11	18.0	75.1	3.6	2.0	1.1	0.3	
12	13.0	80.9	3.0	1.9	0.9	0.3	
13	20.9	70.7	4.6	2.6	1.0	0.3	
14	18.5	76.2	2.7	0.9	1.5	0.2	
15	17.3	77.2	2.7	1.5	0.9	0.3	
Mean	17.54	76.02	3.32	1.78	1.08	0.28	
SD	2.88	3.69	0.80	0.63	0.25	0.04	
N	5	5	5	5	5	5	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Haematological Parameters					
Group 2: 30 µg/ animal BNT162a1		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
41	14.1	78.7	3.5	2.2	1.2	0.2	
42	18.9	76.0	2.9	1.2	0.9	0.2	
43	14.2	77.2	5.0	1.3	2.0	0.3	
44	16.0	76.9	3.6	1.7	1.4	0.4	
45	13.1	80.1	3.7	1.0	1.8	0.4	
Mean	15.26	77.78	3.74	1.48	1.46	0.30	
SD	2.29	1.62	0.77	0.48	0.44	0.10	
N	5	5	5	5	5	5	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Haematological Parameters					
Group 3: 10 µg/ animal BNT162a1		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
71	10.8	84.7	2.1	0.9	1.2	0.3	
72	19.7	73.7	4.4	1.2	0.8	0.2	
73	17.5	76.4	3.1	2.1	0.7	0.2	
74	16.2	78.3	2.9	1.4	0.9	0.2	
75	14.5	79.8	2.4	2.1	1.0	0.1	
Mean	15.74	78.58	2.98	1.54	0.92	0.20	
SD	3.35	4.11	0.89	0.54	0.19	0.07	
N	5	5	5	5	5	5	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Haematological Parameters					
Group 4: 30 µg/ animal BNT162b1		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
101	21.6	70.8	4.7	1.7	0.9	0.3	
102	28.3	65.7	3.3	1.9	0.6	0.2	
103	13.9	78.2	4.1	2.6	1.0	0.3	
104	15.1	79.0	2.5	2.0	1.1	0.3	
105	20.8	72.7	3.1	1.9	1.4	0.2	
Mean	19.94	73.28	3.54	2.02	1.00	0.26	
SD	5.77	5.50	0.86	0.34	0.29	0.05	
N	5	5	5	5	5	5	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Haematological Parameters					
Group 5: 100 µg/ animal BNT162b1		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
131	25.6	68.3	2.3	2.8	0.7	0.4	
132	20.1	74.6	3.2	0.9	0.9	0.2	
133	14.6	79.8	2.3	1.7	1.2	0.3	
134	18.8	76.3	2.3	1.6	0.8	0.2	
135	20.2	75.1	2.5	1.4	0.7	0.1	
Mean	19.86	74.82	2.52	1.68	0.86	0.24	
SD	3.93	4.17	0.39	0.70	0.21	0.11	
N	5	5	5	5	5	5	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Haematological Parameters					
Group 7: 100 µg/ animal BNT162b2		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
191	28.5	64.7	3.9	2.1	0.6	0.3	
192	15.5	78.2	2.1	2.4	1.5	0.3	
193	20.2	72.9	4.0	1.8	0.8	0.3	
194	11.3	82.3	3.0	1.6	1.6	0.2	
195	14.2	81.1	2.5	0.9	1.0	0.3	
Mean	17.94	75.84	3.10	1.76	1.10	0.28	
SD	6.72	7.21	0.84	0.57	0.44	0.04	
N	5	5	5	5	5	5	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Haematological Parameters					Rat
Group 1: Control		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)	Baso (x10E3/µL)
1	1.03	6.05	0.22	0.11	0.06	0.02	
2	1.74	6.89	0.35	0.14	0.08		0.02
3	1.20	6.67	0.20	0.09	0.10		0.02
4	1.51	5.23	0.23	0.13	0.14		0.01
5	2.55	11.17	0.45	0.15	0.11		0.05
11	1.53	6.99	0.29	0.17	0.06		0.02
12	1.56	7.25	0.29	0.14	0.07		0.02
13	1.72	8.62	0.45	0.15	0.10		0.04
14	1.08	7.40	0.18	0.06	0.10		0.03
15	1.07	7.11	0.26	0.07	0.07		0.03
Mean	1.499	7.338	0.292	0.121	0.089		0.026
SD	0.458	1.608	0.097	0.037	0.026		0.012
N	10	10	10	10	10		10

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Haematological Parameters					Rat
Group 2: 30 µg/ animal BNT162a1		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)	Baso (x10E3/µL)
31	4.01	10.21	0.43	0.10	0.84	0.06	
32	2.60	5.68	0.22	0.06	0.18	0.02	
33	1.96	5.17	0.18	0.10	0.27	0.01	
34	3.29	6.68	0.38	0.16	0.76	0.03	
35	4.27	6.84	0.31	0.12	0.76	0.05	
41	3.32	6.76	0.53	0.17	1.14	0.04	
42	4.25	6.36	0.54	0.09	0.86	0.05	
43	4.39	9.09	0.63	0.22	0.67	0.06	
44	3.93	7.32	0.48	0.13	0.82	0.04	
45	2.28	6.76	0.36	0.06	0.33	0.02	
Mean	3.430	7.087	0.406	0.121	0.663	0.038	
SD	0.888	1.507	0.144	0.051	0.305	0.018	
N	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Haematological Parameters				
Group 3: 10 µg/ animal		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)
61	1.22	7.68	0.29	0.10	0.16	0.05
62	1.32	6.96	0.23	0.12	0.26	0.03
63	1.65	6.39	0.24	0.15	0.16	0.04
64	2.22	11.37	0.48	0.17	0.34	0.09
65	1.74	6.58	0.37	0.15	0.24	0.04
71	1.09	9.62	0.25	0.05	0.20	0.05
72	1.23	7.97	0.34	0.07	0.34	0.03
73	1.08	9.41	0.23	0.10	0.18	0.06
74	1.28	10.42	0.28	0.11	0.15	0.05
75	1.31	8.39	0.25	0.17	0.16	0.03
Mean	1.414	8.479	0.296	0.119	0.219	0.047
SD	0.355	1.682	0.080	0.041	0.073	0.018
N	10	10	10	10	10	10

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Haematological Parameters					
		Group 4: 30 µg/ animal BNT162b1	Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)
91		1.26	8.09	0.30	0.15	0.21	0.03
92		0.98	7.87	0.19	0.06	0.09	0.03
93		1.24	8.46	0.31	0.09	0.16	0.05
94		2.17	10.65	0.28	0.07	0.33	0.06
95		1.57	10.62	0.25	0.14	0.18	0.05
101		2.10	9.09	0.39	0.14	0.09	0.04
102		1.59	5.67	0.17	0.19	0.09	0.02
103		1.02	6.10	0.22	0.16	0.13	0.02
104		1.28	7.58	0.24	0.14	0.11	0.03
105		1.43	5.63	0.20	0.10	0.07	0.02
Mean		1.464	7.976	0.255	0.124	0.146	0.035
SD		0.407	1.830	0.067	0.042	0.079	0.014
N		10	10	10	10	10	10

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Rat					
		Haematological Parameters					
Group 5: 100 µg/ animal BNT162b1		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)	Baso (x10E3/µL)
121	1.53	9.79	0.20	0.14	0.28	0.06	
122	0.94	5.82	0.15	0.11	0.10	0.02	
123	1.60	11.64	0.24	0.09	0.35	0.07	
124	1.66	8.18	0.32	0.15	0.30	0.05	
125	0.90	8.53	0.10	0.10	0.13	0.02	
131	1.88	12.34	0.35	0.25	0.19	0.06	
132	1.00	6.65	0.18	0.04	0.38	0.03	
133	1.09	8.83	0.17	0.08	0.17	0.02	
134	1.21	9.76	0.18	0.12	0.14	0.05	
135	1.36	8.42	0.20	0.11	0.20	0.04	
Mean	1.317	8.996	0.209	0.119	0.224	0.042	
SD	0.340	2.006	0.076	0.055	0.097	0.019	
N	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Haematological Parameters					Rat
Group 6: 30 µg/ animal		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)	Baso (x10E3/µL)
151	1.91	9.06	0.44	0.11	0.25	0.410	0.05
152	3.29	10.48	0.78	0.10	0.46	0.210	0.08
153	2.95	10.77	0.24	0.09	0.48	10	0.07
154	2.44	7.47	0.42	0.06	0.91	0.04	0.04
155	2.93	12.66	0.38	0.14	0.56	0.10	0.10
161	2.24	8.20	0.48	0.13	0.25	0.05	0.05
162	2.27	7.05	0.30	0.09	0.22	0.04	0.04
163	2.80	9.08	0.31	0.12	0.36	0.06	0.06
164	2.60	10.07	0.30	0.05	0.35	0.07	0.07
165	1.81	9.09	0.40	0.08	0.26	10	0.04
Mean	2.524	9.393	0.405	0.097	0.410	0.060	
SD	0.478	1.671	0.152	0.029	0.210	0.020	
N	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Rat					
		Haematological Parameters					
Group 7: 100 µg/ animal BNT162b2		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)	Baso (x10E3/µL)
181	2.23	7.92	0.18	0.10	0.32	0.05	
182	0.86	11.91	0.16	0.04	0.24	0.06	
183	1.99	11.40	0.22	0.08	0.47	0.08	
184	1.97	10.08	0.25	0.15	0.41	0.06	
185	1.17	9.17	0.21	0.07	0.27	0.06	
191	3.29	7.40	0.34	0.17	0.52	0.04	
192	2.76	10.56	0.36	0.24	0.39	0.08	
193	2.57	9.29	0.41	0.08	0.30	0.08	
194	1.85	9.70	0.30	0.09	0.32	0.06	
195	1.29	12.96	0.30	0.08	0.28	0.08	
Mean	1.998	10.039	0.273	0.110	0.352	0.065	
SD	0.755	1.733	0.082	0.059	0.092	0.014	
N	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 10 Relative to Start Date	Haematological Parameters					Rat
Group 6: 30 µg/ animal		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)	Baso (x10E3/µL)
151	6.69	5.57	0.30	0.05	0.89	0.04	
152	11.39 I	15.78 I	1.07 I	0.13 I	0.86 I	0.31 I	
153	10.89	8.79	0.33	0.12	1.47	0.08	
154	6.68	7.30	0.87	0.06	1.89	0.07	
155	8.97	11.71	0.51	0.07	1.97	0.10	
156	7.73	8.11	0.64	0.10	1.14	0.04	
157	10.67	5.50	0.74	0.15	2.00	0.07	
158	9.50	6.47	0.56	0.05	1.13	0.07	
159	7.19	8.48	0.68	0.13	1.56	0.11	
160	8.22	13.39	0.62	0.08	0.93	0.13	
Mean	8.793	9.110	0.632	0.094	1.384	0.102	
SD	1.767	3.446	0.232	0.037	0.455	0.078	
N	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Rat				
Group 1: Control		Haematological Parameters				Baso (x10E3/µL)
		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	
1	1.04	6.73	0.29	0.11	0.09	0.02
2	1.72	5.18	0.25	0.11	0.04	0.02
3	0.90	4.85	0.28	0.11	0.06	0.02
4	1.60	6.08	0.26	0.14	0.10	0.02
5	3.13	6.89	0.43	0.09	0.08	0.03
6	0.83	7.25	0.18	0.11	0.08	0.03
7	1.92	11.44	0.52	0.11	0.22	0.06
8	1.54	7.19	0.29	0.09	0.07	0.03
9	0.99	9.74	0.36	0.12	0.10	0.05
10	0.91	5.59	0.22	0.10	0.04	0.02
Mean	1.458	7.094	0.308	0.109	0.088	0.030
SD	0.707	2.057	0.102	0.014	0.051	0.014
N	10	10	10	10	10	10

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Haematological Parameters					Rat
Group 2: 30 µg/ animal		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)	Baso (x10E3/µL)
31	9.88	9.07	0.64	0.11	2.21	0.10	
32	4.71	4.82	0.30	0.05	0.18	0.03	
33	5.73	5.44	0.49	0.09	0.38	0.04	
34	10.94	6.98	0.99	0.18	1.33	0.09	
35	6.83	6.27	0.58	0.10	1.24	0.05	
36	7.95	5.34	0.48	0.11	0.99	0.03	
37	7.84	6.64	0.48	0.12	0.42	0.07	
38	8.13	6.27	0.53	0.11	1.79	0.05	
39	7.98	6.42	0.49	0.07	1.40	0.06	
40	7.37	9.20	0.71	0.07	1.73	0.11	
Mean	7.736	6.645	0.569	0.101	1.167	0.063	
SD	1.803	1.466	0.184	0.036	0.672	0.029	
N	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Haematological Parameters					Rat
Group 3: 10 µg/ animal		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)	Baso (x10E3/µL)
61	5.81	9.22	0.87	0.07	0.74	0.10	
62	5.60	5.59	0.22	0.10	0.52	0.05	
63	5.39	7.83	0.64	0.10	0.45	0.08	
64	6.22	8.60	0.84	0.13	0.37	0.07	
65	3.54	5.99	0.54	0.16	0.19	0.04	
66	5.88	6.73	0.27	0.09	0.45	0.08	
67	5.66	9.31	0.67	0.13	0.50	0.07	
68	5.79	8.69	0.63	0.07	0.63	0.07	
69	5.26	10.05	0.97	0.13	0.80	0.07	
70	4.38	9.15	0.62	0.08	0.24	0.06	
Mean	5.353	8.116	0.627	0.106	0.489	0.069	
SD	0.805	1.525	0.241	0.030	0.197	0.017	
N	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Haematological Parameters					Rat
Group 4: 30 µg/ animal BNT162b1		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)	Baso (x10E3/µL)
91	7.18	7.71	0.98	0.21	0.30	0.07	
92	4.23	6.70	0.60	0.19	0.13	0.05	
93	5.28	6.69	0.72	0.20	0.23	0.05	
94	8.12	7.55	0.42	0.25	0.24	0.05	
95	7.23	8.74	0.77	0.32	0.25	0.06	
96	7.80	13.24	0.91	0.26	0.43	0.15	
97	3.95	7.93	0.40	0.18	0.28	0.04	
98	6.26	5.88	0.27	0.20	0.19	0.04	
99	4.37	3.72	0.53	0.20	0.15	0.03	
100	4.51	7.48	0.63	0.30	0.17	0.06	
Mean	5.893	7.564	0.623	0.231	0.237	0.060	
SD	1.610	2.424	0.227	0.049	0.088	0.034	
N	10	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Haematological Parameters					Rat
Group 5: 100 µg/ animal BNT162b1		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)	Baso (x10E3/µL)
121	7.65	6.77	0.49	0.41	0.49	0.49	0.05
122	7.55	4.99	0.52	0.47	0.44	0.44	0.05
123	9.16	8.44	0.74	0.32	0.65	0.65	0.09
124	6.57	7.21	0.77	0.37	0.29	0.29	0.06
125	8.42	7.09	0.64	0.47	0.39	0.39	0.06
126	15.75	7.75	0.77	0.56	1.83	1.83	0.12
127	5.01	6.68	0.46	0.22	0.39	0.39	0.05
128	6.79	6.16	0.52	0.18	0.49	0.49	0.04
129	8.98	8.77	0.36	0.31	0.67	0.67	0.07
130	3.92	6.35	0.21	0.29	0.30	0.30	0.04
Mean	7.980	7.021	0.548	0.360	0.594	0.594	0.063
SD	3.197	1.113	0.184	0.119	0.453	0.453	0.025
N	10	10	10	10	10	10	10

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Haematological Parameters					
		Group 7: 100 µg/ animal BNT162b2	Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)
181	9.59	5.30	0.54	0.35	0.54	0.04	
182	6.88	7.11	0.13	0.35	0.26	0.03	
183	12.85	10.34	0.89	0.81	0.91	0.10	
184	12.17	7.96	0.36	0.70	1.25	0.09	
185	11.50	9.46	0.27	0.68	0.79	0.15	
186	7.55	5.73	0.39	0.26	0.29	0.03	
187	11.35	7.42	0.74	0.76	0.52	0.07	
188	8.63	6.31	0.47	0.42	0.34	0.06	
189	7.91	6.51	0.53	0.65	0.34	0.05	
190	14.48	11.38	0.70	0.68	1.67	0.12	
Mean	10.291	7.752	0.502	0.566	0.691	0.074	
SD	2.545	2.029	0.230	0.199	0.468	0.040	
N	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 31 Relative to Start Date	Haematological Parameters				
Group 6: 30 µg/ animal BNT162c1		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)
161	2.08	6.13	0.31	0.13	0.08	0.03
162	1.47	4.69	0.17	0.10	0.04	0.01
163	1.61	5.60	0.25	0.13	0.07	0.01
164	0.97	3.55	0.18	0.08	0.05	0.02
165	1.22	5.20	0.17	0.09	0.06	0.01
Mean	1.470	5.034	0.216	0.106	0.060	0.016
SD	0.420	0.984	0.062	0.023	0.016	0.009
N	5	5	5	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Haematological Parameters				
Group 1: Control		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)
11	1.88	7.86	0.38	0.21	0.11	0.03
12	1.28	7.95	0.29	0.18	0.09	0.03
13	3.03	10.26	0.66	0.38	0.14	0.05
14	1.51	6.19	0.22	0.08	0.12	0.01
15	1.33	5.93	0.21	0.12	0.07	0.02
Mean	1.806	7.638	0.352	0.194	0.106	0.028
SD	0.724	1.735	0.185	0.116	0.027	0.015
N	5	5	5	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Haematological Parameters				
Group 2: 30 µg/ animal BNT162a1		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)
						Baso (x10E3/µL)
41	1.26	7.02	0.31	0.20	0.11	0.02
42	1.41	5.66	0.21	0.09	0.06	0.02
43	1.47	8.00	0.52	0.13	0.21	0.03
44	1.80	8.66	0.41	0.19	0.16	0.04
45	1.08	6.63	0.30	0.08	0.15	0.03
Mean	1.404	7.194	0.350	0.138	0.138	0.028
SD	0.268	1.173	0.119	0.055	0.056	0.008
N	5	5	5	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Haematological Parameters				
Group 3: 10 µg/ animal BNT162a1		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)
71	1.41	11.07	0.28	0.12	0.16	0.04
72	1.49	5.57	0.33	0.09	0.06	0.01
73	1.39	6.08	0.25	0.16	0.06	0.01
74	1.65	7.99	0.30	0.14	0.09	0.02
75	1.11	6.08	0.18	0.16	0.08	0.01
Mean	1.410	7.358	0.268	0.134	0.090	0.018
SD	0.196	2.272	0.057	0.030	0.041	0.013
N	5	5	5	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Haematological Parameters				
Group 4: 30 µg/ animal BNT162b1		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)
101	2.09	6.87	0.45	0.16	0.09	0.03
102	1.44	3.33	0.17	0.09	0.03	0.01
103	1.15	6.50	0.34	0.21	0.08	0.02
104	1.65	8.60	0.27	0.22	0.12	0.03
105	1.32	4.62	0.20	0.12	0.09	0.01
Mean	1.530	5.984	0.286	0.160	0.082	0.020
SD	0.362	2.049	0.113	0.056	0.033	0.010
N	5	5	5	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Haematological Parameters				
Group 5: 100 µg/ animal BNT162b1		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)
131	2.57	6.85	0.23	0.28	0.07	0.04
132	1.47	5.46	0.23	0.07	0.06	0.02
133	1.48	8.08	0.23	0.17	0.12	0.03
134	1.62	6.56	0.20	0.14	0.07	0.01
135	1.85	6.89	0.23	0.13	0.06	0.01
Mean	1.798	6.768	0.224	0.158	0.076	0.022
SD	0.458	0.935	0.013	0.077	0.025	0.013
N	5	5	5	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Haematological Parameters				
Group 7: 100 µg/ animal BNT162b2		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)
191	2.52	5.74	0.35	0.18	0.05	0.02
192	1.96	9.88	0.27	0.31	0.19	0.04
193	1.93	6.95	0.38	0.18	0.08	0.03
194	0.81	5.92	0.21	0.11	0.12	0.01
195	1.93	11.04	0.34	0.12	0.13	0.05
Mean	1.830	7.906	0.310	0.180	0.114	0.030
SD	0.623	2.412	0.069	0.080	0.053	0.016
N	5	5	5	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Haematological Parameters			Rat
Group 1: Control		MCV (fL)	MCH (fmol)	MCHC (mmol/L)	
1	56.8		1.16	20.34	
2	58.9		1.22	20.67	
3	58.7		1.19	20.28	
4	58.2		1.19	20.49	
5	54.3		1.11	20.52	
11	55.4		1.14	20.62	
12	61.8		1.26	20.32	
13	56.5		1.17	20.62	
14	57.8		1.20	20.66	
15	59.0		1.20	20.38	
Mean	57.74		1.184	20.490	
SD	2.12		0.042	0.150	
N	10		10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Haematological Parameters			Rat
Group 2: 30 µg/ animal		MCV (fL)	MCH (fmol)	MCHC (mmol/L)	
31	57.1		1.17	20.57	
32	54.2		1.12	20.75	
33	54.4		1.15	21.20	
34	54.5		1.15	21.05	
35	56.4		1.16	20.66	
41	58.8		1.23	20.95	
42	56.4		1.18	20.98	
43	57.4		1.18	20.49	
44	56.2		1.16	20.58	
45	57.0		1.17	20.59	
Mean	56.24		1.167	20.782	
SD	1.48		0.028	0.244	
N	10		10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Haematological Parameters			Rat
Group 3: 10 µg/ animal		MCV (fL)	MCH (fmol)	MCHC (mmol/L)	
61	55.0		1.14	20.64	
62	54.9		1.12	20.49	
63	53.7		1.14	21.28	
64	54.0		1.15	21.25	
65	57.1		1.21	21.21	
71	56.6		1.20	21.13	
72	54.6		1.16	21.21	
73	56.5		1.18	20.92	
74	55.1		1.15	20.90	
75	54.4		1.16	21.31	
Mean	55.19		1.161	21.034	
SD	1.16		0.028	0.286	
N	10		10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Haematological Parameters			Rat
Group 4: 30 µg/ animal BNT162b1		MCV (fL)	MCH (fmol)	MCHC (mmol/L)	
91	56.3		1.15	20.35	
92	57.2		1.15	20.15	
93	54.4		1.14	20.92	
94	55.5		1.13	20.36	
95	58.0		1.18	20.38	
101	57.3		1.17	20.50	
102	57.8		1.16	20.10	
103	56.9		1.15	20.20	
104	54.6		1.11	20.35	
105	59.3		1.20	20.31	
Mean	56.73		1.154	20.362	
SD	1.55		0.025	0.229	
N	10		10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Haematological Parameters			Rat
Group 5: 100 µg/ animal BNT162b1		MCV (fL)	MCH (fmol)	MCHC (mmol/L)	
121	54.1		1.13	20.95	
122	54.1		1.14	21.06	
123	55.8		1.16	20.71	
124	55.5		1.19	21.36	
125	55.0		1.15	20.90	
131	55.3		1.18	21.42	
132	54.6		1.12	20.60	
133	53.5		1.13	21.15	
134	53.0		1.12	21.20	
135	55.4		1.17	21.04	
Mean	54.63		1.149	21.039	
SD	0.93		0.025	0.261	
N	10		10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Haematological Parameters			Rat
Group 6: 30 µg/ animal		MCV (fL)	MCH (fmol)	MCHC (mmol/L)	
151	55.2		1.17	21.14	
152	56.0		1.19	21.22	
153	54.2		1.14	20.94	
154	55.5		1.18	21.16	
155	56.7		1.16	20.51	
161	55.0		1.14	20.73	
162	56.1		1.16	20.70	
163	53.0		1.12	21.11	
164	52.5		1.11	21.21	
165	53.3		1.13	21.18	
Mean	54.75		1.150	20.990	
SD	1.44		0.026	0.256	
N	10		10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Haematological Parameters			Rat
Group 7: 100 µg/ animal BNT162b2		MCV (fL)	MCH (fmol)	MCHC (mmol/L)	
181	52.4		1.11	21.18	
182	57.1		1.19	20.83	
183	54.4		1.15	21.07	
184	56.2		1.19	21.14	
185	55.1		1.17	21.28	
191	53.8		1.15	21.46	
192	54.0		1.17	21.65	
193	55.8		1.17	20.96	
194	53.7		1.16	21.58	
195	54.3		1.16	21.37	
Mean	54.68		1.162	21.252	
SD	1.38		0.023	0.266	
N	10		10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 10 Relative to Start Date	Haematological Parameters						Rat
Group 6: 30 µg/ animal		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)	
151	10.2	18.6	290.0	54.6	1.15	21.07		
152	9.7	17.1	304.0	55.5	1.16	20.95	I	
153	10.1	18.5	326.0	54.0	1.13	20.94		
154	10.2	17.2	299.0	54.6	1.14	20.78		
155	9.4	18.0	292.0	56.7	1.15	20.37		
156	9.5	19.3	327.0	53.4	1.13	21.15		
157	10.3	17.4	310.0	51.9	1.10	21.23		
158	10.5	18.8	281.0	52.6	1.11	21.05		
159	9.7	18.7	275.0	51.7	1.11	21.45		
160	9.5	18.9	278.0	53.0	1.15	21.71		
Mean	9.91	18.25	298.20	53.80	1.133	21.070		
SD	0.39	0.78	18.63	1.59	0.021	0.364		
N	10	10	10	10	10	10		

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male Day: 17 Relative to Start Date		Rat					
		Haematological Parameters					
Group 1: Control		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)
1	9.8	14.6	97.9	56.0	1.13	20.16	
2	NV !	NV !	117.0	58.1	1.17	20.05	
3	9.2	18.6		58.4	1.17	19.96	
4	9.7	15.4		55.4	1.14	20.62	
5	9.3	18.2		54.0	1.09	20.20	
6	9.7	14.3		57.5	1.17	20.35	
7	9.6	14.3		55.0	1.15	20.83	
8	9.4	14.1	99.9	58.7	1.19	20.21	
9	9.6	14.2	88.3	57.8	1.17	20.27	
10	9.8	14.2	108.0	55.2	1.13	20.54	
Mean	9.57	15.32	106.12	56.61	1.151	20.319	
SD	0.22	1.79	9.55	1.67	0.029	0.270	
N	9	9	9	10	10	10	

!= Result Comment

Three LNP-Formulated  
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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Rat					
Group 2: 30 µg/ animal BNT162a1		Haematological Parameters					
		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)
31	8.4	18.0	301.0	55.9	1.14	20.33	
32	9.5	16.7	292.0	54.4	1.09	20.02	
33	8.8	14.6	339.0	55.3	1.12	20.29	
34	10.5	18.5	316.0	53.7	1.11	20.59	
35	9.5	18.1	301.0	54.6	1.13	20.69	
36	9.5	17.5	335.0	57.2	1.15	20.10	
37	9.9	17.9	322.0	54.9	1.13	20.55	
38	10.1	19.5	263.0	55.3	1.12	20.28	
39	9.4	19.2	326.0	54.3	1.11	20.37	
40	9.3	17.0	296.0	54.0	1.12	20.81	
Mean	9.49	17.70	309.10	54.96	1.122	20.403	
SD	0.60	1.40	23.06	1.03	0.017	0.253	
N	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Haematological Parameters					
Group 3: 10 µg/ animal BNT162a1		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)
61	10.1	19.5	248.0	52.4	1.10	21.07	
62	NV !	NV !	253.0	53.2	1.10	20.65	
63	9.9	20.9		50.6	1.08		21.30
64	9.2	17.3	296.0	52.8	1.11	20.94	
65	10.1	16.9	271.0	53.9	1.14	21.18	
66	9.2	18.3	287.0	51.2	1.09	21.29	
67	9.6	17.0	254.0	53.3	1.13	21.20	
68	10.1	17.7	308.0	49.8	1.07	21.41	
69	9.6	17.5	275.0	54.1	1.16	21.45	
70	9.5	17.9	247.0	53.5	1.12	21.04	
Mean	9.70	18.11	271.00	52.48	1.110	21.153	
SD	0.37	1.31	22.32	1.47	0.028	0.239	
N	9	9	9	10	10	10	

!= Result Comment

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Rat					
		Haematological Parameters					
Group 4: 30 µg/ animal BNT162b1		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)
91	9.4	14.5	254.0	54.8	1.10	20.07	
92	10.2	15.2	224.0	55.4	1.10	19.89	
93	9.7	14.1	267.0	54.7	1.11	20.23	
94	9.7	15.3	277.0	54.4	1.09	20.06	
95	9.9	14.5	274.0	55.8	1.14	20.37	
96	9.5	14.8	298.0	55.1	1.14	20.63	
97	9.5	14.8	266.0	55.3	1.14	20.55	
98	9.2	14.1	306.0	56.1	1.14	20.39	
99	9.4	13.6	270.0	56.2	1.10	19.64	
100	9.1	15.0	278.0	52.9	1.07	20.34	
Mean	9.56	14.59	271.40	55.07	1.113	20.217	
SD	0.33	0.54	22.57	0.97	0.025	0.305	
N	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Haematological Parameters					
Group 5: 100 µg/ animal BNT162b1		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)
121	9.8	16.8	322.0	51.5	1.08	21.02	
122	9.4	17.3	304.0	51.2	1.07	20.90	
123	9.4	16.3	293.0	53.9	1.13	20.89	
124	9.6	16.3	299.0	53.1	1.10	20.78	
125	8.8	17.9	320.0	52.0	1.10	21.10	
126	9.9	16.2	319.0	50.1	1.09	21.83	
127	9.7	17.6	298.0	52.1	1.09	20.99	
128	9.4	16.5	303.0	50.7	1.06	20.89	
129	9.1	18.8	316.0	50.3	1.06	21.06	
130	8.2	14.5	326.0	52.0	1.07	20.52	
Mean	9.33	16.82	310.00	51.69	1.085	20.998	
SD	0.51	1.17	11.81	1.20	0.022	0.336	
N	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Haematological Parameters					
Group 7: 100 µg/ animal BNT162b2		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)
181	9.3	16.9	285.0	50.1	1.05	21.05	
182	10.2	17.6	354.0	54.1	1.13	20.94	
183	9.5	16.7	354.0	52.0	1.08	20.81	
184	9.3	16.5	302.0	53.1	1.12	21.10	
185	9.0	16.7	318.0	53.0	1.11	21.02	
186	9.5	17.7	339.0	50.4	1.07	21.31	
187	9.7	17.9	324.0	49.6	1.05	21.20	
188	9.6	17.2	311.0	51.2	1.06	20.73	
189	8.5	20.7	362.0	51.9	1.08	20.78	
190	9.2	17.0	290.0	51.8	1.07	20.69	
Mean	9.38	17.49	323.90	51.72	1.082	20.963	
SD	0.45	1.22	27.56	1.43	0.029	0.209	
N	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 31 Relative to Start Date	Haematological Parameters					
Group 6: 30 µg/ animal BNT162c1		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)
161	10.3	14.3	109.0	50.5	1.04	20.69	
162	10.0	13.8	104.0	51.4	1.07	20.83	
163	9.9	13.8	100.0	49.9	1.04	20.85	
164	9.5	16.3	231.0	49.9	1.00	20.12	
165	9.1	14.7	160.0	50.4	1.04	20.65	
Mean	9.76	14.58	140.80	50.42	1.038	20.628	
SD	0.47	1.03	55.98	0.61	0.025	0.297	
N	5	5	5	5	5	5	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male Day: 38 Relative to Start Date		Haematological Parameters					
Group 1: Control		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)
11	9.8	14.9	98.7	49.3	1.01	20.42	
12	9.6	14.7	105.0	54.3	1.10	20.27	
13	9.2	16.0	281.0	52.6	1.05	19.98	
14	9.0	16.4	143.0	51.5	1.04	20.29	
15	9.5	16.7	194.0	52.3	1.07	20.44	
Mean	9.42	15.74	164.34	52.00	1.054	20.280	
SD	0.32	0.90	75.46	1.82	0.034	0.184	
N	5	5	5	5	5	5	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Haematological Parameters					
Group 2: 30 µg/ animal BNT162a1		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)
41	9.8	16.1	89.4	52.5	1.08	20.49	
42	10.4	16.4	87.3	50.7	1.01	20.00	
43	10.2	16.3	94.9	51.4	1.05	20.36	
44	9.4	14.8	104.0	50.7	1.04	20.48	
45	9.9	15.3	102.0	53.1	1.08	20.26	
Mean	9.94	15.78	95.52	51.68	1.052	20.318	
SD	0.38	0.70	7.40	1.08	0.029	0.201	
N	5	5	5	5	5	5	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Haematological Parameters					
Group 3: 10 µg/ animal BNT162a1		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)
71	9.8	15.1	99.0	51.9	1.07	20.61	
72	9.8	15.0	92.3	49.2	1.02	20.68	
73	9.9	15.5	93.8	51.4	1.05	20.39	
74	9.4	14.8	98.9	51.2	1.03	20.17	
75	9.6	17.8	255.0	51.3	1.03	20.04	
Mean	9.70	15.64	127.80	51.00	1.040	20.378	
SD	0.20	1.23	71.17	1.04	0.020	0.275	
N	5	5	5	5	5	5	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Haematological Parameters					
Group 4: 30 µg/ animal BNT162b1		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)
101	9.9	15.2	119.0	49.6	1.02	20.53	
102	10.1	14.9	101.0	50.7	1.02	20.08	
103	9.9	15.4	91.0	51.1	1.04	20.32	
104	9.9	15.5	107.0	50.0	0.99	19.77	
105	9.6	15.1	96.5	53.8	1.07	19.83	
Mean	9.88	15.22	102.90	51.04	1.028	20.106	
SD	0.18	0.24	10.75	1.65	0.029	0.322	
N	5	5	5	5	5	5	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male Day: 38 Relative to Start Date		Haematological Parameters					
Group 5: 100 µg/ animal BNT162b1		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)
131	9.3	20.2	261.0	51.0	1.03	20.23	
132	9.3	14.8	117.0	50.5	1.02	20.30	
133	10.0	15.6	88.7	48.9	1.01	20.58	
134	9.4	16.8	100.0	50.6	1.02	20.14	
135	10.0	14.9	97.4	50.1	1.02	20.41	
Mean	9.60	16.46	132.82	50.22	1.020	20.332	
SD	0.37	2.24	72.39	0.80	0.007	0.170	
N	5	5	5	5	5	5	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Haematological Parameters					
Group 7: 100 µg/ animal BNT162b2		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)
191	9.0	15.1	102.0	50.3	1.01	20.18	
192	9.9	14.6	91.0	49.1	1.00	20.28	
193	10.0	14.7	101.0	49.8	1.03	20.73	
194	10.0	18.0	93.8	51.0	1.06	20.72	
195	9.1	17.1	131.0	50.6	1.02	20.13	
Mean	9.60	15.90	103.76	50.16	1.024	20.408	
SD	0.50	1.55	15.93	0.74	0.023	0.294	
N	5	5	5	5	5	5	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Haematological Parameters				Rat
Group 1: Control		MPV (fL)	PCT (%)	PDW (%)	RDW (%)	MPC (g/dL)
1	7.1	0.69	63.8	12.1	21.0	
2	9.7	0.85	81.5	12.3	19.6	
3	7.1	0.78	64.2	12.4	20.7	
4	8.0	0.72	63.5	13.6	18.5	
5	7.4	0.76	70.9	12.8	21.6	
11	7.7	0.69	80.0	12.2	21.0	
12	8.6	0.97	60.7	12.9	19.0	
13	8.2	0.87	76.0	12.4	22.3	
14	7.4	0.92	90.6	11.8	22.4	
15	7.9	0.65	63.1	12.3	20.8	
Mean	7.91	0.790	71.43	12.48	20.69	
SD	0.79	0.108	10.12	0.51	1.31	
N	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Haematological Parameters			
Group 2: 30 µg/ animal BNT162a1		MPV (fL)	PCT (%)	PDW (%)	RDW (%)
31	7.9	1.00	86.8	12.7	22.0
32	7.6	0.90	82.0	13.4	21.8
33	7.5	0.73	97.4	12.8	24.0
34	9.0	0.88	89.8	12.9	22.6
35	8.5	0.94	86.2	13.4	22.0
41	7.6	0.83	90.0	13.5	24.1
42	8.3	0.78	93.5	13.3	23.5
43	9.2	0.82	91.6	13.5	21.1
44	8.9	0.82	90.7	13.6	22.1
45	8.0	0.70	85.7	13.4	24.6
Mean	8.25	0.840	89.37	13.25	22.78
SD	0.63	0.092	4.39	0.32	1.18
N	10	10	10	10	10

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Haematological Parameters			
Group 3: 10 µg/ animal BNT162a1		MPV (fL)	PCT (%)	PDW (%)	RDW (%)
61	6.9	0.74	78.9	12.0	24.4
62	6.4	0.93	79.6	12.9	23.7
63	8.3	0.81	93.2	12.0	23.2
64	8.2	0.74	80.1	11.2	21.8
65	7.0	0.74	87.1	12.6	24.1
71	8.0	0.98	91.4	11.9	23.8
72	8.0	0.89	91.7	12.4	23.7
73	7.8	0.88	81.4	12.1	22.2
74	7.5	0.77	76.5	11.7	23.3
75	6.2	0.76	79.0	11.8	24.7
Mean	7.43	0.824	83.89	12.06	23.49
SD	0.76	0.089	6.30	0.48	0.91
N	10	10	10	10	10

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Haematological Parameters				Rat
Group 4: 30 µg/ animal BNT162b1		MPV (fL)	PCT (%)	PDW (%)	RDW (%)	MPC (g/dL)
91	8.0	0.72	78.8	12.9	21.8	
92	9.1	0.87	67.0	12.2	19.5	
93	7.5	0.78	83.7	12.4	21.9	
94	8.0	0.96	79.1	12.7	22.2	
95	9.1	0.91	76.8	13.0	19.9	
101	8.3	0.68	81.8	12.7	23.1	
102	7.7	0.94	62.6	13.2	20.4	
103	7.4	0.73	74.3	14.0	21.7	
104	8.6	0.76	80.8	12.8	20.2	
105	7.8	0.79	69.0	12.9	21.4	
Mean	8.15	0.814	75.39	12.88	21.21	
SD	0.61	0.099	7.01	0.49	1.15	
N	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Haematological Parameters			
Group 5: 100 µg/ animal BNT162b1		MPV (fL)	PCT (%)	PDW (%)	RDW (%)
121	8.5	0.76	91.9	12.5	25.2
122	7.3	0.82	75.6	12.0	23.4
123	8.1	0.99	72.8	12.3	21.7
124	7.4	0.62	89.9	12.4	25.5
125	7.1	0.87	75.9	11.5	22.6
131	7.2	0.85	79.7	11.8	24.8
132	7.5	0.64	70.0	12.5	23.6
133	8.4	0.89	81.3	11.7	21.6
134	8.2	0.84	92.6	12.4	23.2
135	8.1	0.90	84.6	12.3	22.2
Mean	7.78	0.818	81.43	12.14	23.38
SD	0.53	0.115	8.09	0.36	1.41
N	10	10	10	10	10

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Haematological Parameters				Rat
Group 6: 30 µg/ animal BNT162c1		MPV (fL)	PCT (%)	PDW (%)	RDW (%)	MPC (g/dL)
151		7.8	0.83	91.6	12.6	23.7
152		7.2	0.69	74.9	11.8	23.5
153		8.0	0.81	88.7	12.3	23.5
154		9.1	0.88	85.1	12.3	23.8
155		9.1	1.10	94.1	12.7	24.0
161		7.7	1.00	77.8	12.4	23.0
162		7.2	0.90	81.9	12.1	24.2
163		8.5	0.78	98.2	11.9	23.1
164		7.8	1.00	99.2	12.3	23.2
165		7.4	0.77	89.3	11.7	23.8
Mean		7.98	0.876	88.08	12.21	23.58
SD		0.71	0.126	8.19	0.33	0.39
N		10	10	10	10	10

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Haematological Parameters			
Group 7: 100 µg/ animal BNT162b2		MPV (fL)	PCT (%)	PDW (%)	RDW (%)
181	8.2	0.69	97.4	12.8	24.1
182	8.1	0.84	76.9	11.8	21.2
183	9.4	0.88	88.3	12.1	25.5
184	8.2	0.69	97.0	12.0	26.0
185	8.1	0.81	95.8	11.8	25.1
191	8.5	0.75	100.5	11.9	24.7
192	9.0	0.63	88.8	12.2	24.4
193	8.6	0.82	76.9	12.2	22.5
194	7.9	1.04	83.7	11.8	22.9
195	8.8	0.88	85.4	11.7	23.2
Mean	8.48	0.803	89.07	12.03	23.96
SD	0.47	0.119	8.48	0.32	1.49
N	10	10	10	10	10

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 10 Relative to Start Date	Haematological Parameters			
Group 6: 30 µg/ animal BNT162c1		MPV (fL)	PCT (%)	PDW (%)	RDW (%)
151	10.1	0.65	90.3	13.6	21.2
152	10.0 I	0.75 I	99.9 I	12.7 I	23.2 I
153	9.8	0.73	95.5	13.5	21.5
154	10.5	0.72	93.7	13.3	23.1
155	10.2	0.90	93.2	13.2	21.6
156	8.3	0.61	99.3	14.0	24.7
157	10.7	0.62	89.5	13.3	21.1
158	9.3	0.50	88.9	13.0	21.6
159	9.1	0.67	108.8	13.8	24.7
160	7.5	0.58	90.6	12.8	23.4
Mean	9.55	0.673	94.97	13.32	22.61
SD	1.01	0.110	6.21	0.42	1.39
N	10	10	10	10	10

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Haematological Parameters				Rat
Group 1: Control		MPV (fL)	PCT (%)	PDW (%)	RDW (%)	MPC (g/dL)
1	10.1	1.19	52.1	14.4	18.2	
2	12.7	1.01	58.7	15.7	17.2	
3	11.2	1.56	54.9	15.6	17.0	
4	11.8	1.13	60.6	15.0	16.4	
5	10.7	1.35	58.1	16.4	19.1	
6	11.3	1.01	55.5	16.1	18.1	
7	9.7	1.03	58.5	14.4	19.3	
8	10.9	0.96	58.1	15.0	19.3	
9	10.3	1.26	53.3	14.7	18.0	
10	10.4	1.30	56.1	14.4	18.3	
Mean	10.91	1.180	56.59	15.17	18.09	
SD	0.88	0.190	2.67	0.74	0.99	
N	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Haematological Parameters			
Group 2: 30 µg/ animal BNT162a1		MPV (fL)	PCT (%)	PDW (%)	RDW (%)
31	10.9	1.04	62.7	16.0	18.7
32	12.0	1.04	73.6	16.5	19.2
33	10.1	0.72	67.9	16.5	20.9
34	12.8	0.99	73.3	16.4	20.3
35	11.1	1.14	67.9	16.8	19.7
36	12.4	1.06	65.5	17.3	19.0
37	12.2	0.98	72.7	15.6	19.6
38	12.2	0.78	82.6	15.8	21.0
39	12.9	0.68	78.1	15.6	20.2
40	11.3	0.98	64.5	16.2	18.7
Mean	11.79	0.941	70.88	16.27	19.73
SD	0.90	0.157	6.33	0.54	0.85
N	10	10	10	10	10

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Haematological Parameters				Rat
Group 3: 10 µg/ animal BNT162a1		MPV (fL)	PCT (%)	PDW (%)	RDW (%)	MPC (g/dL)
61	9.4	0.66	81.8	13.6	19.9	
62	7.5	0.92	84.8	13.8	21.8	
63	10.1	0.68	86.3	13.3	19.9	
64	8.9	0.68	86.1	13.0	21.3	
65	8.1	0.70	77.4	14.4	21.4	
66	9.2	0.58	87.7	12.0	20.1	
67	8.6	0.59	92.8	13.2	23.1	
68	8.0	0.66	94.4	13.3	22.9	
69	7.9	0.67	82.4	13.5	21.3	
70	9.1	0.76	75.0	13.1	20.4	
Mean	8.68	0.690	84.87	13.32	21.21	
SD	0.81	0.096	6.09	0.62	1.16	
N	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Haematological Parameters			
Group 4: 30 µg/ animal BNT162b1		MPV (fL)	PCT (%)	PDW (%)	RDW (%)
91	11.4	1.00	63.2	17.1	19.4
92	12.3	1.08	57.3	16.9	18.4
93	11.8	1.04	61.0	17.2	17.7
94	11.4	1.50	56.6	17.2	18.5
95	12.6	1.12	60.9	17.1	17.9
96	10.0	0.91	65.7	15.2	20.2
97	11.7	1.25	62.2	15.8	17.9
98	11.9	0.95	60.7	17.0	18.1
99	12.1	0.85	61.4	15.6	19.4
100	10.3	1.02	65.0	16.1	18.9
Mean	11.55	1.072	61.40	16.52	18.64
SD	0.83	0.188	2.91	0.76	0.82
N	10	10	10	10	10

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Haematological Parameters				Rat
		MPV (fL)	PCT (%)	PDW (%)	RDW (%)	
<b>Group 5: 100 µg/ animal BNT162b1</b>						
121	10.0	0.63	88.2	13.4	22.5	
122	9.2	0.61	89.6	13.9	21.8	
123	8.6	0.88	76.7	14.7	21.1	
124	8.4	0.80	78.1	13.7	21.4	
125	8.5	0.75	81.7	12.7	20.2	
126	10.2	0.75	89.3	13.0	22.4	
127	8.3	0.82	86.3	12.6	23.0	
128	9.7	0.69	77.3	13.4	20.5	
129	8.8	0.61	76.2	12.6	21.2	
130	8.7	0.79	88.8	13.2	22.0	
Mean	9.04	0.733	83.22	13.32	21.61	
SD	0.69	0.094	5.76	0.66	0.90	
N	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Haematological Parameters			
Group 7: 100 µg/ animal BNT162b2		MPV (fL)	PCT (%)	PDW (%)	RDW (%)
181	8.9	0.67	80.8	13.5	21.0
182	8.5	0.68	78.6	13.3	20.9
183	10.4	0.68	85.7	13.6	23.2
184	9.9	0.73	86.3	12.8	22.7
185	9.9	0.73	84.9	12.7	21.8
186	8.9	0.52	81.4	13.5	21.7
187	8.6	0.73	85.1	12.4	21.1
188	10.0	1.02	81.3	14.4	20.3
189	9.5	0.69	76.5	13.4	20.1
190	9.0	0.78	84.6	13.9	22.0
Mean	9.36	0.723	82.52	13.35	21.48
SD	0.66	0.125	3.31	0.59	0.99
N	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 31 Relative to Start Date	Haematological Parameters			
Group 6: 30 µg/ animal BNT162c1		MPV (fL)	PCT (%)	PDW (%)	RDW (%)
161	8.4	0.86	68.4	13.8	20.2
162	8.3	0.92	67.0	12.7	19.5
163	7.2	0.62	81.8	12.8	22.1
164	7.8	0.66	67.5	13.0	19.4
165	8.0	0.83	66.1	12.9	19.9
Mean	7.94	0.778	70.16	13.04	20.22
SD	0.48	0.131	6.56	0.44	1.10
N	5	5	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Haematological Parameters			
Group 1: Control		MPV (fL)	PCT (%)	PDW (%)	RDW (%)
11	8.2	0.95	65.2	11.1	19.0
12	9.6	0.90	69.9	11.8	18.2
13	9.6	0.94	67.0	12.5	18.7
14	7.7	0.85	72.5	11.4	20.3
15	9.2	0.69	67.3	10.7	18.3
Mean	8.86	0.866	68.38	11.50	18.90
SD	0.86	0.106	2.85	0.69	0.85
N	5	5	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Haematological Parameters			
Group 2: 30 µg/ animal BNT162a1		MPV (fL)	PCT (%)	PDW (%)	RDW (%)
41	8.5	0.94	62.6	13.7	17.9
42	8.2	0.96	71.8	13.8	19.3
43	7.7	0.90	63.8	13.2	19.5
44	7.7	0.78	70.1	13.1	21.0
45	8.6	0.93	70.2	13.9	20.1
Mean	8.14	0.902	67.70	13.54	19.56
SD	0.43	0.072	4.18	0.36	1.14
N	5	5	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Haematological Parameters			
Group 3: 10 µg/ animal BNT162a1		MPV (fL)	PCT (%)	PDW (%)	RDW (%)
71	7.8	0.96	68.6	13.6	20.6
72	8.2	0.72	84.7	13.3	21.6
73	8.7	0.71	74.8	13.4	18.8
74	8.0	0.91	62.2	13.9	20.1
75	7.3	0.85	61.8	14.1	20.6
Mean	8.00	0.830	70.42	13.66	20.34
SD	0.51	0.112	9.60	0.34	1.02
N	5	5	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Haematological Parameters			
Group 4: 30 µg/ animal BNT162b1		MPV (fL)	PCT (%)	PDW (%)	RDW (%)
101	9.6	0.88	66.0	13.2	19.2
102	8.2	0.71	74.1	13.4	19.9
103	7.2	0.78	68.6	13.3	21.4
104	8.9	0.70	77.9	12.9	18.7
105	8.3	0.86	58.8	14.4	18.9
Mean	8.44	0.786	69.08	13.44	19.62
SD	0.89	0.083	7.39	0.57	1.09
N	5	5	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Haematological Parameters			
Group 5: 100 µg/ animal BNT162b1		MPV (fL)	PCT (%)	PDW (%)	RDW (%)
131	8.3	0.83	60.5	12.7	18.4
132	9.5	0.78	79.4	13.6	18.8
133	7.0	0.69	76.3	13.4	22.2
134	8.2	0.76	69.5	13.8	18.9
135	9.3	0.81	80.9	13.2	19.2
Mean	8.46	0.774	73.32	13.34	19.50
SD	1.00	0.054	8.40	0.42	1.54
N	5	5	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Haematological Parameters			
Group 7: 100 µg/ animal BNT162b2		MPV (fL)	PCT (%)	PDW (%)	RDW (%)
191	8.0	0.74	70.9	12.8	19.5
192	8.3	0.92	77.1	13.6	21.1
193	7.8	0.85	62.6	14.0	20.9
194	8.4	1.03	74.8	12.8	18.5
195	8.3	0.67	60.9	13.1	19.0
Mean	8.16	0.842	69.26	13.26	19.80
SD	0.25	0.143	7.23	0.53	1.15
N	5	5	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female Day: 4 Relative to Start Date		Haematological Parameters						
Group 1: Control		HGB (mmol/L)	RBC (x10E6/ $\mu$ L)	WBC (x10E3/ $\mu$ L)	Reti (%)	Reti (x10E3/ $\mu$ L)	PLT (x10E3/ $\mu$ L)	HCT (%)
		16	8.0	7.01	4.85	3.3	230.3	867
17	9.0	7.70	6.03	2.5	193.1	970	42.6	37.2
18	9.2	7.67	8.81	1.8	139.2	876	43.9	42.6
19	9.1	7.83	14.85	2.2	171.5	972	43.3	43.9
20	8.8	7.37	8.34	2.5	182.1	820	40.9	40.9
26	9.2	7.74	13.53	2.4	187.4	874	43.2	43.2
27	9.2	7.80	7.30	3.3	257.5	1063	44.0	44.0
28	8.1	7.28	7.29	2.5	182.9	858	38.1	38.1
29	9.3	7.97	6.77	2.3	185.1	1248	43.9	43.9
30	8.8	8.17	6.40	2.8	227.8	1203	41.6	41.6
Mean	8.87	7.654	8.417	2.56	195.69	975.1	41.87	
SD	0.46	0.344	3.256	0.47	33.93	150.4	2.45	
N	10	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

		Haematological Parameters									
		RBC (x10E6/ $\mu$ L)		WBC (x10E3/ $\mu$ L)		Reti (x10E3/ $\mu$ L)		PLT (x10E3/ $\mu$ L)		HCT (%)	
Sex: Female		Day: 4 Relative to Start Date									
<b>Group 2: 30 <math>\mu</math>g/ animal BNT162a1</b>											
46	8.4	7.09	11.13	1.7	117.1	628	39.9				
47	9.4	8.02	11.27	0.6	45.4	830	44.0				
48	8.5	7.12	15.33	1.2	83.2	1021	40.5				
49	8.6	7.59	13.35	1.0	72.1	566	41.0				
50	8.4	7.13	11.88	1.1	78.8	606	39.0				
56	8.7	7.32	14.90	0.5	39.5	743	41.3				
57	8.6	7.39	11.66	0.6	45.8	828	40.0				
58	8.1	6.83	12.25	1.2	82.4	726	38.0				
59	8.8	7.40	12.00	0.8	60.0	789	41.5				
60	8.2	7.06	15.16	1.0	73.2	799	38.9				
Mean	8.57	7.295	12.893	0.97	69.75	753.6	40.41				
SD	0.36	0.334	1.660	0.36	23.24	133.3	1.69				
N	10	10	10	10	10	10	10				

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Haematological Parameters						
Group 3: 10 µg/ animal BNT162a1		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
76	9.7	8.47	9.12	1.4	118.0	1436	44.8	
77	8.9	7.77	8.21	1.1	83.9	1061	41.6	
78	9.2	7.55	12.17	1.3	95.1	1292	42.4	
79	8.3	6.99	3.92	2.0	141.2	715	37.6	
80	9.3	8.09	6.64	0.8	61.7	1070	43.3	
86	9.3	8.19	7.21	0.8	67.4	868	42.5	
87	9.0	7.66	11.75	1.4	104.2	1427	43.0	
88	9.2	7.95	10.58	1.1	90.4	956	42.8	
89	9.3	7.84	8.74	1.3	101.1	916	43.1	
90	9.0	7.56	8.85	1.1	85.8	942	41.2	
Mean	9.12	7.807	8.719	1.23	94.88	1068.3	42.23	
SD	0.36	0.409	2.464	0.35	23.30	242.8	1.90	
N	10	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Haematological Parameters						
Group 4: 30 µg/ animal BNT162b1		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
106	8.2	6.76	8.15	1.8	121.9	1091	39.2	
107	8.9	7.87	6.56	2.0	156.0	919	42.7	
108	8.6	7.52	8.43	1.1	84.9	945	40.8	
109	8.6	6.99	8.57	2.1	146.8	1264	40.6	
110	8.8	7.46	8.05	0.9	67.1	1051	42.2	
116	8.8	7.47	7.41	1.9	143.2	1004	42.0	
117	9.0	8.14	9.15	2.4	191.7	820	43.5	
118	8.4	7.41	12.45	2.8	204.7	862	39.9	
119	8.4	7.19	5.42	1.9	133.0	903	38.9	
120	9.3	8.25	8.92	2.3	189.2	998	44.1	
Mean	8.70	7.506	8.311	1.92	143.85	985.7	41.39	
SD	0.33	0.474	1.844	0.57	44.93	128.7	1.79	
N	10	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Haematological Parameters					
		HGB (mmol/L)	RBC (x10E6/ $\mu$ L)	WBC (x10E3/ $\mu$ L)	Reti (%)	Reti (x10E3/ $\mu$ L)	PLT (x10E3/ $\mu$ L)
<b>Group 5: 100 <math>\mu</math>g/ animal BNT162b1</b>							
136	8.2	7.71	7.28	1.6	124.4	873	39.7
137	8.5	7.40	10.51	1.1	81.7	1097	40.1
138	8.1	7.14	5.71	1.6	116.1	970	37.3
139	8.9	7.94	9.56	1.7	137.0	1153	42.0
140	8.9	7.66	11.59	1.2	93.8	972	41.3
146	8.6	7.69	8.20	1.5	118.9	856	40.9
147	9.1	7.85	9.79	1.1	89.8	1202	42.9
148	8.8	7.21	8.87	1.7	120.1	1063	41.1
149	8.5	7.57	7.90	1.9	144.6	1201	39.6
150	8.6	7.72	11.08	1.3	96.9	1099	40.0
Mean	8.62	7.589	9.049	1.47	112.33	1048.6	40.49
SD	0.32	0.262	1.822	0.28	20.92	125.9	1.54
N	10	10	10	10	10	10	10

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Haematological Parameters						
Group 6: 30 µg/ animal BNT162c1		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
166	8.3	7.02	8.18	1.2	86.9	908	37.6	
167	9.0	7.35	15.37	1.3	93.9	811	41.2	
168	8.9	7.99	7.10	0.9	69.6	1163	41.0	
169	8.5	7.51	8.12	1.0	77.8	1230	39.4	
170	9.3	8.01	12.32	0.7	56.4	914	41.7	
176	9.1	7.79	11.53	1.0	76.4	978	42.0	
177	8.2	7.39	6.95	1.0	76.8	1038	38.1	
178	8.6	7.43	11.38	1.0	72.7	808	40.2	
179	8.9	7.32	11.92	1.1	83.9	1141	41.0	
180	9.0	7.95	7.42	1.3	101.9	1011	40.9	
Mean	8.78	7.576	10.029	1.05	79.63	1000.2	40.31	
SD	0.36	0.339	2.855	0.18	12.83	145.2	1.49	
N	10	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Haematological Parameters						
Group 7: 100 µg/ animal BNT162b2		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
196	8.3	7.17	11.38	1.5	106.8	959	38.3	
197	8.6	7.35	10.95	1.2	90.0	990	39.8	
198	9.0	8.09	9.43	1.7	133.7	923	41.9	
199	8.9	7.54	9.26	0.8	63.3	1020	41.8	
200	8.2	7.23	6.17	1.0	69.4	965	37.5	
206	9.3	7.15	10.28	1.2	87.5	878	37.8	
207	9.1	8.05	9.67	1.3	101.6	1025	42.7	
208	8.8	8.31	17.63	1.9	154.7	970	41.0	
209	8.7	7.73	9.04	1.6	122.5	1261	40.6	
210	8.5	7.16	10.14	1.2	83.6	1174	40.1	
Mean	8.74	7.578	10.395	1.34	101.31	1016.5	40.15	
SD	0.35	0.440	2.908	0.33	28.82	116.2	1.80	
N	10	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 10 Relative to Start Date	Haematological Parameters						
Group 6: 30 µg/ animal BNT162c1		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
166		7.9	6.67	11.87	3.2	213.1	561	36.0
167		8.3	6.97	18.90	2.8	192.9	542	38.4
168		8.5	7.82	13.17	2.2	168.5	656	39.5
169		8.0	7.07	11.62	3.7	258.2	774	37.2
170		8.5	7.52	17.21	2.3	176.5	574	39.0
171		8.8	7.75	15.70	1.4	109.9	499	40.5
172		8.6	7.36	14.23	2.9	212.6	291	39.5
173		9.0	8.47	17.48	1.5	127.0	462	41.3
174		8.3	7.34	17.15	2.3	170.0	561	37.9
175		8.4	7.22	15.34	3.0	215.7	784	39.3
Mean		8.43	7.419	15.267	2.53	184.44	570.4	38.86
SD		0.33	0.508	2.493	0.73	44.08	145.4	1.55
N		10	10	10	10	10	10	10

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female Day: 17 Relative to Start Date		Haematological Parameters						
Group 1: Control		HGB (mmol/L)	RBC (x10E6/ $\mu$ L)	WBC (x10E3/ $\mu$ L)	Reti (%)	Reti (x10E3/ $\mu$ L)	PLT (x10E3/ $\mu$ L)	HCT (%)
16		8.6	7.60	4.34	2.7	201.5	968	41.1
17		9.6	8.16	4.50	1.7	138.8	1259	45.5
18		9.3	8.01	5.88	2.9	228.3	923	45.5
19		9.0	7.86	11.29	2.7	213.6	1098	42.8
20		9.3	8.04	10.39	2.2	176.0	883	44.0
21		8.7	7.51	6.73	2.9	219.1	927	42.1
22		8.6	7.84	5.54	2.1	164.0	1168	40.6
23		9.2	8.03	8.06	2.2	179.4	1032	44.6
24		9.5	8.08	8.70	2.6	210.8	1177	45.4
25		9.0	7.79	5.63	3.6	278.0	1246	42.9
Mean		9.08	7.892	7.106	2.56	200.95	1068.1	43.45
SD		0.36	0.213	2.414	0.53	38.85	140.4	1.83
N		10	10	10	10	10	10	10

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Haematological Parameters						
Group 2: 30 µg/ animal BNT162a1		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
46	8.3	7.16	12.57	2.5	180.3	460	39.5	
47	9.4	8.20	10.21	1.7	136.8	520	45.7	
48	8.8	7.51	23.55	2.2	165.8	912	42.8	
49	8.5	7.38	8.62	3.6	266.9	397	41.1	
50	8.6	7.52	13.64	3.4	258.3	524	41.9	
51	8.5	7.55	16.49	2.8	214.1	674	40.7	
52	8.7	7.64	17.05	3.6	273.9	623	42.4	
53	8.7	7.55	15.06	2.5	191.0	795	41.8	
54	8.9	7.93	14.77	1.9	154.3	668	42.7	
55	8.2	7.02	13.04	2.2	156.3	656	38.8	
Mean	8.66	7.546	14.500	2.64	199.77	622.9	41.74	
SD	0.34	0.340	4.114	0.69	50.73	155.2	1.92	
N	10	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Haematological Parameters						
Group 3: 10 µg/ animal BNT162a1		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
76	8.7	7.90	13.75	3.7	290.4	932	41.8	
77	8.2	7.31	10.64	3.1	223.4	855	39.5	
78	8.7	7.34	11.29	3.2	231.9	892	40.6	
79	8.1	6.94	8.40	4.8	329.7	482	38.1	
80	8.3	7.50	11.18	2.0	147.6	633	38.9	
81	8.6	7.52	7.18	2.1	156.6	580	40.1	
82	8.5	7.66	8.50	3.8	290.7	846	39.2	
83	8.6	7.87	14.44	3.3	259.2	588	39.4	
84	8.4	7.44	10.86	2.3	172.6	521	38.9	
85	7.7	7.17	13.92	2.1	153.3	652	35.9	
Mean	8.38	7.465	11.016	3.04	225.54	698.1	39.24	
SD	0.32	0.298	2.490	0.92	66.10	166.4	1.56	
N	10	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female Day: 17 Relative to Start Date		Haematological Parameters						
Group 4: 30 µg/ animal BNT162b1		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
106	7.8	6.63	13.41	3.3	220.8	1022	38.1	
107	8.2	7.43	9.89	2.7	198.4	803	39.5	
108	8.2	7.43	15.17	2.3	174.4	924	40.1	
109	8.6	7.20	13.13	4.1	297.7	939	41.9	
110	8.0	6.93	14.87	3.6	248.3	986	38.7	
111	8.3	7.59	16.75	2.4	185.2	880	40.0	
112	7.6	7.18	6.20	2.9	211.3	825	37.2	
113	7.9	7.20	8.53	2.8	203.1	603	39.0	
114	8.0	7.31	17.51	2.5	184.9	875	39.0	
115	8.7	7.58	11.98	2.3	174.8	911	41.5	
Mean	8.13	7.248	12.744	2.89	209.89	876.8	39.50	
SD	0.34	0.296	3.637	0.60	38.31	117.1	1.44	
N	10	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Haematological Parameters						
Group 5: 100 µg/ animal BNT162b1		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
136	7.2	6.86	13.94	3.8	260.7	805	34.2	
137	8.3	7.60	20.24	2.7	205.1	723	39.7	
138	7.2	6.61	12.05	4.1	273.1	750	34.5	
139	7.8	7.20	16.30	3.3	239.8	555	37.6	
140	8.0	7.16	14.54	2.6	186.8	586	38.2	
141	8.0	7.51	11.51	2.9	215.6	815	37.2	
142	8.8	7.68	11.99	2.6	202.0	600	41.4	
143	7.8	6.97	15.11	4.4	308.7	553	36.4	
144	8.0	7.02	15.70	2.4	169.7	849	37.2	
145	7.4	6.84	12.67	3.0	205.1	786	34.2	
Mean	7.85	7.145	14.405	3.18	226.66	702.2	37.06	
SD	0.50	0.355	2.642	0.70	43.09	116.6	2.38	
N	10	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Haematological Parameters						
Group 7: 100 µg/ animal BNT162b2		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
196	7.3	6.55	16.58	3.8	250.1	792	34.7	
197	7.8	6.89	13.40	2.3	160.0	765	37.2	
198	8.2	7.59	18.97	2.3	176.1	812	39.7	
199	8.3	7.28	15.22	1.9	137.8	658	39.2	
200	7.6	6.97	14.01	3.2	220.8	663	35.3	
201	8.4	7.23	16.37	3.0	219.3	752	39.4	
202	8.2	7.36	12.99	2.8	207.6	596	39.5	
203	8.0	7.21	15.39	2.3	166.0	759	37.6	
204	7.7	6.97	19.03	2.9	204.6	889	36.9	
205	7.8	7.10	8.01	3.3	237.2	358	36.4	
Mean	7.93	7.115	14.997	2.78	197.95	704.4	37.59	
SD	0.35	0.288	3.215	0.58	36.41	148.3	1.81	
N	10	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 31 Relative to Start Date	Haematological Parameters						
Group 6: 30 µg/ animal BNT162c1		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
176	8.6	7.87	5.63	3.8	300.6	1209	41.6	
177	8.8	8.27	5.16	2.3	189.7	998	41.7	
178	8.9	8.22	4.61	3.3	268.0	839	42.6	
179	8.8	7.73	8.04	3.3	258.3	988	40.9	
180	9.1	8.62	4.13	2.6	224.9	1095	43.8	
Mean	8.84	8.142	5.514	3.06	248.30	1025.8	42.12	
SD	0.18	0.352	1.521	0.60	42.44	137.3	1.12	
N	5	5	5	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female Day: 38 Relative to Start Date		Haematological Parameters						
Group 1: Control		HGB (mmol/L)	RBC (x10E6/ $\mu$ L)	WBC (x10E3/ $\mu$ L)	Reti (%)	Reti (x10E3/ $\mu$ L)	PLT (x10E3/ $\mu$ L)	HCT (%)
26	8.8	8.10	8.20	2.6	210.9	992	42.8	
27	9.1	8.06	5.64	3.3	265.2	1005	44.0	
28	8.3	7.89	6.69	4.4	344.9	514	40.0	
29	9.0	8.34	5.29	3.2	268.6	1242	43.6	
30	8.8	8.49	4.60	2.5	209.8	996	42.1	
Mean	8.80	8.176	6.084	3.20	259.88	949.8	42.50	
SD	0.31	0.238	1.403	0.76	55.32	265.6	1.58	
N	5	5	5	5	5	5	5	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female Day: 38 Relative to Start Date		Haematological Parameters						
Group 2: 30 µg/ animal BNT162a1		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
56	9.2	8.35	7.57	2.1	177.2	1130	45.3	
57	8.6	7.87	7.46	2.4	192.2	932	41.4	
58	8.1	7.48	7.81	3.5	264.1	1014	40.2	
59	8.6	7.55	3.40	4.7	355.9	828	42.2	
60	8.8	8.30	11.87	2.3	192.6	798	42.6	
Mean	8.66	7.910	7.622	3.00	236.40	940.4	42.34	
SD	0.40	0.407	2.997	1.10	74.87	136.3	1.89	
N	5	5	5	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Haematological Parameters						
Group 3: 10 µg/ animal BNT162a1		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
86	9.2	8.74	7.99	7.03	2.8	246.6	999	44.0
87	8.7	8.31	10.04	2.6	209.7	1319	42.2	
88	9.1	8.04	7.97	2.3	187.7	882		44.4
89	8.9	8.48	5.57	1.8	145.6	946		43.2
90	9.3		4.45	1.9	158.1	818		44.4
Mean	9.04	8.312	7.012	2.28	189.54	992.8	43.64	
SD	0.24	0.312	2.164	0.43	40.57	194.6	0.94	
N	5	5	5	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Haematological Parameters						
Group 4: 30 µg/ animal BNT162b1		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
116	9.1	8.35	4.58	3.0	246.8	830	44.0	
117	8.9	8.72	8.45	2.6	227.5	840	43.5	
118	8.8	8.62	11.45	2.4	207.6	932	43.2	
119	8.6	7.73	4.17	2.8	214.6	760	40.9	
120	9.6	9.37	7.76	2.1	200.6	763	46.9	
Mean	9.00	8.558	7.282	2.58	219.42	825.0	43.70	
SD	0.38	0.595	2.998	0.35	18.25	70.3	2.15	
N	5	5	5	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Haematological Parameters						
Group 5: 100 µg/ animal BNT162b1		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
146	8.8	8.46	7.57	1.0	88.6	721	43.0	
147	8.3	7.52	4.92	3.4	255.9	1087	40.8	
148	8.7	7.86	5.53	2.4	189.1	800	42.4	
149	8.5	8.16	10.05	2.3	187.0	906	40.8	
150	9.2	8.61	6.08	2.5	216.2	943	44.6	
Mean	8.70	8.122	6.830	2.32	187.36	891.4	42.32	
SD	0.34	0.443	2.050	0.86	61.82	140.1	1.60	
N	5	5	5	5	5	5	5	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female Day: 38 Relative to Start Date		Haematological Parameters						
Group 7: 100 µg/ animal BNT162b2		HGB (mmol/L)	RBC (x10E6/µL)	WBC (x10E3/µL)	Reti (%)	Reti (x10E3/µL)	PLT (x10E3/µL)	HCT (%)
206	9.2	8.79	6.31	1.8	158.9	797	45.0	
207	8.8	8.18	8.87	1.8	144.1	942	42.5	
208	8.9	9.02	9.69	2.4	217.1	1040	43.7	
209	8.8	8.12	3.56	2.3	189.9	1068	42.8	
210	9.1	8.12	7.17	3.0	241.4	1145	43.8	
Mean	8.96	8.446	7.120	2.26	190.28	998.4	43.56	
SD	0.18	0.428	2.398	0.50	40.16	134.0	0.98	
N	5	5	5	5	5	5	5	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Haematological Parameters					
		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
Group 1: Control							
16	14.3	80.9	2.5	1.6	0.5	0.2	
17	27.4	64.5	3.8	3.3	0.9	0.2	
18	16.0	79.4	2.4	1.0	0.9	0.3	
19	7.6	87.3	2.1	1.0	1.5	0.5	
20	6.8	88.8	1.4	1.5	1.1	0.3	
26	7.7	87.7	1.8	1.4	1.2	0.3	
27	19.4	75.3	2.7	1.3	1.0	0.2	
28	15.8	80.2	1.9	1.2	0.8	0.2	
29	15.8	76.4	3.3	3.4	0.7	0.4	
30	15.5	80.6	1.6	1.1	0.9	0.2	
Mean	14.63	80.11	2.35	1.68	0.95	0.28	
SD	6.24	7.20	0.76	0.90	0.28	0.10	
N	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Haematological Parameters					
		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
<b>Group 2: 30 µg/ animal BNT162a1</b>							
46	28.7	61.5	3.3	1.5	4.6	0.4	
47	23.9	63.8	3.0	0.9	7.9	0.4	
48	28.8	63.0	3.9	0.8	3.0	0.4	
49	32.1	57.4	2.9	1.3	5.7	0.5	
50	29.3	63.0	3.0	1.7	2.5	0.5	
56	34.1	55.2	2.4	1.2	6.7	0.5	
57	30.7	62.0	2.5	2.2	2.1	0.5	
58	35.1	55.7	2.9	1.0	4.9	0.3	
59	24.9	63.5	4.6	1.9	4.6	0.5	
60	28.8	60.8	5.0	1.3	3.6	0.5	
Mean	29.64	60.59	3.35	1.38	4.56	0.45	
SD	3.57	3.27	0.87	0.45	1.85	0.07	
N	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Haematological Parameters					
		Group 3: 10 µg/ animal BNT162a1	Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)
76	13.3	78.7	2.9	1.7	2.9	0.3	
77	12.7	80.6	2.9	1.8	1.7	0.3	
78	11.2	82.1	2.6	0.9	2.6	0.5	
79	12.4	79.3	3.8	1.4	2.9	0.2	
80	15.3	77.2	3.3	1.8	2.1	0.4	
86	10.6	84.9	1.6	1.1	1.4	0.4	
87	7.1	87.9	2.1	0.7	1.7	0.5	
88	13.7	80.8	2.8	1.0	1.3	0.4	
89	12.1	82.2	2.0	0.8	2.5	0.4	
90	21.2	71.6	3.1	1.3	2.5	0.3	
Mean	12.96	80.53	2.71	1.25	2.16	0.37	
SD	3.62	4.40	0.66	0.41	0.60	0.09	
N	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Haematological Parameters					
		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
<b>Group 4: 30 µg/ animal BNT162b1</b>							
106	13.1	81.0	2.4	1.4	1.6	0.4	
107	10.0	83.3	1.6	4.0	0.8	0.3	
108	18.5	75.9	2.8	1.0	1.5	0.4	
109	11.2	81.5	2.4	3.0	1.5	0.4	
110	13.4	81.3	2.4	1.3	1.4	0.2	
116	11.2	83.9	1.8	1.7	1.1	0.3	
117	12.6	82.5	1.7	1.6	1.2	0.4	
118	11.9	82.2	2.4	1.7	1.3	0.5	
119	14.3	80.2	2.3	1.7	1.2	0.2	
120	18.9	75.6	1.9	2.0	1.2	0.4	
Mean	13.51	80.74	2.17	1.94	1.28	0.35	
SD	3.00	2.85	0.39	0.90	0.23	0.10	
N	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Haematological Parameters					
		Group 5: 100 µg/ animal BNT162b1	Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)
136	12.9	81.6	2.2	0.7	2.1	0.4	
137	18.8	75.0	2.0	2.1	1.8	0.3	
138	13.8	82.4	1.3	1.0	1.1	0.3	
139	15.6	79.2	1.8	1.0	2.0	0.3	
140	32.2	60.7	2.1	0.8	3.8	0.3	
146	11.2	82.0	2.7	1.3	2.4	0.4	
147	15.5	78.2	3.0	0.9	2.0	0.5	
148	15.8	77.0	3.1	1.0	2.9	0.2	
149	12.6	79.1	1.6	1.7	4.6	0.4	
150	32.3	54.6	2.4	1.1	9.1	0.5	
Mean	18.07	74.98	2.22	1.16	3.18	0.36	
SD	7.76	9.53	0.59	0.43	2.32	0.10	
N	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Haematological Parameters					
		Group 6: 30 µg/ animal BNT162c1	Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)
166	24.3	66.5	4.0	0.9	3.9	0.3	
167	19.8	72.2	4.0	1.0	2.5	0.5	
168	29.3	61.3	2.7	1.7	4.5	0.5	
169	19.6	71.9	4.1	1.3	2.7	0.5	
170	24.0	69.1	3.2	1.1	2.1	0.4	
176	26.1	64.1	2.7	0.9	5.7	0.6	
177	22.4	67.7	3.4	3.1	3.0	0.4	
178	23.6	68.4	2.9	1.6	3.1	0.3	
179	19.9	70.6	4.4	1.2	3.3	0.6	
180	20.4	69.0	5.4	1.7	3.1	0.3	
Mean	22.94	68.08	3.68	1.45	3.39	0.44	
SD	3.18	3.41	0.86	0.66	1.06	0.12	
N	10	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Haematological Parameters					
		Group 7: 100 µg/ animal BNT162b2	Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)
196	19.0	76.1	1.8	0.9	1.7	0.5	
197	26.7	62.5	2.7	1.5	6.1	0.4	
198	18.7	76.6	1.2	1.4	1.8	0.3	
199	12.6	80.9	2.0	1.6	2.6	0.4	
200	28.8	61.1	3.9	2.5	3.5	0.2	
206	28.8	65.6	2.1	1.0	2.2	0.4	
207	26.3	66.0	2.0	1.2	4.2	0.4	
208	32.8	59.1	2.1	1.8	3.7	0.4	
209	20.3	71.9	1.7	2.8	2.9	0.4	
210	22.7	67.2	2.5	1.1	6.0	0.5	
Mean	23.67	68.70	2.20	1.58	3.47	0.39	
SD	6.09	7.33	0.73	0.63	1.58	0.09	
N	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 10 Relative to Start Date	Haematological Parameters					
		Group 6: 30 µg/ animal BNT162c1	Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)
166	39.8	52.0	1.8	0.8	5.3	0.3	
167	36.2	56.0	2.5	0.8	4.2	0.4	
168	45.8	44.6	3.1	0.7	5.3	0.4	
169	41.0	48.7	2.4	0.4	7.2	0.3	
170	46.0	45.7	2.3	0.6	5.0	0.4	
171	47.5	41.0	3.5	0.6	7.0	0.3	
172	54.1	36.8	2.1	0.5	6.1	0.4	
173	32.2	58.7	1.5	0.2	6.8	0.6	
174	39.4	50.7	2.5	0.4	6.7	0.4	
175	50.3	41.2	3.6	0.9	3.8	0.2	
Mean	43.23	47.54	2.53	0.59	5.74	0.37	
SD	6.69	6.97	0.69	0.22	1.20	0.11	
N	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Haematological Parameters					
		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
Group 1: Control							
16	20.6	74.4	3.2	1.0	0.7	0.1	
17	28.3	65.1	3.6	2.2	0.6	0.2	
18	13.7	82.1	1.6	1.3	0.9	0.3	
19	11.5	83.1	2.2	1.8	1.1	0.3	
20	7.9	86.6	2.5	1.2	1.4	0.3	
21	9.7	85.6	2.3	1.0	1.2	0.2	
22	13.0	81.7	3.0	1.1	1.0	0.1	
23	11.0	83.4	2.7	1.1	1.6	0.2	
24	13.9	80.3	3.3	1.1	1.0	0.3	
25	15.9	79.6	2.7	1.0	0.5	0.3	
Mean	14.55	80.19	2.71	1.28	1.00	0.23	
SD	5.97	6.30	0.59	0.40	0.35	0.08	
N	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Haematological Parameters					
		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
<b>Group 2: 30 µg/ animal BNT162a1</b>							
46	34.9	57.9	1.5	0.7	4.5	0.4	
47	42.2	52.5	1.2	0.8	2.6	0.6	
48	53.4	34.6	4.0	0.5	7.0	0.6	
49	39.0	52.4	2.1	0.6	5.5	0.4	
50	55.2	38.6	1.9	0.9	3.1	0.3	
51	34.4	54.8	2.6	0.5	7.2	0.5	
52	43.8	42.0	3.2	0.8	9.8	0.4	
53	45.7	42.9	2.7	0.5	7.9	0.4	
54	43.4	48.3	2.7	1.0	4.2	0.3	
55	50.3	41.9	2.1	0.8	4.7	0.3	
Mean	44.23	46.59	2.40	0.71	5.65	0.42	
SD	7.15	7.68	0.82	0.18	2.28	0.11	
N	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Haematological Parameters					
		Group 3: 10 µg/ animal BNT162a1	Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)
76	39.6	48.9	5.3	1.5	4.4	0.2	
77	36.1	57.1	4.1	0.9	1.5	0.2	
78	36.4	53.4	3.4	1.4	5.1	0.4	
79	35.1	55.9	4.6	1.1	3.2	0.3	
80	43.0	48.4	4.2	0.9	3.1	0.4	
81	45.4	45.2	4.6	1.2	3.2	0.4	
82	45.0	44.1	3.5	4.5	2.4	0.5	
83	37.3	50.8	3.0	0.9	7.6	0.4	
84	33.0	51.6	4.6	1.3	9.0	0.5	
85	30.0	63.5	3.0	0.9	2.3	0.4	
Mean	38.09	51.89	4.03	1.46	4.18	0.37	
SD	5.11	5.85	0.78	1.09	2.42	0.11	
N	10	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Haematological Parameters					
		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
<b>Group 4: 30 µg/ animal BNT162b1</b>							
106	32.6	58.5	3.1	1.7	3.8	0.3	
107	25.8	65.3	2.8	3.8	2.0	0.3	
108	57.5	32.3	3.0	1.8	5.1	0.3	
109	35.9	54.3	4.2	2.5	2.7	0.4	
110	48.2	42.0	3.2	1.8	4.6	0.3	
111	43.0	44.7	5.3	2.8	3.8	0.4	
112	46.2	45.0	3.4	2.8	2.4	0.2	
113	42.6	47.2	3.9	2.6	3.4	0.3	
114	44.8	48.1	2.5	2.0	2.2	0.4	
115	52.9	37.8	3.5	3.2	2.4	0.3	
Mean	42.95	47.52	3.49	2.50	3.24	0.32	
SD	9.45	9.74	0.81	0.69	1.07	0.06	
N	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Haematological Parameters					
		Group 5: 100 µg/ animal BNT162b1	Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)
136	50.7	39.4	2.7	2.3	4.6	0.3	
137	54.0	32.1	3.4	3.6	6.6	0.4	
138	38.5	51.9	3.3	4.2	1.9	0.2	
139	44.6	46.5	3.2	3.3	2.1	0.3	
140	46.4	40.1	2.9	3.4	6.8	0.4	
141	58.9	30.3	2.9	4.4	3.3	0.2	
142	47.5	45.0	3.1	1.6	2.5	0.4	
143	45.8	45.3	1.2	3.8	3.5	0.3	
144	52.1	35.2	2.5	4.1	5.9	0.3	
145	42.0	45.5	3.0	4.5	4.8	0.2	
Mean	48.05	41.13	2.82	3.52	4.20	0.30	
SD	6.00	6.95	0.63	0.93	1.82	0.08	
N	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Haematological Parameters					
		Group 7: 100 µg/ animal BNT162b2	Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)
196	45.0	43.5	2.0	3.6	5.6	0.2	
197	44.9	46.1	1.3	3.5	4.0	0.3	
198	60.0	31.3	2.7	3.4	2.3	0.3	
199	49.3	39.5	2.3	4.2	4.4	0.3	
200	59.3	29.6	2.2	4.0	4.7	0.2	
201	60.0	31.5	0.9	4.1	3.1	0.3	
202	44.0	44.6	1.7	6.2	3.1	0.3	
203	43.2	47.6	2.6	2.3	4.2	0.2	
204	39.1	52.1	2.6	3.9	2.1	0.3	
205	42.2	50.7	1.8	2.8	2.4	0.2	
Mean	48.70	41.65	2.01	3.80	3.59	0.26	
SD	8.05	8.29	0.59	1.03	1.17	0.05	
N	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 31 Relative to Start Date	Haematological Parameters					
Group 6: 30 µg/ animal BNT162c1		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
176	11.2	83.9	2.1	1.5	1.0	0.3	
177	18.5	75.2	2.6	2.9	0.5	0.3	
178	10.4	84.1	2.7	1.4	1.3	0.2	
179	16.6	76.9	4.0	1.4	0.9	0.3	
180	14.9	78.7	2.5	2.8	1.0	0.1	
Mean	14.32	79.76	2.78	2.00	0.94	0.24	
SD	3.47	4.06	0.72	0.78	0.29	0.09	
N	5	5	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Haematological Parameters					
Group 1: Control		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
26	11.6	83.8	2.7	0.8	1.0	0.2	
27	21.6	71.6	2.2	3.8	0.6	0.2	
28	16.4	76.6	3.8	1.5	1.4	0.3	
29	18.9	70.6	3.6	6.0	0.8	0.2	
30	9.4	82.7	3.3	3.2	1.1	0.3	
Mean	15.58	77.06	3.12	3.06	0.98	0.24	
SD	5.05	6.10	0.66	2.05	0.30	0.05	
N	5	5	5	5	5	5	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Haematological Parameters					
Group 2: 30 µg/ animal BNT162a1		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
56	15.7	78.4	2.8	1.6	1.1	0.4	
57	14.2	80.3	1.7	2.3	1.3	0.2	
58	12.9	81.4	2.9	1.1	1.6	0.2	
59	20.2	75.3	2.0	1.5	0.8	0.2	
60	16.4	77.9	3.2	1.4	0.8	0.3	
Mean	15.88	78.66	2.52	1.58	1.12	0.26	
SD	2.77	2.35	0.64	0.44	0.34	0.09	
N	5	5	5	5	5	5	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Haematological Parameters					
Group 3: 10 µg/ animal BNT162a1		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
86	12.4	83.0	2.4	0.9	1.2	0.1	
87	11.2	82.9	3.4	1.0	1.2	0.3	
88	17.0	75.3	4.0	2.2	1.2	0.3	
89	15.4	80.1	2.4	1.1	0.8	0.3	
90	18.8	72.0	3.4	5.1	0.6	0.1	
Mean	14.96	78.66	3.12	2.06	1.00	0.22	
SD	3.15	4.86	0.70	1.78	0.28	0.11	
N	5	5	5	5	5	5	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Haematological Parameters					
Group 4: 30 µg/ animal BNT162b1		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
116	26.8	64.9	2.3	5.1	0.7	0.2	
117	17.6	76.0	3.3	1.3	1.5	0.2	
118	13.6	80.0	2.7	2.1	1.3	0.3	
119	18.6	74.4	3.7	1.9	1.3	0.1	
120	16.5	77.7	3.2	1.7	0.7	0.3	
Mean	18.62	74.60	3.04	2.42	1.10	0.22	
SD	4.94	5.81	0.55	1.53	0.37	0.08	
N	5	5	5	5	5	5	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Haematological Parameters					
Group 5: 100 µg/ animal BNT162b1		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
146	14.6	79.0	3.6	1.7	0.8	0.8	0.3
147	21.3	72.9	3.7	1.2	0.8	0.8	0.1
148	24.0	70.5	2.8	1.6	1.0	1.0	0.1
149	10.7	84.2	2.3	1.6	1.0	1.0	0.2
150	20.4	73.0	3.7	1.4	1.2	1.2	0.2
Mean	18.20	75.92	3.22	1.50	0.96	0.18	
SD	5.42	5.59	0.64	0.20	0.17	0.08	
N	5	5	5	5	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Haematological Parameters					
Group 7: 100 µg/ animal BNT162b2		Neut (%)	Lym (%)	Mono (%)	Eos (%)	LUC (%)	Baso (%)
206	19.2	74.0	2.3	3.2	1.1	0.2	
207	16.3	78.3	2.4	1.6	1.1	0.3	
208	12.1	82.7	2.6	1.5	0.9	0.2	
209	18.9	75.6	2.8	1.8	0.7	0.2	
210	22.5	72.4	1.9	2.1	0.8	0.4	
Mean	17.80	76.60	2.40	2.04	0.92	0.26	
SD	3.87	4.05	0.34	0.69	0.18	0.09	
N	5	5	5	5	5	5	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Haematological Parameters				
Group 1: Control		Neut (x10E3/ $\mu$ L)	Lym (x10E3/ $\mu$ L)	Mono (x10E3/ $\mu$ L)	Eos (x10E3/ $\mu$ L)	LUC (x10E3/ $\mu$ L)
16	0.69	3.93	0.12	0.08	0.03	0.01
17	1.65	3.89	0.23	0.20	0.05	0.01
18	1.41	7.00	0.21	0.09	0.08	0.03
19	1.13	12.96	0.31	0.15	0.22	0.07
20	0.57	7.41	0.12	0.13	0.09	0.03
26	1.04	11.86	0.24	0.20	0.16	0.04
27	1.42	5.50	0.20	0.10	0.07	0.02
28	1.15	5.84	0.14	0.09	0.06	0.01
29	1.07	5.17	0.23	0.23	0.05	0.02
30	0.99	5.16	0.10	0.07	0.06	0.02
Mean	1.112	6.872	0.190	0.134	0.087	0.026
SD	0.328	3.137	0.067	0.058	0.059	0.018
N	10	10	10	10	10	10

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Haematological Parameters					
		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)	Baso (x10E3/µL)
Group 2: 30 µg/ animal	BNT162a1						
46		3.19	6.85	0.37	0.16	0.52	0.04
47		2.69	7.19	0.34	0.10	0.89	0.05
48		4.42	9.66	0.60	0.13	0.45	0.07
49		4.28	7.67	0.39	0.18	0.76	0.07
50		3.48	7.49	0.35	0.20	0.30	0.06
56		5.08	8.22	0.35	0.17	1.00	0.07
57		3.58	7.23	0.29	0.26	0.25	0.05
58		4.30	6.83	0.36	0.12	0.60	0.04
59		2.99	7.62	0.55	0.23	0.55	0.05
60		4.36	9.22	0.76	0.20	0.55	0.07
Mean		3.837	7.798	0.436	0.175	0.587	0.057
SD		0.761	0.963	0.150	0.050	0.239	0.013
N		10	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Haematological Parameters					Rat
Group 3: 10 µg/ animal		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)	Baso (x10E3/µL)
76	1.21	7.18	0.27	0.16	0.27	0.14	0.03
77	1.04	6.62	0.23	0.15	0.14	0.03	0.03
78	1.36	9.99	0.32	0.11	0.32	0.32	0.07
79	0.49	3.11	0.15	0.05	0.11	0.11	0.01
80	1.01	5.13	0.22	0.12	0.14	0.14	0.02
86	0.77	6.12	0.12	0.08	0.10	0.10	0.03
87	0.84	10.33	0.24	0.08	0.20	0.20	0.06
88	1.45	8.55	0.29	0.10	0.14	0.14	0.05
89	1.05	7.18	0.17	0.07	0.22	0.22	0.03
90	1.87	6.34	0.27	0.12	0.22	0.22	0.03
Mean	1.109	7.055	0.228	0.104	0.186	0.036	
SD	0.388	2.172	0.064	0.035	0.072	0.018	
N	10	10	10	10	10	10	10

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Haematological Parameters					
		Group 4: 30 µg/ animal BNT162b1	Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)
106		1.07	6.60	0.20	0.11	0.13	0.03
107		0.66	5.47	0.10	0.26	0.05	0.02
108		1.56	6.40	0.24	0.09	0.12	0.03
109		0.96	6.98	0.21	0.26	0.13	0.03
110		1.08	6.54	0.19	0.11	0.12	0.02
116		0.83	6.22	0.13	0.13	0.08	0.02
117		1.15	7.55	0.16	0.15	0.11	0.04
118		1.48	10.23	0.30	0.21	0.16	0.06
119		0.78	4.35	0.13	0.09	0.07	0.01
120		1.68	6.75	0.17	0.17	0.11	0.04
Mean	1.125	6.709	0.183	0.158	0.108	0.030	
SD	0.346	1.515	0.059	0.065	0.033	0.014	
N	10	10	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Haematological Parameters					
		Group 5: 100 µg/ animal BNT162b1	Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)
136	0.94	5.94	0.16	0.05	0.15	0.03	
137	1.98	7.88	0.21	0.22	0.19	0.03	
138	0.79	4.70	0.08	0.06	0.06	0.02	
139	1.49	7.57	0.17	0.10	0.20	0.03	
140	3.73	7.03	0.25	0.10	0.44	0.04	
146	0.92	6.73	0.22	0.11	0.19	0.03	
147	1.51	7.65	0.29	0.09	0.19	0.04	
148	1.41	6.83	0.27	0.09	0.26	0.02	
149	0.99	6.25	0.12	0.13	0.36	0.03	
150	3.58	6.05	0.27	0.12	1.01	0.06	
Mean	1.734	6.663	0.204	0.107	0.305	0.033	
SD	1.075	0.964	0.070	0.047	0.270	0.012	
N	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Haematological Parameters					
		Group 6: 30 µg/ animal BNT162c1	Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)
166	1.98	5.44	0.33	0.08	0.32	0.03	
167	3.04	11.10	0.62	0.15	0.39	0.07	
168	2.08	4.35	0.19	0.12	0.32	0.04	
169	1.59	5.84	0.33	0.11	0.22	0.04	
170	2.96	8.51	0.40	0.14	0.26	0.05	
176	3.00	7.39	0.31	0.10	0.65	0.07	
177	1.55	4.70	0.24	0.22	0.21	0.03	
178	2.69	7.79	0.33	0.18	0.35	0.04	
179	2.37	8.41	0.53	0.14	0.39	0.07	
180	1.52	5.12	0.40	0.13	0.23	0.03	
Mean	2.278	6.865	0.368	0.137	0.334	0.047	
SD	0.619	2.142	0.128	0.040	0.130	0.017	
N	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Haematological Parameters					
		Group 7: 100 µg/ animal BNT162b2	Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)
196	2.16	8.66	0.20	0.10	0.20	0.06	
197	2.93	6.84	0.30	0.17	0.67	0.05	
198	1.77	7.22	0.11	0.13	0.17	0.03	
199	1.16	7.49	0.18	0.15	0.24	0.04	
200	1.78	3.77	0.24	0.16	0.21	0.01	
206	2.96	6.74	0.22	0.10	0.22	0.04	
207	2.54	6.38	0.19	0.12	0.41	0.04	
208	5.79	10.41	0.38	0.33	0.66	0.07	
209	1.84	6.50	0.15	0.25	0.26	0.04	
210	2.30	6.81	0.26	0.11	0.61	0.05	
Mean	2.523	7.082	0.223	0.162	0.365	0.043	
SD	1.276	1.693	0.077	0.074	0.205	0.016	
N	10	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 10 Relative to Start Date	Haematological Parameters					
		Group 6: 30 µg/ animal BNT162c1	Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)
166	4.72	6.17	0.21	0.10	0.63	0.03	
167	6.83	10.58	0.47	0.15	0.80	0.07	
168	6.03	5.87	0.41	0.10	0.69	0.06	
169	4.76	5.65	0.28	0.05	0.83	0.04	
170	7.92	7.86	0.40	0.11	0.86	0.06	
171	7.46	6.44	0.55	0.10	1.10	0.05	
172	7.70	5.24	0.30	0.08	0.87	0.05	
173	5.63	10.26	0.27	0.03	1.19	0.10	
174	6.76	8.69	0.42	0.06	1.15	0.06	
175	7.71	6.32	0.55	0.14	0.58	0.03	
Mean	6.552	7.308	0.386	0.092	0.870	0.055	
SD	1.209	1.937	0.118	0.038	0.215	0.021	
N	10	10	10	10	10	10	

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Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Haematological Parameters					Rat
Group 1: Control		Neut (x10E3/ $\mu$ L)	Lym (x10E3/ $\mu$ L)	Mono (x10E3/ $\mu$ L)	Eos (x10E3/ $\mu$ L)	LUC (x10E3/ $\mu$ L)	Baso (x10E3/ $\mu$ L)
16	0.89	3.23	0.14	0.04	0.03	0.01	
17	1.27	2.93	0.16	0.10	0.03	0.01	
18	0.81	4.83	0.09	0.08	0.05	0.02	
19	1.29	9.38	0.25	0.21	0.12	0.03	
20	0.83	9.00	0.26	0.13	0.15	0.03	
21	0.66	5.76	0.16	0.07	0.08	0.01	
22	0.72	4.53	0.17	0.06	0.06	0.01	
23	0.88	6.72	0.22	0.09	0.13	0.02	
24	1.21	6.98	0.29	0.10	0.09	0.03	
25	0.89	4.48	0.15	0.06	0.03	0.02	
Mean	0.945	5.784	0.189	0.094	0.077	0.019	
SD	0.228	2.222	0.063	0.048	0.044	0.009	
N	10	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Haematological Parameters				
Group 2: 30 µg/ animal BNT162a1		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)
46	4.39	7.28	0.19	0.08	0.57	0.05
47	4.31	5.37	0.12	0.08	0.27	0.06
48	12.57	8.15	0.94	0.12	1.64	0.13
49	3.36	4.52	0.18	0.05	0.48	0.03
50	7.53	5.27	0.26	0.12	0.42	0.04
51	5.67	9.04	0.43	0.08	1.19	0.08
52	7.46	7.17	0.55	0.14	1.66	0.06
53	6.88	6.46	0.40	0.07	1.18	0.06
54	6.42	7.14	0.39	0.15	0.62	0.05
55	6.56	5.46	0.27	0.10	0.61	0.04
Mean	6.515	6.586	0.373	0.099	0.864	0.060
SD	2.556	1.428	0.239	0.032	0.511	0.028
N	10	10	10	10	10	10

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Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Haematological Parameters					
Group 3: 10 µg/ animal BNT162a1		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)	Baso (x10E3/µL)
76	5.45	6.73	0.73	0.21	0.61	0.03	
77	3.84	6.08	0.44	0.10	0.16	0.02	
78	4.10	6.02	0.38	0.16	0.57	0.05	
79	2.95	4.70	0.38	0.09	0.26	0.02	
80	4.81	5.41	0.47	0.10	0.35	0.04	
81	3.26	3.24	0.33	0.09	0.23	0.03	
82	3.83	3.75	0.30	0.38	0.21	0.04	
83	5.38	7.33	0.44	0.13	1.10	0.06	
84	3.59	5.61	0.50	0.14	0.97	0.05	
85	4.18	8.84	0.41	0.12	0.32	0.05	
Mean	4.139	5.771	0.438	0.152	0.478	0.039	
SD	0.842	1.657	0.119	0.088	0.330	0.014	
N	10	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Haematological Parameters					
		Neut (x10E3/ $\mu$ L)	Lym (x10E3/ $\mu$ L)	Mono (x10E3/ $\mu$ L)	Eos (x10E3/ $\mu$ L)	LUC (x10E3/ $\mu$ L)	Baso (x10E3/ $\mu$ L)
Group 4: 30 $\mu$ g/ animal	BNT162b1						
106	4.37	7.85	0.42	0.23	0.51	0.04	
107	2.55	6.46	0.27	0.38	0.20	0.03	
108	8.72	4.89	0.45	0.28	0.78	0.05	
109	4.71	7.14	0.55	0.33	0.36	0.05	
110	7.16	6.24	0.47	0.26	0.68	0.05	
111	7.20	7.49	0.88	0.46	0.64	0.07	
112	2.86	2.79	0.21	0.18	0.15	0.01	
113	3.64	4.03	0.33	0.22	0.29	0.02	
114	7.84	8.41	0.44	0.36	0.39	0.07	
115	6.34	4.52	0.41	0.38	0.29	0.03	
Mean	5.539	5.982	0.443	0.308	0.429	0.042	
SD	2.191	1.845	0.183	0.088	0.214	0.020	
N	10	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Haematological Parameters					
		Neut (x10E3/ $\mu$ L)	Lym (x10E3/ $\mu$ L)	Mono (x10E3/ $\mu$ L)	Eos (x10E3/ $\mu$ L)	LUC (x10E3/ $\mu$ L)	Baso (x10E3/ $\mu$ L)
Group 5: 100 $\mu$ g/ animal BNT162b1	136	7.07	5.49	0.37	0.32	0.65	0.04
	137	10.93	6.49	0.68	0.72	1.33	0.08
	138	4.64	6.25	0.40	0.51	0.23	0.03
	139	7.28	7.57	0.52	0.54	0.34	0.05
	140	6.75	5.83	0.42	0.50	0.99	0.05
	141	6.78	3.49	0.33	0.51	0.38	0.02
	142	5.70	5.39	0.37	0.19	0.30	0.04
	143	6.93	6.85	0.18	0.58	0.53	0.05
	144	8.18	5.52	0.39	0.64	0.92	0.05
	145	5.32	5.77	0.38	0.57	0.60	0.02
Mean	6.958	5.865	0.404	0.508	0.627	0.043	
SD	1.735	1.083	0.129	0.152	0.354	0.018	
N	10	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Haematological Parameters					
		Group 7: 100 µg/ animal BNT162b2	Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)
196	7.47	7.22	0.33	0.60	0.92	0.04	
197	6.01	6.18	0.17	0.46	0.53	0.04	
198	11.39	5.94	0.51	0.65	0.44	0.05	
199	7.50	6.01	0.34	0.65	0.67	0.04	
200	8.31	4.14	0.31	0.56	0.66	0.03	
201	9.83	5.16	0.14	0.68	0.51	0.05	
202	5.72	5.80	0.23	0.81	0.40	0.03	
203	6.64	7.32	0.39	0.35	0.64	0.04	
204	7.44	9.91	0.49	0.75	0.39	0.06	
205	3.38	4.06	0.14	0.22	0.19	0.01	
Mean	7.369	6.174	0.305	0.573	0.535	0.039	
SD	2.215	1.707	0.135	0.182	0.200	0.014	
N	10	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 31 Relative to Start Date	Haematological Parameters				
Group 6: 30 µg/ animal		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)
176	0.63	4.73	0.12	0.08	0.05	0.02
177	0.96	3.88	0.13	0.15	0.03	0.01
178	0.48	3.88	0.13	0.06	0.06	0.01
179	1.33	6.18	0.32	0.12	0.07	0.02
180	0.61	3.25	0.10	0.11	0.04	0.01
Mean	0.802	4.384	0.160	0.104	0.050	0.014
SD	0.344	1.134	0.090	0.035	0.016	0.005
N	5	5	5	5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Haematological Parameters				
Group 1: Control		Neut (x10E3/ $\mu$ L)	Lym (x10E3/ $\mu$ L)	Mono (x10E3/ $\mu$ L)	Eos (x10E3/ $\mu$ L)	LUC (x10E3/ $\mu$ L)
26	0.95	6.87	0.22	0.06	0.08	0.02
27	1.21	4.04	0.12	0.22	0.03	0.01
28	1.10	5.12	0.25	0.10	0.10	0.02
29	1.00	3.73	0.19	0.32	0.04	0.01
30	0.43	3.80	0.15	0.15	0.05	0.01
Mean	0.938	4.712	0.186	0.170	0.060	0.014
SD	0.301	1.330	0.052	0.103	0.029	0.005
N	5	5	5	5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Haematological Parameters				
Group 2: 30 µg/ animal BNT162a1		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)
56	1.19	5.93	0.21	0.12	0.08	0.03
57	1.06	5.99	0.13	0.17	0.10	0.02
58	1.00	6.35	0.22	0.09	0.13	0.01
59	0.69	2.56	0.07	0.05	0.03	0.01
60	1.94	9.24	0.37	0.17	0.10	0.04
Mean	1.176	6.014	0.200	0.120	0.088	0.022
SD	0.465	2.369	0.113	0.052	0.037	0.013
N	5	5	5	5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Haematological Parameters				
Group 3: 10 µg/ animal BNT162a1		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)
86	0.87	5.84	0.17	0.06	0.08	0.01
87	1.12	8.33	0.34	0.10	0.12	0.03
88	1.35	6.00	0.32	0.18	0.09	0.02
89	0.86	4.46	0.13	0.06	0.04	0.01
90	0.84	3.20	0.15	0.23	0.03	0.00
Mean	1.008	5.566	0.222	0.126	0.072	0.014
SD	0.223	1.919	0.100	0.076	0.037	0.011
N	5	5	5	5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Haematological Parameters				
Group 4: 30 µg/ animal BNT162b1		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)
116	1.23	2.97	0.11	0.23	0.03	0.01
117	1.49	6.42	0.28	0.11	0.13	0.01
118	1.56	9.16	0.31	0.24	0.14	0.04
119	0.78	3.10	0.15	0.08	0.05	0.00
120	1.28	6.03	0.25	0.13	0.05	0.02
Mean	1.268	5.536	0.220	0.158	0.080	0.016
SD	0.306	2.583	0.086	0.073	0.051	0.015
N	5	5	5	5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Haematological Parameters				
Group 5: 100 µg/ animal BNT162b1		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)
146	1.11	5.98	0.27	0.13	0.06	0.02
147	1.05	3.59	0.18	0.06	0.04	0.00
148	1.32	3.90	0.15	0.09	0.05	0.01
149	1.08	8.46	0.23	0.16	0.10	0.02
150	1.24	4.44	0.23	0.09	0.07	0.01
Mean	1.160	5.274	0.212	0.106	0.064	0.012
SD	0.115	2.004	0.047	0.039	0.023	0.008
N	5	5	5	5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Haematological Parameters				
Group 7: 100 µg/ animal BNT162b2		Neut (x10E3/µL)	Lym (x10E3/µL)	Mono (x10E3/µL)	Eos (x10E3/µL)	LUC (x10E3/µL)
206	1.21	4.67	0.15	0.20	0.07	0.01
207	1.45	6.95	0.21	0.14	0.09	0.02
208	1.18	8.01	0.25	0.15	0.08	0.02
209	0.67	2.69	0.10	0.06	0.03	0.01
210	1.61	5.19	0.13	0.15	0.05	0.03
Mean	1.224	5.502	0.168	0.140	0.064	0.018
SD	0.357	2.067	0.061	0.050	0.024	0.008
N	5	5	5	5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Haematological Parameters			Rat
Group 1: Control		MCV (fL)	MCH (fmol)	MCHC (mmol/L)	
16	53.1		1.15	21.59	
17	55.4		1.17	21.20	
18	57.2		1.19	20.87	
19	55.4		1.16	21.04	
20	55.5		1.19	21.40	
26	55.8		1.19	21.25	
27	56.4		1.17	20.81	
28	52.4		1.12	21.31	
29	55.1		1.17	21.20	
30	51.0		1.08	21.22	
Mean	54.73		1.159	21.189	
SD	1.93		0.035	0.234	
N	10		10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Haematological Parameters			Rat
Group 2: 30 µg/ animal		MCV (fL)	MCH (fmol)	MCHC (mmol/L)	
46	56.3		1.19	21.16	
47	54.9		1.17	21.31	
48	56.9		1.19	21.01	
49	54.0		1.14	21.07	
50	54.7		1.18	21.63	
56	56.5		1.18	20.96	
57	54.1		1.17	21.59	
58	55.7		1.18	21.21	
59	56.2		1.19	21.24	
60	55.0		1.17	21.22	
Mean	55.43		1.176	21.240	
SD	1.03		0.015	0.223	
N	10		10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Haematological Parameters			Rat
Group 3: 10 µg/ animal		MCV (fL)	MCH (fmol)	MCHC (mmol/L)	
76	52.9		1.14	21.55	
77	53.5		1.14	21.35	
78	56.2		1.22	21.65	
79	53.8		1.18	21.94	
80	53.5		1.15	21.42	
86	51.9		1.14	21.91	
87	56.1		1.18	21.07	
88	53.8		1.16	21.55	
89	55.0		1.19	21.69	
90	54.6		1.20	21.93	
Mean	54.13		1.170	21.606	
SD	1.36		0.028	0.281	
N	10		10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Haematological Parameters			Rat
Group 4: 30 µg/ animal BNT162b1		MCV (fL)	MCH (fmol)	MCHC (mmol/L)	
106	57.9		1.21	20.89	
107	54.2		1.13	20.92	
108	54.2		1.15	21.20	
109	58.0		1.23	21.29	
110	56.5		1.18	20.91	
116	56.2		1.18	21.05	
117	53.5		1.10	20.60	
118	53.9		1.14	21.16	
119	54.2		1.17	21.57	
120	53.5		1.13	21.10	
Mean	55.21		1.162	21.069	
SD	1.77		0.040	0.264	
N	10		10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Haematological Parameters			Rat
Group 5: 100 µg/ animal BNT162b1		MCV (fL)	MCH (fmol)	MCHC (mmol/L)	
136	51.6		1.07	20.75	
137	54.1		1.15	21.20	
138	52.2		1.14	21.84	
139	52.8		1.12	21.26	
140	54.0		1.16	21.45	
146	53.1		1.12	21.11	
147	54.6		1.16	21.27	
148	56.9		1.22	21.38	
149	52.4		1.13	21.50	
150	51.8		1.11	21.43	
Mean	53.35		1.138	21.319	
SD	1.61		0.039	0.284	
N	10		10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Haematological Parameters			Rat
Group 6: 30 µg/ animal BNT162c1		MCV (fL)	MCH (fmol)	MCHC (mmol/L)	
166	53.5		1.18	21.97	
167	56.0		1.22	21.81	
168	51.3		1.11	21.59	
169	52.5		1.13	21.55	
170	52.0		1.16	22.33	
176	53.9		1.16	21.60	
177	51.6		1.11	21.50	
178	54.1		1.16	21.37	
179	56.1		1.22	21.69	
180	51.5		1.13	21.97	
Mean	53.25		1.158	21.738	
SD	1.78		0.040	0.286	
N	10		10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Haematological Parameters			Rat
Group 7: 100 µg/ animal BNT162b2		MCV (fL)	MCH (fmol)	MCHC (mmol/L)	
196	53.4		1.16	21.80	
197	54.2		1.17	21.66	
198	51.7		1.12	21.56	
199	55.4		1.18	21.29	
200	51.8		1.13	21.92	
206	52.8		1.31	24.71	
207	53.0		1.13	21.24	
208	49.4		1.06	21.46	
209	52.5		1.13	21.54	
210	56.0		1.18	21.15	
Mean	53.02		1.157	21.833	
SD	1.91		0.065	1.040	
N	10		10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 10 Relative to Start Date	Haematological Parameters					
Group 6: 30 µg/ animal BNT162c1		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)
166	8.9	18.9	272.0	53.9	1.18	21.95	
167	9.4	17.7	314.0	55.1	1.19	21.55	
168	9.1	17.9	295.0	50.5	1.09	21.56	
169	9.4	19.3	247.0	52.6	1.13	21.39	
170	9.4	19.3	256.0	51.9	1.13	21.74	
171	10.1	19.1	243.0	52.3	1.14	21.73	
172	9.4	19.1	283.0	53.7	1.17	21.86	
173	9.6	19.4	261.0	48.8	1.07	21.89	
174	9.9	18.6	246.0	51.6	1.13	21.85	
175	9.2	17.5	256.0	54.4	1.17	21.48	
Mean	9.44	18.68	267.30	52.48	1.140	21.700	
SD	0.36	0.72	23.49	1.91	0.039	0.193	
N	10	10	10	10	10	10	

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female Day: 17 Relative to Start Date		Haematological Parameters					
Group 1: Control		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)
16	9.1	17.7	14.9	99.8	54.0	1.13	20.97
17	9.7	14.9	83.3	55.8	1.17	20.99	
18	9.1	14.9	88.2	56.8	1.16	20.46	
19	8.6	16.8	266.0	54.4	1.15	21.05	
20	9.0	14.3	95.0	54.7	1.16	21.12	
21	9.4	14.1	86.9	56.1	1.16	20.68	
22	8.8	14.9	82.8	51.8	1.09	21.13	
23	9.0	15.1	85.9	55.5	1.14	20.54	
24	9.3	13.7	93.5	56.2	1.18	20.91	
25	8.3	14.4	163.0	55.1	1.15	20.95	
Mean	9.03	15.08	114.44	55.04	1.149	20.880	
SD	0.40	1.24	58.30	1.43	0.025	0.237	
N	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Haematological Parameters						Rat
		Group 2: 30 µg/ animal BNT162a1	PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	
46	9.2	17.0	297.0	55.2	1.16	20.99		
47	9.6	18.8	327.0	55.7	1.15	20.65		
48	9.3	17.6	316.0	57.1	1.17	20.43		
49	9.2	16.4	273.0	55.6	1.16	20.81		
50	9.8	18.7	325.0	55.7	1.15	20.61		
51	9.4	17.1	349.0	53.9	1.12	20.83		
52	9.1	19.3	308.0	55.5	1.14	20.61		
53	8.6	16.7	308.0	55.3	1.15	20.83		
54	8.9	18.2	288.0	53.8	1.12	20.78		
55	8.2	16.1	349.0	55.2	1.17	21.23		
Mean	9.13	17.59	314.00	55.30	1.149	20.777		
SD	0.47	1.11	24.64	0.94	0.018	0.224		
N	10	10	10	10	10	10		

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Haematological Parameters					
Group 3: 10 µg/ animal BNT162a1		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)
76	9.6	18.7	258.0	52.9	1.09	20.69	
77	9.0	18.7	246.0	53.9	1.12	20.72	
78	8.7	17.5	271.0	55.3	1.19	21.50	
79	NV !	NV !		54.9	1.17	21.23	
80	9.4	18.5	256.0	51.9	1.11	21.31	
81	9.1	17.7	228.0	53.4	1.14	21.44	
82	5.3	16.8	441.0	51.2	1.11	21.73	
83	9.5	19.6	281.0	50.1	1.09	21.70	
84	8.7	21.7	296.0	52.2	1.12	21.52	
85	9.0	18.1	241.0	50.0	1.07	21.44	
Mean	8.70	18.59	279.78	52.58	1.121	21.328	
SD	1.32	1.42	63.93	1.84	0.037	0.362	
N	9	9	9	10	10	10	

!= Result Comment

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female Day: 17 Relative to Start Date		Haematological Parameters					
Group 4: 30 µg/ animal BNT162b1		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)
106	NV !	14.9		NV !	57.4	1.17	20.38
107	9.4	15.4		250.0	53.2	1.10	20.67
108	9.5	14.2		315.0	53.9	1.10	20.48
109	8.8	16.0		235.0	58.1	1.19	20.53
110	9.1	14.8		306.0	55.8	1.16	20.78
111	9.1	14.2		279.0	52.7	1.10	20.79
112	9.6	14.2		283.0	51.9	1.05	20.31
113	8.9	14.7		275.0	54.2	1.09	20.15
114	9.9	14.9		287.0	53.3	1.10	20.59
115	9.8	13.6		306.0	54.8	1.14	20.86
Mean	9.34	14.74		281.78	54.53	1.120	20.554
SD	0.39	0.70		26.36	2.02	0.043	0.230
N	9	9		9	10	10	10

!= Result Comment

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Haematological Parameters					
Group 5: 100 µg/ animal BNT162b1		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)
136	9.0	16.9	312.0	50.0	52.2	1.06	21.15
137	8.6	14.4	365.0	52.2	52.2	1.10	20.97
138	9.0	17.1	247.0	52.2	52.2	1.09	20.95
139	8.5	18.1	311.0	52.2	52.2	1.09	20.86
140	9.3	17.9	275.0	53.3	53.3	1.12	21.08
141	9.5	17.4	304.0	49.6	49.6	1.06	21.47
142	9.2	15.8	284.0	53.9	53.9	1.14	21.15
143	10.3	19.6	311.0	52.2	52.2	1.13	21.54
144	9.3	16.8	312.0	53.0	53.0	1.13	21.39
145	9.7	17.5	270.0	50.0	50.0	1.08	21.65
Mean	9.24	17.15	299.10	51.86	51.86	1.100	21.221
SD	0.53	1.38	32.24	1.49	1.49	0.029	0.273
N	10	10	10	10	10	10	10

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Haematological Parameters					
Group 7: 100 µg/ animal BNT162b2		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)
196	9.4	17.8	290.0	53.0	1.11	20.95	
197	NV !	NV !	NV !	54.1	1.13	20.91	
198	9.7	18.0	314.0	52.3	1.08	20.61	
199	9.6	16.8	306.0	53.8	1.14	21.12	
200	9.3	18.2	293.0	50.6	1.10	21.66	
201	9.9	17.0	321.0	54.5	1.16	21.36	
202	NV !	NV !	NV !	53.7	1.12	20.78	
203	8.5	20.0	272.0	52.2	1.11	21.27	
204	9.6	17.1	290.0	53.0	1.11	20.87	
205	9.1	17.6	296.0	51.2	1.10	21.45	
Mean	9.39	17.81	297.75	52.84	1.116	21.098	
SD	0.44	1.01	15.50	1.27	0.023	0.331	
N	8	8	8	10	10	10	

!= Result Comment

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 31 Relative to Start Date	Haematological Parameters					
Group 6: 30 µg/ animal BNT162c1		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)
176	9.4	14.2	89.0	52.9	1.10	20.73	
177	9.3	15.7	92.0	50.4	1.06	21.04	
178	8.7	17.0	156.0	51.8	1.08	20.83	
179	8.8	15.1	87.5	53.0	1.14	21.61	
180	10.2	14.6	95.5	50.8	1.05	20.75	
Mean	9.28	15.32	104.00	51.78	1.086	20.992	
SD	0.60	1.09	29.23	1.18	0.036	0.367	
N	5	5	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Haematological Parameters					
Group 1: Control		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)
26	8.9	17.1	91.8	52.9	1.09	20.59	
27	9.4	17.9	90.5	54.6	1.12	20.55	
28	10.4	NV !	NV !	50.7	1.06	20.83	
29	8.9	16.4	93.8	52.3	1.08	20.69	
30	9.1	16.8	76.9	49.5	1.04	20.93	
Mean	9.34	17.05	88.25	52.00	1.078	20.718	
SD	0.63	0.64	7.69	1.97	0.030	0.160	
N	5	4	4	5	5	5	

! = Result Comment

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Haematological Parameters					
Group 2: 30 µg/ animal BNT162a1		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)
56	9.4		15.1	89.8	54.3	1.10	20.21
57	8.9		NV !	89.5	52.7	1.09	20.65
58	9.3		14.7	86.8	53.7	1.09	20.25
59	9.6		16.3	81.0	55.9	1.13	20.24
60	9.6		16.2		51.3	1.06	20.66
Mean	9.36		15.58	86.78	53.58	1.094	20.402
SD	0.29		0.80	4.08	1.72	0.025	0.231
N	5		4	4	5	5	5

!= Result Comment

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TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Haematological Parameters					
Group 3: 10 µg/ animal BNT162a1		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)
86	9.4	17.1	87.0	50.3	1.05	20.91	
87	9.6	16.6	75.3	52.8	1.09	20.69	
88	9.1	16.1	83.6	53.4	1.09	20.45	
89	9.3	18.1	NM !	53.7	1.11	20.57	
90	8.9	19.7	222.0	52.3	1.09	20.91	
Mean	9.26	17.52	116.98	52.50	1.086	20.706	
SD	0.27	1.43	70.19	1.34	0.022	0.205	
N	5	5	4	5	5	5	

! = Result Comment

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Haematological Parameters					
Group 4: 30 µg/ animal BNT162b1		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)
116	8.9	18.7	86.6	52.7	1.09	20.77	
117	9.1	15.7	78.9	49.9	1.02	20.55	
118	9.2	18.3	142.0	50.1	1.02	20.41	
119	9.3	15.4	82.1	53.0	1.11	20.98	
120	9.3	16.2	94.6	50.1	1.02	20.46	
Mean	9.16	16.86	96.84	51.16	1.052	20.634	
SD	0.17	1.53	25.92	1.55	0.044	0.238	
N	5	5	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Haematological Parameters					
Group 5: 100 µg/ animal BNT162b1		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)
146	8.7	16.8	89.9	50.9	1.03	20.35	
147	8.8	20.4	83.3	54.2	1.10	20.23	
148	8.6	17.3	87.3	53.9	1.11	20.60	
149	9.2	18.5	99.0	50.0	1.04	20.88	
150	9.0	16.9	74.5	51.8	1.06	20.52	
Mean	8.86	17.98	86.80	52.16	1.068	20.516	
SD	0.24	1.51	8.98	1.84	0.036	0.249	
N	5	5	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Haematological Parameters					
Group 7: 100 µg/ animal BNT162b2		PT (Seconds)	aPTT (Seconds)	Fibrinogen (mg/dL)	MCV (fL)	MCH (fmol)	MCHC (mmol/L)
206	8.8	15.6	79.8	51.2	1.04	20.31	
207	8.9	16.9	76.2	52.0	1.08	20.81	
208	8.6	15.7	102.0	48.5	0.99	20.41	
209	9.5	17.0	75.1	52.7	1.09	20.69	
210	9.0	16.3	90.3	54.0	1.12	20.82	
Mean	8.96	16.30	84.68	51.68	1.064	20.608	
SD	0.34	0.65	11.39	2.05	0.050	0.235	
N	5	5	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Haematological Parameters				Rat
Group 1: Control		MPV (fL)	PCT (%)	PDW (%)	RDW (%)	MPC (g/dL)
16	8.4	0.73	90.7	10.6	21.7	
17	8.4	0.82	77.0	11.1	18.9	
18	8.1	0.71	73.7	12.1	21.0	
19	7.2	0.70	69.0	11.6	20.4	
20	8.1	0.66	86.2	11.0	21.2	
26	8.4	0.74	71.1	10.2	19.0	
27	6.8	0.73	68.9	10.9	21.7	
28	7.3	0.62	78.2	11.0	22.8	
29	7.5	0.94	75.3	11.1	19.9	
30	7.6	0.92	90.1	11.9	21.6	
Mean	7.78	0.757	78.02	11.15	20.82	
SD	0.58	0.105	8.25	0.58	1.26	
N	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Haematological Parameters				Rat
Group 2: 30 µg/ animal BNT162a1		MPV (fL)	PCT (%)	PDW (%)	RDW (%)	MPC (g/dL)
46	9.0	0.56	84.2	11.1	22.1	
47	7.9	0.66	93.1	11.2	22.2	
48	8.2	0.84	90.7	11.6	21.1	
49	8.6	0.49	77.1	10.8	22.3	
50	8.8	0.53	100.8	10.4	23.6	
56	7.9	0.59	89.0	12.2	21.7	
57	7.4	0.61	85.9	10.8	21.9	
58	8.1	0.59	90.9	11.1	22.2	
59	8.5	0.67	77.1	11.8	20.0	
60	8.2	0.65	84.9	11.4	21.9	
Mean	8.26	0.619	87.37	11.24	21.90	
SD	0.48	0.097	7.22	0.53	0.92	
N	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Haematological Parameters				Rat
Group 3: 10 µg/ animal BNT162a1		MPV (fL)	PCT (%)	PDW (%)	RDW (%)	MPC (g/dL)
76	6.7	0.96	85.1	10.7	24.2	
77	6.3	0.67	69.7	10.4	23.8	
78	7.1	0.91	85.4	11.8	22.0	
79	6.9	0.50	94.0	10.3	25.6	
80	7.0	0.75	98.0	10.7	24.4	
86	7.3	0.63	93.0	10.5	22.6	
87	6.5	0.93	72.9	11.3	22.9	
88	6.9	0.66	79.3	10.5	22.8	
89	7.4	0.68	94.1	11.1	24.0	
90	7.1	0.67	73.4	11.4	22.0	
Mean	6.92	0.736	84.49	10.87	23.43	
SD	0.34	0.150	10.23	0.50	1.16	
N	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Haematological Parameters			
Group 4: 30 µg/ animal BNT162b1		MPV (fL)	PCT (%)	PDW (%)	RDW (%)
106	7.6	0.82	77.2	13.2	22.0
107	7.6	0.70	86.9	11.8	21.8
108	7.0	0.66	80.2	11.5	23.2
109	7.6	0.96	80.5	12.1	20.5
110	8.1	0.85	73.5	11.4	20.1
116	7.2	0.72	67.5	11.4	21.3
117	8.1	0.66	87.8	12.0	21.2
118	9.2	0.80	86.1	12.5	21.0
119	7.7	0.69	85.7	11.0	22.1
120	8.4	0.84	84.1	11.6	21.4
Mean	7.85	0.770	80.95	11.85	21.46
SD	0.63	0.099	6.60	0.64	0.88
N	10	10	10	10	10

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Haematological Parameters				Rat
Group 5: 100 µg/ animal BNT162b1		MPV (fL)	PCT (%)	PDW (%)	RDW (%)	MPC (g/dL)
136	7.0	0.61	83.4	12.7	23.7	
137	7.1	0.78	64.7	10.3	22.7	
138	7.0	0.68	87.0	11.9	24.5	
139	7.1	0.82	81.0	11.7	22.9	
140	7.0	0.68	91.8	10.8	24.8	
146	7.7	0.66	85.7	11.3	23.4	
147	6.4	0.77	80.9	10.7	23.7	
148	7.5	0.79	80.2	11.9	23.4	
149	7.5	0.90	91.3	12.6	23.8	
150	7.2	0.79	97.7	12.2	25.1	
Mean	7.15	0.748	84.37	11.61	23.80	
SD	0.36	0.088	8.93	0.82	0.78	
N	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Haematological Parameters				Rat
Group 6: 30 µg/ animal BNT162c1		MPV (fL)	PCT (%)	PDW (%)	RDW (%)	MPC (g/dL)
166	7.4	0.67	79.5	11.3	23.0	
167	7.4	0.60	83.9	11.4	22.7	
168	6.7	0.78	91.6	11.9	24.7	
169	7.0	0.86	83.8	11.3	22.4	
170	6.6	0.60	84.0	10.8	22.9	
176	7.6	0.74	90.8	10.9	23.4	
177	7.2	0.75	70.1	10.7	21.5	
178	7.7	0.62	94.9	11.5	23.8	
179	6.7	0.77	86.0	12.3	24.1	
180	7.6	0.77	100.3	11.6	24.3	
Mean	7.19	0.716	86.49	11.37	23.28	
SD	0.41	0.089	8.46	0.50	0.97	
N	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Haematological Parameters				Rat
Group 7: 100 µg/ animal BNT162b2		MPV (fL)	PCT (%)	PDW (%)	RDW (%)	MPC (g/dL)
196	6.9	0.66	82.2	10.2	23.7	
197	7.3	0.72	90.5	12.0	24.5	
198	7.5	0.69	89.5	10.8	25.6	
199	7.2	0.73	65.7	11.7	21.9	
200	6.6	0.64	76.3	10.2	24.2	
206	7.7	0.67	94.9	11.1	24.0	
207	6.5	0.66	71.0	10.5	25.0	
208	8.0	0.77	83.9	12.0	22.9	
209	7.4	0.93	93.5	11.7	23.6	
210	7.4	0.86	78.4	12.4	23.7	
Mean	7.25	0.733	82.59	11.26	23.91	
SD	0.47	0.095	9.77	0.81	1.04	
N	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 10 Relative to Start Date	Haematological Parameters				Rat
Group 6: 30 µg/ animal BNT162c1		MPV (fL)	PCT (%)	PDW (%)	RDW (%)	MPC (g/dL)
166	8.4	0.47	97.8	13.3	24.1	
167	9.1	0.49	105.4	12.4	23.1	
168	8.5	0.56	99.7	12.2	23.7	
169	8.6	0.66	98.3	12.6	22.5	
170	8.0	0.46	101.8	11.9	23.7	
171	7.8	0.39	92.1	10.7	22.5	
172	11.3	0.33	93.7	12.8	23.3	
173	8.6	0.40	99.6	11.6	25.2	
174	7.9	0.44	107.4	11.3	23.7	
175	8.2	0.64	99.4	12.9	23.9	
Mean	8.64	0.484	99.52	12.17	23.57	
SD	1.01	0.107	4.66	0.80	0.79	
N	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Haematological Parameters			
Group 1: Control		MPV (fL)	PCT (%)	PDW (%)	RDW (%)
16	11.1	1.08	56.3	15.1	18.8
17	12.0	1.52	57.8	15.3	15.8
18	10.6	0.98	54.2	14.1	18.6
19	10.3	1.14	57.5	14.3	17.4
20	10.6	0.94	57.4	13.4	18.0
21	10.7	0.99	58.9	13.7	17.3
22	10.4	1.22	56.4	14.6	18.9
23	10.9	1.13	54.2	14.2	16.8
24	10.6	1.24	59.1	13.8	18.7
25	10.6	1.32	54.5	14.0	17.4
Mean	10.78	1.156	56.63	14.25	17.77
SD	0.48	0.177	1.84	0.60	1.01
N	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Haematological Parameters			
Group 2: 30 µg/ animal BNT162a1		MPV (fL)	PCT (%)	PDW (%)	RDW (%)
46	11.8	0.54	74.0	16.0	20.2
47	11.8	0.61	65.4	16.1	18.7
48	11.0	1.01	63.8	15.7	18.8
49	13.5	0.54	70.1	17.2	20.6
50	12.9	0.68	70.4	16.5	20.6
51	11.1	0.75	63.6	15.1	19.2
52	14.3	0.89	81.6	16.0	21.1
53	10.9	0.86	67.6	15.0	19.6
54	11.0	0.73	67.1	14.8	19.4
55	11.0	0.72	61.8	15.9	19.0
Mean	11.93	0.733	68.54	15.83	19.72
SD	1.22	0.153	5.88	0.73	0.85
N	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Haematological Parameters			
Group 3: 10 µg/ animal BNT162a1		MPV (fL)	PCT (%)	PDW (%)	RDW (%)
76	9.1	0.84	81.6	13.1	20.0
77	8.3	0.71	74.1	13.7	19.1
78	8.4	0.75	75.4	13.3	18.9
79	9.4	0.46	83.8	14.4	20.3
80	9.1	0.58	93.5	12.5	21.4
81	8.6	0.50	83.2	12.9	20.5
82	8.2	0.69	94.0	12.7	20.9
83	11.4	0.67	80.8	12.8	20.6
84	8.1	0.42	76.2	12.1	21.5
85	8.7	0.57	84.6	12.6	20.2
Mean	8.93	0.619	82.72	13.01	20.34
SD	0.97	0.135	6.86	0.66	0.86
N	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Haematological Parameters			
Group 4: 30 µg/ animal BNT162b1		MPV (fL)	PCT (%)	PDW (%)	RDW (%)
106	10.7	1.09	61.3	15.2	19.0
107	10.2	0.82	62.9	14.5	19.3
108	10.3	0.95	69.2	15.9	20.4
109	10.4	0.97	53.7	15.2	17.8
110	10.2	1.00	61.0	14.7	19.9
111	10.3	0.91	58.3	14.6	19.5
112	9.8	0.81	67.1	15.0	20.8
113	10.6	0.64	57.0	14.4	18.9
114	11.7	1.02	63.5	16.3	19.9
115	11.3	1.03	58.7	15.4	17.8
Mean	10.55	0.924	61.27	15.12	19.33
SD	0.56	0.134	4.66	0.62	1.00
N	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Haematological Parameters			
Group 5: 100 µg/ animal BNT162b1		MPV (fL)	PCT (%)	PDW (%)	RDW (%)
136	8.7	0.70	86.6	14.5	21.9
137	9.0	0.65	74.2	12.7	21.4
138	8.8	0.66	70.5	13.9	20.1
139	9.7	0.54	89.9	14.1	20.2
140	9.3	0.55	81.9	13.5	21.1
141	9.0	0.74	82.8	11.9	20.8
142	8.8	0.53	80.9	12.8	21.2
143	11.2	0.62	94.9	12.8	23.3
144	10.0	0.85	90.3	13.9	21.3
145	8.9	0.70	90.6	12.9	22.3
Mean	9.34	0.654	84.26	13.30	21.36
SD	0.78	0.100	7.72	0.80	0.96
N	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Haematological Parameters				Rat
Group 7: 100 µg/ animal BNT162b2		MPV (fL)	PCT (%)	PDW (%)	RDW (%)	MPC (g/dL)
196	8.9	0.71	76.4	14.5	21.1	
197	9.1	0.69	75.6	14.9	20.7	
198	9.5	0.77	81.2	13.2	21.8	
199	8.8	0.58	74.1	13.5	20.4	
200	10.0	0.66	93.1	13.5	22.6	
201	9.5	0.71	91.2	12.9	21.6	
202	9.5	0.56	79.8	12.7	19.4	
203	8.6	0.65	79.3	12.6	20.4	
204	8.8	0.79	72.2	12.7	20.3	
205	12.6	0.45	83.6	13.2	21.9	
Mean	9.53	0.657	80.65	13.37	21.02	
SD	1.16	0.103	6.96	0.78	0.96	
N	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 31 Relative to Start Date	Haematological Parameters			
Group 6: 30 µg/ animal BNT162c1		MPV (fL)	PCT (%)	PDW (%)	RDW (%)
176	7.9	0.96	67.5	12.9	20.7
177	7.7	0.77	64.4	12.9	19.9
178	9.0	0.75	79.2	13.2	20.4
179	7.9	0.78	87.9	12.5	22.3
180	7.4	0.82	62.0	13.3	20.5
Mean	7.98	0.816	72.20	12.96	20.76
SD	0.61	0.084	10.98	0.31	0.91
N	5	5	5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Haematological Parameters			
Group 1: Control		MPV (fL)	PCT (%)	PDW (%)	RDW (%)
26	8.8	0.88	62.8	10.9	18.2
27	8.0	0.81	61.6	11.7	18.5
28	9.2	0.47	68.5	12.1	17.6
29	8.2	1.02	63.9	11.3	18.0
30	8.3	0.83	74.7	12.2	19.3
Mean	8.50	0.802	66.30	11.64	18.32
SD	0.49	0.203	5.37	0.55	0.64
N	5	5	5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Haematological Parameters			
Group 2: 30 µg/ animal BNT162a1		MPV (fL)	PCT (%)	PDW (%)	RDW (%)
56	8.2	0.93	66.7	13.1	18.6
57	8.1	0.75	63.5	12.8	18.2
58	7.9	0.80	60.7	13.6	20.2
59	9.1	0.75	68.4	14.2	18.0
60	8.9	0.71	75.0	13.2	19.5
Mean	8.44	0.788	66.86	13.38	18.90
SD	0.53	0.086	5.43	0.54	0.93
N	5	5	5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Haematological Parameters			
Group 3: 10 µg/ animal BNT162a1		MPV (fL)	PCT (%)	PDW (%)	RDW (%)
86	7.3	0.73	72.1	12.7	20.7
87	7.4	0.98	64.3	12.6	19.8
88	8.2	0.72	72.3	14.5	20.7
89	9.1	0.87	75.4	13.4	19.5
90	8.4	0.69	77.2	12.5	19.6
Mean	8.08	0.798	72.26	13.14	20.06
SD	0.75	0.123	4.94	0.84	0.59
N	5	5	5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Haematological Parameters			
Group 4: 30 µg/ animal BNT162b1		MPV (fL)	PCT (%)	PDW (%)	RDW (%)
116	8.0	0.66	74.4	12.7	20.0
117	9.2	0.77	77.4	13.4	18.9
118	9.3	0.86	72.3	12.7	19.4
119	7.8	0.59	68.0	13.2	20.1
120	9.0	0.69	73.7	13.4	19.0
Mean	8.66	0.714	73.16	13.08	19.48
SD	0.71	0.104	3.43	0.36	0.55
N	5	5	5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Haematological Parameters			
Group 5: 100 µg/ animal BNT162b1		MPV (fL)	PCT (%)	PDW (%)	RDW (%)
146	8.3	0.60	69.9	13.4	19.7
147	7.8	0.85	63.0	13.2	19.0
148	7.5	0.60	60.3	13.1	20.3
149	7.3	0.67	89.8	13.4	23.2
150	7.8	0.74	76.4	13.7	21.0
Mean	7.74	0.692	71.88	13.36	20.64
SD	0.38	0.106	11.82	0.23	1.61
N	5	5	5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Haematological Parameters			
Group 7: 100 µg/ animal BNT162b2		MPV (fL)	PCT (%)	PDW (%)	RDW (%)
206	6.9	0.55	67.1	13.0	21.8
207	7.9	0.75	70.6	13.1	21.0
208	8.2	0.85	75.3	13.6	21.6
209	7.6	0.81	71.4	13.4	20.8
210	8.2	0.94	77.3	13.7	19.6
Mean	7.76	0.780	72.34	13.36	20.96
SD	0.54	0.146	4.02	0.30	0.86
N	5	5	5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Measurement</u>	<u>Type</u>	<u>Marker</u>
10	6	Male	152	HGB	Quality Flag	(Include)	
10	6	Male	152	RBC	Quality Flag	(Include)	
10	6	Male	152	WBC	Quality Flag	(Include)	
10	6	Male	152	Reticulocyte (Relative)	Quality Flag	(Include)	
10	6	Male	152	Reticulocyte (Absolute)	Quality Flag	(Include)	
10	6	Male	152	PLT	Quality Flag	(Include)	
10	6	Male	152	HCT	Quality Flag	(Include)	

Comments and Markers

<u>Type</u>	<u>Marker</u>
Quality Flag	(Include)

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Measurement</u>	<u>Type</u>	<u>Marker</u>
10	6	Male	Male	152	Neutrophils (Relative)	Quality Flag	(Include)
10	6	Male	Male	152	Lymphocytes (Relative)	Quality Flag	(Include)
10	6	Male	Male	152	Monocytes (Relative)	Quality Flag	(Include)
10	6	Male	Male	152	Eosinophils (Relative)	Quality Flag	(Include)
10	6	Male	Male	152	Large Urcia Cells Rel	Quality Flag	(Include)
10	6	Male	Male	152	Basophils (Relative)	Quality Flag	(Include)

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	<u>Measurement</u>	<u>Type</u>	<u>Marker</u>
10	6	Male	Male	152		Neutrophils (Absolute)	Quality Flag	(Include)
10	6	Male	Male	152		Lymphocytes (Absolute)	Quality Flag	(Include)
10	6	Male	Male	152		Monocytes (Absolute)	Quality Flag	(Include)
10	6	Male	Male	152		Eosinophils (Absolute)	Quality Flag	(Include)
10	6	Male	Male	152		Large Urcias sified Cells	Quality Flag	(Include)
10	6	Male	Male	152		Basophils (Absolute)	Quality Flag	(Include)

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Type</u>	<u>Marker</u>
10	6	Male	152		Quality Flag	I (Include)
10	6	Male	152		Quality Flag	I (Include)
10	6	Male	152		Quality Flag	I (Include)
17	1	Male	2		Replacement	NV
17	1	Male	2	Comment: Sample clotted		
17	1	Male	2	aPTT		
17	1	Male	2	Comment: Sample clotted		
17	3	Male	62	Fibrinogen		
17	3	Male	62	Comment: Sample clotted		
17	3	Male	62	PT		
17	3	Male	62	aPTT		
17	3	Male	62	Comment: Sample clotted		
				Fibrinogen		
				Comment: Sample clotted		

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Measurement</u>	<u>Type</u>	<u>Marker</u>
10	6	Male	152		MPV	Quality Flag	(Include)
10	6	Male	152		Plateletcrit	Quality Flag	(Include)
10	6	Male	152		Platelet Dist Width	Quality Flag	(Include)
10	6	Male	152		RDW	Quality Flag	(Include)
10	6	Male	152		MPC	Quality Flag	(Include)

Comments and Markers

<u>Type</u>	Quality Flag
<u>Marker</u>	(Include)
<u>Type</u>	Quality Flag
<u>Marker</u>	(Include)
<u>Type</u>	Quality Flag
<u>Marker</u>	(Include)
<u>Type</u>	Quality Flag
<u>Marker</u>	(Include)
<u>Type</u>	Quality Flag
<u>Marker</u>	(Include)

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Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>		<u>Type</u>	<u>Marker</u>
					<u>Measurement</u>	<u>PT</u>		
17	3	Female	79	Comment: Sample clotted	aPTT		Replacement	NV
17	3	Female	79	Comment: Sample clotted	Fibrinogen		Replacement	NV
17	4	Female	79	Comment: Sample clotted	PT		Replacement	NV
17	4	Female	106	Comment: Sample clotted	aPTT		Replacement	NV
17	4	Female	106	Comment: Sample clotted	Fibrinogen		Replacement	NV
17	7	Female	106	Comment: Sample clotted	PT		Replacement	NV
17	7	Female	106	Comment: Sample clotted	aPTT		Replacement	NV
17	7	Female	197	Comment: Sample clotted	Fibrinogen		Replacement	NV
17	7	Female	197	Comment: Sample clotted	PT		Replacement	NV
17	7	Female	197	Comment: Sample clotted	aPTT		Replacement	NV
17	7	Female	202	Comment: Sample clotted	Fibrinogen		Replacement	NV
17	7	Female	202	Comment: Sample clotted	PT		Replacement	NV
38	1	Female	28	Comment: Sample clotted	aPTT		Replacement	NV
38	1	Female	28	Comment: Sample clotted	Fibrinogen		Replacement	NV
				Comment: Sample clotted				

Three LNP-Formulated  
 RNA Platforms encoding for Viral Proteins

TABLE 6-2 Haematological Parameters - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Measurement</u>	<u>Type</u>	<u>Marker</u>
38		2	Female	57	aPTT	Replacement	NV
			Comment:	Sample clotted			
38		2	Female	57	Fibrinogen	Replacement	NV
			Comment:	Sample clotted			
38		3	Female	89	Fibrinogen	Replacement	NM
			Comment:	No Measurement			

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

		Day: 4 Relative to Start Date							
		Sex: Male			Biochemical Parameters			Rat	
		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (μmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (μmol/L)	Glucose (mmol/L)	
Group 1: Control		[a] 29.48 0.68 10	[a] 27.12 0.71 10	[a] 1.087 0.029 10	[a] 3.71 0.70 10	[a] 1.982 0.371 10	[a] 39.6 2.1 10	[a2] 9.142 0.548 10	
Group 2: 30 µg/ animal BNT162a1		Mean SD N %Diff	26.70 ** 0.41 10 -9.4	29.70 ** 1.56 10 9.5	0.901 ** 0.045 10 -17.1	3.24 0.46 10 -12.7	1.611 * 0.348 10 -18.7	37.6 2.1 10 -5.1	8.973 0.493 10 -1.8
Group 3: 10 µg/ animal BNT162a1		Mean SD N %Diff	27.48 ** 0.70 10 -6.8	27.62 0.99 10 1.8	0.996 ** 0.036 10 -8.4	2.72 ** 0.39 10 -26.7	1.730 0.265 10 -12.7	43.2 ** 2.5 10 9.1	6.324 ** 0.663 10 -30.8
Group 4: 30 µg/ animal BNT162b1		Mean SD N %Diff	28.27 ** 0.62 10 -4.1	31.43 ** 1.98 10 15.9	0.902 ** 0.042 10 -17.1	3.26 0.44 10 -12.1	1.647 0.233 10 -16.9	39.7 1.6 10 0.3	8.610 0.443 10 -5.8

[a] - Anova &amp; Dunnett.. \* = p ≤ 0.05; \*\* = p ≤ 0.01

[a1] - Anova &amp; Dunnett(Log): \*\* = p ≤ 0.01

[a2] - Anova &amp; Dunnett(Rank): \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1      Biochemical Parameters - Summary

		Day: 4 Relative to Start Date						Rat	
Sex: Male		Biochemical Parameters			Biochemical Parameters				
		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (μmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (μmol/L)	Glucose (mmol/L)	
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	27.41** 0.63 10 -7.0	29.59** 1.87 10 9.1	[a] 0.051 10 -14.6	[a] 0.929** 0.051 10 -27.2	[a] 2.70** 0.24 10 -26.4	[a] 1.458** 0.358 10 -9.8	[a] 43.5** 3.1 10 9.8	[a] 6.074** 0.703 10 -33.6
Group 6: 30 µg/ animal BNT162c1	Mean SD N %Diff	27.22** 0.44 10 -7.7	28.88* 1.04 10 6.5	[a] 0.944** 0.038 10 -13.2	[a] 2.64** 0.23 10 -28.8	[a] 1.598* 0.225 10 -19.4	[a] 42.5** 4.5 10 7.3	[a] 6.837** 1.050 10 -25.2	[a] 6.837** 1.050 10 -25.2
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	26.79** 0.86 10 -9.1	29.11* 1.83 10 7.3	[a] 0.923** 0.051 10 -15.1	[a] 2.78** 0.32 10 -25.1	[a] 1.478** 0.221 10 -25.4	[a] 43.6* 4.6 10 10.1	[a] 6.753** 1.946 10 -26.1	[a] 6.753** 1.946 10 -26.1

[a] - Anova & Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

Day: 10 Relative to Start Date		Biochemical Parameters						Rat
Sex: Male		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (μmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (μmol/L)	Glucose (mmol/L)
Group 6: 30 µg/ animal	Mean SD N	[a] 27.32n 0.87 10	[a] 28.08n 1.60 10	[a] 0.975n 0.042 10	[a] 3.12n 0.39 10	[a] 1.227n 0.191 10	[a] 44.6n 4.0 10	[a] 8.840n 1.072 10
BNT162c1	-	-	-	-	-	-	-	-

[a] - Anova &amp; Dunnett: n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1      Biochemical Parameters - Summary

		Day: 17 Relative to Start Date										Rat	
		Sex: Male					Biochemical Parameters						
		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (μmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (μmol/L)	Glucose (mmol/L)					
Group 1: Control		[a] 28.34 SD 1.08 N 10	[a] 25.36 1.40 10	[a] 1.119 0.048 10	[a1] 2.38 0.26 10	[a2] 1.894 0.369 10	[a] 46.0 2.4 10	[a] 9.517 1.289 10					
Group 2: 30 µg/ animal BNT162a1		Mean 0.61 SD 0.10 N 5.5	26.78 ** 1.08 10 9.7	27.82 ** 0.026 10 -13.9	0.963 ** 0.026 10 40.3	3.34 ** 0.28 10 -37.5	1.184 ** 0.293 10 -37.5	47.0 4.0 10 2.2	8.263 1.061 10 -13.2				
Group 3: 10 µg/ animal BNT162a1		Mean 0.84 SD 0.10 N 5.9	26.67 ** 1.39 10 6.6	27.03 0.037 10 -11.7	0.988 ** 0.037 10 31.5	3.13 ** 0.40 10 -21.6	1.485 * 0.202 10 5.2	48.4 2.0 10 5.2	8.385 0.884 10 -11.9				
Group 4: 30 µg/ animal BNT162b1		Mean 0.66 SD 0.10 N -3.9	27.23 ** 1.72 10 18.6	30.07 ** 0.048 10 -18.9	0.908 ** 0.048 10 20.2	2.86 0.28 10 -40.1	1.135 ** 0.164 10 2.4	47.1 2.1 10 2.4	8.697 0.945 10 8.6				

[a] - Anova &amp; Dunnett.. \*\* = p ≤ 0.01

[a1] - Anova &amp; Dunnett(Rank): \*\* = p ≤ 0.01

[a2] - Anova &amp; Dunnett(Log): \* = p ≤ 0.05; \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

Day: 17 Relative to Start Date		Biochemical Parameters						Rat
Sex: Male		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (μmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (μmol/L)	Glucose (mmol/L)
Group 5: 100 µg/ animal	Mean SD N %Diff	27.26** 0.70 10 -3.8	32.04** 1.77 10 26.3	[a] 0.853** 0.044 10 -23.8	[a] 3.48** 0.75 10 46.2	[a] 1.298** 0.246 10 -31.5	[a] 50.6** 3.2 10 10.0	[a] 8.165 1.205 10 -14.2
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	26.68** 0.47 10 -5.9	31.22** 1.29 10 23.1	[a] 0.856** 0.029 10 -23.6	[a] 3.40** 0.36 10 42.9	[a] 1.290** 0.147 10 -31.9	[a] 51.5** 3.7 10 12.0	[a] 8.930 0.918 10 -6.2

[a] - Anova &amp; Dunnett: \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

Day: 31 Relative to Start Date		Biochemical Parameters						
Sex: Male		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (μmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (μmol/L)	Glucose (mmol/L)
Group 6: 30 µg/ animal	Mean SD N	[a] 27.92n 0.72 5	[a] 27.88n 0.87 5	[a] 1.002n 0.034 5	[a] 3.04n 0.11 5	[a] 1.518n 0.066 5	[a] 49.8n 2.3 5	[a] 9.060n 1.876 5
BNT162c1		-	-	-	-	-	-	-

[a] - Anova &amp; Dunnett n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

Day: 38 Relative to Start Date				Biochemical Parameters				Rat	
Sex: Male		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (μmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (μmol/L)	Glucose (mmol/L)	
Group 1: Control	Mean SD N	28.88 0.92 5	27.32 0.53 5	1.057 0.038 5	2.96 0.55 5	1.478 0.184 5	48.0 2.7 5	9.988 2.833 5	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	28.44 0.84 5 -1.5	26.96 1.27 5 -1.3	1.057 0.054 5 -0.1	3.10 0.59 5 4.7	1.706 0.429 5 15.4	48.8 2.2 5 1.7	10.420 1.641 5 4.3	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	28.40 0.92 5 -1.7	25.00 0.92 5 -8.5	1.137 0.063 5 7.6	2.94 0.36 5 -0.7	1.664 0.249 5 12.6	48.8 1.9 5 1.7	10.504 0.898 5 5.2	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	28.34 0.76 5 -1.9	28.66 2.42 5 4.9	0.994 0.083 5 -6.0	2.54 0.38 5 -14.2	1.818 0.269 5 23.0	53.2** 1.3 5 10.8	9.794 1.207 5 -1.9	

[a] - Anova &amp; Dunnett. \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

Day: 38 Relative to Start Date		Biochemical Parameters						Rat
Sex: Male		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (μmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (μmol/L)	Glucose (mmol/L)
Group 5: 100 µg/ animal	Mean SD N	28.46 0.78 5	24.94 2.59 5	1.150 0.112 5	2.76 0.30 5	1.646 0.183 5	50.0 3.5 5	10.282 1.654 5
BNT162b1	%Diff	-1.5	-8.7	8.8	-6.8	11.4	4.2	2.9
Group 7: 100 µg/ animal	Mean SD N	29.14 0.51 5	27.66 1.67 5	1.057 0.070 5	2.88 0.13 5	1.908 0.288 5	48.6 1.7 5	9.008 0.858 5
BNT162b2	%Diff	0.9	1.2	-0.1	-2.7	29.1	1.3	-9.8

[a] - Anova &amp; Dunnett

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

		Biochemical Parameters						Rat	
		Day: 4 Relative to Start Date	Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
Sex: Male		[a]	[a]	[a]	[a]	[a]	[a]	[a]	[a]
Group 1: Control		Mean SD N	2.563 0.165 10	56.6 1.2 10	1.911 0.680 10	5.954 0.858 10	2.824 0.058 10	100.9 0.7 10	4.393 0.307 10
Group 2: 30 µg/ animal BNT162a1		Mean SD N %Diff	2.555 0.081 10 -0.3	56.4 1.8 10 0.4	1.127** 0.400 10 -41.0	6.670 0.444 10 12.0	2.798 0.084 10 -0.9	101.0 0.9 10 0.1	4.478 0.274 10 1.9
Group 3: 10 µg/ animal BNT162a1		Mean SD N %Diff	2.695 0.136 10 5.2	55.1 1.4 10 2.7	0.573** 0.170 10 -70.0	7.432 1.467 10 24.8	2.635** 0.076 10 -6.7	102.1** 0.7 10 1.2	3.984** 0.190 10 -9.3
Group 4: 30 µg/ animal BNT162b1		Mean SD N %Diff	2.338* 0.144 10 -8.8	59.7** 2.5 10 5.5	1.504 0.360 10 -21.3	6.626 0.739 10 11.3	2.842 0.061 10 0.6	101.0 0.7 10 0.1	4.411 0.224 10 0.4

[a] - Anova &amp; Dunnett(Rank). \* = p ≤ 0.05, \*\* = p ≤ 0.01

[a1] - Anova &amp; Dunnett. \*\* = p ≤ 0.01

[a2] - Anova &amp; Dunnett(Log). \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

		Day: 4 Relative to Start Date						
		Biochemical Parameters						
Sex: Male		Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	2.609 0.087 10 1.8	57.0 2.3 10 0.7	[a] 0.507** 0.236 10	[a] 7.586 1.408 10	[a] 2.639** 0.107 10	[a] 103.0** 0.5 10	[a] 3.925** 0.217 10
Group 6: 30 µg/ animal BNT162c1	Mean SD N %Diff	2.622 0.204 10 2.3	56.1 1.1 10 0.9	[a] 0.565** 0.197 10 -70.4	[a] 6.660 0.812 10 11.9	[a] 2.567** 0.097 10 -9.1	[a] 102.9** 0.9 10 2.1	[a] 4.315 0.239 10 -10.7
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	2.569 0.225 10 0.2	55.9 2.4 10 -1.2	[a] 0.507** 0.162 10 -73.5	[a] 7.298 1.831 10 22.6	[a] 2.632** 0.137 10 -6.8	[a] 103.0** 1.2 10 2.1	[a] 4.043* 0.283 10 -8.0

[a] - Anova &amp; Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

Day: 10 Relative to Start Date		Biochemical Parameters						
Sex: Male		Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
Group 6: 30 µg/ animal	Mean SD N	2.571n 0.163 10	55.4n 2.3 10	0.456n 0.115 10	8.006n 0.595 10	2.575n 0.086 10	99.0n 1.4 10	3.987n 0.223 10
BNT162c1		-	-	-	-	-	-	-

[a] - Anova &amp; Dunnett n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

Day: 17 Relative to Start Date		Biochemical Parameters						Rat
Sex: Male		Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
Group 1: Control	Mean SD N	[a] 2.245 0.295 10	[a] 53.7 2.2 10	[a] 0.413 0.139 10	[a] 6.968 0.751 10	[a] 2.546 0.088 10	[a] 100.6 1.4 10	[a] 3.904 0.390 10
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	2.658 ** 0.329 10 18.4	54.6 1.6 10 1.7	0.509 0.163 10 23.2	8.386 ** 0.947 10 20.4	2.621 0.090 10 2.9	100.4 1.7 10 -0.2	4.182 0.390 10 7.1
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	2.416 0.213 10 7.6	53.7 2.1 10 0.0	0.540 0.073 10 30.8	8.267 * 1.117 10 18.6	2.512 0.073 10 -1.3	99.8 1.2 10 -0.8	3.959 0.132 10 1.4
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	2.145 0.265 10 -4.5	57.3 ** 2.1 10 6.7	0.368 0.094 10 -10.9	7.457 1.596 10 7.0	2.556 0.098 10 0.4	100.6 1.6 10 0.0	4.141 0.527 10 6.1

[a] - Anova &amp; Dunnett: \*\* = p ≤ 0.01

[a] - Anova &amp; Dunnett(Rank): \* = p ≤ 0.05; \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

Day: 17 Relative to Start Date		Biochemical Parameters						
Sex: Male		Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
Group 5: 100 µg/ animal	Mean SD N %Diff	2.324 0.286 9 3.5	[a] 59.3** 2.1 10	[a] 0.545 0.160 10	[a] 8.536** 1.115 10	[a] 2.579 0.066 10	[a] 100.4 1.5 10	[a] 4.073 0.391 9
BNT162b1								
Group 7: 100 µg/ animal	Mean SD N %Diff	2.365 0.245 10 5.3	10.4 57.9** 1.6 10	32.0 0.478 0.124 10	22.5 9.437** 1.246 10	1.3 2.607 0.068 10	-0.2 100.1 0.7 10	4.3 4.220 0.342 10
BNT162b2								

[a] - Anova &amp; Dunnett: \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

Day: 31 Relative to Start Date		Biochemical Parameters						
	Sex: Male	Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
Group 6: 30 µg/ animal	Mean SD N	2.120n 0.571 5	[a] 55.8n 1.3 5	[a] 0.466n 0.170 5	[a] 6.506n 0.397 5	[a] 2.414n 0.083 5	[a] 103.8n 0.8 5	[a] 4.242n 0.950 5

[a] - Anova &amp; Dunnett n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

Day: 38 Relative to Start Date			Biochemical Parameters						Rat
			Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
Sex: Male	[a]	[a]	[a]	[a]	[a]	[a]	[a]	[a]	[a]
Group 1: Control	Mean SD N	2.138 0.150 5	56.2 1.1 5	0.498 0.075 5	6.770 1.318 5	2.546 0.110 5	103.2 0.8 5	3.922 0.229 5	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	2.192 0.227 5 2.5	55.4 1.7 5 -1.4	0.476 0.163 5 -4.4	7.182 0.582 5 6.1	2.540 0.082 5 -0.2	102.0 1.0 5 -1.2	4.068 0.083 5 -3.7	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	2.116 0.281 5 -1.0	53.4 1.1 5 -5.0	0.428 0.158 5 -14.1	7.546 0.909 5 11.5	2.482 0.055 5 -2.5	102.8 1.3 5 -0.4	3.944 0.417 5 -0.6	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	2.100 0.207 5 -1.8	57.0 2.7 5 1.4	0.568 0.070 5 14.1	7.636 1.044 5 12.8	2.464 0.070 5 -3.2	103.2 1.3 5 0.0	3.892 0.179 5 -0.8	

[a] - Anova & Dunnett  
 [a1] - Anova & Dunnett(Log)  
 [a2] - Anova & Dunnett(Rank)

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

Day: 38 Relative to Start Date		Biochemical Parameters						
Sex: Male		Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
Group 5: 100 µg/ animal	Mean SD N %Diff	2.160 0.288 5 1.0	53.4 2.9 5 5.0	0.538 0.195 5 8.0	7.690 1.256 5 13.6	2.502 0.064 5 -1.7	103.0 1.0 5 -0.2	4.062 0.136 5 3.6
BNT162b1								
Group 7: 100 µg/ animal	Mean SD N %Diff	2.194 0.116 5 2.6	56.8 1.5 5 1.1	0.712 0.182 5 43.0	7.494 1.460 5 10.7	2.522 0.052 5 -0.9	104.0 1.0 5 0.8	4.042 0.167 5 3.1
BNT162b2								

[a] - Anova &amp; Dunnett

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1      Biochemical Parameters - Summary

		Biochemical Parameters						Rat
		Sodium (mmol/L)	ALT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
	Sex: Male	[a]	[a]	[a2]	[a1]	[a]	[a1]	[a]
Group 1: Control	Mean SD N	135.2 0.8 10	66.1 16.7 10	270.2 53.3 10	80.3 13.4 10	90.0 18.9 10	127.2 26.6 10	0.95 0.87 10
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	135.4 1.0 10 0.1	56.9 7.7 10 -13.9	257.9 32.8 10 4.6	85.1 3.9 10 6.0	68.6 18.5 10 -23.8	176.7 72.5 10 38.9	4.21** 0.96 10 343.2
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	136.6** 0.8 10 1.0	48.8** 7.1 10 -26.2	181.8** 50.3 10 -32.7	99.5** 8.5 10 23.9	117.5 25.6 10 30.6	120.0 93.1 10 -5.7	2.93** 0.51 10 208.4
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	135.9 0.6 10 0.5	61.9 8.7 10 -6.4	257.5 32.2 10 -4.7	77.3 6.0 10 -3.7	81.5 26.0 10 -9.4	216.6 110.3 10 70.3	2.52** 0.54 10 165.3

[a] - Anova &amp; Dunnett: \*\* = p ≤ 0.01

[a1] - Anova &amp; Dunnett(Rank): \*\* = p ≤ 0.01

[a2] - Anova &amp; Dunnett(Log): \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1      Biochemical Parameters - Summary

Sex: Male		Biochemical Parameters						Rat	
		Sodium (mmol/L)	ALT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)		
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	137.3** 0.7 10 1.6	45.6** 8.2 10 -31.0	[a] 195.0** 27.4 10 -27.8	[a] 87.0 9.3 10 8.3	[a] 126.5* 43.1 10 40.6	[a] 132.7 96.4 10 4.3	[a] 3.32** 0.65 10 249.5	
Group 6: 30 µg/ animal BNT162c1	Mean SD N %Diff	136.8** 0.9 10 1.2	44.2** 4.0 10 -33.1	[a] 189.8** 24.3 10 -29.8	[a] 95.4** 6.7 10 18.8	[a] 134.9** 35.0 10 49.9	[a] 152.7 48.9 10 20.0	[a] 3.60** 1.09 10 278.9	
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	137.3** 0.8 10 1.6	44.4** 9.3 10 -32.8	[a] 209.9** 27.2 10 -22.3	[a] 95.9** 9.0 10 19.4	[a] 138.7** 39.1 10 54.1	[a] 155.1 64.8 10 21.9	[a] 3.25** 1.09 10 242.1	

[a] - Anova & Dunnett: \* =  $p \leq 0.05$ ; \*\* =  $p \leq 0.01$

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

Day: 10 Relative to Start Date		Biochemical Parameters						
Sex: Male		Sodium (mmol/L)	ALT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
Group 6: 30 µg/ animal BNT162c1	Mean SD N	[a] 132.1 1.4 10	[a] 49.5n 4.6 10	[a] 160.3n 13.9 10	[a] 110.4n 9.9 10	[a] 124.6n 25.5 10	[a] 152.6n 53.9 10	[a] 3.98n 1.12 10

[a] - Anova &amp; Dunnett n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

		Biochemical Parameters						Rat
Day: 17 Relative to Start Date		Sodium (mmol/L)	ALT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
Sex: Male		[a]	[a]	[a]	[a]	[a]	[a]	[a]
Group 1: Control	Mean SD N	134.7 0.9 10	35.9 8.0 10	157.2 25.5 10	79.9 15.6 10	109.5 49.9 10	158.0 106.7 10	1.62 0.76 10
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	133.8 2.0 10 -0.7	40.1 8.2 10 11.7	190.6* 29.1 10 21.2	101.3** 12.9 10 26.8	134.0 38.8 10 22.4	165.6 56.6 10 4.8	4.43** 0.70 10 173.5
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	133.1* 1.1 10 -1.2	38.9 6.6 10 8.4	133.1 28.5 10 -15.3	93.8 17.3 10 17.4	124.1 44.2 10 13.3	124.7 22.9 10 -21.1	3.04** 0.90 10 87.7
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	134.4 1.6 10 -0.2	36.2 3.2 10 0.8	140.4 22.3 10 -10.7	88.7 8.2 10 -11.0	103.4 29.5 10 -5.6	154.2 38.4 10 -2.4	3.59** 0.56 10 121.6

[a] - Anova & Dunnett(Rank). \* = p ≤ 0.05  
 [a] - Anova & Dunnett. \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1      Biochemical Parameters - Summary

Sex: Male		Biochemical Parameters						Rat
		Sodium (mmol/L)	ALT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	
Group 5: 100 µg/ animal BNT162b1	Mean	132.4**	[a] 37.9	[a] 164.3	[a] 85.4	[a] 119.6	[a] 146.0	4.18** 1.00 10 10
	SD	2.5	13.7	25.3	8.7	24.4	42.1	
	N	10	10	10	9	9	10	
	%Diff	-1.7	5.6	4.5	6.9	9.2	-7.6	
Group 7: 100 µg/ animal BNT162b2	Mean	132.7**	34.0	182.1	89.1	124.3	126.4	4.83** 0.81 10 198.1
	SD	0.5	6.0	37.1	9.7	20.1	16.3	
	N	10	10	10	10	10	10	
	%Diff	-1.5	5.3	15.8	11.5	13.5	-20.0	

[a] - Anova & Dunnett: \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

Day: 31 Relative to Start Date		Biochemical Parameters						Rat
Sex: Male		Sodium (mmol/L)	ALT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
Group 6: 30 µg/ animal BNT162c1	Mean SD N	[a] 138.4 1.1 5	[a] 44.0 6.2 5	[a] 129.8 12.9 5	[a] 86.2 14.3 5	[a] 120.4 24.5 5	[a] 143.4 64.4 5	[a] 1.84 0.47 5

[a] - Anova &amp; Dunnett n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

Day: 38 Relative to Start Date				Biochemical Parameters					
Sex: Male		Sodium (mmol/L)	ALT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)	
Group 1: Control	Mean SD N	[a] 136.6 0.9 5	[a] 34.6 3.0 5	[a] 110.8 17.9 5	[a] 80.4 20.1 5	[a] 113.4 60.0 5	[a] 305.0 454.5 5	[a] 2.60 0.91 5	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	135.6 1.1 5 -0.7	35.4 3.8 5 2.3	117.8 6.9 5 6.3	78.2 3.8 5 -2.7	96.6 42.3 5 -14.8	220.8 165.0 5 -27.6	2.74 0.66 5 5.4	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	138.2 1.1 5 1.2	37.0 3.2 5 6.9	107.6 24.3 5 -2.9	86.6 13.2 5 7.7	132.6 59.6 5 16.9	173.6 131.2 5 -43.1	1.88 0.54 5 -27.7	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	137.8 2.2 5 0.9	40.4 3.0 5 16.8	133.0 28.5 5 20.0	87.6 5.9 5 9.0	72.4 44.9 5 -36.2	125.6 79.5 5 -58.8	2.30 0.50 5 -11.5	

[a] - Anova & Dunnett  
 [a1] - Anova & Dunnett(Rank)

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

		Biochemical Parameters						Rat
		Sodium (mmol/L)	ALT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
Day: 38 Relative to Start Date								
Sex: Male								
Group 5: 100 µg/ animal	Mean SD N %Diff	137.8 1.3 5 0.9	40.0 4.1 5 15.6	[a] [a] 5 14.1	[a] 126.4 22.3 5	[a] 88.8 14.3 5	[a] 105.6 50.4 5	[a] 235.6 87.7 5
BNT162b1								
Group 7: 100 µg/ animal	Mean SD N %Diff	138.4 0.9 5 1.3	39.8 6.5 5 15.0	[a] 117.4 22.3 5 6.0	[a] 82.6 10.9 5 2.7	[a] 74.2 4.1 5 -34.6	[a] -22.8 199.8 155.9 5 -34.5	[a] 48.5 -48.5 5 -30.0
BNT162b2								

[a] - Anova &amp; Dunnett

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

		Day: 4 Relative to Start Date						Rat	
Sex: Female		Biochemical Parameters			Biochemical Parameters				
		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (μmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (μmol/L)	Glucose (mmol/L)	
Group 1: Control	Mean SD N	[a] 31.61 1.45 10	[a] 27.69 1.71 10	[a] 1.144 0.062 10	[a] 3.51 0.76 10	[a] 1.865 0.309 10	[a2] 43.4 2.3 10	[a2] 9.037 0.940 10	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	27.15** 1.06 10 -14.1	28.95 1.09 10 4.6	0.938** 0.033 10 -18.0	3.68 0.65 10 4.8	1.989 0.388 10 6.6	42.1 1.9 10 -3.0	8.935 0.737 10 -1.1	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	28.03** 1.01 10 -11.3	25.67 1.82 10 -7.3	1.095 0.057 10 -4.3	2.79* 0.37 10 -20.5	2.062 0.275 10 10.6	44.4 3.2 10 2.3	6.889** 1.362 10 -23.8	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	28.97** 0.93 10 -8.4	30.33* 1.65 10 9.5	0.958** 0.057 10 -16.3	2.57** 0.40 10 -26.8	1.931 0.245 10 3.5	42.6 1.0 10 -1.8	8.841 0.731 10 -2.2	

[a] - Anova & Dunnett.. \* =  $p \leq 0.05$ ; \*\* =  $p \leq 0.01$ [a1] - Anova & Dunnett(Log): \* =  $p \leq 0.05$ ; \*\* =  $p \leq 0.01$ [a2] - Anova & Dunnett(Rank): \*\* =  $p \leq 0.01$

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

		Day: 4 Relative to Start Date						Rat	
Sex: Female		Biochemical Parameters			Biochemical Parameters				
		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (μmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (μmol/L)	Glucose (mmol/L)	
Group 5: 100 µg/ animal BNT162b1	Mean	28.21**	29.89	0.950**	[a] 2.77**	1.865	[a] 43.1	[a] 7.267	
	SD	0.69	2.80	0.072	0.37	0.441	3.3	1.698	
	N	10	10	10	10	10	10	10	
	%Diff	-10.8	7.9	-17.0	-21.1	0.0	-0.7	-19.6	
Group 6: 30 µg/ animal BNT162c1	Mean	27.92**	27.28	1.028**	3.07	1.948	44.2	7.362*	
	SD	0.66	2.12	0.072	0.34	0.336	2.1	1.562	
	N	10	10	10	10	10	10	10	
	%Diff	-11.7	-1.5	-10.1	-12.5	4.5	1.8	-18.5	
Group 7: 100 µg/ animal BNT162b2	Mean	27.62**	28.68	0.964**	2.73**	1.853	42.8	6.521**	
	SD	0.97	1.62	0.029	0.39	0.220	2.8	1.059	
	N	10	10	10	10	10	10	10	
	%Diff	-12.6	3.6	-15.7	-22.2	-0.6	-1.4	-27.8	

[a] - Anova &amp; Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

Day: 10 Relative to Start Date		Biochemical Parameters						Rat
Sex: Female		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (μmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (μmol/L)	Glucose (mmol/L)
Group 6: 30 µg/ animal	Mean SD N	27.35n 0.64 10	[a] 26.15n 1.70 10	[a] 1.049n 0.052 10	[a] 3.03n 0.20 10	[a] 1.632n 0.246 10	[a] 46.5n 3.3 10	[a] 8.044n 0.582 10
BNT162c1		-	-	-	-	-	-	-

[a] - Anova &amp; Dunnett n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1      Biochemical Parameters - Summary

		Day: 17 Relative to Start Date										Rat	
		Sex: Female					Biochemical Parameters						
		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	[a2]	Bilirubin (total) (μmol/L)	[a]	Choleste- rol (total) (mmol/L)	[a]	Crea- tinine (μmol/L)	[a]	Glucose (mmol/L)	
Group 1: Control		[a] 30.36 SD 1.12 N 10	[a1] 25.54 1.57 10	[a2] 1.192 0.069 10	[a]	3.03 0.53 10	1.764 0.389 10	46.8 3.5 10	46.8 3.5 10	9.502 0.829 10			
Group 2: 30 µg/ animal BNT162a1		Mean 0.84 SD 0.10 N 8.8	27.68 ** 3.23 10 13.6	29.02 ** 0.083 10 -19.3	0.962 ** 0.55 10 33.3	4.04 ** 0.55 10 3.1	1.818 0.349 10	47.9 2.6 10	47.9 2.6 10	7.820 ** 0.873 10			
Group 3: 10 µg/ animal BNT162a1		Mean 0.71 SD 0.10 N 8.8	27.69 ** 1.50 10 1.1	25.81 0.073 10 -9.7	1.076 0.51 10 19.1	3.61 0.51 10 7.4	1.894 0.384 10	49.2 2.5 10	49.2 2.5 10	8.533 1.076 10			
Group 4: 30 µg/ animal BNT162b1		Mean 1.04 SD 0.10 N -9.8	27.38 ** 1.72 10 17.9	30.12 ** 0.037 10 -23.6	0.910 ** 0.57 10 1.0	3.06 0.57 10 -17.9	1.448 0.284 10 0.9	47.2 1.8 10 0.9	47.2 1.8 10 0.9	8.614 1.551 10 -9.3			

[a] - Anova &amp; Dunnett.. \*\* = p ≤ 0.01

[a1] - Anova &amp; Dunnett(Log): \*\* = p ≤ 0.01

[a2] - Anova &amp; Dunnett(Rank): \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

		Biochemical Parameters						Rat
		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (μmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (μmol/L)	Glucose (mmol/L)
	Sex: Female	[a]	[a]	[a]	[a]	[a]	[a]	[a]
Group 5: 100 µg/ animal	Mean	27.17**	29.23**	0.933**	3.83*	1.444	49.3	8.167*
	SD	1.05	2.34	0.054	0.72	0.322	2.6	1.046
	N	10	10	10	10	10	10	10
BNT162b1	%Diff	-10.5	14.4	-21.7	26.4	-18.1	5.3	-14.0
Group 7: 100 µg/ animal	Mean	27.03 **	30.07 **	0.901 **	3.96 *	1.305 *	50.2 *	8.487
	SD	0.69	1.68	0.044	0.97	0.159	3.1	1.241
	N	10	10	10	10	10	10	10
BNT162b2	%Diff	-11.0	17.7	-24.4	30.7	-26.0	7.3	-10.7

[a] - Anova &amp; Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

Day: 31 Relative to Start Date		Biochemical Parameters						Rat
Sex: Female		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (μmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (μmol/L)	Glucose (mmol/L)
Group 6: 30 µg/ animal BNT162c1	Mean SD N	[a] 31.10n 1.53 5	[a] 28.50n 1.38 5	[a] 1.092n 0.041 5	[a] 3.46n 0.57 5	[a] 1.640n 0.498 5	[a] 52.8n 4.2 5	[a] 9.506n 0.880 5

[a] - Anova &amp; Dunnett n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

Day: 38 Relative to Start Date				Biochemical Parameters				Rat	
Sex: Female		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (μmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (μmol/L)	Glucose (mmol/L)	
Group 1: Control	Mean SD N	[a] 31.26 2.25 5	[a] 29.54 0.55 5	[a] 1.058 0.077 5	[a] 2.78 0.19 5	[a] 1.878 0.453 5	[a] 55.2 2.9 5	[a] 9.136 1.348 5	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	30.96 1.90 5 -1.0	30.64 1.69 5 3.7	1.011 0.051 5 -4.5	3.38 1.07 5 21.6	1.952 0.638 5 3.9	52.4 3.8 5 -5.1	8.822 1.369 5 -3.4	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	29.76 0.56 5 -4.8	23.84 ** 1.30 5 -19.3	1.251 ** 0.069 5 18.2	3.26 0.30 5 17.3	1.626 0.342 5 -13.4	51.0 1.7 5 -7.6	9.618 1.414 5 -5.3	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	30.80 0.79 5 -1.5	30.00 1.71 5 1.6	1.029 0.053 5 -2.8	3.00 0.39 5 7.9	1.780 0.124 5 -5.2	54.8 3.7 5 -0.7	10.114 1.512 5 10.7	

[a] - Anova & Dunnett: \*\* = p ≤ 0.01  
 [a] - Anova & Dunnett(Log)

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

Day: 38 Relative to Start Date		Biochemical Parameters						Rat
Sex: Female		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (μmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (μmol/L)	Glucose (mmol/L)
Group 5: 100 µg/ animal	Mean SD N	30.88 1.97 5	27.72 2.85 5	1.118 0.067 5	3.14 0.54 5	1.804 0.596 5	55.2 5.9 5	10.164 2.126 5
BNT162b1	%Diff	-1.2	-6.2	5.7	12.9	3.9	0.0	11.3
Group 7: 100 µg/ animal	Mean SD N	30.50 0.96 5	27.10 2.03 5	1.132 0.115 5	2.86 0.33 5	2.038 0.321 5	51.2 2.9 5	9.334 2.048 5
BNT162b2	%Diff	-2.4	-8.3	7.0	2.9	8.5	7.2	2.2

[a] - Anova &amp; Dunnett

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

Day: 4 Relative to Start Date		Biochemical Parameters						Rat
Sex: Female		Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
Group 1: Control	Mean SD N	[a] 2.207 0.225 10	[a] 59.3 2.8 10	[a] 1.560 0.602 10	[a] 6.913 0.943 10	[a] 2.770 0.089 10	[a] 102.2 1.2 10	[a] 4.244 0.257 10
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	2.487* 0.183 10 12.7	56.1* 1.9 10 5.4	1.846 0.538 10 18.3	6.966 0.775 10 0.8	2.815 0.064 10 1.6	100.7** 1.1 10 -1.5	4.118 0.190 10 -3.0
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	2.278 0.231 10 3.2	53.7** 2.6 10 -9.4	0.521** 0.109 10 -66.6	6.622 1.299 10 -4.2	2.640** 0.104 10 -4.7	103.3 0.8 10 -1.1	3.844* 0.216 10 -9.4
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	2.329 0.110 10 5.5	59.3 1.9 10 0.0	0.906** 0.334 10 -41.9	6.964 0.795 10 0.7	2.818 0.083 10 1.7	101.7 0.9 10 -0.5	4.226 0.309 10 -0.4

[a] - Anova & Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01  
 [a] - Anova & Dunnett(Log): \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

		Biochemical Parameters						Rat
		Day: 4 Relative to Start Date			Day: 7 Relative to Start Date			
Sex: Female		Phosphate (mmol/L)	Protein (total) (g/L)	Tri-glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	2.321 0.234 10 5.2	58.1 3.3 10 -2.0	[a] 0.534** 0.211 10 -65.8	[a] 6.604 1.059 10 -4.5	[a] 2.724 0.115 10 -1.7	[a] 103.3 0.8 10 1.1	[a] 4.040 0.381 10 -4.8
Group 6: 30 µg/ animal BNT162c1	Mean SD N %Diff	2.536 ** 0.236 10 14.9	55.2 ** 2.5 10 6.9	[a] 0.678 ** 0.248 10 -56.5	[a] 6.935 1.262 10 0.3	[a] 2.709 0.085 10 -2.2	[a] 102.5 1.0 10 0.3	[a] 4.006 0.214 10 -5.6
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	2.355 0.167 10 6.7	56.3 2.5 10 -5.1	[a] 0.441 ** 0.187 10 -71.7	[a] 6.147 0.594 10 -11.1	[a] 2.694 0.072 10 -2.7	[a] 103.3 1.2 10 1.1	[a] 3.980 0.316 10 -6.2

[a] - Anova &amp; Dunnett: \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

Day: 10 Relative to Start Date		Biochemical Parameters						
Sex: Female		Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
Group 6: 30 µg/ animal	Mean SD N	[a] 2.236n 0.167 10	[a] 53.5n 2.2 10	[a] 0.453n 0.105 10	[a] 8.592n 0.687 10	[a] 2.597n 0.087 10	[a] 100.2n 1.8 10	[a] 4.019n 0.285 10
BNT162c1	-	-	-	-	-	-	-	-

[a] - Anova &amp; Dunnett n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

		Biochemical Parameters						Rat
		Day: 17 Relative to Start Date			Day: 21 Relative to Start Date			
Sex: Female		Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
Group 1: Control		[a] 1.845 0.300 10	[a] 55.9 2.2 10	[a] 0.340 0.095 10	[a] 7.863 1.373 10	[a] 2.574 0.111 10	[a] 101.9 1.0 10	[a] 3.590 0.336 10
Group 2: 30 µg/ animal BNT162a1	%Diff	2.246** 0.237 10 21.7	56.7 3.8 10 1.4	0.475* 0.136 10 39.7	7.850 1.322 10 -0.2	2.666 0.100 10 3.6	100.8 1.7 10 -1.1	3.899 0.259 10 8.6
Group 3: 10 µg/ animal BNT162a1	%Diff	2.043 0.228 10 10.7	53.5 1.6 10 4.3	0.603** 0.225 10 77.4	8.094 1.122 10 2.9	2.587 0.104 10 0.5	102.3 1.2 10 0.4	3.996* 0.190 10 11.3
Group 4: 30 µg/ animal BNT162b1	%Diff	2.124 0.272 10 15.1	57.5 2.6 10 2.9	0.357 0.070 10 5.0	8.105 0.857 10 3.1	2.6663 0.099 10 3.5	101.3 0.8 10 -0.6	3.902 0.246 10 8.7

[a] - Anova & Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01  
 [a] - Anova & Dunnett(Log): \* = p ≤ 0.05; \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

Day: 17 Relative to Start Date		Biochemical Parameters						
Sex: Female		Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
Group 5: 100 µg/ animal BNT162b1	Mean	2.088	[a] 56.4	[a] 0.444	[a] 8.453	[a] 2.640	[a] 101.4	[a] 4.180**
	SD	0.347	3.3	0.104	1.284	0.084	1.3	0.378
	N	10	10	10	10	10	10	10
	%Diff	13.2	0.9	30.6	7.5	2.6	-0.5	16.4
Group 7: 100 µg/ animal BNT162b2	Mean	2.039	57.1	0.450	8.324	2.685	102.4	3.954*
	SD	0.202	2.1	0.109	1.162	0.076	1.3	0.346
	N	10	10	10	10	10	10	10
	%Diff	10.5	2.1	32.4	5.9	4.3	0.5	10.1

[a] - Anova &amp; Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

Day: 31 Relative to Start Date		Biochemical Parameters						
Sex: Female		Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
Group 6: 30 µg/ animal BNT162c1	Mean SD N	[a] 1.700n 0.209 5	[a] 59.6n 2.7 5	[a] 0.396n 0.146 5	[a] 7.398n 1.166 5	[a] 2.522n 0.086 5	[a] 102.2n 0.8 5	[a] 3.530n 0.126 5

[a] - Anova &amp; Dunnett n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

Day: 38 Relative to Start Date		Biochemical Parameters						
Sex: Female		Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
Group 1: Control	Mean SD N	[a] 1.630 0.192 5	[a] 60.8 2.4 5	[a] 0.408 0.107 5	[a] 8.010 0.743 5	[a] 2.584 0.078 5	[a] 103.2 1.8 5	[a] 3.504 0.347 5
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	1.786 0.153 5 9.6	61.6 3.2 5 1.3	0.406 0.053 5 -0.5	7.682 1.402 5 -4.1	2.546 0.068 5 -1.5	103.6 1.5 5 0.4	3.426 0.336 5 -2.2
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	1.830 0.196 5 12.3	53.6 ** 1.5 5 -11.8	0.418 0.071 5 2.5	8.366 0.562 5 4.4	2.476 0.056 5 -4.2	102.4 1.1 5 -0.8	3.750 0.120 5 7.0
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	1.780 0.065 5 9.2	60.8 2.2 5 0.0	0.348 0.073 5 -14.7	8.390 0.946 5 4.7	2.586 0.088 5 0.1	103.2 0.8 5 0.0	3.574 0.304 5 2.0

[a] - Anova & Dunnett(Rank)  
 [a] - Anova & Dunnett. \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

		Biochemical Parameters						
		Day: 38 Relative to Start Date			Rat			
Sex: Female		Phosphate (mmol/L)	Protein (total) (g/L)	Tri-glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
Group 5: 100 µg/ animal	Mean SD N %Diff	1.776 0.403 5 9.0	58.6 4.6 5 -3.6	0.484 0.208 5 18.6	7.230 1.054 5 -9.7	2.490 0.130 5 -3.6	102.6 0.9 5 -0.6	3.522 0.319 5 0.5
BNT162b1								
Group 7: 100 µg/ animal	Mean SD N %Diff	1.908 0.416 5 17.1	57.6 1.8 5 -5.3	0.396 0.081 5 -2.9	7.528 0.733 5 -6.0	2.510 0.111 5 -2.9	103.2 1.5 5 0.0	3.580 0.418 5 2.2
BNT162b2								

[a] - Anova &amp; Dunnett

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TABLE 7-1 Biochemical Parameters - Summary

		Biochemical Parameters						Rat
Day: 4 Relative to Start Date		Sodium (mmol/L)	ALT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
	Sex: Female	[a]	[a]	[a]	[a]	[a]	[a]	[a]
Group 1: Control	Mean SD N	135.8 1.0 10	57.3 7.6 10	154.2 24.9 10	74.5 19.2 10	86.1 18.8 10	118.0 44.8 10	0.88 0.59 10
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	135.0 1.2 10 -0.6	59.1 7.4 10 3.1	198.0 ** 35.9 10 28.4	85.8 10.7 10 15.2	68.7 10.0 10 -20.2	133.6 79.3 10 13.2	3.67** 1.10 10 317.0
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	136.8 1.0 10 0.7	45.5* 9.7 10 -20.6	141.7 20.2 10 -8.1	98.8** 9.8 10 32.6	120.3 48.7 10 39.7	153.4 112.3 10 30.0	2.75** 0.54 10 212.5
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	135.4 0.8 10 -0.3	49.0 13.0 10 -14.5	167.7 22.3 10 8.8	75.8 11.6 10 1.7	67.6 13.9 10 -21.5	129.7 71.8 10 9.9	2.32 1.01 10 163.6

[a] - Anova & Dunnett(Rank). \*\* = p ≤ 0.01  
 [a1] - Anova & Dunnett. \* = p ≤ 0.05; \*\* = p ≤ 0.01  
 [a2] - Anova & Dunnett(Log)

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-1      Biochemical Parameters - Summary

		Day: 4 Relative to Start Date						Rat
Sex: Female		Biochemical Parameters						
		Sodium (mmol/L)	ALT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
Group 5: 100 µg/ animal BNT162b1	Mean	136.7	40.1**	[a] 150.6	[a] 90.7*	[a] 125.0*	[a] 119.0	[a] 3.72**
	SD	1.1	7.6	25.7	10.4	44.3	140.6	1.48
	N	10	10	10	10	10	10	10
	%Diff	0.7	-30.0	-2.3	21.7	45.2	0.8	322.7
Group 6: 30 µg/ animal BNT162c1	Mean	135.7	52.1	151.5	107.2**	142.9**	136.7	3.77**
	SD	0.9	9.5	25.9	9.9	38.5	130.2	0.78
	N	10	10	10	10	10	10	10
	%Diff	-0.1	-9.1	-1.8	43.9	66.0	15.8	328.4
Group 7: 100 µg/ animal BNT162b2	Mean	136.8	36.4**	161.3	96.6**	133.3*	106.1	4.01**
	SD	1.5	7.7	24.5	13.8	49.2	69.8	0.85
	N	10	10	10	10	10	10	10
	%Diff	0.7	-36.5	4.6	29.7	54.8	-10.1	355.7

[a] - Anova & Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01

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RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

Day: 10 Relative to Start Date		Biochemical Parameters						Rat
Sex: Female		Sodium (mmol/L)	AlAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
Group 6: 30 µg/ animal BNT162c1	Mean SD N	[a] 132.3n 2.0 10	[a] 58.1n 27.4 10	[a] 141.7n 32.1 10	[a] 122.5n 15.8 10	[a] 108.6n 18.1 10	[a] 122.2n 23.4 10	[a] 4.26n 0.79 10

[a] - Anova &amp; Dunnett n - Inappropriate for statistics

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RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

		Biochemical Parameters						Rat
Day: 17 Relative to Start Date		Sodium (mmol/L)	ALT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
Sex: Female		[a]	[a]	[a]	[a]	[a]	[a]	[a]
Group 1: Control	Mean SD N	134.9 0.7 10	34.2 7.0 10	75.9 11.7 10	80.6 10.6 10	125.3 40.6 10	106.6 31.1 10	1.21 0.59 10
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	133.1* 1.1 10 -1.3	57.8** 26.2 10 69.0	155.9** 23.2 10 105.4	118.7** 21.8 10 47.3	141.7 40.2 10 13.1	175.7 131.6 10 64.8	3.97** 0.72 10 228.1
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	134.1 1.7 10 -0.6	37.9 5.9 10 10.8	120.5** 25.5 10 58.8	95.3 12.6 10 18.2	155.9 26.7 10 24.4	182.3 125.9 10 71.0	3.32** 1.33 10 174.4
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	133.4 1.3 10 -1.1	34.3 6.4 10 0.3	108.7* 24.5 10 43.2	86.4 13.0 10 7.2	104.6 38.7 10 -16.5	165.0 107.7 10 54.8	3.94** 1.10 10 225.6

[a] - Anova & Dunnett(Rank). \* = p ≤ 0.05, \*\* = p ≤ 0.01  
 [a] - Anova & Dunnett. \* = p ≤ 0.05; \*\* = p ≤ 0.01

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RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

		Biochemical Parameters						Rat
Day: 17 Relative to Start Date		Sodium (mmol/L)	ALT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
Sex: Female		[a]	[a]	[a]	[a]	[a]	[a]	[a]
Group 5: 100 µg/ animal BNT162b1	Mean	132.6**	33.4	158.9**	102.7**	147.4	183.7	4.40**
	SD	2.1	6.8	29.6	9.9	40.1	92.6	0.61
	N	10	10	10	10	10	10	10
	%Diff	-1.7	-2.3	109.4	27.4	17.6	72.3	263.6
Group 7: 100 µg/ animal BNT162b2	Mean	133.8	30.8	183.8**	100.2*	155.4	139.6	5.05**
	SD	1.9	6.7	24.6	12.5	61.5	31.8	0.88
	N	10	10	10	10	10	10	10
	%Diff	-0.8	-9.9	142.2	24.3	24.0	31.0	317.4

[a] - Anova &amp; Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01

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TABLE 7-1 Biochemical Parameters - Summary

Day: 31 Relative to Start Date		Biochemical Parameters						
Sex: Female		Sodium (mmol/L)	ALT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
Group 6: 30 µg/ animal BNT162c1	Mean SD N	[a] 136.4 1.1 5	[a] 32.0n 10.0 5	[a] 68.4n 14.0 5	[a] 86.6n 24.7 5	[a] 118.0n 13.6 5	[a] 250.6n 255.4 5	[a] 2.14n 0.33 5

[a] - Anova &amp; Dunnett n - Inappropriate for statistics

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RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

Day: 38 Relative to Start Date				Biochemical Parameters					
Sex: Female		Sodium (mmol/L)	ALT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)	
Group 1: Control	Mean SD N	[a] 136.8 2.4 5	[a] 35.4 7.1 5	[a] 61.4 13.3 5	[a2] 79.2 7.6 5	[a2] 69.4 37.5 5	[a2] 120.2 45.2 5	[a] 2.48 0.76 5	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	137.4 2.1 5 0.4	40.6 20.0 5 14.7	67.4 20.8 5 9.8	94.8 45.7 5 19.7	90.0 72.9 5 29.7	205.0 263.1 5 70.5	3.06 0.65 5 23.4	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	136.0 1.0 5 -0.6	32.4 4.2 5 -8.5	72.4 7.5 5 17.9	79.4 14.0 5 0.3	132.6 38.1 5 91.1	315.4 368.0 5 162.4	1.74 0.86 5 -29.8	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	136.6 0.5 5 -0.1	30.4 7.3 5 -14.1	64.6 2.5 5 5.2	84.6 15.3 5 6.8	100.2 53.1 5 44.4	208.4 101.2 5 73.4	2.52 0.67 5 1.6	

[a] - Anova & Dunnett  
 [a1] - Anova & Dunnett(Rank)  
 [a2] - Anova & Dunnett(Log)

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RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

		Biochemical Parameters						Rat
Day: 38 Relative to Start Date		Sodium (mmol/L)	ALT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
Sex: Female		[a]	[a]	[a]	[a]	[a]	[a]	[a]
Group 5: 100 µg/ animal	Mean SD N %Diff	137.0 0.7 5 0.1	35.4 3.4 5 0.0	64.8 14.3 5 5.5	85.4 20.3 5 7.8	108.4 60.2 5 56.2	165.4 108.1 5 37.6	2.12 0.64 5 -14.5
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	137.8 1.6 5 0.7	31.6 5.4 5 -10.7	67.0 5.1 5 9.1	82.2 10.7 5 3.8	89.0 49.4 5 28.2	151.8 59.4 5 26.3	2.44 0.66 5 -1.6

[a] - Anova &amp; Dunnett

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RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

Page	Day	Group	Sex	Measurement	Comments and Markers	
					Marker	Comment
4	2	Male	Albumin	**	Anova & Dunnett: ** = p ≤ 0.01	
4	2	Male	Globulin	**	Anova & Dunnett(Log): ** = p ≤ 0.01	
4	2	Male	Alb./Glob. Ratio	**	Anova & Dunnett: ** = p ≤ 0.01	
4	2	Male	Choleste- r ol (total)	*	Anova & Dunnett: * = p ≤ 0.05	
4	3	Male	Albumin	**	Anova & Dunnett: ** = p ≤ 0.01	
4	3	Male	Alb./Glob. Ratio	**	Anova & Dunnett: ** = p ≤ 0.01	
4	3	Male	Bilirubin (total)	**	Anova & Dunnett(Log): ** = p ≤ 0.01	
4	3	Male	Crea- tinine	**	Anova & Dunnett(Rank): ** = p ≤ 0.01	
4	3	Male	Glucose	**	Anova & Dunnett(Rank): ** = p ≤ 0.01	
4	4	Male	Albumin	**	Anova & Dunnett: ** = p ≤ 0.01	
4	4	Male	Globulin	**	Anova & Dunnett(Log): ** = p ≤ 0.01	
4	4	Male	Alb./Glob. Ratio	**	Anova & Dunnett: ** = p ≤ 0.01	
4	5	Male	Albumin	**	Anova & Dunnett: ** = p ≤ 0.01	
4	5	Male	Globulin	**	Anova & Dunnett: ** = p ≤ 0.01	
4	5	Male	Alb./Glob. Ratio	**	Anova & Dunnett: ** = p ≤ 0.01	
4	5	Male	Bilirubin (total)	**	Anova & Dunnett: ** = p ≤ 0.01	
4	5	Male	Choleste- r ol (total)	**	Anova & Dunnett: ** = p ≤ 0.01	
4	4	Male	Crea- tinine	**	Anova & Dunnett: ** = p ≤ 0.01	
4	4	Male	Glucose	**	Anova & Dunnett: ** = p ≤ 0.01	
4	4	Male	Albumin	**	Anova & Dunnett: ** = p ≤ 0.01	
4	6	Male	Globulin	*	Anova & Dunnett: * = p ≤ 0.05	
4	6	Male	Alb./Glob. Ratio	**	Anova & Dunnett: ** = p ≤ 0.01	
4	6	Male	Bilirubin (total)	**	Anova & Dunnett: ** = p ≤ 0.01	
4	6	Male	Choleste- r ol (total)	*	Anova & Dunnett: * = p ≤ 0.05	
4	4	Male	Crea- tinine	**	Anova & Dunnett: ** = p ≤ 0.01	
4	4	Male	Glucose	**	Anova & Dunnett: ** = p ≤ 0.01	
4	4	Male	Albumin	**	Anova & Dunnett: ** = p ≤ 0.01	
4	7	Male	Globulin	*	Anova & Dunnett: * = p ≤ 0.05	
4	7	Male	Alb./Glob. Ratio	**	Anova & Dunnett: ** = p ≤ 0.01	
7	7	Male				

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TABLE 7-1 Biochemical Parameters - Summary

Page	Day	Group	Sex	Measurement	Comments and Markers	
					Marker	Comment
4	7	Male	Male	Bilirubin (total)	**	Anova & Dunnett: ** = p ≤ 0.01
4	7	Male	Male	Choleste- rol (total)	**	Anova & Dunnett: ** = p ≤ 0.01
4	7	Male	Male	Crea- tinine	*	Anova & Dunnett: * = p ≤ 0.05
4	7	Male	Male	Glucose	**	Anova & Dunnett: ** = p ≤ 0.01
10	6	Male	Male	Albumin	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Male	Male	Globulin	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Male	Male	Alb./Glob. Ratio	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Male	Male	Bilirubin (total)	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Male	Male	Choleste- rol (total)	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Male	Male	Crea- tinine	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Male	Male	Glucose	n	Anova & Dunnett: n - Inappropriate for statistics
17	2	Male	Male	Albumin	**	Anova & Dunnett: ** = p ≤ 0.01
17	2	Male	Male	Globulin	**	Anova & Dunnett: ** = p ≤ 0.01
17	2	Male	Male	Alb./Glob. Ratio	**	Anova & Dunnett: ** = p ≤ 0.01
17	2	Male	Male	Bilirubin (total)	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
17	2	Male	Male	Choleste- rol (total)	**	Anova & Dunnett(Log): ** = p ≤ 0.01
17	3	Male	Male	Albumin	**	Anova & Dunnett: ** = p ≤ 0.01
17	3	Male	Male	Globulin	**	Anova & Dunnett: ** = p ≤ 0.01
17	3	Male	Male	Alb./Glob. Ratio	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
17	3	Male	Male	Bilirubin (total)	**	Anova & Dunnett(Log): * = p ≤ 0.01
17	3	Male	Male	Choleste- rol (total)	*	Anova & Dunnett(Log): ** = p ≤ 0.01
17	4	Male	Male	Albumin	**	Anova & Dunnett: ** = p ≤ 0.01
17	4	Male	Male	Globulin	**	Anova & Dunnett: ** = p ≤ 0.01
17	4	Male	Male	Alb./Glob. Ratio	**	Anova & Dunnett: ** = p ≤ 0.01
17	4	Male	Male	Choleste- rol (total)	**	Anova & Dunnett(Log): ** = p ≤ 0.01
17	5	Male	Male	Albumin	**	Anova & Dunnett: ** = p ≤ 0.01
17	5	Male	Male	Globulin	**	Anova & Dunnett: ** = p ≤ 0.01
17	5	Male	Male	Alb./Glob. Ratio	**	Anova & Dunnett: ** = p ≤ 0.01
17	5	Male	Male	Bilirubin (total)	**	Anova & Dunnett: ** = p ≤ 0.01
17	5	Male	Male	Choleste- rol (total)	**	Anova & Dunnett: ** = p ≤ 0.01

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TABLE 7-1 Biochemical Parameters - Summary

Page	Day	Group	Sex	Measurement	Comments and Markers	
					Marker	Comment
17	5	Male	Crea-tinine	**	Anova & Dunnett: ** = p ≤ 0.01	
17	7	Male	Albumin	**	Anova & Dunnett: ** = p ≤ 0.01	
17	7	Male	Globulin	**	Anova & Dunnett: ** = p ≤ 0.01	
17	7	Male	Alb./Glob. Ratio	**	Anova & Dunnett: ** = p ≤ 0.01	
17	7	Male	Bilirubin (total)	**	Anova & Dunnett: ** = p ≤ 0.01	
17	7	Male	Choleste-rol (total)	**	Anova & Dunnett: ** = p ≤ 0.01	
17	7	Male	Crea-tinine	**	Anova & Dunnett: ** = p ≤ 0.01	
31	6	Male	Albumin	n	Anova & Dunnett: n - Inappropriate for statistics	
31	6	Male	Globulin	n	Anova & Dunnett: n - Inappropriate for statistics	
31	6	Male	Alb./Glob. Ratio	n	Anova & Dunnett: n - Inappropriate for statistics	
31	6	Male	Bilirubin (total)	n	Anova & Dunnett: n - Inappropriate for statistics	
31	6	Male	Choleste-rol (total)	n	Anova & Dunnett: n - Inappropriate for statistics	
31	6	Male	Crea-tinine	n	Anova & Dunnett: n - Inappropriate for statistics	
31	6	Male	Glucose	n	Anova & Dunnett: n - Inappropriate for statistics	
38	4	Male	Crea-tinine	**	Anova & Dunnett: ** = p ≤ 0.01	

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TABLE 7-1      Biochemical Parameters - Summary

Page	Day	Group	Sex	Measurement	Comments and Markers	
					Marker	Comment
4	2	Male	Male	Tri-glycerides	**	Anova & Dunnett(Log): ** = p ≤ 0.01
4	3	Male	Male	Tri-glycerides	**	Anova & Dunnett(Log): ** = p ≤ 0.01
4	3	Male	Male	Calcium	**	Anova & Dunnett: *** = p ≤ 0.01
4	3	Male	Male	Chloride	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
4	3	Male	Male	Potassium	**	Anova & Dunnett: *** = p ≤ 0.01
4	4	Male	Male	Phosphate	*	Anova & Dunnett(Rank): * = p ≤ 0.05
4	4	Male	Male	Protein (total)	**	Anova & Dunnett: ** = p ≤ 0.01
4	5	Male	Male	Tri-glycerides	**	Anova & Dunnett: ** = p ≤ 0.01
4	5	Male	Male	Calcium	**	Anova & Dunnett: ** = p ≤ 0.01
4	5	Male	Male	Chloride	**	Anova & Dunnett: ** = p ≤ 0.01
4	5	Male	Male	Potassium	**	Anova & Dunnett: ** = p ≤ 0.01
4	6	Male	Male	Tri-glycerides	**	Anova & Dunnett: ** = p ≤ 0.01
4	6	Male	Male	Calcium	**	Anova & Dunnett: ** = p ≤ 0.01
4	6	Male	Male	Chloride	**	Anova & Dunnett: ** = p ≤ 0.01
4	6	Male	Male	Tri-glycerides	**	Anova & Dunnett: ** = p ≤ 0.01
4	7	Male	Male	Calcium	**	Anova & Dunnett: ** = p ≤ 0.01
4	7	Male	Male	Chloride	**	Anova & Dunnett: ** = p ≤ 0.01
4	7	Male	Male	Potassium	*	Anova & Dunnett: * = p ≤ 0.05
4	7	Male	Male	Phosphate	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Male	Male	Protein (total)	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Male	Male	Tri-glycerides	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Male	Male	Urea	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Male	Male	Calcium	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Male	Male	Chloride	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Male	Male	Potassium	n	Anova & Dunnett: n - Inappropriate for statistics
17	2	Male	Male	Phosphate	**	Anova & Dunnett: ** = p ≤ 0.01
17	2	Male	Male	Urea	*	Anova & Dunnett(Rank): * = p ≤ 0.01
17	3	Male	Male	Urea	*	Anova & Dunnett: * = p ≤ 0.05
17	4	Male	Male	Protein (total)	**	Anova & Dunnett: ** = p ≤ 0.01

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TABLE 7-1      Biochemical Parameters - Summary

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Measurement</u>	<u>Comments and Markers</u>	
					<u>Marker</u>	<u>Comment</u>
17	5	5	Male	Protein (total)	**	Anova & Dunnett: ** = p ≤ 0.01
17	5	5	Male	Urea	**	Anova & Dunnett: ** = p ≤ 0.01
17	7	7	Male	Protein (total)	**	Anova & Dunnett: ** = p ≤ 0.01
17	7	7	Male	Urea	**	Anova & Dunnett: ** = p ≤ 0.01
31	6	6	Male	Phosphate	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	6	Male	Protein (total)	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	6	Male	Tri-glycerides	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	6	Male	Urea	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	6	Male	Calcium	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	6	Male	Chloride	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	6	Male	Potassium	n	Anova & Dunnett: n - Inappropriate for statistics

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TABLE 7-1 Biochemical Parameters - Summary

Page	Day	Group	Sex	Measurement	Comments and Markers	
					Marker	Comment
4	2	Male	Male	Gamma-GT	**	Anova & Dunnett: ** = p ≤ 0.01
4	3	Male	Male	Sodium	**	Anova & Dunnett: ** = p ≤ 0.01
4	3	Male	Male	ALAT	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
4	3	Male	Male	aP	**	Anova & Dunnett(Log): ** = p ≤ 0.01
4	3	Male	Male	ASAT	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
4	3	Male	Male	Gamma-GT	**	Anova & Dunnett: ** = p ≤ 0.01
4	4	Male	Male	Gamma-GT	*	Anova & Dunnett: ** = p ≤ 0.01
4	5	Male	Male	Sodium	**	Anova & Dunnett: ** = p ≤ 0.01
4	5	Male	Male	ALAT	**	Anova & Dunnett: ** = p ≤ 0.01
4	5	Male	Male	aP	**	Anova & Dunnett: ** = p ≤ 0.01
4	5	Male	Male	Lactate Dehy drogenase	*	Anova & Dunnett: * = p ≤ 0.05
4	5	Male	Male	Gamma-GT	**	Anova & Dunnett: ** = p ≤ 0.01
4	6	Male	Male	Sodium	**	Anova & Dunnett: ** = p ≤ 0.01
4	6	Male	Male	ALAT	**	Anova & Dunnett: ** = p ≤ 0.01
4	6	Male	Male	aP	**	Anova & Dunnett: ** = p ≤ 0.01
4	6	Male	Male	ASAT	**	Anova & Dunnett: ** = p ≤ 0.01
4	6	Male	Male	Lactate Dehy drogenase	**	Anova & Dunnett: ** = p ≤ 0.01
4	6	Male	Male	Gamma-GT	**	Anova & Dunnett: ** = p ≤ 0.01
4	7	Male	Male	Sodium	**	Anova & Dunnett: ** = p ≤ 0.01
4	7	Male	Male	ALAT	**	Anova & Dunnett: ** = p ≤ 0.01
4	7	Male	Male	aP	**	Anova & Dunnett: ** = p ≤ 0.01
4	7	Male	Male	ASAT	**	Anova & Dunnett: ** = p ≤ 0.01
4	7	Male	Male	Lactate Dehy drogenase	**	Anova & Dunnett: n - Inappropriate for statistics
10	6	Male	Male	Gamma-GT	**	Anova & Dunnett: n - Inappropriate for statistics
10	6	Male	Male	Sodium	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Male	Male	ALAT	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Male	Male	aP	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Male	Male	ASAT	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Male	Male	Lactate Dehy drogenase	n	Anova & Dunnett: n - Inappropriate for statistics

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TABLE 7-1 Biochemical Parameters - Summary

Page	Day	Group	Sex	Measurement	Comments and Markers	
					Marker	Comment
10	6	Male	Male	Creatine Kinase	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Male	Male	Gamma-GT	n	Anova & Dunnett: n - Inappropriate for statistics
17	2	Male	Male	aP	*	Anova & Dunnett(Rank): * = p ≤ 0.05
17	2	Male	Male	ASAT	**	Anova & Dunnett: ** = p ≤ 0.01
17	2	Male	Male	Gamma-GT	**	Anova & Dunnett: ** = p ≤ 0.01
17	3	Male	Male	Sodium	*	Anova & Dunnett(Rank): * = p ≤ 0.05
17	3	Male	Male	Gamma-GT	**	Anova & Dunnett: ** = p ≤ 0.01
17	4	Male	Male	Gamma-GT	**	Anova & Dunnett: ** = p ≤ 0.01
17	5	Male	Male	Sodium	**	Anova & Dunnett: ** = p ≤ 0.01
17	5	Male	Male	Gamma-GT	**	Anova & Dunnett: ** = p ≤ 0.01
17	7	Male	Male	Sodium	**	Anova & Dunnett: ** = p ≤ 0.01
17	7	Male	Male	Gamma-GT	**	Anova & Dunnett: ** = p ≤ 0.01
31	6	Male	Male	Sodium	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Male	Male	ALAT	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Male	Male	aP	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Male	Male	ASAT	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Male	Male	Lactate Dehydrogenase	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Male	Male	Creatine Kinase	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Male	Male	Gamma-GT	n	Anova & Dunnett: n - Inappropriate for statistics

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TABLE 7-1 Biochemical Parameters - Summary

Page	Day	Group	Sex	Measurement	Comments and Markers	
					Marker	Comment
4	2	Female	Albumin	**	Anova & Dunnett: ** = p ≤ 0.01	
4	2	Female	Alb./Glob. Ratio	**	Anova & Dunnett: ** = p ≤ 0.01	
4	3	Female	Albumin	**	Anova & Dunnett: ** = p ≤ 0.01	
4	3	Female	Bilirubin (total)	*	Anova & Dunnett(Log): * = p ≤ 0.05	
4	3	Female	Glucose	**	Anova & Dunnett(Rank): ** = p ≤ 0.01	
4	4	Female	Albumin	**	Anova & Dunnett: ** = p ≤ 0.01	
4	4	Female	Globulin	*	Anova & Dunnett: * = p ≤ 0.05	
4	4	Female	Alb./Glob. Ratio	**	Anova & Dunnett: ** = p ≤ 0.01	
4	4	Female	Bilirubin (total)	**	Anova & Dunnett(Log): ** = p ≤ 0.01	
4	5	Female	Albumin	**	Anova & Dunnett: ** = p ≤ 0.01	
4	5	Female	Alb./Glob. Ratio	**	Anova & Dunnett: ** = p ≤ 0.01	
4	5	Female	Bilirubin (total)	**	Anova & Dunnett: ** = p ≤ 0.01	
4	6	Female	Albumin	**	Anova & Dunnett: ** = p ≤ 0.01	
4	6	Female	Alb./Glob. Ratio	**	Anova & Dunnett: ** = p ≤ 0.01	
4	6	Female	Globule	*	Anova & Dunnett: * = p ≤ 0.05	
4	7	Female	Albumin	**	Anova & Dunnett: ** = p ≤ 0.01	
4	7	Female	Alb./Glob. Ratio	**	Anova & Dunnett: ** = p ≤ 0.01	
4	7	Female	Bilirubin (total)	**	Anova & Dunnett: ** = p ≤ 0.01	
4	7	Female	Glucose	**	Anova & Dunnett: ** = p ≤ 0.01	
10	6	Female	Albumin	n	Anova & Dunnett: n - Inappropriate for statistics	
10	6	Female	Globulin	n	Anova & Dunnett: n - Inappropriate for statistics	
10	6	Female	Alb./Glob. Ratio	n	Anova & Dunnett: n - Inappropriate for statistics	
10	6	Female	Bilirubin (total)	n	Anova & Dunnett: n - Inappropriate for statistics	
10	6	Female	Choleste-rol (total)	n	Anova & Dunnett: n - Inappropriate for statistics	
10	6	Female	Crea-tinine	n	Anova & Dunnett: n - Inappropriate for statistics	
10	6	Female	Glucose	n	Anova & Dunnett: n - Inappropriate for statistics	
17	2	Female	Albumin	**	Anova & Dunnett: ** = p ≤ 0.01	
17	2	Female	Globulin	**	Anova & Dunnett(Log): ** = p ≤ 0.01	
17	2	Female	Alb./Glob. Ratio	**	Anova & Dunnett(Rank): ** = p ≤ 0.01	

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TABLE 7-1 Biochemical Parameters - Summary

Page	Day	Group	Sex	Measurement	Comments and Markers	
					Marker	Comment
17	2	Female		Bilirubin (total)	**	Anova & Dunnett: ** = p ≤ 0.01
17	2	Female		Glucose	**	Anova & Dunnett: ** = p ≤ 0.01
17	3	Female		Albumin	**	Anova & Dunnett: ** = p ≤ 0.01
17	4	Female		Albumin	**	Anova & Dunnett: ** = p ≤ 0.01
17	4	Female		Globulin	**	Anova & Dunnett: ** = p ≤ 0.01
17	4	Female		Alb./Glob. Ratio	**	Anova & Dunnett(Log): ** = p ≤ 0.01
17	5	Female		Albumin	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
17	5	Female		Globulin	**	Anova & Dunnett: ** = p ≤ 0.01
17	5	Female		Alb./Glob. Ratio	**	Anova & Dunnett: ** = p ≤ 0.01
17	5	Female		Bilirubin (total)	*	Anova & Dunnett: * = p ≤ 0.05
17	5	Female		Glucose	*	Anova & Dunnett: * = p ≤ 0.05
17	7	Female		Albumin	**	Anova & Dunnett: ** = p ≤ 0.01
17	7	Female		Globulin	**	Anova & Dunnett: ** = p ≤ 0.01
17	7	Female		Alb./Glob. Ratio	**	Anova & Dunnett: ** = p ≤ 0.01
17	7	Female		Bilirubin (total)	*	Anova & Dunnett: * = p ≤ 0.05
17	7	Female		Choleste-rol (total)	*	Anova & Dunnett: * = p ≤ 0.05
17	7	Female		Crea-tinine	*	Anova & Dunnett: * = p ≤ 0.05
31	6	Female		Albumin	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Female		Globulin	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Female		Alb./Glob. Ratio	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Female		Bilirubin (total)	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Female		Choleste-rol (total)	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Female		Crea-tinine	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Female		Glucose	n	Anova & Dunnett: n - Inappropriate for statistics
38	3	Female		Globulin	**	Anova & Dunnett: ** = p ≤ 0.01
38	3	Female		Alb./Glob. Ratio	**	Anova & Dunnett: ** = p ≤ 0.01

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TABLE 7-1 Biochemical Parameters - Summary

Page	Day	Group	Sex	Measurement	Comments and Markers	
					Marker	Comment
4	2	Female	Female	Phosphate	*	Anova & Dunnett: * = p ≤ 0.05
4	2	Female	Female	Protein (total)	*	Anova & Dunnett: * = p ≤ 0.05
4	2	Female	Female	Chloride	**	Anova & Dunnett: ** = p ≤ 0.01
4	3	Female	Female	Protein (total)	**	Anova & Dunnett: ** = p ≤ 0.01
4	3	Female	Female	Tri-glycerides	**	Anova & Dunnett: ** = p ≤ 0.01
4	3	Female	Female	Calcium	**	Anova & Dunnett: ** = p ≤ 0.01
4	3	Female	Female	Potassium	*	Anova & Dunnett: * = p ≤ 0.05
4	4	Female	Female	Tri-glycerides	**	Anova & Dunnett(LoG): ** = p ≤ 0.01
4	4	Female	Female	Tri-glycerides	**	Anova & Dunnett: ** = p ≤ 0.01
4	4	Female	Female	Phosphate	**	Anova & Dunnett: ** = p ≤ 0.01
4	6	Female	Female	Protein (total)	**	Anova & Dunnett: ** = p ≤ 0.01
4	6	Female	Female	Tri-glycerides	**	Anova & Dunnett: ** = p ≤ 0.01
4	6	Female	Female	Urea	**	Anova & Dunnett: ** = p ≤ 0.01
10	6	Female	Female	Phosphate	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Female	Female	Protein (total)	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Female	Female	Tri-glycerides	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Female	Female	Urea	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Female	Female	Calcium	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Female	Female	Chloride	n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Female	Female	Potassium	n	Anova & Dunnett: n - Inappropriate for statistics
17	2	Female	Female	Phosphate	**	Anova & Dunnett: ** = p ≤ 0.01
17	2	Female	Female	Tri-glycerides	*	Anova & Dunnett(LoG): * = p ≤ 0.05
17	3	Female	Female	Tri-glycerides	**	Anova & Dunnett(LoG): ** = p ≤ 0.01
17	3	Female	Female	Potassium	*	Anova & Dunnett: * = p ≤ 0.05
17	5	Female	Female	Potassium	**	Anova & Dunnett: ** = p ≤ 0.01
17	7	Female	Female	Phosphate	*	Anova & Dunnett: * = p ≤ 0.05
31	6	Female	Female	Protein (total)	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Female	Female	Tri-glycerides	n	Anova & Dunnett: n - Inappropriate for statistics

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TABLE 7-1 Biochemical Parameters - Summary

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Measurement</u>	<u>Comments and Markers</u>	
					<u>Marker</u>	<u>Comment</u>
31	31	6	Female	Urea	n	Anova & Dunnett: n - Inappropriate for statistics
31	31	6	Female	Calcium	n	Anova & Dunnett: n - Inappropriate for statistics
31	31	6	Female	Chloride	n	Anova & Dunnett: n - Inappropriate for statistics
31	31	6	Female	Potassium	n	Anova & Dunnett: n - Inappropriate for statistics
	38	3	Female	Protein (total)	**	Anova & Dunnett: ** = p ≤ 0.01

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RNA Platforms encoding for Viral Proteins

TABLE 7-1 Biochemical Parameters - Summary

Page	Day	Group	Sex	Measurement	Comments and Markers	
					Marker	Comment
4	2	Female	aP		**	Anova & Dunnett: ** = p ≤ 0.01
4	2	Female	Gamma-GT		**	Anova & Dunnett(Rank): ** = p ≤ 0.01
4	3	Female	ALAT		*	Anova & Dunnett: * = p ≤ 0.05
4	3	Female	ASAT		**	Anova & Dunnett: ** = p ≤ 0.01
4	3	Female	Gamma-GT		**	Anova & Dunnett(Rank): ** = p ≤ 0.01
4	5	Female	ALAT		**	Anova & Dunnett: ** = p ≤ 0.01
4	5	Female	ASAT		*	Anova & Dunnett: * = p ≤ 0.05
4	5	Female	Lactate Dehy drogenase		*	Anova & Dunnett: * = p ≤ 0.05
4	4	Female	Gamma-GT		**	Anova & Dunnett: ** = p ≤ 0.05
4	6	Female	ASAT		**	Anova & Dunnett: ** = p ≤ 0.01
4	6	Female	Lactate Dehy drogenase		*	Anova & Dunnett: * = p ≤ 0.01
4	6	Female	Gamma-GT		**	Anova & Dunnett: ** = p ≤ 0.01
4	7	Female	ALAT		**	Anova & Dunnett: ** = p ≤ 0.01
4	7	Female	ASAT		**	Anova & Dunnett: ** = p ≤ 0.01
4	7	Female	Lactate Dehy drogenase		*	Anova & Dunnett: * = p ≤ 0.01
4	4	Female	Gamma-GT		**	Anova & Dunnett: ** = p ≤ 0.05
4	10	Female	Sodium		n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Female	ALAT		n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Female	aP		n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Female	ASAT		n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Female	Lactate Dehy drogenase		n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Female	Creatine Kinase		n	Anova & Dunnett: n - Inappropriate for statistics
10	6	Female	Gamma-GT		n	Anova & Dunnett: n - Inappropriate for statistics
17	2	Female	Sodium		*	Anova & Dunnett(Rank): * = p ≤ 0.05
17	2	Female	ALAT		**	Anova & Dunnett(Rank): ** = p ≤ 0.01
17	2	Female	aP		**	Anova & Dunnett: ** = p ≤ 0.01
17	2	Female	ASAT		**	Anova & Dunnett: ** = p ≤ 0.01
17	2	Female	Gamma-GT		**	Anova & Dunnett: ** = p ≤ 0.01
17	3	Female	aP		**	Anova & Dunnett: ** = p ≤ 0.01

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TABLE 7-1      Biochemical Parameters - Summary

Page	Day	Group	Sex	Measurement	Comments and Markers	
					Marker	Comment
17	3	Female		Gamma-GT	**	Anova & Dunnett: ** = p ≤ 0.01
17	4	Female		aP	*	Anova & Dunnett: * = p ≤ 0.05
17	4	Female		Gamma-GT	**	Anova & Dunnett: ** = p ≤ 0.01
17	5	Female		Sodium	**	Anova & Dunnett: ** = p ≤ 0.01
17	5	Female		aP	**	Anova & Dunnett: ** = p ≤ 0.01
17	5	Female		ASAT	**	Anova & Dunnett: ** = p ≤ 0.01
17	5	Female		Gamma-GT	**	Anova & Dunnett: ** = p ≤ 0.01
17	7	Female		aP	**	Anova & Dunnett: ** = p ≤ 0.01
17	7	Female		ASAT	*	Anova & Dunnett: * = p ≤ 0.05
17	7	Female		Gamma-GT	**	Anova & Dunnett: ** = p ≤ 0.01
31	6	Female		Sodium	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Female		ALAT	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Female		aP	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Female		ASAT	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Female		Lactate Dehydrogenase	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Female		Creatine Kinase	n	Anova & Dunnett: n - Inappropriate for statistics
31	6	Female		Gamma-GT	n	Anova & Dunnett: n - Inappropriate for statistics

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TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Biochemical Parameters				Rat		
Group 1: Control		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (μmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (μmol/L)	Glucose (mmol/L)
1	28.6	25.4	1.13	3.2	1.54	39	9.22	
2	29.4	26.6	1.11	3.0	2.05	38	8.95	
3	30.1	27.9	1.08	4.7	2.03	40	8.55	
4	29.6	27.4	1.08	4.7	2.30	45	9.42	
5	30.1	26.9	1.12	4.0	2.54	40	8.61	
11	29.4	27.6	1.07	2.6	1.54	39	9.74	
12	28.5	27.5	1.04	3.9	1.94	39	10.16	
13	30.5	27.5	1.11	4.0	2.37	40	8.85	
14	29.8	27.2	1.10	3.8	1.46	39	9.41	
15	28.8	27.2	1.06	3.2	2.05	37	8.51	
Mean	29.48	27.12	1.087	3.71	1.982	39.6	9.142	
SD	0.68	0.71	0.029	0.70	0.371	2.1	0.548	
N	10	10	10	10	10	10	10	

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TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Biochemical Parameters					Rat	
Group 2: 30 µg/ animal BNT162a1		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
31	27.2	29.8	0.91	2.8	1.47	41	8.96	
32	26.1	29.9	0.87	3.7	1.07	35	8.63	
33	26.5	26.5	1.00	3.0	1.94	37	9.26	
34	26.9	29.1	0.92	3.7	1.31	36	8.77	
35	26.6	30.4	0.88	3.9	1.36	41	9.25	
41	27.2	30.8	0.88	2.9	1.65	39	8.63	
42	27.0	31.0	0.87	3.0	1.42	36	10.02	
43	26.1	28.9	0.90	3.7	1.95	36	9.27	
44	26.9	32.1	0.84	2.6	2.20	37	8.29	
45	26.5	28.5	0.93	3.1	1.74	38	8.65	
Mean	26.70	29.70	0.901	3.24	1.611	37.6	8.973	
SD	0.41	1.56	0.045	0.46	0.348	2.1	0.493	
N	10	10	10	10	10	10	10	

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TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Biochemical Parameters					Rat	
Group 3: 10 µg/ animal BNT162a1		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
61	26.7	27.3	0.98	2.5	1.82	41	6.40	
62	27.6	27.4	1.01	2.2	1.88	48	5.50	
63	26.2	25.8	1.02	2.1	1.52	42	5.93	
64	27.4	29.6	0.93	2.8	1.58	42	7.50	
65	28.3	27.7	1.02	3.3	1.85	42	5.86	
71	27.6	28.4	0.97	3.1	1.25	40	6.85	
72	27.0	28.0	0.96	3.1	1.97	45	6.19	
73	27.5	27.5	1.00	2.6	2.18	44	6.17	
74	28.3	27.7	1.02	2.8	1.56	42	7.19	
75	28.2	26.8	1.05	2.7	1.69	46	5.65	
Mean	27.48	27.62	0.996	2.72	1.730	43.2	6.324	
SD	0.70	0.99	0.036	0.39	0.265	2.5	0.663	
N	10	10	10	10	10	10	10	

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TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Biochemical Parameters					Rat	
Group 4: 30 µg/ animal BNT162b1		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
91	27.6	31.4	0.88	3.4	1.54	40	8.08	
92	27.7	29.3	0.95	2.7	1.23	39	8.15	
93	28.0	31.0	0.90	3.0	1.55	39	8.58	
94	29.0	36.0	0.81	3.6	1.73	39	8.11	
95	28.4	31.6	0.90	3.9	1.76	39	9.10	
101	28.6	30.4	0.94	3.4	1.50	43	8.89	
102	29.4	33.6	0.88	3.5	1.94	39	8.80	
103	27.5	30.5	0.90	2.5	2.02	39	8.34	
104	28.1	29.9	0.94	3.0	1.71	42	9.38	
105	28.4	30.6	0.93	3.6	1.49	38	8.67	
Mean	28.27	31.43	0.902	3.26	1.647	39.7	8.610	
SD	0.62	1.98	0.042	0.44	0.233	1.6	0.443	
N	10	10	10	10	10	10	10	

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TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Biochemical Parameters					Rat	
Group 5: 100 µg/ animal BNT162b1		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
121	28.2	28.8	0.98	3.0	1.35	47	6.06	
122	26.9	29.1	0.92	2.5	0.93	38	7.00	
123	27.1	31.9	0.85	2.9	2.07	42	4.83	
124	27.9	31.1	0.90	2.2	1.73	45	5.42	
125	27.6	27.4	1.01	2.8	1.22	47	5.79	
131	27.3	29.7	0.92	2.8	1.33	45	5.97	
132	28.2	32.8	0.86	2.9	1.97	45	6.04	
133	26.1	26.9	0.97	2.5	1.24	40	5.94	
134	27.5	29.5	0.93	2.6	1.46	41	6.45	
135	27.3	28.7	0.95	2.8	1.28	45	7.24	
Mean	27.41	29.59	0.929	2.70	1.458	43.5	6.074	
SD	0.63	1.87	0.051	0.24	0.358	3.1	0.703	
N	10	10	10	10	10	10	10	

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TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Biochemical Parameters				Rat		
Group 6: 30 µg/ animal		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
151	27.3	29.7	0.92	2.7	1.98	45	6.24	
152	27.4	27.6	0.99	2.6	1.79	43	7.46	
153	27.0	30.0	0.90	2.7	1.71	46	5.58	
154	27.9	28.1	0.99	3.0	1.49	43	6.00	
155	27.2	30.8	0.88	2.6	1.50	42	5.75	
161	26.6	28.4	0.94	2.3	1.82	31	7.79	
162	26.5	28.5	0.93	2.3	1.63	42	6.13	
163	27.6	28.4	0.97	2.9	1.39	46	7.38	
164	27.6	29.4	0.94	2.8	1.39	46	8.80	
165	27.1	27.9	0.97	2.5	1.28	41	7.24	
Mean	27.22	28.88	0.944	2.64	1.598	42.5	6.837	
SD	0.44	1.04	0.038	0.23	0.225	4.5	1.050	
N	10	10	10	10	10	10	10	

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TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Biochemical Parameters					Rat	
Group 7: 100 µg/ animal BNT162b2		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
181	26.7	30.3	0.88	2.7	1.45	44	6.30	
182	27.8	31.2	0.89	2.6	1.50	45	10.82	
183	27.6	30.4	0.91	2.5	1.48	42	9.75	
184	25.7	27.3	0.94	3.4	1.78	55	5.18	
185	27.4	28.6	0.96	2.8	1.63	39	5.93	
191	25.0	28.0	0.89	2.6	1.38	40	5.44	
192	26.6	26.4	1.01	2.6	1.00	39	5.14	
193	27.2	27.8	0.98	2.5	1.42	44	5.87	
194	26.9	32.1	0.84	3.3	1.39	45	6.65	
195	27.0	29.0	0.93	2.8	1.75	43	6.45	
Mean	26.79	29.11	0.923	2.78	1.478	43.6	6.753	
SD	0.86	1.83	0.051	0.32	0.221	4.6	1.946	
N	10	10	10	10	10	10	10	10

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Three LNP-Formulated  
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TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 10 Relative to Start Date	Biochemical Parameters					Rat	
Group 6: 30 µg/ animal		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
151	27.5	28.5	0.96	3.1	1.38	42	9.19	
152	28.3	29.7	0.95	3.0	1.22	53	10.89	
153	28.0	30.0	0.93	2.6	1.61	46	8.04	
154	28.0	27.0	1.04	3.7	1.14	47	7.94	
155	27.0	29.0	0.93	2.8	1.26	43	9.30	
156	27.9	30.1	0.93	3.3	1.31	40	7.41	
157	27.8	27.2	1.02	3.4	1.08	48	10.06	
158	26.7	27.3	0.98	3.1	0.88	40	8.09	
159	25.6	26.4	0.97	2.6	1.19	44	9.08	
160	26.4	25.6	1.03	3.6	1.20	43	8.40	
Mean	27.32	28.08	0.975	3.12	1.227	44.6	8.840	
SD	0.87	1.60	0.042	0.39	0.191	4.0	1.072	
N	10	10	10	10	10	10	10	

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TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Biochemical Parameters				Rat		
Group 1: Control		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (μmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (μmol/L)	Glucose (mmol/L)
1	29.1	25.9	1.12	2.7	1.33	42	9.92	
2	28.7	24.3	1.18	2.4	1.72	47	10.93	
3	28.7	28.3	1.01	2.0	1.69	48	10.07	
4	28.6	25.4	1.13	2.3	2.03	47	8.77	
5	29.8	25.2	1.18	2.3	2.46	43	7.56	
6	28.1	25.9	1.08	2.1	1.99	47	7.31	
7	29.1	25.9	1.12	2.4	2.44	43	9.40	
8	26.5	23.5	1.13	2.9	1.92	49	10.03	
9	26.5	23.5	1.13	2.3	1.90	48	11.16	
10	28.3	25.7	1.10	2.4	1.46	46	10.02	
Mean	28.34	25.36	1.119	2.38	1.894	46.0	9.517	
SD	1.08	1.40	0.048	0.26	0.369	2.4	1.289	
N	10	10	10	10	10	10	10	

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TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Biochemical Parameters					Rat	
Group 2: 30 µg/ animal		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
31	27.2	27.8	0.98	3.3	1.23	46	7.75	
32	26.8	29.2	0.92	3.0	0.98	47	5.81	
33	27.2	28.8	0.94	3.0	1.23	42	8.58	
34	26.7	27.3	0.98	3.6	0.96	45	9.28	
35	26.3	26.7	0.99	3.5	1.20	44	9.60	
36	27.9	29.1	0.96	3.6	1.86	54	8.70	
37	26.9	28.1	0.96	2.9	0.81	53	8.07	
38	25.6	26.4	0.97	3.4	0.96	43	7.78	
39	26.6	28.4	0.94	3.4	1.31	48	8.93	
40	26.6	26.4	1.01	3.7	1.30	48	8.13	
Mean	26.78	27.82	0.963	3.34	1.184	47.0	8.263	
SD	0.61	1.08	0.026	0.28	0.293	4.0	1.061	
N	10	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Biochemical Parameters					Rat	
Group 3: 10 µg/ animal BNT162a1		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
61	26.6	27.4	0.97	3.2	1.48	48	8.34	
62	28.1	27.9	1.01	2.6	1.61	52	7.49	
63	25.5	25.5	1.00	3.4	1.18	49	7.83	
64	26.7	29.3	0.91	3.0	1.48	48	9.64	
65	27.4	26.6	1.03	2.7	1.32	49	8.88	
66	27.1	27.9	0.97	3.8	1.29	48	7.25	
67	25.5	24.5	1.04	3.3	1.53	46	8.39	
68	27.3	27.7	0.99	2.6	1.68	49	8.59	
69	26.5	27.5	0.96	3.4	1.87	45	7.59	
70	26.0	26.0	1.00	3.3	1.41	50	9.85	
Mean	26.67	27.03	0.988	3.13	1.485	48.4	8.385	
SD	0.84	1.39	0.037	0.40	0.202	2.0	0.884	
N	10	10	10	10	10	10	10	10

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TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Biochemical Parameters					Rat	
Group 4: 30 µg/ animal BNT162b1		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
91	26.3	28.7	0.92	3.1	1.10	46	8.49	
92	27.2	26.8	1.01	2.2	1.07	47	9.02	
93	26.6	29.4	0.90	2.8	1.07	46	7.40	
94	28.5	32.5	0.88	2.7	1.12	48	8.59	
95	26.6	29.4	0.90	2.8	1.13	50	8.47	
96	27.9	29.1	0.96	3.1	1.01	44	9.38	
97	27.6	30.4	0.91	3.1	1.06	49	10.63	
98	27.3	31.7	0.86	2.8	1.09	50	7.82	
99	27.0	31.0	0.87	3.0	1.11	46	7.83	
100	27.3	31.7	0.86	3.0	1.59	45	9.34	
Mean	27.23	30.07	0.908	2.86	1.135	47.1	8.697	
SD	0.66	1.72	0.048	0.28	0.164	2.1	0.945	
N	10	10	10	10	10	10	10	

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TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Biochemical Parameters					Rat	
Group 5: 100 µg/ animal BNT162b1		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
121	28.2	30.8	0.92	3.9	1.08	53	6.01	
122	27.0	30.0	0.90	3.5	0.79	46	7.66	
123	26.4	31.6	0.84	3.1	1.67	51	7.87	
124	26.5	33.5	0.79	2.5	1.15	47	8.61	
125	26.2	29.8	0.88	3.0	1.33	52	8.45	
126	27.3	31.7	0.86	3.2	1.29	55	8.82	
127	27.8	31.2	0.89	3.2	1.46	49	10.62	
128	27.5	32.5	0.85	3.5	1.45	50	8.56	
129	27.9	35.1	0.79	3.6	1.47	55	7.10	
130	27.8	34.2	0.81	5.3	1.29	48	7.95	
Mean	27.26	32.04	0.853	3.48	1.298	50.6	8.165	
SD	0.70	1.77	0.044	0.75	0.246	3.2	1.205	
N	10	10	10	10	10	10	10	

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TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Biochemical Parameters					Rat	
Group 7: 100 µg/ animal BNT162b2		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
181	26.6	30.4	0.88	3.0	1.14	53	9.45	
182	27.0	30.0	0.90	3.9	1.47	57	7.51	
183	27.1	33.9	0.80	3.4	1.35	52	10.14	
184	26.5	30.5	0.87	3.1	1.25	56	8.01	
185	26.0	31.0	0.84	2.8	1.37	51	9.16	
186	27.1	32.9	0.82	3.5	1.09	53	8.80	
187	26.7	31.3	0.85	3.8	1.20	49	7.92	
188	27.3	31.7	0.86	3.5	1.24	52	10.13	
189	26.6	30.4	0.88	3.7	1.23	46	9.54	
190	25.9	30.1	0.86	3.3	1.56	46	8.64	
Mean	26.68	31.22	0.856	3.40	1.290	51.5	8.930	
SD	0.47	1.29	0.029	0.36	0.147	3.7	0.918	
N	10	10	10	10	10	10	10	

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TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 31 Relative to Start Date	Biochemical Parameters					Rat	
Group 6: 30 µg/ animal		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
161	28.8	28.2	1.02	3.1	1.44	49	9.70	
162	26.9	28.1	0.96	3.0	1.62	51	9.23	
163	27.6	26.4	1.05	3.2	1.51	47	9.46	
164	28.3	28.7	0.99	3.0	1.53	53	5.93	
165	28.0	28.0	1.00	2.9	1.49	49	10.98	
Mean	27.92	27.88	1.002	3.04	1.518	49.8	9.060	
SD	0.72	0.87	0.034	0.11	0.066	2.3	1.876	
N	5	5	5	5	5	5	5	

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TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Biochemical Parameters				Rat		
Group 1: Control		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (μmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (μmol/L)	Glucose (mmol/L)
11	29.5	27.5	1.07	3.1	1.28	49	12.51	
12	28.3	26.7	1.06	3.7	1.47	48	7.21	
13	28.9	28.1	1.03	3.1	1.73	52	13.33	
14	30.0	27.0	1.11	2.7	1.33	46	9.47	
15	27.7	27.3	1.01	2.2	1.58	45	7.42	
Mean	28.88	27.32	1.057	2.96	1.478	48.0	9.988	
SD	0.92	0.53	0.038	0.55	0.184	2.7	2.833	
N	5	5	5	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Biochemical Parameters					Rat	
Group 2: 30 µg/ animal BNT162a1		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
41	29.5	28.5	1.04	3.9	1.89	48	8.57	
42	28.5	26.5	1.08	2.7	1.09	46	13.02	
43	27.2	26.8	1.01	2.4	1.81	52	10.36	
44	28.2	27.8	1.01	3.1	2.23	49	9.66	
45	28.8	25.2	1.14	3.4	1.51	49	10.49	
Mean	28.44	26.96	1.057	3.10	1.706	48.8	10.420	
SD	0.84	1.27	0.054	0.59	0.429	2.2	1.641	
N	5	5	5	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Biochemical Parameters					Rat	
Group 3: 10 µg/ animal BNT162a1		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
71	29.8	24.2	1.23	3.4	1.48	52	9.97	
72	28.3	24.7	1.15	3.0	1.58	47	9.98	
73	27.4	25.6	1.07	3.0	2.03	48	9.77	
74	27.8	24.2	1.15	2.4	1.80	49	10.89	
75	28.7	26.3	1.09	2.9	1.43	48	11.91	
Mean	28.40	25.00	1.137	2.94	1.664	48.8	10.504	
SD	0.92	0.92	0.063	0.36	0.249	1.9	0.898	
N	5	5	5	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Biochemical Parameters					Rat	
Group 4: 30 µg/ animal	BNT162b1	Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
101	29.0	27.0	1.07	3.1	1.41	54	11.07	
102	28.5	30.5	0.93	2.5	1.77	54	10.38	
103	27.4	29.6	0.93	2.2	2.15	54	8.69	
104	29.1	30.9	0.94	2.7	1.91	53	8.33	
105	27.7	25.3	1.09	2.2	1.85	51	10.50	
Mean	28.34	28.66	0.994	2.54	1.818	53.2	9.794	
SD	0.76	2.42	0.083	0.38	0.269	1.3	1.207	
N	5	5	5	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Biochemical Parameters					Rat	
Group 5: 100 µg/ animal BNT162b1		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
131	28.0	28.0	23.1	1.00	2.9	1.38	50	9.82
132	28.9	23.5	1.25	2.4	1.76	53	10.51	
133	27.5	23.5	1.17	2.5	1.76	54	12.17	
134	29.5	27.5	1.07	2.9	1.80	47	7.76	
135	28.4	22.6	1.26	3.1	1.53	46	11.15	
Mean	28.46	24.94	1.150	2.76	1.646	50.0	10.282	
SD	0.78	2.59	0.112	0.30	0.183	3.5	1.654	
N	5	5	5	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Biochemical Parameters					Rat	
Group 7: 100 µg/ animal BNT162b2		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
191	28.5	30.5	0.93	2.7	2.01	49	8.71	
192	29.8	27.2	1.10	3.0	1.73	46	8.65	
193	29.5	27.5	1.07	3.0	2.10	50	10.43	
194	29.0	27.0	1.07	2.8	1.50	50	8.17	
195	28.9	26.1	1.11	2.9	2.20	48	9.08	
Mean	29.14	27.66	1.057	2.88	1.908	48.6	9.008	
SD	0.51	1.67	0.070	0.13	0.288	1.7	0.858	
N	5	5	5	5	5	5	5	5

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TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Biochemical Parameters					Rat
Group 1: Control	Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
1	2.60	54	1.25	6.59	2.77	101	4.34
2	2.79	56	1.54	5.82	2.74	100	4.31
3	2.65	58	2.54	7.06	2.90	100	4.02
4	2.41	57	3.33	4.78	2.87	101	4.72
5	2.44	57	1.63	6.41	2.83	100	4.65
11	2.62	57	1.38	4.85	2.80	101	3.79
12	2.71	56	1.55	7.05	2.74	102	4.49
13	2.50	58	2.58	5.56	2.88	102	4.29
14	2.24	57	1.42	6.30	2.85	101	4.64
15	2.67	56	1.89	5.12	2.86	101	4.68
Mean	2.563	56.6	1.911	5.954	2.824	100.9	4.393
SD	0.165	1.2	0.680	0.858	0.058	0.7	0.307
N	10	10	10	10	10	10	10

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RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Biochemical Parameters					Rat
Group 2: 30 µg/ animal	Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
31	2.60	57	0.80	7.45	2.76	102	4.45
32	2.61	56	1.28	6.11	2.79	101	4.50
33	2.50	53	1.36	6.06	2.89	100	4.12
34	2.62	56	1.55	6.55	2.84	101	4.10
35	2.68	57	1.26	6.75	2.70	100	4.67
41	2.54	58	0.61	6.80	2.87	102	4.62
42	2.47	58	0.78	6.97	2.92	100	4.85
43	2.42	55	1.77	6.98	2.70	102	4.85
44	2.50	59	1.23	6.19	2.69	100	4.39
45	2.61	55	0.63	6.84	2.82	102	4.23
Mean	2.555	56.4	1.127	6.670	2.798	101.0	4.478
SD	0.081	1.8	0.400	0.444	0.084	0.9	0.274
N	10	10	10	10	10	10	10

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TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Biochemical Parameters					Rat	
Group 3: 10 µg/ animal		Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
61	3.04	54	0.44	6.26	2.68	101	4.14	
62	2.59	55	0.52	4.77	2.64	103	4.05	
63	2.63	52	0.39	7.36	2.49	102	3.80	
64	2.60	57	0.64	8.01	2.60	102	4.15	
65	2.70	56	0.90	6.78	2.66	103	3.98	
71	2.72	56	0.37	9.46	2.54	102	4.07	
72	2.66	55	0.63	8.65	2.64	102	3.79	
73	2.56	55	0.72	5.98	2.68	101	3.95	
74	2.73	56	0.44	8.69	2.66	102	4.26	
75	2.72	55	0.68	8.36	2.76	103	3.65	
Mean	2.695	55.1	0.573	7.432	2.635	102.1	3.984	
SD	0.136	1.4	0.170	1.467	0.076	0.7	0.190	
N	10	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Biochemical Parameters					Rat	
Group 4: 30 µg/ animal	BNT162b1	Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
91	2.52	59	1.11	6.35	2.84	101	4.34	
92	2.44	57	1.31	5.45	2.76	101	4.20	
93	2.32	59	1.23	6.80	2.83	102	4.49	
94	2.51	65	1.96	7.20	2.94	100	4.74	
95	2.24	60	1.88	6.25	2.86	101	4.27	
101	2.22	59	1.34	6.47	2.80	102	4.22	
102	2.52	63	2.04	8.19	2.93	100	4.09	
103	2.23	58	1.04	5.98	2.76	101	4.46	
104	2.17	58	1.65	6.87	2.84	101	4.73	
105	2.21	59	1.48	6.70	2.86	101	4.57	
Mean	2.338	59.7	1.504	6.626	2.842	101.0	4.411	
SD	0.144	2.5	0.360	0.739	0.061	0.7	0.224	
N	10	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Biochemical Parameters					Rat
Group 5: 100 µg/ animal BNT162b1	Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
121	2.63	57	0.74	6.61	2.65	103	3.75
122	2.54	56	0.39	7.29	2.58	103	4.12
123	2.61	59	0.91	4.75	2.67	103	3.68
124	2.76	59	0.80	8.39	2.74	103	3.75
125	2.72	55	0.22	8.56	2.54	104	4.08
131	2.60	57	0.53	7.51	2.77	102	3.59
132	2.56	61	0.50	8.93	2.78	103	3.95
133	2.64	53	0.32	6.51	2.56	103	4.12
134	2.57	57	0.38	7.68	2.65	103	4.22
135	2.46	56	0.28	9.63	2.45	103	3.99
Mean	2.609	57.0	0.507	7.586	2.639	103.0	3.925
SD	0.087	2.3	0.236	1.408	0.107	0.5	0.217
N	10	10	10	10	10	10	10

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RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Biochemical Parameters					Rat	
Group 6: 30 µg/ animal		Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
151	2.76	57	0.87	5.80	2.64	102	4.40	
152	2.69	55	0.80	6.67	2.62	103	4.35	
153	2.51	57	0.43	6.57	2.57	102	3.98	
154	3.10	56	0.58	6.13	2.65	104	4.49	
155	2.62	58	0.44	6.04	2.54	103	4.29	
161	2.64	55	0.83	5.43	2.65	102	4.10	
162	2.38	55	0.35	7.41	2.48	104	4.10	
163	2.43	56	0.52	7.60	2.38	104	4.35	
164	2.50	57	0.37	7.82	2.47	103	4.83	
165	2.59	55	0.46	7.13	2.67	102	4.26	
Mean	2.622	56.1	0.565	6.660	2.567	102.9	4.315	
SD	0.204	1.1	0.197	0.812	0.097	0.9	0.239	
N	10	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Biochemical Parameters					Rat
Group 7: 100 µg/ animal BNT162b2	Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
181	2.74	57	0.51	7.50	2.44	103	4.09
182	2.09	59	0.35	7.64	2.69	103	4.56
183	2.30	58	0.52	6.12	2.87	100	4.02
184	2.77	53	0.34	6.80	2.57	103	3.54
185	2.66	56	0.36	5.24	2.66	104	4.35
191	2.45	53	0.41	5.55	2.54	103	3.96
192	2.60	53	0.57	6.11	2.55	104	4.11
193	2.60	55	0.54	7.61	2.52	104	3.75
194	2.72	59	0.88	11.36	2.65	103	3.97
195	2.76	56	0.59	9.05	2.83	103	4.08
Mean	2.569	55.9	0.507	7.298	2.632	103.0	4.043
SD	0.225	2.4	0.162	1.831	0.137	1.2	0.283
N	10	10	10	10	10	10	10

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RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 10 Relative to Start Date	Biochemical Parameters					Rat	
Group 6: 30 µg/ animal		Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
151	2.49	56	0.59	8.13	2.57	98	4.03	
152	2.51	58	0.35	7.04	2.71	102	3.79	
153	2.73	58	0.29	7.24	2.63	100	3.89	
154	2.90	55	0.56	7.83	2.52	99	3.90	
155	2.55	56	0.46	7.65	2.48	99	4.25	
156	2.69	58	0.46	8.37	2.71	98	3.64	
157	2.60	55	0.46	9.01	2.52	97	4.12	
158	2.41	54	0.30	8.13	2.47	99	4.01	
159	2.47	52	0.47	8.08	2.56	98	3.85	
160	2.36	52	0.62	8.58	2.58	100	4.39	
Mean	2.571	55.4	0.456	8.006	2.575	99.0	3.987	
SD	0.163	2.3	0.115	0.595	0.086	1.4	0.223	
N	10	10	10	10	10	10	10	

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TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Biochemical Parameters				Rat		
Group 1: Control		Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
1	1.99	55	0.26	7.30	2.57	101	104	4.51
2	1.81	53	0.26	7.79	2.45	101	101	4.04
3	1.90	57	0.46	7.48	2.57	101	101	3.91
4	2.60	54	0.63	6.14	2.71	101	101	4.38
5	2.68	55	0.60	6.68	2.59	100	100	3.29
6	2.42	54	0.49	6.27	2.48	99	99	3.55
7	2.28	55	0.42	8.16	2.64	101	101	3.88
8	2.21	50	0.45	7.36	2.43	100	100	3.52
9	2.45	50	0.30	5.96	2.54	100	100	4.20
10	2.11	54	0.26	6.54	2.48	99	99	3.76
Mean	2.245	53.7	0.413	6.968	2.546	100.6	100.6	3.904
SD	0.295	2.2	0.139	0.751	0.088	1.4	1.4	0.390
N	10	10	10	10	10	10	10	10

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TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Biochemical Parameters					Rat	
Group 2: 30 µg/ animal		Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
31	2.80	55	0.43	7.86	2.60	100	4.13	
32	3.16	56	0.46	7.46	2.66	102	5.19	
33	2.81	56	0.64	8.47	2.83	102	4.27	
34	2.03	54	0.52	7.81	2.69	102	4.17	
35	2.22	53	0.69	7.96	2.57	99	4.34	
36	2.50	57	0.38	8.77	2.59	99	3.86	
37	2.80	55	0.28	7.67	2.64	102	4.07	
38	2.87	52	0.34	8.18	2.57	100	3.85	
39	2.66	55	0.56	10.70	2.52	101	3.99	
40	2.73	53	0.79	8.98	2.54	97	3.95	
Mean	2.658	54.6	0.509	8.386	2.621	100.4	4.182	
SD	0.329	1.6	0.163	0.947	0.090	1.7	0.390	
N	10	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Biochemical Parameters					Rat	
Group 3: 10 µg/ animal		Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
61	2.72	54	0.56	7.19	2.48	99	3.94	
62	2.58	56	0.65	8.31	2.47	99	3.81	
63	2.48	51	0.44	8.25	2.40	99	3.84	
64	1.99	56	0.61	7.94	2.59	102	4.13	
65	2.15	54	0.52	8.34	2.48	98	3.89	
66	2.42	55	0.46	8.27	2.45	99	3.83	
67	2.39	50	0.56	8.03	2.56	100	4.14	
68	2.38	55	0.59	6.88	2.59	100	3.87	
69	2.59	54	0.57	8.37	2.62	101	4.02	
70	2.46	52	0.44	11.09	2.48	101	4.12	
Mean	2.416	53.7	0.540	8.267	2.512	99.8	3.959	
SD	0.213	2.1	0.073	1.117	0.073	1.2	0.132	
N	10	10	10	10	10	10	10	

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TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Biochemical Parameters					Rat
Group 4: 30 µg/ animal BNT162b1	Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
91	1.85	55	0.58	6.80	2.52	103	4.57
92	1.72	54	0.26	7.31	2.40	102	3.80
93	2.20	56	0.27	5.27	2.45	101	3.78
94	2.27	61	0.37	6.84	2.62	101	3.59
95	2.24	56	0.35	7.81	2.50	101	3.92
96	2.03	57	0.32	9.85	2.56	101	4.59
97	1.97	58	0.35	5.16	2.56	99	4.25
98	2.60	59	0.32	9.22	2.56	97	3.42
99	2.44	58	0.45	7.13	2.74	101	5.10
100	2.13	59	0.41	9.18	2.65	100	4.39
Mean	2.145	57.3	0.368	7.457	2.556	100.6	4.141
SD	0.265	2.1	0.094	1.596	0.098	1.6	0.527
N	10	10	10	10	10	10	10

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RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Biochemical Parameters				Rat	
Group 5: 100 µg/ animal BNT162b1	Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
121	2.77	59	0.54	9.33	2.52	99	3.43
122	2.61	57	0.32	6.61	2.56	101	4.11
123	2.31	58	0.71	7.32	2.53	99	4.05
124	2.45	60	0.53	8.56	2.65	103	4.76
125	2.34	56	0.41	10.04	2.47	99	3.96
126	2.38	59	0.60	10.19	2.59	103	4.36
127	1.95	59	0.51	8.71	2.65	100	4.19
128	1.87	60	0.46	8.18	2.64	100	4.19
129	2.24	63	0.48	8.22	2.65	100	3.61
130	4.16 E!	62	0.89	8.20	2.53	100	12.67 E!
Mean	2.324	59.3	0.545	8.536	2.579	100.4	4.073
SD	0.286	2.1	0.160	1.115	0.066	1.5	0.391
N	9	10	10	10	10	10	9

E = Exclude; ! = Result Comment

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RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Biochemical Parameters					Rat
Group 7: 100 µg/ animal BNT162b2	Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
181	2.67	57	0.48	8.88	2.54	100	4.12
182	2.76	57	0.48	12.30	2.61	101	3.73
183	2.18	61	0.72	10.96	2.76	100	4.32
184	2.49	57	0.40	8.77	2.52	100	3.99
185	2.32	57	0.55	9.42	2.58	99	4.14
186	2.19	60	0.29	9.48	2.67	100	4.38
187	2.24	58	0.40	8.64	2.60	101	4.10
188	2.00	59	0.44	8.88	2.58	101	5.04
189	2.57	57	0.40	8.33	2.61	99	4.09
190	2.23	56	0.62	8.71	2.60	100	4.29
Mean	2.365	57.9	0.478	9.437	2.607	100.1	4.220
SD	0.245	1.6	0.124	1.246	0.068	0.7	0.342
N	10	10	10	10	10	10	10

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TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 31 Relative to Start Date	Biochemical Parameters					Rat	
Group 6: 30 µg/ animal		Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
161	1.90	57	0.45	6.41	2.50	104	3.65	
162	1.87	55	0.45	6.86	2.33	103	3.89	
163	1.87	54	0.75	5.91	2.34	104	3.80	
164	3.14	57	0.30	6.88	2.50	105	5.93	
165	1.82	56	0.38	6.47	2.40	103	3.94	
Mean	2.120	55.8	0.466	6.506	2.414	103.8	4.242	
SD	0.571	1.3	0.170	0.397	0.083	0.8	0.950	
N	5	5	5	5	5	5	5	5

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TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Male Day: 38 Relative to Start Date		Biochemical Parameters				Rat		
Group 1: Control		Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
11	2.17	57	0.49	8.14	2.67	104	4.07	
12	2.32	55	0.46	5.27	2.42	103	3.62	
13	1.98	57	0.61	8.06	2.60	104	4.17	
14	1.99	57	0.52	5.70	2.60	103	4.00	
15	2.23	55	0.41	6.68	2.44	102	3.75	
Mean	2.138	56.2	0.498	6.770	2.546	103.2	3.922	
SD	0.150	1.1	0.075	1.318	0.110	0.8	0.229	
N	5	5	5	5	5	5	5	5

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TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Biochemical Parameters				Rat		
Group 2: 30 µg/ animal		Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
41	2.36	58	0.41	6.65	2.60	103	3.96	
42	2.10	55	0.28	6.91	2.57	101	4.08	
43	2.00	54	0.44	6.92	2.43	102	4.19	
44	2.50	56	0.72	8.14	2.62	101	4.07	
45	2.00	54	0.53	7.29	2.48	103	4.04	
Mean	2.192	55.4	0.476	7.182	2.540	102.0	4.068	
SD	0.227	1.7	0.163	0.582	0.082	1.0	0.083	
N	5	5	5	5	5	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Biochemical Parameters					Rat	
Group 3: 10 µg/ animal BNT162a1		Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
71	2.52	54	0.29	7.88	2.48	102	3.72	
72	2.17	53	0.42	6.20	2.55	102	3.33	
73	2.13	53	0.32	7.15	2.40	102	4.10	
74	2.02	52	0.42	7.91	2.51	103	4.21	
75	1.74	55	0.69	8.59	2.47	105	4.36	
Mean	2.116	53.4	0.428	7.546	2.482	102.8	3.944	
SD	0.281	1.1	0.158	0.909	0.055	1.3	0.417	
N	5	5	5	5	5	5	5	

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TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Biochemical Parameters					Rat	
Group 4: 30 µg/ animal		Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
101	2.03	56	0.55	9.19	2.45	103	3.98	
102	1.92	59	0.62	6.76	2.40	104	3.84	
103	2.34	57	0.51	7.67	2.42	102	3.95	
104	2.30	60	0.66	6.60	2.58	102	3.61	
105	1.91	53	0.50	7.96	2.47	105	4.08	
Mean	2.100	57.0	0.568	7.636	2.464	103.2	3.892	
SD	0.207	2.7	0.070	1.044	0.070	1.3	0.179	
N	5	5	5	5	5	5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Biochemical Parameters					Rat
Group 5: 100 µg/ animal BNT162b1	Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
131	2.05	56	0.68	7.55	2.56	103	4.29
132	1.96	52	0.81	6.73	2.54	104	3.94
133	2.65	51	0.42	9.15	2.46	102	3.98
134	2.18	57	0.39	6.25	2.54	102	4.05
135	1.96	51	0.39	8.77	2.41	104	4.05
Mean	2.160	53.4	0.538	7.690	2.502	103.0	4.062
SD	0.288	2.9	0.195	1.256	0.064	1.0	0.136
N	5	5	5	5	5	5	5

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Three LNP-Formulated  
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TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Biochemical Parameters					Rat
Group 7: 100 µg/ animal BNT162b2	Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
191	2.26	59	0.60	7.63	2.59	103	4.22
192	2.31	57	0.89	7.71	2.55	104	4.09
193	2.01	57	0.59	9.47	2.53	105	4.16
194	2.16	56	0.55	7.29	2.47	105	3.82
195	2.23	55	0.93	5.37	2.47	103	3.92
Mean	2.194	56.8	0.712	7.494	2.522	104.0	4.042
SD	0.116	1.5	0.182	1.460	0.052	1.0	0.167
N	5	5	5	5	5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Biochemical Parameters						Rat
		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	
Group 1: Control								
1	136	65	249	70	98	134	1.0	
2	136	65	249	86	78	158	1.5	
3	135	61	277	76	56	94	2.4	
4	134	56	391	76	106	125	2.4	
5	135	111	222	115	111	173	0.3	
11	135	57	294	67	66	115	0.1	
12	135	73	249	82	112	152	0.1	
13	136	59	208	78	87	97	0.4	
14	136	59	246	79	98	115	0.6	
15	134	55	317	74	88	109	0.7	
Mean	135.2	66.1	270.2	80.3	90.0	127.2	0.95	
SD	0.8	16.7	53.3	13.4	18.9	26.6	0.87	
N	10	10	10	10	10	10	10	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Biochemical Parameters					Rat	
Group 2: 30 µg/ animal		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
31	136	55	222	87	54	150	150	4.0
32	136	55	227	84	47	95	95	4.5
33	136	68	239	81	90	126	126	4.5
34	136	69	292	88	82	207	207	4.9
35	135	64	246	93	78	170	170	5.6
41	135	51	255	84	58	198	198	4.5
42	134	54	273	83	57	137	137	5.1
43	134	56	329	80	102	210	210	3.0
44	135	52	260	83	51	123	123	2.6
45	137	45	236	88	67	351	351	3.4
Mean	135.4	56.9	257.9	85.1	68.6	176.7	176.7	4.21
SD	1.0	7.7	32.8	3.9	18.5	72.5	72.5	0.96
N	10	10	10	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Biochemical Parameters						Rat
		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	
Group 3: 10 µg/ animal BNT162a1	61	136	48	131	90	113	113	2.9
	62	138	42	161	94	112	273	2.6
	63	137	41	128	93	96	20	3.3
	64	136	47	247	97	111	215	2.6
	65	136	51	181	112	170	47	1.8
	71	137	57	283	106	143	106	3.6
	72	136	62	204	110	133	229	3.2
	73	136	39	150	107	120	33	3.3
	74	136	50	180	97	87	20	2.9
	75	138	51	153	89	90	144	3.1
Mean	136.6	48.8	181.8	99.5	117.5	120.0	2.93	
SD	0.8	7.1	50.3	8.5	25.6	93.1	0.51	
N	10	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Biochemical Parameters						Rat
Group 4: 30 µg/ animal		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
91	136	51	278	72	58	113	3.0	
92	136	63	320	82	77	156	1.4	
93	136	52	252	78	75	291	3.0	
94	136	68	227	70	71	123	2.3	
95	135	69	239	76	149	261	2.5	
101	137	68	277	84	68	217	3.1	
102	136	73	240	79	97	194	2.7	
103	135	58	277	72	62	85	2.0	
104	136	49	206	72	77	268	2.9	
105	136	68	259	88	81	458	2.3	
Mean	135.9	61.9	257.5	77.3	81.5	216.6	2.52	
SD	0.6	8.7	32.2	6.0	26.0	110.3	0.54	
N	10	10	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Biochemical Parameters						Rat
		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	
Group 5: 100 µg/ animal BNT162b1	121	138	57	214	86	122	108	3.9
	122	137	35	153	67	74	95	4.4
	123	138	44	173	86	80	26	2.9
	124	138	61	203	94	100	127	2.4
	125	137	41	241	94	192	10	3.5
	131	136	44	180	87	128	224	2.4
	132	137	48	213	95	152	347	3.9
	133	137	39	221	82	88	106	3.2
	134	137	39	180	80	135	145	3.3
	135	138	48	172	99	194	139	3.3
Mean	137.3	45.6	195.0	87.0	126.5	132.7	3.32	
SD	0.7	8.2	27.4	9.3	43.1	96.4	0.65	
N	10	10	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Biochemical Parameters						Rat
Group 6: 30 µg/ animal		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
151	136	38	145	87	153	52	28	
152	136	53	172	100	111	139	5.2	
153	136	42	208	94	111	137	4.0	
154	137	47	218	104	153	227	4.2	
155	138	43	167	89	124	152	4.5	
161	138	43	171	91	110	127	4.3	
162	137	47	197	93	80	221	2.7	
163	138	42	206	96	133	158	1.4	
164	136	44	214	92	184	154	3.5	
165	136	43	200	108	190	160	3.4	
Mean	136.8	44.2	189.8	95.4	134.9	152.7	3.60	
SD	0.9	4.0	24.3	6.7	35.0	48.9	1.09	
N	10	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 4 Relative to Start Date	Biochemical Parameters						Rat
Group 7: 100 µg/ animal BNT162b2		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
181		136	47	172	82	172	161	2.3
182		138	45	213	93	85	83	1.3
183		136	67	225	96	80	14	2.9
184		138	44	211	99	156	151	2.8
185		138	31	163	93	172	198	2.9
191		138	37	224	103	168	151	4.5
192		137	45	248	112	185	247	3.0
193		138	45	225	102	97	192	3.6
194		137	39	188	83	128	174	4.9
195		137	44	230	96	144	180	4.3
Mean		137.3	44.4	209.9	95.9	138.7	155.1	3.25
SD		0.8	9.3	27.2	9.0	39.1	64.8	1.09
N		10	10	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 10 Relative to Start Date	Biochemical Parameters						Rat
Group 6: 30 µg/ animal		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
151	132	43	132	97	141	147	141	3.3
152	133	49	165	116	125	141	6.1	
153	133	45	164	108	140	221	221	3.1
154	131	58	177	125	163	233	233	2.8
155	132	46	152	108	133	167	167	3.1
156	134	55	178	100	108	111	111	4.0
157	129	49	148	101	131	128	128	4.2
158	131	51	160	113	112	208	208	5.6
159	133	47	169	110	67	92	92	3.2
160	133	52	158	126	126	78	78	4.4
Mean	132.1	49.5	160.3	110.4	124.6	152.6	152.6	3.98
SD	1.4	4.6	13.9	9.9	25.5	53.9	53.9	1.12
N	10	10	10	10	10	10	10	10

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RNA Platforms encoding for Viral Proteins

TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Male Day: 17 Relative to Start Date

Group 1: Control	Biochemical Parameters					Rat (U/L)
	Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	
1	134	39	149	82	172	98
2	136	40	158	84	130	341
3	135	31	155	60	49	116
4	136	32	223	84	102	372
5	135	50	140	110	70	104
6	133	38	135	70	44	127
7	135	30	135	74	113	89
8	135	27	151	67	87	70
9	134	26	157	68	132	129
10	134	46	169	100	196	134
Mean	134.7	35.9	157.2	79.9	109.5	158.0
SD	0.9	8.0	25.5	15.6	49.9	106.7
N	10	10	10	10	10	10

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TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Biochemical Parameters						Rat
Group 2: 30 µg/ animal		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
31	134	44	201	113	95	154	4.2	
32	135	29	166	91	196	193	3.8	
33	136	54	169	116	147	311	4.4	
34	136	41	232	106	119	120	3.2	
35	133	34	157	97	175	118	5.6	
36	132	44	181	95	117	165	4.7	
37	136	32	204	82	65	120	4.4	
38	132	48	155	115	143	168	4.5	
39	134	31	232	85	121	159	5.4	
40	130	44	209	113	162	148	4.1	
Mean	133.8	40.1	190.6	101.3	134.0	165.6	4.43	
SD	2.0	8.2	29.1	12.9	38.8	56.6	0.70	
N	10	10	10	10	10	10	10	

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TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Biochemical Parameters						Rat
Group 3: 10 µg/ animal		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
61	132	52	124	114	167	168	168	2.6
62	133	37	114	73	55	142	142	3.8
63	132	45	121	114	141	124	124	2.5
64	135	40	191	104	172	120	120	3.1
65	132	38	128	100	154	139	139	1.5
66	133	32	103	76	102	106	106	3.7
67	134	38	139	102	121	95	95	2.1
68	132	37	133	64	45	94	94	3.7
69	134	42	173	98	134	122	122	4.5
70	134	28	105	93	150	137	137	2.9
Mean	133.1	38.9	133.1	93.8	124.1	124.7	124.7	3.04
SD	1.1	6.6	28.5	17.3	44.2	22.9	22.9	0.90
N	10	10	10	10	10	10	10	10

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RNA Platforms encoding for Viral Proteins

TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Biochemical Parameters						Rat
Group 4: 30 µg/ animal		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
91	133	36	153	98	133	111	4.1	
92	136	37	177	101	92	126	4.2	
93	133	38	134	89	80	229	2.9	
94	135	34	127	77	58	136	3.1	
95	136	29	133	78	81	192	3.7	
96	134	37	142	93	146	179	4.5	
97	133	40	123	89	102	178	3.0	
98	132	36	114	88	82	137	3.8	
99	137	40	123	94	128	139	3.5	
100	135	35	178	80	132	115	3.1	
Mean	134.4	36.2	140.4	88.7	103.4	154.2	3.59	
SD	1.6	3.2	22.3	8.2	29.5	38.4	0.56	
N	10	10	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Biochemical Parameters						Rat
		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	
<b>Group 5: 100 µg/ animal BNT162b1</b>								
121	132	37	159	96	141	158	4.0	
122	133	27	156	78	106	123	5.4	
123	132	31	132	70	102	102	4.0	
124	136	39	162	84	146	118	3.3	
125	132	36	217	87	77	187	4.2	
126	134	43	201	99	115	143	6.0	
127	133	31	161	82	155	120	4.0	
128	133	34	154	88	115	130	4.9	
129	133	27	150	85	119	134	3.2	
130	126	74	151	308 E!	2274 E!	245	2.8	
Mean	132.4	37.9	164.3	85.4	119.6	146.0	4.18	
SD	2.5	13.7	25.3	8.7	24.4	42.1	1.00	
N	10	10	10	9	9	10	10	

E = Exclude; ! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Biochemical Parameters						Rat
Group 7: 100 µg/ animal BNT162b2		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
181	132	28	127	73	126	128	4.9	
182	133	35	170	94	86	162	4.9	
183	133	32	152	77	109	101	5.4	
184	132	34	176	106	133	129	5.4	
185	133	28	144	83	126	121	4.7	
186	132	39	201	91	117	125	4.4	
187	133	26	182	85	133	115	4.1	
188	133	37	194	96	164	126	3.6	
189	133	35	229	93	116	141	4.4	
190	133	46	246	93	133	116	6.5	
Mean	132.7	34.0	182.1	89.1	124.3	126.4	4.83	
SD	0.5	6.0	37.1	9.7	20.1	16.3	0.81	
N	10	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 31 Relative to Start Date	Biochemical Parameters					Rat	
Group 6: 30 µg/ animal		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
161	138	49	117	110	122	226	226	2.3
162	138	48	119	84	138	115	2.0	
163	139	42	144	85	99	78	2.2	
164	140	47	143	72	150	197	1.5	
165	137	34	126	80	93	101	1.2	
Mean	138.4	44.0	129.8	86.2	120.4	143.4	1.84	
SD	1.1	6.2	12.9	14.3	24.5	64.4	0.47	
N	5	5	5	5	5	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Biochemical Parameters					Rat	
Group 1: Control		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
11	137	35	134	71	107	76	76	2.8
12	137	38	100	116	215	1117	1117	1.6
13	135	32	100	69	106	114	114	3.6
14	137	31	94	76	78	133	133	1.7
15	137	37	126	70	61	85	85	3.3
Mean	136.6	34.6	110.8	80.4	113.4	305.0	305.0	2.60
SD	0.9	3.0	17.9	20.1	60.0	454.5	454.5	0.91
N	5	5	5	5	5	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Biochemical Parameters				Rat		
Group 2: 30 µg/ animal		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
41	137	36	120	77	72	98	201	2.5
42	136	29	106	75	57	180	180	3.2
43	134	39	124	80	69	141	506	2.7
44	135	36	120	84	141	144	119	3.5
45	136	37	119	75	144			1.8
Mean	135.6	35.4	117.8	78.2	96.6	220.8	220.8	2.74
SD	1.1	3.8	6.9	3.8	42.3	165.0	165.0	0.66
N	5	5	5	5	5	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Biochemical Parameters				Rat	
Group 3: 10 µg/ animal BNT162a1	Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
71	138	37	145	86	140	82	1.8
72	138	42	116	83	52	67	2.0
73	137	36	84	109	209	354	1.9
74	138	33	90	75	101	92	2.6
75	140	37	103	80	161	273	1.1
Mean	138.2	37.0	107.6	86.6	132.6	173.6	1.88
SD	1.1	3.2	24.3	13.2	59.6	131.2	0.54
N	5	5	5	5	5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Biochemical Parameters					Rat	
Group 4: 30 µg/ animal BNT162b1		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
101	137	40	156	95	151	103	23	
102	140	45	115	92	50	84	1.6	
103	135	39	138	81	51	92	2.2	
104	137	37	94	87	68	267	2.4	
105	140	41	162	83	42	82	3.0	
Mean	137.8	40.4	133.0	87.6	72.4	125.6	2.30	
SD	2.2	3.0	28.5	5.9	44.9	79.5	0.50	
N	5	5	5	5	5	5	5	

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TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Biochemical Parameters					Rat	
Group 5: 100 µg/ animal BNT162b1		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
131	138	44	143	102	179	282	282	0.6
132	139	40	112	87	68	338	338	0.3
133	137	35	157	74	52	199	199	1.9
134	136	37	114	76	127	252	252	1.6
135	139	44	106	105	102	107	107	2.3
Mean	137.8	40.0	126.4	88.8	105.6	235.6	235.6	1.34
SD	1.3	4.1	22.3	14.3	50.4	87.7	87.7	0.86
N	5	5	5	5	5	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Biochemical Parameters					Rat	
Group 7: 100 µg/ animal BNT162b2		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
191	137	46	108	79	71	285	285	0.5
192	138	46	155	102	69	99	99	3.2
193	139	41	100	79	75	67	67	1.6
194	139	33	120	77	77	434	434	1.8
195	139	33	104	76	79	114	114	2.0
Mean	138.4	39.8	117.4	82.6	74.2	199.8	199.8	1.82
SD	0.9	6.5	22.3	10.9	4.1	155.9	155.9	0.97
N	5	5	5	5	5	5	5	5

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TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Biochemical Parameters					Rat	
Group 1: Control		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (μmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (μmol/L)	Glucose (mmol/L)
16	29.6	24.4	1.21	3.5	1.76	42	11.14	
17	29.7	28.3	1.05	4.7	1.53	42	7.86	
18	32.3	28.7	1.13	4.6	1.67	45	8.72	
19	31.0	27.0	1.15	3.3	2.20	44	9.52	
20	32.3	25.7	1.26	3.2	2.07	44	8.60	
26	33.7	28.3	1.19	4.1	2.26	43	8.87	
27	31.5	28.5	1.11	2.4	1.47	38	9.94	
28	30.3	26.7	1.13	3.1	1.64	46	8.47	
29	32.2	29.8	1.08	3.5	2.28	45	8.39	
30	33.5	29.5	1.14	2.7	1.77	45	8.86	
Mean	31.61	27.69	1.144	3.51	1.865	43.4	9.037	
SD	1.45	1.71	0.062	0.76	0.309	2.3	0.940	
N	10	10	10	10	10	10	10	

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TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Biochemical Parameters					Rat	
Group 2: 30 µg/ animal		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
46	27.6	28.4	0.97	3.7	2.15	44	7.90	
47	27.6	31.4	0.88	3.1	2.40	40	9.43	
48	26.4	28.6	0.92	4.4	2.15	41	8.33	
49	26.4	27.6	0.96	3.1	1.64	41	8.78	
50	28.6	29.4	0.97	3.5	1.97	44	8.16	
56	26.5	28.5	0.93	3.5	1.36	40	8.70	
57	28.0	30.0	0.93	5.2	1.96	43	9.78	
58	27.4	28.6	0.96	3.3	2.64	45	10.20	
59	28.0	29.0	0.97	3.7	1.56	43	8.73	
60	25.0	28.0	0.89	3.3	2.06	40	9.34	
Mean	27.15	28.95	0.938	3.68	1.989	42.1	8.935	
SD	1.06	1.09	0.033	0.65	0.388	1.9	0.737	
N	10	10	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Biochemical Parameters					Rat	
Group 3: 10 µg/ animal		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
76	28.3	26.7	1.06	2.9	2.10	50	6.29	
77	26.9	23.1	1.16	2.3	1.86	45	9.88	
78	27.7	28.3	0.98	3.4	2.70	39	5.46	
79	27.0	23.0	1.17	2.8	1.73	45	6.75	
80	30.1	27.9	1.08	2.6	2.12	45	6.18	
86	27.4	25.6	1.07	2.4	1.77	45	6.56	
87	27.5	24.5	1.12	2.4	2.14	40	5.73	
88	28.0	26.0	1.08	2.8	2.16	43	8.70	
89	29.3	26.7	1.10	3.1	2.10	47	6.69	
90	28.1	24.9	1.13	3.2	1.94	45	6.65	
Mean	28.03	25.67	1.095	2.79	2.062	44.4	6.889	
SD	1.01	1.82	0.057	0.37	0.275	3.2	1.362	
N	10	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Biochemical Parameters					Rat	
Group 4: 30 µg/ animal		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
106	27.4	28.6	0.96	2.6	1.82	44	9.82	
107	29.9	29.1	1.03	2.5	2.01	43	9.44	
108	28.6	32.4	0.88	2.6	1.75	42	7.82	
109	29.6	30.4	0.97	2.7	2.25	43	8.63	
110	29.5	33.5	0.88	3.6	1.96	41	7.57	
116	28.1	28.9	0.97	2.2	1.92	44	9.52	
117	27.8	31.2	0.89	2.4	2.39	42	9.36	
118	29.6	29.4	1.01	2.6	1.76	42	8.89	
119	30.0	29.0	1.03	2.2	1.90	43	8.73	
120	29.2	30.8	0.95	2.3	1.55	42	8.63	
Mean	28.97	30.33	0.958	2.57	1.931	42.6	8.841	
SD	0.93	1.65	0.057	0.40	0.245	1.0	0.731	
N	10	10	10	10	10	10	10	

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TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Biochemical Parameters				Rat		
Group 5: 100 µg/ animal BNT162b1		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
136	28.7	29.3	0.98	2.3	2.38	42	9.69	
137	27.7	27.3	1.01	2.3	1.51	44	9.99	
138	27.3	26.7	1.02	2.7	1.68	47	6.58	
139	29.1	29.9	0.97	3.2	1.27	48	7.08	
140	28.4	34.6	0.82	3.2	1.99	43	6.23	
146	27.2	28.8	0.94	3.2	1.40	42	9.05	
147	29.1	32.9	0.88	2.9	2.70	41	6.09	
148	28.2	28.8	0.98	2.7	2.06	36	4.97	
149	27.8	27.2	1.02	2.3	1.86	43	6.67	
150	28.6	33.4	0.86	2.9	1.80	45	6.32	
Mean	28.21	29.89	0.950	2.77	1.865	43.1	7.267	
SD	0.69	2.80	0.072	0.37	0.441	3.3	1.698	
N	10	10	10	10	10	10	10	

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TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Biochemical Parameters					Rat	
Group 6: 30 µg/ animal		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
166	27.7	26.3	1.05	3.3	2.14	47	6.65	
167	28.2	27.8	1.01	2.8	1.83	45	7.05	
168	28.8	28.2	1.02	3.0	1.86	41	5.92	
169	26.9	26.1	1.03	2.9	1.87	42	8.28	
170	28.2	26.8	1.05	3.3	1.97	47	5.50	
176	28.7	29.3	0.98	3.2	2.13	45	9.08	
177	27.7	26.3	1.05	3.4	1.52	44	9.52	
178	27.4	30.6	0.90	2.3	2.40	43	9.36	
179	28.5	28.5	1.00	3.4	2.39	42	5.72	
180	27.1	22.9	1.18	3.1	1.37	46	6.54	
Mean	27.92	27.28	1.028	3.07	1.948	44.2	7.362	
SD	0.66	2.12	0.072	0.34	0.336	2.1	1.562	
N	10	10	10	10	10	10	10	

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TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Biochemical Parameters					Rat	
Group 7: 100 µg/ animal BNT162b2		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
196	28.0	29.0	0.97	3.4	1.58	48	6.35	
197	27.2	28.8	0.94	2.5	2.03	42	5.10	
198	26.5	27.5	0.96	2.4	1.79	42	6.21	
199	27.5	27.5	1.00	3.3	2.14	40	8.81	
200	27.4	27.6	0.99	2.4	1.63	41	5.94	
206	28.2	28.8	0.98	2.7	1.84	46	5.70	
207	27.9	28.1	0.99	2.5	1.75	40	7.25	
208	29.4	32.6	0.90	2.4	2.23	45	7.47	
209	28.2	29.8	0.95	2.6	1.65	40	6.05	
210	25.9	27.1	0.96	3.1	1.89	44	6.33	
Mean	27.62	28.68	0.964	2.73	1.853	42.8	6.521	
SD	0.97	1.62	0.029	0.39	0.220	2.8	1.059	
N	10	10	10	10	10	10	10	

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TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 10 Relative to Start Date	Biochemical Parameters					Rat	
Group 6: 30 µg/ animal		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
166	27.6	26.4	1.05	3.0	2.06	47	8.21	
167	28.5	28.5	1.00	2.9	1.76	43	7.73	
168	27.8	26.2	1.06	3.3	1.66	42	7.70	
169	27.3	26.7	1.02	2.8	1.75	49	9.08	
170	27.5	24.5	1.12	3.1	1.36	45	7.07	
171	26.3	23.7	1.11	2.9	1.16	49	7.81	
172	27.6	28.4	0.97	3.4	1.69	49	8.27	
173	27.5	27.5	1.00	3.1	1.49	42	7.90	
174	26.8	24.2	1.11	3.0	1.68	51	8.83	
175	26.6	25.4	1.05	2.8	1.71	48	7.84	
Mean	27.35	26.15	1.049	3.03	1.632	46.5	8.044	
SD	0.64	1.70	0.052	0.20	0.246	3.3	0.582	
N	10	10	10	10	10	10	10	

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TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Biochemical Parameters					Rat	
Group 1: Control		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (μmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (μmol/L)	Glucose (mmol/L)
16	29.7	23.3	1.27	2.2	1.66	52	9.51	
17	29.3	28.7	1.02	2.6	1.15	46	8.50	
18	31.5	26.5	1.19	3.1	1.56	42	10.23	
19	28.4	24.6	1.15	3.4	2.40	47	8.43	
20	31.6	26.4	1.20	3.6	2.01	51	9.21	
21	30.9	26.1	1.18	3.1	1.90	46	10.47	
22	29.7	24.3	1.22	2.7	1.42	41	9.56	
23	30.9	25.1	1.23	4.0	2.18	48	9.70	
24	31.7	26.3	1.21	2.9	1.95	49	8.62	
25	29.9	24.1	1.24	2.7	1.41	46	10.79	
Mean	30.36	25.54	1.192	3.03	1.764	46.8	9.502	
SD	1.12	1.57	0.069	0.53	0.389	3.5	0.829	
N	10	10	10	10	10	10	10	

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TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Biochemical Parameters					Rat	
Group 2: 30 µg/ animal BNT162a1		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
46	26.9	28.1	0.96	3.4	2.03	48	9.10	
47	27.7	28.3	0.98	3.5	2.03	53	7.86	
48	27.1	30.9	0.88	3.5	2.11	50	8.70	
49	26.3	24.7	1.06	4.3	1.44	48	6.03	
50	28.6	29.4	0.97	4.0	1.83	48	7.59	
51	28.5	36.5	0.78	3.9	2.35	46	8.31	
52	27.0	26.0	1.04	4.4	1.13	43	6.89	
53	28.9	30.1	0.96	5.0	1.68	49	7.84	
54	27.9	29.1	0.96	4.7	1.80	47	7.77	
55	27.9	27.1	1.03	3.7	1.78	47	8.11	
Mean	27.68	29.02	0.962	4.04	1.818	47.9	7.820	
SD	0.84	3.23	0.083	0.55	0.349	2.6	0.873	
N	10	10	10	10	10	10	10	

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TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Biochemical Parameters					Rat	
Group 3: 10 µg/ animal BNT162a1		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
76	27.4	27.6	0.99	2.8	2.38	48	10.88	
77	27.7	26.3	1.05	3.5	2.23	46	8.83	
78	26.9	26.1	1.03	3.5	2.41	49	7.62	
79	27.4	25.6	1.07	3.5	1.91	48	8.65	
80	26.9	25.1	1.07	3.6	1.79	46	8.04	
81	28.0	23.0	1.22	3.3	1.27	52	7.92	
82	29.2	24.8	1.18	4.0	1.53	52	7.40	
83	28.4	26.6	1.07	3.9	1.77	50	7.70	
84	27.8	28.2	0.99	3.3	2.10	48	8.58	
85	27.2	24.8	1.10	4.7	1.55	53	9.71	
Mean	27.69	25.81	1.076	3.61	1.894	49.2	8.533	
SD	0.71	1.50	0.073	0.51	0.384	2.5	1.076	
N	10	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Biochemical Parameters					Rat	
Group 4: 30 µg/ animal BNT162b1		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
106	26.0	28.0	0.93	3.4	1.60	47	11.67	
107	27.5	27.5	1.00	2.9	1.48	49	6.88	
108	28.2	31.8	0.89	4.5	1.21	43	8.25	
109	27.0	29.0	0.93	2.5	1.89	49	7.68	
110	29.7	33.3	0.89	2.8	1.60	46	8.48	
111	27.4	30.6	0.90	3.2	1.70	48	9.29	
112	26.7	30.3	0.88	2.6	1.16	47	9.94	
113	26.4	29.6	0.89	2.8	1.64	48	8.72	
114	27.1	30.9	0.88	2.9	1.09	48	6.19	
115	27.8	30.2	0.92	3.0	1.11	47	9.04	
Mean	27.38	30.12	0.910	3.06	1.448	47.2	8.614	
SD	1.04	1.72	0.037	0.57	0.284	1.8	1.551	
N	10	10	10	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Biochemical Parameters					Rat	
Group 5: 100 µg/ animal BNT162b1		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
136	26.4	28.6	0.92	3.8	1.53	48	8.12	
137	27.9	30.1	0.93	3.9	1.73	47	7.51	
138	25.9	24.1	1.07	2.9	1.32	49	9.96	
139	28.0	30.0	0.93	4.0	1.01	49	7.43	
140	27.2	29.8	0.91	5.0	1.28	49	7.78	
141	29.5	33.5	0.88	4.5	2.07	54	8.03	
142	26.6	29.4	0.90	3.4	1.54	47	9.39	
143	26.9	28.1	0.96	3.6	1.65	48	6.65	
144	26.9	30.1	0.89	2.7	1.15	54	9.29	
145	26.4	28.6	0.92	4.5	1.16	48	7.51	
Mean	27.17	29.23	0.933	3.83	1.444	49.3	8.167	
SD	1.05	2.34	0.054	0.72	0.322	2.6	1.046	
N	10	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Biochemical Parameters					Rat	
Group 7: 100 µg/ animal BNT162b2		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
196	27.1	28.9	0.94	5.1	1.25	50	7.78	
197	26.4	28.6	0.92	5.5	1.53	46	9.07	
198	27.6	32.4	0.85	2.5	1.17	53	11.01	
199	26.9	30.1	0.89	3.1	1.25	46	9.37	
200	28.2	29.8	0.95	3.8	1.45	51	7.30	
201	27.3	28.7	0.95	3.4	1.14	53	8.94	
202	27.1	31.9	0.85	5.1	1.25	51	7.70	
203	26.9	29.1	0.92	3.7	1.52	47	9.22	
204	25.6	28.4	0.90	3.5	1.09	55	7.24	
205	27.2	32.8	0.83	3.9	1.40	50	7.24	
Mean	27.03	30.07	0.901	3.96	1.305	50.2	8.487	
SD	0.69	1.68	0.044	0.97	0.159	3.1	1.241	
N	10	10	10	10	10	10	10	

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TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 31 Relative to Start Date	Biochemical Parameters					Rat	
Group 6: 30 µg/ animal		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
176	31.2	28.8	1.08	3.7	1.57	58	10.02	
177	29.9	28.1	1.06	3.5	1.07	54	8.85	
178	33.7	30.3	1.11	4.0	2.39	48	10.44	
179	30.2	28.8	1.05	2.5	1.80	49	9.89	
180	30.5	26.5	1.15	3.6	1.37	55	8.33	
Mean	31.10	28.50	1.092	3.46	1.640	52.8	9.506	
SD	1.53	1.38	0.041	0.57	0.498	4.2	0.880	
N	5	5	5	5	5	5	5	

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TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Biochemical Parameters					Rat	
Group 1: Control		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (μmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (μmol/L)	Glucose (mmol/L)
26	32.9	29.1	1.13	3.1	2.42	53	11.08	
27	30.1	29.9	1.01	2.7	1.34	54	9.10	
28	28.0	29.0	0.97	2.8	1.52	53	9.60	
29	31.7	30.3	1.05	2.6	2.21	56	7.47	
30	33.6	29.4	1.14	2.7	1.90	60	8.43	
Mean	31.26	29.54	1.058	2.78	1.878	55.2	9.136	
SD	2.25	0.55	0.077	0.19	0.453	2.9	1.348	
N	5	5	5	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Biochemical Parameters						Rat
Group 2: 30 µg/ animal BNT162a1		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
56	30.1	28.9	1.04	2.8	1.30	51	9.36	
57	34.2	31.8	1.08	5.2	2.14	51	8.79	
58	29.7	29.3	1.01	2.6	2.87	52	10.33	
59	31.1	32.9	0.95	2.8	1.39	59	6.61	
60	29.7	30.3	0.98	3.5	2.06	49	9.02	
Mean	30.96	30.64	1.011	3.38	1.952	52.4	8.822	
SD	1.90	1.69	0.051	1.07	0.638	3.8	1.369	
N	5	5	5	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Female Day: 38 Relative to Start Date		Biochemical Parameters					Rat	
Group 3: 10 µg/ animal BNT162a1		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
86	29.9	25.1	1.19	3.6	1.32	54	8.70	
87	29.2	24.8	1.18	3.4	1.59	50	7.81	
88	29.8	22.2	1.34	3.0	2.00	50	9.94	
89	29.3	22.7	1.29	2.9	1.27	51	10.15	
90	30.6	24.4	1.25	3.4	1.95	50	11.49	
Mean	29.76	23.84	1.251	3.26	1.626	51.0	9.618	
SD	0.56	1.30	0.069	0.30	0.342	1.7	1.414	
N	5	5	5	5	5	5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Biochemical Parameters					Rat	
Group 4: 30 µg/ animal BNT162b1		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
116	30.3	31.7	0.96	2.5	1.78	60	9.80	
117	30.3	28.7	1.06	2.9	1.80	54	10.38	
118	32.1	30.9	1.04	3.4	1.58	52	11.70	
119	30.3	27.7	1.09	2.8	1.92	51	7.72	
120	31.0	31.0	1.00	3.4	1.82	57	10.97	
Mean	30.80	30.00	1.029	3.00	1.780	54.8	10.114	
SD	0.79	1.71	0.053	0.39	0.124	3.7	1.512	
N	5	5	5	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Biochemical Parameters				Rat		
Group 5: 100 µg/ animal BNT162b1		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
146	28.5	24.5	1.16	2.6	1.24	53	11.75	
147	33.0	31.0	1.06	3.5	2.73	50	10.91	
148	32.2	26.8	1.20	2.6	2.05	52	6.75	
149	29.1	25.9	1.12	3.2	1.47	65	9.53	
150	31.6	30.4	1.04	3.8	1.53	56	11.88	
Mean	30.88	27.72	1.118	3.14	1.804	55.2	10.164	
SD	1.97	2.85	0.067	0.54	0.596	5.9	2.126	
N	5	5	5	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Biochemical Parameters					Rat	
Group 7: 100 µg/ animal BNT162b2		Albumin (g/L)	Globulin (g/L)	Alb./Glob. Ratio	Bilirubin (total) (µmol/L)	Choleste- rol (total) (mmol/L)	Crea- tinine (µmol/L)	Glucose (mmol/L)
206	31.2	28.8	1.08	2.8	2.05	47	8.13	
207	30.2	27.8	1.09	3.3	1.96	55	12.40	
208	31.4	23.6	1.33	3.0	2.50	52	9.87	
209	30.7	27.3	1.12	2.8	2.08	50	6.96	
210	29.0	28.0	1.04	2.4	1.60	52	9.31	
Mean	30.50	27.10	1.132	2.86	2.038	51.2	9.334	
SD	0.96	2.03	0.115	0.33	0.321	2.9	2.048	
N	5	5	5	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Biochemical Parameters					Rat	
Group 1: Control		Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
16	1.87	54	2.06	6.45	2.64	102	4.19	
17	2.58	58	1.54	7.49	2.81	101	4.45	
18	2.09	61	2.22	9.09	2.74	102	4.42	
19	2.37	58	1.30	7.13	2.81	103	4.22	
20	2.09	58	1.11	6.26	2.79	103	3.78	
26	2.19	62	2.36	7.19	2.88	102	4.48	
27	1.99	60	0.87	5.60	2.69	102	3.88	
28	2.41	57	1.26	6.40	2.79	101	4.23	
29	2.41	62	2.17	7.01	2.90	101	4.58	
30	2.07	63	0.71	6.51	2.65	105	4.21	
Mean	2.207	59.3	1.560	6.913	2.770	102.2	4.244	
SD	0.225	2.8	0.602	0.943	0.089	1.2	0.257	
N	10	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Biochemical Parameters				Rat		
Group 2: 30 µg/ animal		Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
46	2.52	56	2.19	7.54	2.83	101	4.10	
47	2.23	59	1.22	7.27	2.93	103	4.38	
48	2.28	55	2.41	6.98	2.90	100	4.36	
49	2.54	54	1.54	6.16	2.78	101	3.84	
50	2.56	58	1.62	7.03	2.80	100	3.90	
56	2.53	55	1.90	6.41	2.71	100	4.05	
57	2.46	58	2.89	6.53	2.84	100	4.22	
58	2.38	56	1.49	5.70	2.77	102	3.93	
59	2.47	57	1.22	7.98	2.81	100	4.14	
60	2.90	53	1.98	8.06	2.78	100	4.26	
Mean	2.487	56.1	1.846	6.966	2.815	100.7	4.118	
SD	0.183	1.9	0.538	0.775	0.064	1.1	0.190	
N	10	10	10	10	10	10	10	

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TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Biochemical Parameters					Rat
Group 3: 10 µg/ animal BNT162a1	Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
76	2.52	55	0.74	7.66	2.66	103	3.69
77	2.15	50	0.38	7.60	2.55	104	4.11
78	2.75	56	0.52	7.15	2.82	102	4.04
79	2.02	50	0.54	5.67	2.60	103	3.45
80	2.21	58	0.62	5.22	2.76	103	3.86
86	2.20	53	0.46	7.19	2.53	103	3.83
87	2.44	52	0.44	4.95	2.72	103	3.81
88	2.00	54	0.44	8.01	2.49	103	3.78
89	2.27	56	0.61	4.83	2.63	104	4.17
90	2.22	53	0.46	7.94	2.64	105	3.70
Mean	2.278	53.7	0.521	6.622	2.640	103.3	3.844
SD	0.231	2.6	0.109	1.299	0.104	0.8	0.216
N	10	10	10	10	10	10	10

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RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Biochemical Parameters					Rat	
Group 4: 30 µg/ animal	BNT162b1	Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
106		2.18	56	1.33	5.99	2.80	101	4.68
107		2.37	59	0.83	5.61	2.86	100	3.74
108		2.40	61	0.68	7.85	2.81	102	4.68
109		2.27	60	1.21	7.35	2.86	103	4.22
110		2.19	63	1.32	7.08	2.89	102	4.05
116		2.46	57	0.67	6.21	2.64	103	4.20
117		2.28	59	0.67	6.93	2.77	102	4.15
118		2.46	59	1.26	8.03	2.94	101	4.37
119		2.24	59	0.50	7.42	2.76	102	3.85
120		2.44	60	0.59	7.17	2.85	101	4.32
Mean		2.329	59.3	0.906	6.964	2.818	101.7	4.226
SD		0.110	1.9	0.334	0.795	0.083	0.9	0.309
N		10	10	10	10	10	10	10

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RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Biochemical Parameters					Rat
Group 5: 100 µg/ animal BNT162b1	Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
136	2.35	58	0.39	6.44	2.84	104	4.19
137	2.11	55	0.42	6.04	2.70	102	4.48
138	2.07	54	0.28	7.70	2.50	104	3.69
139	2.60	59	0.27	8.61	2.69	104	4.25
140	2.28	63	0.84	6.48	2.77	104	3.76
146	1.96	56	0.80	6.72	2.81	102	4.78
147	2.50	62	0.70	7.00	2.79	103	3.82
148	2.69	57	0.71	6.64	2.80	103	4.04
149	2.26	55	0.48	4.75	2.55	103	3.62
150	2.39	62	0.45	5.66	2.79	104	3.77
Mean	2.321	58.1	0.534	6.604	2.724	103.3	4.040
SD	0.234	3.3	0.211	1.059	0.115	0.8	0.381
N	10	10	10	10	10	10	10

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RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Biochemical Parameters					Rat	
Group 6: 30 µg/ animal		Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
166	2.49	54	0.66	8.02	2.61	103	4.00	
167	2.71	56	0.57	6.86	2.67	104	4.02	
168	2.38	57	0.32	4.38	2.66	104	3.68	
169	2.74	53	0.53	6.20	2.70	102	4.07	
170	2.81	55	0.62	7.51	2.70	102	3.95	
176	2.23	58	0.77	6.16	2.71	102	4.02	
177	2.11	54	0.82	6.74	2.72	102	4.37	
178	2.63	58	1.26	6.72	2.89	101	4.31	
179	2.52	57	0.54	7.71	2.81	102	3.78	
180	2.74	50	0.69	9.05	2.62	103	3.86	
Mean	2.536	55.2	0.678	6.935	2.709	102.5	4.006	
SD	0.236	2.5	0.248	1.262	0.085	1.0	0.214	
N	10	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Biochemical Parameters					Rat
Group 7: 100 µg/ animal BNT162b2	Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
196	2.11	57	0.32	6.03	2.56	105	3.66
197	2.60	56	0.31	5.87	2.70	104	3.99
198	2.39	54	0.52	5.81	2.73	103	4.04
199	2.41	55	0.93	6.16	2.72	102	4.64
200	2.25	55	0.37	6.36	2.60	104	3.70
206	2.28	57	0.37	7.42	2.73	104	4.14
207	2.16	56	0.34	5.60	2.66	103	3.81
208	2.29	62	0.38	6.14	2.81	103	4.32
209	2.47	58	0.35	5.34	2.74	104	3.71
210	2.59	53	0.52	6.74	2.69	101	3.79
Mean	2.355	56.3	0.441	6.147	2.694	103.3	3.980
SD	0.167	2.5	0.187	0.594	0.072	1.2	0.316
N	10	10	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 10 Relative to Start Date	Biochemical Parameters					Rat	
Group 6: 30 µg/ animal	BNT162c1	Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
166		1.90	54	0.51	9.09	2.54	102	4.04
167		2.17	57	0.43	7.95	2.64	101	4.19
168		2.17	54	0.47	7.89	2.75	99	4.45
169		2.11	54	0.56	8.00	2.46	102	3.64
170		2.28	52	0.33	8.73	2.68	101	4.07
171		2.36	50	0.35	7.77	2.53	100	3.99
172		2.34	56	0.54	9.82	2.53	96	4.12
173		2.25	55	0.63	8.56	2.64	100	3.81
174		2.53	51	0.37	9.29	2.56	100	3.55
175		2.25	52	0.34	8.82	2.64	101	4.33
Mean		2.236	53.5	0.453	8.592	2.597	100.2	4.019
SD		0.167	2.2	0.105	0.687	0.087	1.8	0.285
N		10	10	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Biochemical Parameters				Rat	
Group 1: Control	Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
16	1.98	53	0.37	7.92	2.44	101	3.05
17	1.54	58	0.23	7.41	2.55	102	3.98
18	1.99	58	0.34	7.06	2.61	103	3.60
19	2.45	53	0.58	6.35	2.80	100	3.52
20	1.95	58	0.28	10.15	2.67	102	3.09
21	1.70	57	0.34	8.10	2.50	101	3.71
22	1.44	54	0.34	6.57	2.42	103	3.34
23	2.07	56	0.35	6.34	2.62	103	3.90
24	1.66	58	0.27	9.22	2.56	102	3.83
25	1.67	54	0.30	9.51	2.57	102	3.88
Mean	1.845	55.9	0.340	7.863	2.574	101.9	3.590
SD	0.300	2.2	0.095	1.373	0.111	1.0	0.336
N	10	10	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Biochemical Parameters				Rat	
Group 2: 30 µg/ animal BNT162a1	Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
46	2.28	55	0.78	7.97	2.67	101	3.89
47	2.16	56	0.51	7.52	2.66	100	4.00
48	2.28	58	0.42	6.84	2.66	102	3.77
49	2.37	51	0.60	7.30	2.53	99	3.55
50	2.07	58	0.42	7.97	2.62	98	3.48
51	2.09	65	0.51	6.67	2.81	101	4.18
52	2.39	53	0.31	6.51	2.66	102	3.87
53	2.58	59	0.39	10.55	2.73	101	3.86
54	2.48	57	0.36	7.42	2.81	100	4.30
55	1.76	55	0.45	9.75	2.51	104	4.09
Mean	2.246	56.7	0.475	7.850	2.666	100.8	3.899
SD	0.237	3.8	0.136	1.322	0.100	1.7	0.259
N	10	10	10	10	10	10	10

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Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Biochemical Parameters					Rat
Group 3: 10 µg/ animal BNT162a1	Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
76	1.84	55	0.53	8.00	2.70	102	4.15
77	1.70	54	0.60	9.30	2.49	105	3.81
78	2.04	53	0.41	8.73	2.45	101	3.89
79	2.03	53	0.41	8.09	2.55	103	4.11
80	2.13	52	0.88	7.99	2.67	102	4.07
81	2.47	51	0.35	9.13	2.57	102	3.85
82	1.92	54	0.93	6.43	2.54	102	3.71
83	2.13	55	0.64	7.33	2.72	102	4.04
84	2.30	56	0.89	9.55	2.71	101	4.36
85	1.87	52	0.39	6.39	2.47	103	3.97
Mean	2.043	53.5	0.603	8.094	2.587	102.3	3.996
SD	0.228	1.6	0.225	1.122	0.104	1.2	0.190
N	10	10	10	10	10	10	10

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Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Biochemical Parameters					Rat	
Group 4: 30 µg/ animal	BNT162b1	Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
106		2.29	54	0.30	7.18	2.56	102	4.34
107		2.01	55	0.42	6.79	2.64	101	3.77
108		2.17	60	0.32	8.29	2.80	100	4.21
109		2.66	56	0.48	7.54	2.74	102	3.84
110		1.84	63	0.35	8.12	2.76	102	3.67
111		2.27	58	0.33	8.58	2.72	101	3.99
112		1.90	57	0.27	9.67	2.59	102	4.11
113		2.12	56	0.44	7.98	2.71	100	3.74
114		2.26	58	0.37	9.06	2.49	102	3.64
115		1.72	58	0.29	7.84	2.62	101	3.71
Mean		2.124	57.5	0.357	8.105	2.663	101.3	3.902
SD		0.272	2.6	0.070	0.857	0.099	0.8	0.246
N		10	10	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Biochemical Parameters				Rat	
Group 5: 100 µg/ animal BNT162b1	Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
136	2.16	55	0.47	7.74	2.74	100	4.06
137	2.36	58	0.59	8.28	2.62	102	4.37
138	1.50	50	0.37	9.92	2.48	103	4.08
139	1.64	58	0.27	8.64	2.65	102	4.17
140	2.54	57	0.54	9.61	2.68	99	4.42
141	2.02	63	0.37	8.04	2.74	102	3.93
142	1.98	56	0.46	6.22	2.64	102	4.32
143	2.56	55	0.53	7.73	2.55	100	3.37
144	1.97	57	0.33	10.60	2.59	101	4.83
145	2.15	55	0.51	7.75	2.71	103	4.25
Mean	2.088	56.4	0.444	8.453	2.640	101.4	4.180
SD	0.347	3.3	0.104	1.284	0.084	1.3	0.378
N	10	10	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Biochemical Parameters					Rat	
Group 7: 100 µg/ animal BNT162b2		Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
196	2.17	56	0.51	8.72	2.71	103	4.10	
197	2.27	55	0.41	8.10	2.71	101	4.37	
198	1.86	60	0.47	9.84	2.83	104	4.38	
199	1.94	57	0.26	7.38	2.61	101	3.46	
200	1.82	58	0.29	6.71	2.63	103	3.39	
201	2.30	56	0.54	9.53	2.74	101	3.92	
202	2.19	59	0.39	8.16	2.75	102	4.27	
203	2.12	56	0.57	7.77	2.64	101	4.00	
204	2.01	54	0.52	9.98	2.65	104	3.80	
205	1.71	60	0.54	7.05	2.58	104	3.85	
Mean	2.039	57.1	0.450	8.324	2.685	102.4	3.954	
SD	0.202	2.1	0.109	1.162	0.076	1.3	0.346	
N	10	10	10	10	10	10	10	

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Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 31 Relative to Start Date	Biochemical Parameters				Rat		
Group 6: 30 µg/ animal		Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
176	1.50	60	0.28	7.13	2.49	103	3.56	
177	1.79	58	0.24	5.88	2.45	102	3.66	
178	1.56	64	0.61	8.93	2.66	101	3.32	
179	1.63	59	0.43	8.11	2.46	102	3.54	
180	2.02	57	0.42	6.94	2.55	103	3.57	
Mean	1.700	59.6	0.396	7.398	2.522	102.2	3.530	
SD	0.209	2.7	0.146	1.166	0.086	0.8	0.126	
N	5	5	5	5	5	5	5	

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TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Biochemical Parameters					Rat	
Group 1: Control		Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
26	1.33	62	0.55	9.27	2.57	101	3.64	
27	1.78	60	0.34	7.40	2.59	105	3.04	
28	1.81	57	0.36	7.54	2.46	102	3.98	
29	1.58	62	0.30	7.99	2.66	103	3.36	
30	1.65	63	0.49	7.85	2.64	105	3.50	
Mean	1.630	60.8	0.408	8.010	2.584	103.2	3.504	
SD	0.192	2.4	0.107	0.743	0.078	1.8	0.347	
N	5	5	5	5	5	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Biochemical Parameters					Rat	
Group 2: 30 µg/ animal		Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
56	1.61	59	0.38	6.95	2.50	104	3.50	
57	1.98	66	0.47	6.57	2.66	104	3.22	
58	1.71	59	0.42	8.90	2.55	101	3.83	
59	1.91	64	0.33	6.51	2.49	105	2.97	
60	1.72	60	0.43	9.48	2.53	104	3.61	
Mean	1.786	61.6	0.406	7.682	2.546	103.6	3.426	
SD	0.153	3.2	0.053	1.402	0.068	1.5	0.336	
N	5	5	5	5	5	5	5	5

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TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Biochemical Parameters				Rat		
Group 3: 10 µg/ animal		Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
86	2.10	55	0.37	9.10	2.43	102	3.83	
87	1.85	54	0.32	8.49	2.44	103	3.79	
88	1.76	52	0.49	8.54	2.48	101	3.86	
89	1.56	52	0.44	7.58	2.46	102	3.56	
90	1.88	55	0.47	8.12	2.57	104	3.71	
Mean	1.830	53.6	0.418	8.366	2.476	102.4	3.750	
SD	0.196	1.5	0.071	0.562	0.056	1.1	0.120	
N	5	5	5	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Biochemical Parameters					Rat	
Group 4: 30 µg/ animal BNT162b1		Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
116	1.80	62	0.26	9.22	2.47	103	3.37	
117	1.68	59	0.37	7.35	2.62	103	3.58	
118	1.78	63	0.36	8.55	2.68	104	3.99	
119	1.86	58	0.45	7.47	2.52	104	3.21	
120	1.78	62	0.30	9.36	2.64	102	3.72	
Mean	1.780	60.8	0.348	8.390	2.586	103.2	3.574	
SD	0.065	2.2	0.073	0.946	0.088	0.8	0.304	
N	5	5	5	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Biochemical Parameters					Rat	
Group 5: 100 µg/ animal BNT162b1		Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
146	1.57	53	0.25	7.69	2.47	102	3.82	
147	1.33	64	0.79	6.26	2.56	104	3.51	
148	1.58	59	0.38	5.98	2.47	102	2.99	
149	2.27	55	0.42	7.81	2.30	103	3.59	
150	2.13	62	0.58	8.41	2.65	102	3.70	
Mean	1.776	58.6	0.484	7.230	2.490	102.6	3.522	
SD	0.403	4.6	0.208	1.054	0.130	0.9	0.319	
N	5	5	5	5	5	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Biochemical Parameters				Rat	
Group 7: 100 µg/ animal BNT162b2	Phosphate (mmol/L)	Protein (total) (g/L)	Tri- glycerides (mmol/L)	Urea (in blood) (mmol/L)	Calcium (mmol/L)	Chloride (mmol/L)	Potassium (mmol/L)
206	2.32	60	0.51	8.18	2.69	104	3.97
207	1.69	58	0.45	6.53	2.48	101	3.67
208	1.41	55	0.34	8.17	2.53	105	3.95
209	2.36	58	0.36	7.01	2.45	103	3.30
210	1.76	57	0.32	7.75	2.40	103	3.01
Mean	1.908	57.6	0.396	7.528	2.510	103.2	3.580
SD	0.416	1.8	0.081	0.733	0.111	1.5	0.418
N	5	5	5	5	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Female Day: 4 Relative to Start Date		Biochemical Parameters						Rat
Group 1: Control		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
16	136	59	138	86	76	207	207	0.1 !
17	135	61	172	83	99	129	129	0.8
18	136	61	148	85	122	88	51	1.9
19	135	51	136	51	66	51	164	1.5
20	137	59	132	71	87	164	136	0.8
26	135	50	149	65	82	85	85	1.2
27	136	46	169	41	59	85	94	0.2
28	135	65	214	75	99	129	94	0.7
29	135	70	139	79	73	97	129	0.3
30	138	51	145	109	98	97	97	1.3
Mean	135.8	57.3	154.2	74.5	86.1	118.0	118.0	0.88
SD	1.0	7.6	24.9	19.2	18.8	44.8	44.8	0.59
N	10	10	10	10	10	10	10	10

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Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Biochemical Parameters						Rat
		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	
Group 2: 30 µg/ animal BNT162a1	46	135	61	231	91	83	158	4.6
	47	138	54	168	98	74	124	3.2
	48	135	64	251	84	67	341	4.7
	49	135	59	219	85	72	96	3.5
	50	135	54	159	80	54	92	2.6
	56	134	50	217	84	65	80	5.4
	57	135	54	138	77	60	96	3.4
	58	135	55	184	71	72	63	1.6
	59	134	75	190	108	83	131	4.2
	60	134	65	223	80	57	155	3.5
Mean	135.0	59.1	198.0	85.8	68.7	133.6	3.67	
SD	1.2	7.4	35.9	10.7	10.0	79.3	1.10	
N	10	10	10	10	10	10	10	

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Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Biochemical Parameters						Rat
		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	
Group 3: 10 µg/ animal BNT162a1	76	136	55	192	107	99	19	3.3
	77	137	37	129	109	122	236	2.6
	78	136	57	152	93	73	139	3.4
	79	136	49	142	93	105	86	2.7
	80	137	39	145	106	142	243	2.8
	86	136	44	124	107	109	360	2.4
	87	139	41	143	85	63	88	3.1
	88	136	41	120	84	97	106	3.2
	89	138	31	135	96	231	241	2.4
	90	137	61	135	108	162	16	1.6
Mean	136.8	45.5	141.7	98.8	120.3	153.4	2.75	
SD	1.0	9.7	20.2	9.8	48.7	112.3	0.54	
N	10	10	10	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Biochemical Parameters						Rat
		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	
Group 4: 30 µg/ animal	BNT162b1							
106	135	47	182	75	52	144	2.4	
107	135	55	133	77	70	104	2.6	
108	135	59	187	77	53	71	2.0	
109	137	44	155	71	71	97	0.7	
110	136	39	165	66	82	95	2.4	
116	136	34	151	75	97	277	2.2	
117	135	57	185	94	68	239	1.7	
118	135	75	208	87	68	121	2.6	
119	136	48	159	84	57	69	1.9	
120	134	32	152	52	58	80	4.7	
Mean	135.4	49.0	167.7	75.8	67.6	129.7	2.32	
SD	0.8	13.0	22.3	11.6	13.9	71.8	1.01	
N	10	10	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Biochemical Parameters						Rat
		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	
Group 5: 100 µg/ animal BNT162b1								
136	138	49	138	97	88	120	4.1	
137	135	41	140	98	114	13	1.3	
138	138	30	132	96	201	163	2.3	
139	136	40	130	95	195	9	4.0	
140	137	40	214	89	98	127	5.8	
146	136	51	140	87	161	487	3.7	
147	136	33	141	72	79	26	3.5	
148	138	49	175	108	113	29	4.9	
149	136	37	154	87	105	99	2.1	
150	137	31	142	78	96	117	5.5	
Mean	136.7	40.1	150.6	90.7	125.0	119.0	3.72	
SD	1.1	7.6	25.7	10.4	44.3	140.6	1.48	
N	10	10	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Biochemical Parameters						Rat
		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	
<b>Group 6: 30 µg/ animal BNT162c1</b>								
166	136	42	124	85	140	32	4.2	
167	136	55	173	109	91	24	2.4	
168	138	45	143	106	146	116	4.7	
169	135	42	185	101	141	23	4.3	
170	135	47	110	109	143	392	3.2	
176	136	71	180	120	156	99	4.1	
177	136	54	158	117	236	206	3.1	
178	135	64	164	113	102	315	3.0	
179	135	53	156	101	143	134	4.6	
180	135	48	122	111	131	26	4.1	
Mean	135.7	52.1	151.5	107.2	142.9	136.7	3.77	
SD	0.9	9.5	25.9	9.9	38.5	130.2	0.78	
N	10	10	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Female	Day: 4 Relative to Start Date	Biochemical Parameters						Rat
		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	
Group 7: 100 µg/ animal BNT162b2	196	138	23	154	78	138	140	3.6
	197	137	32	166	103	138	157	4.5
	198	137	38	118	89	131	140	3.2
	199	135	44	182	90	139	48	4.5
	200	138	42	125	90	78	87	4.3
	206	136	34	160	109	104	136	3.7
	207	139	29	155	78	67	98	3.4
	208	135	42	186	110	236	6	5.9
	209	138	32	177	100	118	233	3.0
	210	135	48	190	119	184	16	4.0
Mean	136.8	36.4	161.3	96.6	133.3	106.1	4.01	
SD	1.5	7.7	24.5	13.8	49.2	69.8	0.85	
N	10	10	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 10 Relative to Start Date	Biochemical Parameters						Rat
		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	
Group 6: 30 µg/ animal	BNT162c1	135	129	109	160	80	82	3.7
166	133	63	168	124	119	113	4.5	
167	130	58	145	119	121	101	4.6	
168	134	35	165	113	124	145	5.2	
169	133	46	118	118	124	129	4.9	
170	132	48	122	111	96	137	4.2	
171	128	35	104	100	120	158	5.4	
172	132	65	143	123	77	105	3.5	
173	133	62	134	127	118	140	3.0	
174	133	40	209	130	107	112	3.6	
Mean	132.3	58.1	141.7	122.5	108.6	122.2	4.26	
SD	2.0	27.4	32.1	15.8	18.1	23.4	0.79	
N	10	10	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Female Day: 17 Relative to Start Date		Biochemical Parameters						Rat
Group 1: Control		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
16	135	31	72	83	46	64	64	0.6
17	135	31	92	83	181	133	133	0.9
18	135	30	71	72	110	98	98	0.3
19	134	26	72	60	106	158	158	1.2
20	134	42	73	96	179	154	154	1.8
21	134	36	64	85	148	98	98	1.4
22	135	49	73	87	146	87	87	1.2
23	136	27	60	70	103	97	97	1.1
24	136	36	86	90	103	92	92	2.4
25	135	34	96	80	131	85	85	1.2
Mean	134.9	34.2	75.9	80.6	125.3	106.6		1.21
SD	0.7	7.0	11.7	10.6	40.6	31.1		0.59
N	10	10	10	10	10	10		10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Biochemical Parameters						Rat
		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	
Group 2: 30 µg/ animal BNT162a1	46	134	31	154	89	106	104	5.0
	47	132	120	113	156	152	216	3.0
	48	134	47	177	109	102	127	4.3
	49	132	43	138	109	168	183	3.9
	50	131	44	142	95	126	112	4.7
	51	133	67	163	122	190	135	3.8
	52	134	37	178	109	124	113	3.4
	53	134	55	184	124	129	109	4.7
	54	133	81	174	152	220	536	4.0
	55	134	53	136	122	100	122	2.9
Mean	133.1	57.8	155.9	118.7	141.7	175.7	3.97	
SD	1.1	26.2	23.2	21.8	40.2	131.6	0.72	
N	10	10	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Biochemical Parameters						Rat
		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	
Group 3: 10 µg/ animal BNT162a1	76	136	41	170	115	116	352	4.5
	77	137	30	112	80	185	82	5.4
	78	133	40	93	90	165	127	3.6
	79	136	43	137	114	176	102	1.1
	80	134	38	144	99	141	133	3.4
	81	133	36	121	79	119	99	3.4
	82	133	34	82	98	171	448	2.0
	83	133	50	119	102	181	110	2.0
	84	132	35	123	88	130	252	3.2
	85	134	32	104	88	175	118	4.6
Mean	134.1	37.9	120.5	95.3	155.9	182.3	3.32	
SD	1.7	5.9	25.5	12.6	26.7	125.9	1.33	
N	10	10	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Biochemical Parameters						Rat
		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	
Group 4: 30 µg/ animal	BNT162b1							
106	133	36	114	103	143	347	23	
107	134	42	77	102	119	115	3.0	
108	133	44	142	99	133	78	4.5	
109	135	27	86	74	140	363	4.0	
110	131	26	110	63	46	67	2.9	
111	134	33	128	88	127	204	6.0	
112	135	31	149	91	123	100	4.2	
113	134	40	93	84	56	121	3.2	
114	133	28	89	76	49	97	4.4	
115	132	36	99	84	110	158	4.9	
Mean	133.4	34.3	108.7	86.4	104.6	165.0	3.94	
SD	1.3	6.4	24.5	13.0	38.7	107.7	1.10	
N	10	10	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Biochemical Parameters						Rat
		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	
Group 5: 100 µg/ animal BNT162b1								
136	128	45	135	115	167	136	3.7	
137	133	38	151	115	187	411	4.3	
138	135	39	191	103	163	157	5.1	
139	132	27	136	100	168	131	4.1	
140	131	40	206	118	149	242	5.0	
141	134	32	121	99	181	106	3.7	
142	133	32	129	99	146	235	4.9	
143	133	30	170	91	50	109	5.2	
144	132	25	159	92	112	170	4.3	
145	135	26	191	95	151	140	3.7	
Mean	132.6	33.4	158.9	102.7	147.4	183.7	4.40	
SD	2.1	6.8	29.6	9.9	40.1	92.6	0.61	
N	10	10	10	10	10	10	10	

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TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Biochemical Parameters						Rat
		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	
Group 7: 100 µg/ animal BNT162b2	196	134	26	204	101	174	166	5.6
	197	133	45	198	134	266	114	4.5
	198	136	35	144	91	200	142	5.0
	199	132	32	195	96	131	149	5.0
	200	135	29	168	91	90	171	3.0
	201	131	19	205	94	85	110	4.9
	202	132	33	161	104	202	189	5.2
	203	133	32	223	98	122	116	5.3
	204	137	29	172	97	197	151	5.6
	205	135	28	168	96	87	88	6.4
Mean	133.8	30.8	183.8	100.2	155.4	139.6	5.05	
SD	1.9	6.7	24.6	12.5	61.5	31.8	0.88	
N	10	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 31 Relative to Start Date	Biochemical Parameters						Rat
Group 6: 30 µg/ animal		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
176	138	26	74	77	138	88	24	
177	136	29	72	100	110	703	1.8	
178	135	49	72	123	106	184	1.8	
179	136	32	80	71	126	154	2.5	
180	137	24	44	62	110	124	2.2	
Mean	136.4	32.0	68.4	86.6	118.0	250.6	2.14	
SD	1.1	10.0	14.0	24.7	13.6	255.4	0.33	
N	5	5	5	5	5	5	5	

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TABLE 7.2 Biochemical Parameters - Individual Data

Sex: Female Day: 38 Relative to Start Date		Biochemical Parameters						Rat
Group 1: Control		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
26	135	35	54	82	62	93	3.0	
27	140	28	63	74	53	84	1.2	
28	134	29	83	72	135	171	2.8	
29	137	41	59	77	56	168	2.4	
30	138	44	48	91	41	85	3.0	
Mean	136.8	35.4	61.4	79.2	69.4	120.2	2.48	
SD	2.4	7.1	13.3	7.6	37.5	45.2	0.76	
N	5	5	5	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

		Biochemical Parameters						Rat
		ASAT (U/L)		LDH (U/L)		CK (U/L)		Gamma-GT (U/L)
Sex: Female	Day: 38 Relative to Start Date							
Group 2: 30 µg/ animal BNT162a1		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
56	138	29	57	82	54	60	34	
57	137	76	37	172	203	671	1.9	
58	134	29	80	51	30	48	3.3	
59	139	35	73	91	40	141	3.3	
60	139	34	90	78	123	105	3.4	
Mean	137.4	40.6	67.4	94.8	90.0	205.0	3.06	
SD	2.1	20.0	20.8	45.7	72.9	263.1	0.65	
N	5	5	5	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Biochemical Parameters					Rat	
Group 3: 10 µg/ animal	BNT162a1	Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
86	135	35	85	83	141	151	2.1	
87	136	29	72	81	176	166	2.8	
88	135	32	71	61	74	85	0.5	
89	137	28	69	73	122	206	1.4	
90	137	38	65	99	150	969	1.9	
Mean	136.0	32.4	72.4	79.4	132.6	315.4	1.74	
SD	1.0	4.2	7.5	14.0	38.1	368.0	0.86	
N	5	5	5	5	5	5	5	

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TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Biochemical Parameters						Rat
Group 4: 30 µg/ animal BNT162b1		Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
116	137	24	64	72	59	168	3.2	
117	136	41	64	105	83	136	2.6	
118	137	32	63	91	158	349	1.4	
119	137	32	63	88	46	111	2.6	
120	136	23	69	67	155	278	2.8	
Mean	136.6	30.4	64.6	84.6	100.2	208.4	2.52	
SD	0.5	7.3	2.5	15.3	53.1	101.2	0.67	
N	5	5	5	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Biochemical Parameters					Rat
Group 5: 100 µg/ animal BNT162b1	Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
146	137	38	67	72	108	194	2.2
147	137	30	56	61	53	51	1.6
148	137	34	62	87	50	79	3.2
149	136	37	88	114	193	324	1.8
150	138	38	51	93	138	179	1.8
Mean	137.0	35.4	64.8	85.4	108.4	165.4	2.12
SD	0.7	3.4	14.3	20.3	60.2	108.1	0.64
N	5	5	5	5	5	5	5

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TABLE 7-2 Biochemical Parameters - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Biochemical Parameters					Rat
Group 7: 100 µg/ animal BNT162b2	Sodium (mmol/L)	ALAT (U/L)	aP (U/L)	ASAT (U/L)	LDH (U/L)	CK (U/L)	Gamma-GT (U/L)
206	138	36	73	71	43	123	24
207	135	36	69	75	87	120	2.5
208	138	34	59	98	172	253	1.8
209	139	24	68	80	80	156	2.0
210	139	28	66	87	63	107	3.5
Mean	137.8	31.6	67.0	82.2	89.0	151.8	2.44
SD	1.6	5.4	5.1	10.7	49.4	59.4	0.66
N	5	5	5	5	5	5	5

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TABLE 7.2 Biochemical Parameters - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Measurement</u>	<u>Type</u>	<u>Marker</u>
17	17	5	Male	130	Phosphate	Quality Flag	E (Exclude)
					Comment: animal died during blood sampling, sampling was done via heart puncture during dissection	Quality Flag	E (Exclude)
					Potassium		
					Comment: animal died during blood sampling, sampling was done via heart puncture during dissection		

Three LNP-Formulated  
 RNA Platforms encoding for Viral Proteins

TABLE 7.2 Biochemical Parameters - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Measurement</u>	<u>Type</u>	<u>Marker</u>
4	1	Male	12	Comment: Value below lowest level of quantification (= 0.1 U/L). Set to 0.1 U/L for mean value calculation.	Gamma-GT	Result	
17	5	Male	130	Comment: animal died during blood sampling, sampling was done via heart puncture during dissection	ASAT	Quality Flag	E (Exclude)
17	5	Male	130	Comment: animal died during blood sampling, sampling was done via heart puncture during dissection	Lactate Dehydrogenase	Quality Flag	E (Exclude)

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 7.2 Biochemical Parameters - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Measurement</u>	<u>Type</u>	<u>Marker</u>
4		1	Female	16	Gamma-GT	Result	

Comment: Value below lowest level of quantification (= 0.1 U/L). Set to 0.1 U/L for mean value calculation.

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RNA Platforms encoding for Viral Proteins

TABLE 8-1      Acute Phase Protein Levels - Summary

Day: 4 Relative to Start Date		ELISA Parameters			Rat
Sex: Male		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	[a]	
Group 1: Control	Mean SD N	64658.6 6727.8 5		[a] 39774.6 3460.7 5	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	465027.0 ** 68141.1 5		[a] 727036.0 ** 243939.8 5	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	304707.0 ** 34632.5 5		[a] 222958.2 118385.8 5	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	381868.0 ** 30666.8 5 490.6		[a] 1434571.0 ** 522399.7 5 3506.8	

[a] - Anova & Dunnett(Log): \*\* = p ≤ 0.01  
 [a] - Anova & Dunnett(Rank): \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 8-1 Acute Phase Protein Levels - Summary

Day: 4 Relative to Start Date		ELISA Parameters			Rat
Sex: Male		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	[a]	
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	454853.0 ** 23446.8 5 603.5	2143050.0 ** 71797.8 5 5288.0		
Group 6: 30 µg/ animal BNT162c1	Mean SD N %Diff	431128.0 ** 60320.6 5 566.8	685548.0 ** 364534.3 5 1623.6		
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	446781.0 ** 64502.0 5 591.0	2159010.0 ** 78652.0 5 5328.1		

[a] - Anova &amp; Dunnett: \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 8-1      Acute Phase Protein Levels - Summary

Day: 10 Relative to Start Date	ELISA Parameters		
Sex: Male	Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	
Group 6: 30 µg/ animal BNT162c1	Mean SD N	[a] 416278.0n 34413.2 10	[a] 545282.5n 368839.8 10

[a] - Anova &amp; Dunnett: n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 8-1 Acute Phase Protein Levels - Summary

Day: 17 Relative to Start Date		Rat		
Sex: Male		ELISA Parameters		
		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	
Group 1: Control	Mean SD N	50334.7 11962.9 10	[a] 21233.0 2975.2 10	[a]
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	429643.0 ** 17527.1 10 753.6	551658.5 ** 20887.8 10 2498.1	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	737003.5 ** 124583.7 10 1364.2	394276.5 ** 207037.7 10 1756.9	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	437627.0 ** 54732.7 10 769.4	930437.0 ** 60872.2 10 4282.0	

[a] - Anova &amp; Dunnett(Rank): \*\* = p ≤ 0.01

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RNA Platforms encoding for Viral Proteins

TABLE 8-1 Acute Phase Protein Levels - Summary

Day: 17 Relative to Start Date	Sex: Male	ELISA Parameters			Rat
		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	[a]	
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	970915.5** 72264.9 10 1828.9	5927330.0** 2354973.1 10 27815.7	[a]	
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	1043631.5** 80157.0 10 1973.4	4604490.0** 1488181.0 10 21585.5	[a]	

[a] - Anova &amp; Dunnett: \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 8-1      Acute Phase Protein Levels - Summary

Day: 31 Relative to Start Date	ELISA Parameters		
Sex: Male	Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	[a]
Group 6: 30 µg/ animal BNT162c1	Mean SD N	12039.4n 26150.6 5	24501.2n 8533.2 5

[a] - Anova &amp; Dunnett: n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 8-1      Acute Phase Protein Levels - Summary

Day: 38 Relative to Start Date		ELISA Parameters			Rat
Sex: Male		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	[a]	
Group 1: Control		Mean SD N	113897.4 2882.4 5	[a] 14847.8 4958.1 5	
Group 2: 30 µg/ animal BNT162a1		Mean SD N %Diff	96757.2 22123.3 5 -15.0	[a] 19435.4 4049.4 5 30.9	
Group 3: 10 µg/ animal BNT162a1		Mean SD N %Diff	58193.4** 6901.6 5 -48.9	[a] 16261.0 5138.0 5 9.5	
Group 4: 30 µg/ animal BNT162b1		Mean SD N %Diff	1066850.8 19090.7 5 -6.2	[a] 20052.6 4943.1 5 35.1	

[a] - Anova & Dunnett(Log): \*\* = p ≤ 0.01  
 [a] - Anova & Dunnett

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RNA Platforms encoding for Viral Proteins

TABLE 8-1 Acute Phase Protein Levels - Summary

Day: 38 Relative to Start Date		ELISA Parameters		
Sex: Male		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	[a]
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	65299.8 ** 5082.1 5 42.7	22707.2 * 2406.8 5 52.9	
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	59438.6 ** 5558.8 5 47.8	24303.8 * 4950.4 5 63.7	

[a] - Anova & Dunnett: \* =  $p \leq 0.05$ ; \*\* =  $p \leq 0.01$

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RNA Platforms encoding for Viral Proteins

TABLE 8-1 Acute Phase Protein Levels - Summary

Day: 4 Relative to Start Date		Rat		
Sex: Female		ELISA Parameters		
		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	
Group 1: Control	Mean SD N	79798.8 17289.9 5	[a] 18098.2 5486.8 5	[a]
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	401386.0 ** 32156.3 5 403.0	- 126189.4 ** 63343.9 5 597.2	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	323645.0 ** 46893.3 5 305.6	- 57146.0 ** 15460.1 5 215.8	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	378897.0 ** 29869.1 5 374.8	- 330428.0 ** 292586.3 5 1725.8	

[a] - Anova & Dunnett: \*\* = p ≤ 0.01  
 [a] - Anova & Dunnett(Log): \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 8-1 Acute Phase Protein Levels - Summary

Day: 4 Relative to Start Date		ELISA Parameters			Rat
Sex: Female		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	[a]	
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	444957.0 ** 21643.8 5 457.6	1639367.0 ** 557054.1 5	[a]	
Group 6: 30 µg/ animal BNT162c1	Mean SD N %Diff	390580.0 ** 23209.4 5 389.5	169592.0 ** 138784.7 5 837.1	[a]	
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	445614.0 ** 27975.1 5 458.4	1362630.0 ** 257962.6 5 7429.1	[a]	

[a] - Anova &amp; Dunnett: \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 8-1      Acute Phase Protein Levels - Summary

Day: 10 Relative to Start Date	ELISA Parameters			Rat
Sex: Female		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	
Group 6: 30 µg/ animal BNT162c1	Mean SD N	[a] 409704.5n 31388.8 10	[a] 134878.1n 77962.6 10	-

[a] - Anova &amp; Dunnett n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 8-1      Acute Phase Protein Levels - Summary

Day: 17 Relative to Start Date		Rat		
Sex: Female		ELISA Parameters		
		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	
Group 1: Control	Mean SD N	52001.7 10058.1 10	[a] [a]	16055.9 3899.1 10
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	467670.5 ** 35882.2 10 799.3	269274.2 ** 133874.6 10 1577.1	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	649429.5 ** 236844.1 10 1148.9	102489.3 ** 45691.2 10 538.3	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	463014.0 ** 31240.3 10 790.4	723981.3 ** 560182.5 10 4409.1	

[a] - Anova &amp; Dunnett(Rank): \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 8-1 Acute Phase Protein Levels - Summary

Day: 17 Relative to Start Date	Sex: Female	ELISA Parameters			Rat
		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	[a]	
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	980874.0 ** 86180.9 10 1786.2	2692160.0 ** 1082703.5 10 16667.4	[a]	
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	826053.0 ** 274115.3 10 1488.5	1937467.5 ** 1018132.7 10 11967.0	[a]	

[a] - Anova &amp; Dunnett: \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 8-1      Acute Phase Protein Levels - Summary

Day: 31 Relative to Start Date	ELISA Parameters			Rat
Sex: Female	Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)		
Group 6: 30 µg/ animal BNT162c1	Mean SD N	[a] 110891.8 n 46262.6 5	[a] 14755.0 n 4860.1 5	-

[a] - Anova &amp; Dunnett: n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 8-1      Acute Phase Protein Levels - Summary

Day: 38 Relative to Start Date		Rat		
Sex: Female		ELISA Parameters		
		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	
Group 1: Control	Mean SD N	131519.8 46366.1 5	[a] [a]	22175.8 12640.6 5
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	110365.6 66482.3 5 -16.1	-	20030.0 7218.8 5 9.7
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	75601.0 12035.1 5 -42.5	-	17691.0 3218.6 5 -20.2
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	153412.0 35789.9 5 16.6	-	18945.4 5115.2 5 -14.6

[a] - Anova &amp; Dunnett(Log)

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RNA Platforms encoding for Viral Proteins

TABLE 8-1      Acute Phase Protein Levels - Summary

Day: 38 Relative to Start Date		Rat		
Sex: Female		ELISA Parameters		
		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	[a]
Group 5: 100 µg/ animal	Mean SD N %Diff	61578.2* 15860.4 5 -53.2	15699.0 2853.3 5 -29.2	
BNT162b1				
Group 7: 100 µg/ animal	Mean SD N %Diff	90184.8 37898.0 5 -31.4	18626.8 4975.0 5 -16.0	
BNT162b2				

[a] - Anova &amp; Dunnett: \* = p ≤ 0.05

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RNA Platforms encoding for Viral Proteins

TABLE 8-1 Acute Phase Protein Levels - Summary

Page	Day	Group	Sex	Measurement	Comments and Markers	
					Marker	Comment
4	2	Male	Alpha1-acid Glycoprotein	**	Anova & Dunnett(Log): ** = p ≤ 0.01	
4	2	Male	Alpha2 Macroglob.	**	Anova & Dunnett(Rank): ** = p ≤ 0.01	
4	3	Male	Alpha1-acid Glycoprotein	**	Anova & Dunnett(Log): ** = p ≤ 0.01	
4	4	Male	Alpha1-acid Glycoprotein	**	Anova & Dunnett(Log): ** = p ≤ 0.01	
4	4	Male	Alpha2 Macroglob.	**	Anova & Dunnett(Rank): ** = p ≤ 0.01	
4	5	Male	Alpha1-acid Glycoprotein	**	Anova & Dunnett(Log): ** = p ≤ 0.01	
4	5	Male	Alpha2 Macroglob.	**	Anova & Dunnett: ** = p ≤ 0.01	
4	6	Male	Alpha1-acid Glycoprotein	**	Anova & Dunnett: ** = p ≤ 0.01	
4	6	Male	Alpha2 Macroglob.	**	Anova & Dunnett: ** = p ≤ 0.01	
4	7	Male	Alpha1-acid Glycoprotein	**	Anova & Dunnett: ** = p ≤ 0.01	
4	7	Male	Alpha2 Macroglob.	**	Anova & Dunnett: ** = p ≤ 0.01	
10	6	Male	Alpha1-acid Glycoprotein	n	Anova & Dunnett: n - Inappropriate for statistics	
10	6	Male	Alpha2 Macroglob.	n	Anova & Dunnett: n - Inappropriate for statistics	
17	2	Male	Alpha1-acid Glycoprotein	**	Anova & Dunnett(Rank): ** = p ≤ 0.01	
17	2	Male	Alpha2 Macroglob.	**	Anova & Dunnett(Rank): ** = p ≤ 0.01	
17	3	Male	Alpha1-acid Glycoprotein	**	Anova & Dunnett(Rank): ** = p ≤ 0.01	
17	3	Male	Alpha2 Macroglob.	**	Anova & Dunnett(Rank): ** = p ≤ 0.01	
17	4	Male	Alpha1-acid Glycoprotein	**	Anova & Dunnett(Rank): ** = p ≤ 0.01	
17	4	Male	Alpha2 Macroglob.	**	Anova & Dunnett(Rank): ** = p ≤ 0.01	
17	5	Male	Alpha1-acid Glycoprotein	**	Anova & Dunnett: ** = p ≤ 0.01	
17	5	Male	Alpha2 Macroglob.	**	Anova & Dunnett: ** = p ≤ 0.01	
17	7	Male	Alpha1-acid Glycoprotein	n	Anova & Dunnett: n - Inappropriate for statistics	
17	7	Male	Alpha2 Macroglob.	n	Anova & Dunnett: n - Inappropriate for statistics	
31	6	Male	Alpha1-acid Glycoprotein	**	Anova & Dunnett(Log): ** = p ≤ 0.01	
31	6	Male	Alpha2 Macroglob.	**	Anova & Dunnett: ** = p ≤ 0.01	
38	3	Male	Alpha1-acid Glycoprotein	**	Anova & Dunnett: ** = p ≤ 0.01	
38	5	Male	Alpha1-acid Glycoprotein	*	Anova & Dunnett: * = p ≤ 0.05	
38	5	Male	Alpha2 Macroglob.	**	Anova & Dunnett: ** = p ≤ 0.01	
38	7	Male	Alpha1-acid Glycoprotein	**	Anova & Dunnett: ** = p ≤ 0.01	

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TABLE 8-1      Acute Phase Protein Levels - Summary

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Measurement</u>	<u>Marker</u>	<u>Comment</u>	<u>Comments and Markers</u>
38	38	7	Male	Alpha2 Macroglob.	*	Anova & Dunnett: * = $p \leq 0.05$	

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TABLE 8-1 Acute Phase Protein Levels - Summary

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Measurement</u>	<u>Marker</u>	<u>Comment</u>
4	2	Female	Alpha1-acid Glycoprotein	**	Anova & Dunnett: ** = p ≤ 0.01	
4	2	Female	Alpha2 Macroglob.	**	Anova & Dunnett(Log): ** = p ≤ 0.01	
4	3	Female	Alpha1-acid Glycoprotein	**	Anova & Dunnett: ** = p ≤ 0.01	
4	3	Female	Alpha2 Macroglob.	**	Anova & Dunnett(Log): ** = p ≤ 0.01	
4	4	Female	Alpha1-acid Glycoprotein	**	Anova & Dunnett: ** = p ≤ 0.01	
4	4	Female	Alpha2 Macroglob.	**	Anova & Dunnett(Log): ** = p ≤ 0.01	
4	5	Female	Alpha1-acid Glycoprotein	**	Anova & Dunnett: ** = p ≤ 0.01	
4	5	Female	Alpha2 Macroglob.	**	Anova & Dunnett: ** = p ≤ 0.01	
4	6	Female	Alpha1-acid Glycoprotein	**	Anova & Dunnett: ** = p ≤ 0.01	
4	6	Female	Alpha2 Macroglob.	**	Anova & Dunnett: ** = p ≤ 0.01	
4	7	Female	Alpha1-acid Glycoprotein	**	Anova & Dunnett: ** = p ≤ 0.01	
4	7	Female	Alpha2 Macroglob.	**	Anova & Dunnett: ** = p ≤ 0.01	
10	6	Female	Alpha1-acid Glycoprotein	n	Anova & Dunnett: n - Inappropriate for statistics	
10	6	Female	Alpha2 Macroglob.	n	Anova & Dunnett: n - Inappropriate for statistics	
17	2	Female	Alpha1-acid Glycoprotein	**	Anova & Dunnett(Rank): ** = p ≤ 0.01	
17	2	Female	Alpha2 Macroglob.	**	Anova & Dunnett(Rank): ** = p ≤ 0.01	
17	3	Female	Alpha1-acid Glycoprotein	**	Anova & Dunnett(Rank): ** = p ≤ 0.01	
17	3	Female	Alpha2 Macroglob.	**	Anova & Dunnett(Rank): ** = p ≤ 0.01	
17	4	Female	Alpha1-acid Glycoprotein	**	Anova & Dunnett(Rank): ** = p ≤ 0.01	
17	4	Female	Alpha2 Macroglob.	**	Anova & Dunnett(Rank): ** = p ≤ 0.01	
17	5	Female	Alpha1-acid Glycoprotein	**	Anova & Dunnett: ** = p ≤ 0.01	
17	5	Female	Alpha2 Macroglob.	**	Anova & Dunnett: ** = p ≤ 0.01	
17	7	Female	Alpha1-acid Glycoprotein	**	Anova & Dunnett: ** = p ≤ 0.01	
17	7	Female	Alpha2 Macroglob.	**	Anova & Dunnett: ** = p ≤ 0.01	
31	6	Female	Alpha1-acid Glycoprotein	n	Anova & Dunnett: n - Inappropriate for statistics	
31	6	Female	Alpha2 Macroglob.	n	Anova & Dunnett: n - Inappropriate for statistics	
38	5	Female	Alpha1-acid Glycoprotein	*	Anova & Dunnett: * = p ≤ 0.05	

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TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Male	Day: 4 Relative to Start Date	ELISA Parameters		
Group 1: Control		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	
6	74598	35466		
7	58677	40751		
8	61115	41545		
9	60338	44022		
10	68565	37089		
Mean	64658.6	39774.6		
SD	6727.8	3460.7		
N	5	5		

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TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Male	Day: 4 Relative to Start Date	ELISA Parameters		
Group 2: 30 µg/ animal	BNT162a1	Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	
36	36	395770	484880	
	37	412245	585995	
	38	445750	690305	
	39	553485	749950	
	40	517885	124050	
	Mean	465027.0	727036.0	
	SD	6841.1	243939.8	
	N	5	5	

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TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Male	Day: 4 Relative to Start Date	ELISA Parameters		
Group 3: 10 µg/ animal		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	
66	346280	377430		
67	270970	203495		
68	337625	301160		
69	281405	77781		
70	287255	154925		
Mean	304707.0	222958.2		
SD	34632.5	118385.8		
N	5	5		

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RNA Platforms encoding for Viral Proteins

TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Male	Day: 4 Relative to Start Date	ELISA Parameters		
Group 4: 30 µg/ animal		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	
96	370705	1912550		
97	379860	864255		
98	430975	1283450		
99	346930	2048950		
100	380870	1063650		
Mean	381868.0	1424571.0		
SD	30666.8	522399.7		
N	5	5		

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TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Male	Day: 4 Relative to Start Date	ELISA Parameters		
Group 5: 100 µg/ animal	BNT162b1	Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	
126	431675	2115250		
127	441855	2072450		
128	436225	2230700		
129	488375	2208100		
130	473135	2088750		
Mean	454853.0	2143050.0		
SD	23446.8	71797.8		
N	5	5		

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RNA Platforms encoding for Viral Proteins

TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Male	Day: 4 Relative to Start Date	ELISA Parameters		
Group 6: 30 µg/ animal		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	
156	449640	1171250		
157	517280	220825		
158	440650	541515		
159	383510	586840		
160	364560	907310		
Mean	431128.0	695548.0		
SD	60320.6	364534.3		
N	5	5		

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RNA Platforms encoding for Viral Proteins

TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Male	Day: 4 Relative to Start Date	ELISA Parameters		
Group 7: 100 µg/ animal	BNT162b2	Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	
186	553550	2173650		
187	446970	2280300		
188	380375	2071850		
189	424225	2111900		
190	428785	2157350		
Mean	446781.0	2159010.0		
SD	64502.0	78652.0		
N	5	5		

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RNA Platforms encoding for Viral Proteins

TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Male	Day: 10 Relative to Start Date	ELISA Parameters			Rat
Group 6: 30 µg/ animal		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)		
151	387715	838040			
152	472405	313110			
153	457165	1109700			
154	416455	102745			
155	361605	349125			
156	409100	1085600			
157	440805	189125			
158	382780	234195			
159	406110	555865			
160	428640	672320			
Mean	416278.0	545282.5			
SD	34413.2	368839.8			
N	10	10			

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TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Male	Day: 17 Relative to Start Date	ELISA Parameters			Rat
Group 1: Control		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)		
1	52385		18903		
2	48381		18818		
3	38406		18703		
4	57563		20376		
5	79663		19897		
6	51049		23285		
7	42368		26508		
8	43867		25944		
9	39404		18960		
10	50261		20936		
Mean	50334.7		21233.0		
SD	11962.9		2975.2		
N	10		10		

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TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Male	Day: 17 Relative to Start Date	ELISA Parameters			Rat
Group 2: 30 µg/ animal		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)		
31	416505	229715			
32	445745	679065			
33	422550	662375			
34	455465	351035			
35	420835	271255			
36	449005	529270			
37	397930	649710			
38	425580	657965			
39	422215	845810			
40	439600	640385			
Mean	429643.0	551658.5			
SD	17527.1	201887.8			
N	10	10			

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RNA Platforms encoding for Viral Proteins

TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Male	Day: 17 Relative to Start Date	ELISA Parameters			Rat
Group 3: 10 µg/ animal		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)		
61	569265		420140		
62	830325		513405		
63	614150		176050		
64	766735		796895		
65	698405		123535		
66	760240		586800		
67	738910		210390		
68	1015700		430440		
69	655585		270590		
70	722720		414520		
Mean	737003.5		394276.5		
SD	124583.7		207037.7		
N	10		10		

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TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Male	Day: 17 Relative to Start Date	ELISA Parameters		
Group 4: 30 µg/ animal	BNT162b1	Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	
91		427380	891365	
92		338995	237575	
93		428700	1304000	
94		446240	591510	
95		442385	515650	
96		550585	1503900	
97		465035	627240	
98		455370	717540	
99		434330	2295800	
100		383250	619790	
Mean SD N		437627.0 54732.7 10	930437.0 608722.2 10	

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TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Male	Day: 17 Relative to Start Date	ELISA Parameters			Rat
Group 5: 100 µg/ animal	BNT162b1	Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)		
121		967885	3106700		
122		999355	9085700		
123		1035755	3212850		
124		1106600	4229650		
125		855035	4742600		
126		986870	5079750		
127		896930	4686550		
128		966370	8248600		
129		906785	8282400		
130		987570	8598500		
Mean SD N		970915.5 72264.9 10	5927330.0 2354973.1 10		

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RNA Platforms encoding for Viral Proteins

TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Male	Day: 17 Relative to Start Date	ELISA Parameters			Rat
Group 7: 100 µg/ animal	BNT162b2	Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)		
181		1028100	6341900		
182		1138600	6339200		
183		1085150	2191950		
184		1157050	2305250		
185		1057100	5455250		
186		876725	5700650		
187		968455	4722350		
188		1039285	39928800		
189		1054500	4971650		
190		1031350	4087900		
Mean SD N		1043631.5 80157.0 10	4604490.0 1488181.0 10		

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TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Male	Day: 31 Relative to Start Date	ELISA Parameters		
Group 6: 30 µg/ animal		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	
161	160530	18377		
162	104896	28337		
163	118340	36891		
164	123305	23605		
165	91126	15296		
Mean	120039.4	24501.2		
SD	26150.6	8533.2		
N	5	5		

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TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Male	Day: 38 Relative to Start Date	ELISA Parameters		
Group 1: Control		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	
11	111670	21367		
12	105050	8140		
13	74092	12503		
14	129530	17146		
15	149145	15083		
Mean	113897.4	14847.8		
SD	28082.4	4958.1		
N	5	5		

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TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Male	Day: 38 Relative to Start Date	ELISA Parameters		
Group 2: 30 µg/ animal		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	
41	99122	24580		
42	99224	17621		
43	103371	22609		
44	60729	17702		
45	121340	14665		
Mean	96757.2	19435.4		
SD	22123.3	4049.4		
N	5	5		

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TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Male	Day: 38 Relative to Start Date	ELISA Parameters		
Group 3: 10 µg/ animal		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	
71	67806	7398		
72	58939	18308		
73	60966	16405		
74	50273	20133		
75	52983	19061		
Mean	58193.4	16261.0		
SD	6901.6	5138.0		
N	5	5		

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TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Male	Day: 38 Relative to Start Date	ELISA Parameters		
Group 4: 30 µg/ animal	BNT162b1	Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	
101		112525	15056	
102		132825	19432	
103		112570	21809	
104		84998	27544	
105		91336	16422	
Mean		106850.8	20052.6	
SD		19090.7	4943.1	
N		5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Male	Day: 38 Relative to Start Date	ELISA Parameters		
Group 5: 100 µg/ animal	BNT162b1	Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	
131		67438	23757	
132		73194	22919	
133		62850	22600	
134		61675	25397	
135		61142	18863	
Mean		65259.8	22707.2	
SD		5082.1	2406.8	
N		5	5	

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TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Male	Day: 38 Relative to Start Date	ELISA Parameters		
Group 7: 100 µg/ animal	BNT162b2	Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	
191		56500	28453	
192		66800	23159	
193		56846	18625	
194		63641	30314	
195		53406	20968	
Mean		59438.6	24303.8	
SD		5558.8	4950.4	
N		5	5	

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TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Female	Day: 4 Relative to Start Date	ELISA Parameters		
Group 1: Control		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	
21	72103	27364		
22	109835	17256		
23	66184	15792		
24	73415	12823		
25	77457	17256		
Mean	79798.8	18098.2		
SD	17269.9	5486.8		
N	5	5		

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TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Female	Day: 4 Relative to Start Date	ELISA Parameters		
Group 2: 30 µg/ animal		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	
51	453710	127030		
52	409260	58599		
53	372545	215525		
54	388245	155175		
55	383170	74618		
Mean	401386.0	126189.4		
SD	32156.3	63343.9		
N	5	5		

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RNA Platforms encoding for Viral Proteins

TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Female	Day: 4 Relative to Start Date	ELISA Parameters		
Group 3: 10 µg/ animal		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	
81	260710	81274		
82	314615	57579		
83	388650	41085		
84	342995	46586		
85	311255	59206		
Mean	323645.0	57146.0		
SD	46693.3	15460.1		
N	5	5		

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Female	Day: 4 Relative to Start Date	ELISA Parameters			Rat
Group 4: 30 µg/ animal		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)		
111	366335	292215			
112	366000	115510			
113	342730	261475			
114	405375	838545			
115	414045	146395			
Mean	378897.0	330428.0			
SD	29869.1	292586.3			
N	5	5			

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TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Female	Day: 4 Relative to Start Date	ELISA Parameters		
Group 5: 100 µg/ animal		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	
141	420535	1819650		
142	452305	1156100		
143	428725	1986800		
144	475845	2270400		
145	447375	963885		
Mean	441957.0	1639367.0		
SD	21643.8	557054.1		
N	5	5		

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RNA Platforms encoding for Viral Proteins

TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Female	Day: 4 Relative to Start Date	ELISA Parameters			Rat
Group 6: 30 µg/ animal		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)		
171	388200		50410		
172	425095		409540		
173	388875		130920		
174	355935		114400		
175	392795		142690		
Mean	390580.0		169592.0		
SD	23209.4		138784.7		
N	5		5		

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TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Female	Day: 4 Relative to Start Date	ELISA Parameters			Rat
Group 7: 100 µg/ animal		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)		
201	446180	1198200			
202	448515	1787900			
203	488465	1426900			
204	432770	1229650			
205	412140	1174500			
Mean	445614.0	1362630.0			
SD	27975.1	257962.6			
N	5	5			

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TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Female	Day: 10 Relative to Start Date	ELISA Parameters			Rat
Group 6: 30 µg/ animal		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)		
166	423555	76401			
167	454355	65135			
168	417625	127105			
169	367710	196325			
170	381070	150105			
171	358060	68208			
172	411240	308885			
173	427500	183410			
174	414135	69107			
175	441795	104100			
Mean	409704.5	134878.1			
SD	31388.8	77962.6			
N	10	10			

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TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Female	Day: 17 Relative to Start Date	ELISA Parameters			Rat
Group 1: Control		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)		
16	68688		11887		
17	49113		20572		
18	42397		19727		
19	59898		16584		
20	57776		16556		
21	55998		22213		
22	48929		13657		
23	38037		14152		
24	39498		9965		
25	59683		15246		
Mean	52001.7		16055.9		
SD	10058.1		3899.1		
N	10		10		

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TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Female	Day: 17 Relative to Start Date	ELISA Parameters			Rat
Group 2: 30 µg/ animal		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)		
46	516310	383415			
47	440495	120600			
48	457805	322615			
49	432995	56572			
50	456585	219120			
51	531800	385690			
52	463720	227270			
53	472725	488200			
54	487040	319150			
55	417630	170110			
Mean	467670.5	269274.2			
SD	35882.2	133874.6			
N	10	10			

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RNA Platforms encoding for Viral Proteins

TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Female	Day: 17 Relative to Start Date	ELISA Parameters			Rat
Group 3: 10 µg/ animal		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)		
76	722315	95389			
77	692045	114150			
78	644855	169520			
79	791675	46772			
80	927205	142640			
81	864770	40796			
82	600415	57460			
83	772365	97147			
84	244590	161820			
85	234060	99199			
Mean	649429.5	102489.3			
SD	236844.1	45691.2			
N	10	10			

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TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Female	Day: 17 Relative to Start Date	ELISA Parameters			Rat
Group 4: 30 µg/ animal		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)		
106	466190	997090			
107	419330	85513			
108	533860	1565800			
109	468610	599795			
110	489860	980535			
111	439375	385720			
112	445075	115180			
113	449440	577540			
114	455390	1647550			
115	459010	285090			
Mean	463014.0	723981.3			
SD	31240.3	560182.5			
N	10	10			

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TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Female	Day: 17 Relative to Start Date	ELISA Parameters			Rat
Group 5: 100 µg/ animal BNT162b1		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)		
136	1072200	2451900			
137	983855	3642700			
138	823020	812900			
139	909230	2210000			
140	919480	2527250			
141	958720	2256200			
142	948335	2975500			
143	1034250	3283350			
144	1098450	4835050			
145	1061200	1926750			
Mean	980874.0	2662160.0			
SD	86180.9	1082703.5			
N	10	10			

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Female	Day: 17 Relative to Start Date	ELISA Parameters			Rat
Group 7: 100 µg/ animal BNT162b2		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)		
196	993680	1811950			
197	1035050	879530			
198	811530	2606800			
199	1035220	4249000			
200	920600	1368850			
201	348300	2365000			
202	298335	2156150			
203	879555	1468150			
204	946385	668495			
205	991875	1800750			
Mean	826053.0	1937467.5			
SD	274115.3	1018132.7			
N	10	10			

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Female	Day: 31 Relative to Start Date	ELISA Parameters		
Group 6: 30 µg/ animal		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	
176	159020	15840		
177	92176	14190		
178	162220	14064		
179	70844	21641		
180	70199	8040		
Mean	110891.8	14755.0		
SD	46262.6	4860.1		
N	5	5		

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RNA Platforms encoding for Viral Proteins

TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Female	Day: 38 Relative to Start Date	ELISA Parameters		
Group 1: Control		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	
26	99854		12361	
27	212740		16751	
28	106205		17671	
29	113690		19838	
30	125110		44258	
Mean	131519.8		22175.8	
SD	46366.1		12640.6	
N	5		5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Female	Day: 38 Relative to Start Date	ELISA Parameters		
Group 2: 30 µg/ animal		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	
56	215790		27646	
57	81273		26344	
58	125535		10664	
59	90135		20242	
60	39095		15254	
Mean	110365.6	20030.0		
SD	66482.3	7218.8		
N	5	5		

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Female	Day: 38 Relative to Start Date	ELISA Parameters		
Group 3: 10 µg/ animal	BNT162a1	Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	
86		92486	15177	
87		59378	19022	
88		79867	21365	
89		73747	19339	
90		72527	13552	
Mean		75601.0	17691.0	
SD		12035.1	3218.6	
N		5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Female	Day: 38 Relative to Start Date	ELISA Parameters		
Group 4: 30 µg/ animal		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	
116	207035		18509	
117	108505		19144	
118	146360		24941	
119	162080		10972	
120	143080		21161	
Mean	153412.0		18945.4	
SD	35789.9		5115.2	
N	5		5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Female	Day: 38 Relative to Start Date	ELISA Parameters		
Group 5: 100 µg/ animal BNT162b1		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	
146	76975	17039		
147	39454	17000		
148	57978	13710		
149	56413	11844		
150	77071	18902		
Mean	61578.2	15699.0		
SD	15860.4	2853.3		
N	5	5		

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 8-2 Acute Phase Protein Levels - Individual Data

Sex: Female	Day: 38 Relative to Start Date	ELISA Parameters		
Group 7: 100 µg/ animal BNT162b2		Alpha1-acid Glycoprotein (ng/mL)	Alpha2 Macroglob. (ng/mL)	
206	60346	26320		
207	69090	20888		
208	154730	15969		
209	92067	14265		
210	74691	15692		
Mean	90184.8	18626.8		
SD	37898.0	4975.0		
N	5	5		

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-1 Cytokine Levels - Summary

Day: 1 Relative to Start Date (PreDs)		Cytokine Levels					
Sex: Male		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)	
Group 1: Control	Mean SD N	[a] 7.23 5.60 3	[a] 7.10 0.00 3	[a] 12.60 0.00 3	[a] 3.00 0.00 3	[a] 9.90 0.00 3	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	4.00 0.00 3 -44.7	15.50 8.83 3 118.3	29.20* 26.62 3 131.7	3.00n 0.00 3 0.0	9.90n 0.00 3 0.0	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	10.23 10.80 3 41.5	7.10 0.00 3 0.0	12.60 0.00 3 0.0	3.00n 0.00 3 0.0	9.90n 0.00 3 0.0	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	4.00 0.00 3 -44.7	7.10 0.00 3 0.0	12.60 0.00 3 0.0	3.00n 0.00 3 0.0	9.90n 0.00 3 0.0	

[a] - Anova &amp; Dunnett(Rank): \* = p ≤ 0.05; n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-1 Cytokine Levels - Summary

Day: 1 Relative to Start Date (PreDs)		Cytokine Levels									
Sex: Male		IFN-gamma (pg/mL)		TNF-alpha (pg/mL)		IL-1beta (pg/mL)		IL-6 (pg/mL)		IL-10 (pg/mL)	
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	4.27 0.46 3 -41.0	[a] 0.00 3 0.0	7.10 0.00 3 0.0	[a] 0.00 3 0.0	12.60 0.00 3 0.0	[a] 3.00n 0.00 3 0.0	3.00n 0.00 3 0.0	9.90n 0.00 3 0.0	[a] 0.00 3 0.0	
Group 6: 30 µg/ animal BNT162c1	Mean SD N %Diff	7.53 6.12 3 4.1	[a] 0.00 3 0.0	7.10 0.00 3 0.0	[a] 0.00 3 0.0	12.60 0.00 3 0.0	[a] 3.00n 0.00 3 0.0	3.00n 0.00 3 0.0	9.90n 0.00 3 0.0	[a] 0.00 3 0.0	
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	5.57 2.71 3 -23.0	[a] 0.46 3 3.8	7.37 0.46 3 0.0	[a] 0.00 3 0.0	12.60 0.00 3 0.0	[a] 3.00n 0.00 3 0.0	3.00n 0.00 3 0.0	9.90n 0.00 3 0.0	[a] 0.00 3 0.0	

[a] - Anova &amp; Dunnett n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-1      Cytokine Levels - Summary

Sex: Male		Cytokine Levels					
		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-8 (pg/mL)	IL-10 (pg/mL)
Group 1: Control	Mean SD N	99.17 7.60 3	[a] 66.10 14.69 3	[a] 349.93 115.46 3	[a] 12.33 8.31 3	[a] 212.37 116.87 3	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	123.47 33.70 3 24.5	87.53 19.00 3 32.4	464.57 114.06 3 32.8	6.80 4.59 3 -44.9	157.93 127.75 3 -25.6	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	80.13 16.85 3 -19.2	49.33 11.69 3 -25.4	250.90 64.36 3 -28.3	3.00* 0.00 3 -75.7	147.77 24.44 3 -30.4	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	82.40 11.49 3 -16.9	64.43 7.01 3 -2.5	347.47 38.18 3 -0.7	9.20 1.44 3 -25.4	190.77 38.89 3 -10.2	

[a] - Anova & Dunnett  
[a]\* - Anova & Dunnett(Rank): \* = p ≤ 0.05

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-1 Cytokine Levels - Summary

Day: 1 Relative to Start Date (6 h pa)		Cytokine Levels									
Sex: Male		IFN-gamma (pg/mL)		TNF-alpha (pg/mL)		IL-1beta (pg/mL)		IL-6 (pg/mL)		IL-10 (pg/mL)	
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	92.57 12.93 3 -6.7	[a] 56.07 15.61 3 -15.2	[a] 286.73 80.42 3 -18.1	[a] 3.40 0.69 3 -72.4	[a] 164.13 39.68 3 -22.7					
Group 6: 30 µg/ animal BNT162c1	Mean SD N %Diff	89.33 4.89 3 -9.9	[a] 54.97 21.21 3 -16.8	[a] 236.03 90.68 3 -32.5	[a] 3.00* 0.00 3 -75.7	[a] 178.50 79.72 3 -15.9					
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	91.33 16.72 3 -7.9	[a] 59.53 14.54 3 -9.9	[a] 285.53 114.71 3 -18.4	[a] 7.37 7.56 3 -40.3	[a] 151.70 77.90 3 -28.6					

[a] - Anova &amp; Dunnett. \* = p ≤ 0.05

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-1      Cytokine Levels - Summary

		Day: 8 Relative to Start Date (PreDs)					
		Cytokine Levels					
Sex: Male		IFN-gamma			TNF-alpha		
		[a]	(pg/mL)	[a]	(pg/mL)	[a]	(pg/mL)
Group 1: Control		Mean SD N	109.77 20.35 3	92.47 19.99 3	447.53 87.14 3	14.57 16.21 3	365.60 74.22 3
Group 2: 30 µg/ animal BNT162a1		Mean SD N %Diff	59.07 50.08 3 -46.2	84.57 26.63 3 -8.5	432.77 188.55 3 -3.3	6.67 3.25 3 -54.2	258.53 225.11 3 -29.3
Group 3: 10 µg/ animal BNT162a1		Mean SD N %Diff	15.90 17.02 3 -85.5	8.23* 1.96 3 -91.1	14.73* 3.70 3 -96.7	3.00 0.00 3 -79.4	9.90 0.00 3 -97.3
Group 4: 30 µg/ animal BNT162b1		Mean SD N %Diff	22.10 30.92 3 -79.9	22.13 26.04 3 -76.1	93.40 139.95 3 -79.1	3.00 0.00 3 -79.4	68.67 101.79 3 -81.2

[a] - Anova & Dunnett  
 [a1] - Anova & Dunnett(Rank): \* = p ≤ 0.05  
 [a2] - Anova & Dunnett(Log)

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-1 Cytokine Levels - Summary

Day: 8 Relative to Start Date (PreDs)		Cytokine Levels									
Sex: Male		IFN-gamma (pg/mL)		TNF-alpha (pg/mL)		IL-1beta (pg/mL)		IL-6 (pg/mL)		IL-10 (pg/mL)	
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	44.97 70.96 3 -59.0	[a] 39.23 55.66 3 -57.6	[a] 16.53 3.87 3 -82.1	[a] 166.93 267.31 3 -62.7	[a] 7.50 7.79 3 -48.5	[a] 121.87 193.93 3 -48.5	[a] 3.00 0.00 3 -79.4	[a] 18.27 14.49 3 -95.0	[a] 121.87 193.93 3 -66.7	
Group 6: 30 µg/ animal BNT162c1	Mean SD N %Diff	13.97 17.26 3 -87.3	[a] 13.97 3.87 3 -82.1	[a] 58.63 26.57 3 -86.9	[a] 3.00 0.00 3 -79.4	[a] 18.27 14.49 3 -95.0	[a] 18.27 14.49 3 -95.0	[a] 3.00 0.00 3 -79.4	[a] 18.27 14.49 3 -95.0	[a] 18.27 14.49 3 -66.7	
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	19.27 26.44 3 -82.4	[a] 16.93 17.03 3 -81.7	[a] 50.83* 66.22 3 -88.6	[a] 3.00 0.00 3 -79.4	[a] 29.27 33.54 3 -79.4	[a] 29.27 33.54 3 -79.4	[a] 29.27 33.54 3 -79.4	[a] 29.27 33.54 3 -79.4	[a] 29.27 33.54 3 -66.7	

[a] - Anova &amp; Dunnett. \* = p ≤ 0.05

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-1      Cytokine Levels - Summary

Sex: Male		Cytokine Levels					
		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)	Rat
Group 1: Control	Mean SD N	88.43 19.95 3	56.80 20.82 3	[a] 269.07 111.47 3	[a] 4.50 2.60 3	[a] 220.07 106.23 3	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	117.03 20.22 3 32.3	75.83 18.32 3 33.5	[a] 377.60 79.12 3 40.3	[a] 3.00 0.00 3 -33.3	[a] 191.67 56.91 3 -12.9	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	109.40 27.17 3 23.7	61.53 17.01 3 8.3	[a] 344.33 107.63 3 28.0	[a] 9.10 7.04 3 102.2	[a] 200.20 40.67 3 -9.0	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	56.60 7.54 3 -36.0	41.20 13.40 3 -27.5	[a] 208.17 74.37 3 -22.6	[a] 3.00 0.00 3 -33.3	[a] 84.37 86.87 3 -61.7	

[a] - Anova & Dunnett

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-1      Cytokine Levels - Summary

Sex: Male		Cytokine Levels					
		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)	
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	121.47 12.48 3 37.4	66.17 16.50 3 16.5	[a] 364.93 103.43 3 35.6	[a] 14.40 10.58 3 220.0	[a] 213.30 48.88 3 -3.1	
Group 6: 30 µg/ animal BNT162c1	Mean SD N %Diff	110.80 40.51 3 25.3	55.23 6.55 3 -2.8	[a] 292.13 30.04 3 8.6	[a] 4.77 1.55 3 5.9	[a] 159.30 8.75 3 -27.6	
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	92.20 6.36 3 4.3	54.60 13.75 3 -3.9	[a] 291.13 112.49 3 8.2	[a] 7.60 7.97 3 68.9	[a] 156.00 92.42 3 -29.1	

[a] - Anova & Dunnett

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-1 Cytokine Levels - Summary

Day: 10 Relative to Start Date (48h pa)		Cytokine Levels				Rat
Sex: Male		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
Group 6: 30 µg/ animal BNT162c1	Mean SD N	[a] 54.97 n 56.48 3	[a] 26.17 n 27.51 3	[a] 132.93 n 182.48 3	[a] 3.00 n 0.00 3	[a] 46.77 n 63.85 3

[a] - Anova &amp; Dunnett: n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-1 Cytokine Levels - Summary

Day: 15 Relative to Start Date (PreDs)		Cytokine Levels					
Sex: Male		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-8 (pg/mL)	IL-10 (pg/mL)
Group 1: Control	Mean SD N	84.90 61.87 3	66.80 52.44 3	[a] 269.17 231.66 3	[a] 3.00 0.00 3	[a] 178.57 147.46 3	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	55.63 78.85 3 -34.5	87.87 80.06 3 31.5	[a] 362.97 383.08 3 34.8	[a] 4.63 2.83 3 54.4	[a] 167.80 273.49 3 -6.0	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	4.00 0.00 3 -95.3	7.10 0.00 3 -89.4	[a] 12.60 0.00 3 -95.3	[a] 3.00 0.00 3 0.0	[a] 9.90 0.00 3 -94.5	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	44.80 45.08 3 -47.2	35.77 46.23 3 -46.5	[a] 145.90 230.88 3 -45.8	[a] 3.00 0.00 3 0.0	[a] 81.00 123.15 3 -54.6	

[a] - Anova & Dunnett  
[a1] - Anova & Dunnett(Rank)

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-1      Cytokine Levels - Summary

Sex: Male		Cytokine Levels					
		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)	
Group 5: 100 µg/ animal	Mean SD N %Diff	74.53 63.43 3 -12.2	60.60 47.90 3 -9.3	302.27 264.90 3 12.3	15.10 11.03 3 403.3	194.07 164.25 3 8.7	
BNT162b1							
Group 7: 100 µg/ animal	Mean SD N %Diff	34.43 32.49 3 -59.4	19.50 18.80 3 -70.8	57.27 77.36 3 -78.7	3.00 0.00 3 0.0	40.53 53.06 3 -77.3	
BNT162b2							

[a] - Anova & Dunnett

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RNA Platforms encoding for Viral Proteins

TABLE 9-1 Cytokine Levels - Summary

Day: 15 Relative to Start Date (6 h pa)		Cytokine Levels									
Sex: Male		IFN-gamma (pg/mL)		TNF-alpha (pg/mL)		IL-1beta (pg/mL)		IL-6 (pg/mL)		IL-10 (pg/mL)	
Group 1: Control	Mean SD N	125.33 24.16 3	[a] 82.30 36.60 3	[a] 381.77 149.65 3	[a] 3.53 0.92 3	[a] 238.63 102.97 3					
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	190.80* 35.23 3 52.2	[a] 112.80 26.42 3 37.1	[a] 499.80 83.83 3 30.9	[a] 3.00 0.00 3	[a] -15.1 7.18 3	[a] 270.73 13.59 3 13.5				
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	155.60 34.68 3 24.1	[a] 78.47 18.13 3 -4.7	[a] 381.90 124.92 3 0.0	[a] 18.27** 7.18 3	[a] 417.0 5.37 3	[a] 225.57 54.72 3 -5.5				
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	124.07 18.46 3 -1.0	[a] 102.80 27.35 3 24.9	[a] 471.40 129.00 3 23.5	[a] 5.37 2.05 3 51.9	[a] 234.17 107.20 3 -1.9					

[a] - Anova &amp; Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-1      Cytokine Levels - Summary

Sex: Male		Cytokine Levels				
		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
Group 5: 100 µg/ animal	Mean SD N %Diff	155.27 13.54 3 23.9	75.87 8.95 3 -7.8	353.03 40.47 3 -7.5	20.10** 6.67 3 468.9	233.80 35.06 3 -2.0
BNT162b1						
Group 7: 100 µg/ animal	Mean SD N %Diff	119.93 24.61 3 -4.3	62.93 12.34 3 -23.5	271.63 68.69 3 -28.8	11.47 2.91 3 224.5	165.80 35.65 3 -30.5
BNT162b2						

[a] - Anova & Dunnett. \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-1      Cytokine Levels - Summary

Sex: Male		Cytokine Levels					
		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)	
Group 1: Control	Mean SD N	[a] 4.00 0.00 3	[a] 7.10 0.00 3	[a2] 12.60 0.00 3	[a1] 3.00 0.00 3	[a1] 9.90 0.00 3	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	111.17* 16.10 3 2679.2	25.20 23.53 3 254.9	69.83 84.67 3 454.2	3.00 0.00 3 0.0	9.90 0.00 3 0.0	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	83.87 57.45 3 1996.7	7.10 0.00 3 0.0	12.60 0.00 3 0.0	3.00 0.00 3 0.0	9.90 0.00 3 0.0	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	31.20 47.11 3 680.0	41.97 60.39 3 491.1	176.10 283.19 3 1297.6	7.83 8.37 3 161.1	44.70 60.28 3 351.5	

[a] - Anova &amp; Dunnett.. \* = p ≤ 0.05

[a1] - Anova &amp; Dunnett(Rank)

[a2] - Anova &amp; Dunnett(Log)

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-1      Cytokine Levels - Summary

Sex: Male		Cytokine Levels					
		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)	
Group 5: 100 µg/ animal	Mean SD N %Diff	4.00 0.00 3 0.0	10.23 5.43 3 44.1	22.30 16.80 3 77.0	3.00 0.00 3 0.0	9.90 0.00 3 0.0	[a]
BNT162b1							
Group 7: 100 µg/ animal	Mean SD N %Diff	43.17 58.33 3 979.2	44.40 48.01 3 525.4	214.23 289.74 3 1600.3	7.40 7.62 3 146.7	106.50 167.32 3 975.8	
BNT162b2							

[a] - Anova & Dunnett

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-1 Cytokine Levels - Summary

		Day: 1 Relative to Start Date (PreDs)					
Sex: Female		Cytokine Levels					
		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)	
Group 1: Control		[a] 30.67 46.19 3	[a] 28.57 23.95 3	[a] 119.00 135.10 3	[a] 3.00 0.00 3	[a] 71.90 107.39 3	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	4.00 0.00 3 -87.0	7.10 0.00 3 -75.1	12.60 0.00 3 -89.4	3.00n 0.00 3 0.0	9.90 0.00 3 -86.2	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	9.10 8.83 3 -70.3	8.00 1.56 3 -72.0	12.60 0.00 3 -89.4	3.00n 0.00 3 0.0	9.90 0.00 3 -86.2	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	8.20 7.27 3 -73.3	7.10 0.00 3 -75.1	12.60 0.00 3 -89.4	3.00n 0.00 3 0.0	9.90 0.00 3 -86.2	

[a] - Anova &amp; Dunnett(Rank); n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-1 Cytokine Levels - Summary

		Day: 1 Relative to Start Date (PreDs)					
Sex: Female		Cytokine Levels					
		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)	
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	4.00 0.00 3 -87.0	7.10 0.00 3 -75.1	[a] 12.60 0.00 3 -89.4	[a] 3.00n 0.00 3 0.0	[a] 9.90 0.00 3 -86.2	
Group 6: 30 µg/ animal BNT162c1	Mean SD N %Diff	4.00 0.00 3 -87.0	7.10 0.00 3 -75.1	[a] 12.60 0.00 3 -89.4	[a] 3.00n 0.00 3 0.0	[a] 9.90 0.00 3 -86.2	
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	22.03 30.80 3 -28.2	18.43 19.63 3 -35.5	[a] 58.80 80.02 3 -50.6	[a] 3.00n 0.00 3 0.0	[a] 43.40 58.02 3 -39.6	

[a] - Anova &amp; Dunnett n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-1      Cytokine Levels - Summary

Sex: Female		Cytokine Levels					
		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)	
Group 1: Control		[a] 86.50 8.29 3	[a] 65.83 29.96 3	[a] 345.70 188.07 3	[a] 5.77 3.19 3	[a] 168.03 78.07 3	
Group 2: 30 µg/ animal BNT162a1		97.87 32.96 3	46.83 14.73 3	246.17 113.44 3	6.07 4.55 3	84.67 70.78 3	
Group 3: 10 µg/ animal BNT162a1		86.40 19.75 3	51.03 11.57 3	260.87 62.68 3	3.00 0.00 3	114.70 26.97 3	-49.6
Group 4: 30 µg/ animal BNT162b1		73.37 29.11 3	46.73 8.39 3	235.47 52.21 3	5.50 4.07 3	132.57 27.24 3	-31.7
		%Diff -0.1	-22.5	-24.5	-48.0		
		SD -15.2	-29.0	-31.9	-4.6		-21.1

[a] - Anova & Dunnett  
[a1] - Anova & Dunnett(Rank)

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-1 Cytokine Levels - Summary

Day: 1 Relative to Start Date (6 h pa)		Cytokine Levels									
Sex: Female		IFN-gamma (pg/mL)		TNF-alpha (pg/mL)		IL-1beta (pg/mL)		IL-6 (pg/mL)		IL-10 (pg/mL)	
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	68.80 11.61 3 -20.5	[a] 38.03 4.62 3 -42.2	[a] 67.03 8.89 3 -44.6	[a] 191.43 36.49 3 -48.0	[a] 3.00 0.00 3 -48.0	[a] 90.77 33.29 3 -46.0				
Group 6: 30 µg/ animal BNT162c1	Mean SD N %Diff	104.33 11.41 3 -20.6	[a] 67.03 8.89 3 -1.8	[a] 298.10 13.67 3 -13.8	[a] 4.27 2.19 3 -26.0	[a] 209.23 40.58 3 -24.5					
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	88.10 10.64 3 1.8	[a] 52.83 11.39 3 -19.7	[a] 268.23 67.42 3 -22.4	[a] 3.43 0.75 3 -40.5	[a] 182.03 51.88 3 8.3					

[a] - Anova &amp; Dunnett

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RNA Platforms encoding for Viral Proteins

TABLE 9-1      Cytokine Levels - Summary

		Day: 8 Relative to Start Date (PreDs)					
Sex: Female		Cytokine Levels					
		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-8 (pg/mL)	IL-10 (pg/mL)
Group 1: Control		[a] 23.27 31.91 3	[a] 12.80 9.87 3	[a] 48.37 61.95 3	[a] 3.00 0.00 3	[a] 17.80 13.68 3	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	31.00 46.25 3 33.2	27.47 35.28 3 114.6	126.83 197.86 3 162.2	3.00n 0.00 3 0.0	74.30 111.54 3 317.4	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	27.20 24.15 3 16.9	12.80 8.94 3 0.0	41.77 41.12 3 -13.6	3.00n 0.00 3 0.0	9.90 0.00 3 -44.4	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	54.43 39.53 3 134.0	34.17 46.88 3 166.9	148.90 236.08 3 207.9	3.00n 0.00 3 0.0	112.93 178.46 3 534.5	

[a] - Anova & Dunnett(Log)  
[a] - Anova & Dunnett(Rank); n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-1 Cytokine Levels - Summary

		Day: 8 Relative to Start Date (PreDs)					
Sex: Female		Cytokine Levels					
		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)	
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	44.73 68.48 3 92.3	35.73 49.59 3 179.2	[a] [a] 3 223.2	[a] 156.30 248.90 3	[a] 3.00n 0.00 3	[a] 105.33 165.30 3 491.8
Group 6: 30 µg/ animal BNT162c1	Mean SD N %Diff	9.50 8.26 3 -59.2	7.50 0.69 3 -41.4	[a] 0.00 3 -73.9	[a] 12.60 0.00 3	[a] 3.00n 0.00 3	[a] 9.90 0.00 3 -44.4
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	4.60 1.04 3 -80.2	7.43 0.58 3 -41.9	[a] 0.00 3 -73.9	[a] 12.60 0.00 3	[a] 3.00n 0.00 3 0.0	[a] 9.90 0.00 3 -44.4

[a] - Anova &amp; Dunnett: n - Inappropriate for statistics

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RNA Platforms encoding for Viral Proteins

TABLE 9-1      Cytokine Levels - Summary

		Day: 8 Relative to Start Date (6 h pa)					
Sex: Female		Cytokine Levels					
		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-8 (pg/mL)	IL-10 (pg/mL)
Group 1: Control		[a] 77.80 18.19 3	[a] 43.67 19.70 3	[a] 213.37 99.74 3	[a] 3.00 0.00 3	[a] 125.70 98.90 3	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	103.77 53.24 3 33.4	42.77 23.93 3 -2.1	220.37 146.31 3 3.3	- 3.00 0.00 3	- 115.83 92.56 3 3	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	129.80 11.86 3 66.8	70.53 12.55 3 61.5	400.23 95.18 3 87.6	7.03 3.65 3 134.4	209.87 25.81 3 67.0	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	80.93 30.62 3 4.0	51.47 14.82 3 17.9	260.00 89.54 3 21.9	3.00 0.00 3 0.0	202.23 86.64 3 60.9	

[a] - Anova & Dunnett  
[a1] - Anova & Dunnett(Rank)

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RNA Platforms encoding for Viral Proteins

TABLE 9-1 Cytokine Levels - Summary

Day: 8 Relative to Start Date (6 h pa)		Cytokine Levels									
Sex: Female		IFN-gamma (pg/mL)		TNF-alpha (pg/mL)		IL-1beta (pg/mL)		IL-6 (pg/mL)		IL-10 (pg/mL)	
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	118.27 7.21 3 52.0	[a] 10.64 3 78.0	77.73 13.33 3 60.17	[a] 51.50 3 109.0	445.93 109.37 3 345.67	[a] 2.31 3 55.6	4.67 2.47 6.43	240.53 85.78 179.00	38.91 3 91.4	
Group 6: 30 µg/ animal BNT162c1	Mean SD N %Diff	164.30 ** 17.38 3 111.2	[a] 13.33 3 37.8	60.17 3 62.0	[a] 109.37 3 378.43	2.47 3 92.07	[a] 3 8.03	8.03 4.74 114.4	37.46 3 42.4	85.78 3 42.4	
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	118.40 24.66 3 52.2	[a] 13.95 3 55.9	68.07 3 77.4	[a] 92.07 3 167.8	8.03 4.74 167.8	[a] 3 63.5	205.53 37.46 63.5			

[a] - Anova &amp; Dunnett: \*\* = p ≤ 0.01

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RNA Platforms encoding for Viral Proteins

TABLE 9-1      Cytokine Levels - Summary

Day: 10 Relative to Start Date (48h pa)		Cytokine Levels				
		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
Sex: Female		[a]	[a]	[a]	[a]	[a]
Group 6: 30 µg/ animal	Mean SD N	80.67n 49.37 3	7.10n 0.00 3	12.60n 0.00 3	3.00n 0.00 3	9.90n 0.00 3
BNT162c1	-	-	-	-	-	-

[a] - Anova & Dunnett: n - Inappropriate for statistics

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-1 Cytokine Levels - Summary

		Day: 15 Relative to Start Date (PreDs)					
Sex: Female		Cytokine Levels					
		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-8 (pg/mL)	IL-10 (pg/mL)
Group 1: Control		[a] 37.33 57.74 3	[a] 26.27 33.20 3	[a] 116.57 180.08 3	[a2] 3.00 0.00 3	[a1] 66.90 98.73 3	
Group 2: 30 µg/ animal BNT162a1		Mean SD N %Diff	79.63 23.68 3 113.3	60.53 39.81 3 130.5	252.57 182.59 3 116.7	3.00 0.00 3 0.0	148.53 120.84 3 122.0
Group 3: 10 µg/ animal BNT162a1		Mean SD N %Diff	55.60 62.22 3 48.9	42.73 48.76 3 62.7	179.63 243.56 3 54.1	12.23 15.99 3 307.8	101.57 158.77 3 51.8
Group 4: 30 µg/ animal BNT162b1		Mean SD N %Diff	34.30 36.98 3 -8.1	7.10 0.00 3 -73.0	12.60 0.00 3 -89.2	3.00 0.00 3 0.0	9.90 0.00 3 -85.2

[a] - Anova &amp; Dunnett(Log)

[a1] - Anova &amp; Dunnett

[a2] - Anova &amp; Dunnett(Rank)

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-1      Cytokine Levels - Summary

Sex: Female		Cytokine Levels					
		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)	
Group 5: 100 µg/ animal	Mean SD N %Diff	19.07 26.10 3 -48.9	7.10 0.00 3 -73.0	[a] 12.60 0.00 3 -89.2	[a] 3.00 0.00 3 0.0	[a] 9.90 0.00 3 -85.2	
BNT162b1							
Group 7: 100 µg/ animal	Mean SD N %Diff	47.63 66.67 3 27.6	42.37 61.08 3 61.3	[a] 203.97 331.46 3 75.0	[a] 10.70 13.34 3 256.7	[a] 112.73 178.11 3 68.5	
BNT162b2							

[a] - Anova & Dunnett

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RNA Platforms encoding for Viral Proteins

TABLE 9-1      Cytokine Levels - Summary

		Day: 15 Relative to Start Date (6 h pa)					
Sex: Female		Cytokine Levels					
		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-8 (pg/mL)	IL-10 (pg/mL)
Group 1: Control		Mean SD N	121.37 18.61 3	[a] 90.97 29.50 3	[a] 420.53 143.71 3	[a] 3.27 0.46 3	[a] 230.10 89.38 3
Group 2: 30 µg/ animal BNT162a1		Mean SD N %Diff	185.67 51.68 3 53.0	96.20 23.88 3 5.8	468.70 100.85 3 11.5	3.10 0.17 3 -5.1	246.37 46.35 3 7.1
Group 3: 10 µg/ animal BNT162a1		Mean SD N %Diff	158.37 27.58 3 30.5	72.50 1.15 3 -20.3	344.87 40.45 3 -18.0	13.27 9.35 3 306.1	213.67 5.06 3 -7.1
Group 4: 30 µg/ animal BNT162b1		Mean SD N %Diff	134.57 23.73 3 10.9	108.27 26.68 3 19.0	504.70 112.68 3 20.0	3.67 0.61 3 12.2	253.23 35.48 3 10.1

[a] - Anova & Dunnett  
[a1] - Anova & Dunnett(Rank)

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-1 Cytokine Levels - Summary

Day: 15 Relative to Start Date (6 h pa)		Cytokine Levels					
Sex: Female		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)	
Group 5: 100 µg/ animal	Mean SD N	133.50 8.85 3	97.77 18.01 3	[a] 7.5	488.37 138.53 3	[a] 12.20 3	277.20 66.15 3
BNT162b1	%Diff	10.0					
Group 7: 100 µg/ animal	Mean SD N	112.23 13.20 3	64.93 16.36 3	16.1	314.80 106.20 3	481.6 9.11 3	20.5 186.23 55.96 3
BNT162b2	%Diff	-7.5	-28.6	-25.1	-248.0	-19.1	

[a] - Anova &amp; Dunnett: \* = p ≤ 0.05

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RNA Platforms encoding for Viral Proteins

TABLE 9-1      Cytokine Levels - Summary

		Day: 17 Relative to Start Date (48h pa)					
Sex: Female		Cytokine Levels					
		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-8 (pg/mL)	IL-10 (pg/mL)
Group 1: Control		[a] 32.37 Mean SD N 3	[a] 20.03 22.40 3	[a] 77.83 112.99 3	[a] 3.00 0.00 3	[a] 45.87 62.30 3	
Group 2: 30 µg/ animal BNT162a1		143.07* 28.57 3 342.0	26.20 33.08 3 30.8	97.60 147.22 3 25.4	6.10 5.37 3 103.3	91.10 140.64 3 98.6	
Group 3: 10 µg/ animal BNT162a1		68.70 36.25 3 %Diff 112.3	7.10 0.00 3 -64.6	12.60 0.00 3 -83.8	3.00 0.00 3 0.0	9.90 0.00 3 -78.4	
Group 4: 30 µg/ animal BNT162b1		14.73 18.59 3 %Diff -54.5	7.10 0.00 3 -64.6	12.60 0.00 3 -83.8	3.00 0.00 3 0.0	9.90 0.00 3 -78.4	

[a] - Anova & Dunnett(Log): \* = p ≤ 0.05  
[a] - Anova & Dunnett(Rank)

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-1      Cytokine Levels - Summary

		Day: 17 Relative to Start Date (48h pa)					
Sex: Female		Cytokine Levels					
		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)	
Group 5: 100 µg/ animal	Mean SD N	10.43 9.87 3	11.40 6.60 3	[a] 24.87 19.54 3	[a] 3.00 0.00 3	[a] 9.90 0.00 3	
BNT162b1	%Diff	-67.8	-43.1	-68.1	0.0	-78.4	
Group 7: 100 µg/ animal	Mean SD N	4.70 0.82 3	7.10 0.00 3	12.60 0.00 3	3.00 0.00 3	9.90 0.00 3	
BNT162b2	%Diff	-85.5	-64.6	-83.8	0.0	-78.4	

[a] - Anova & Dunnett

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-1      Cytokine Levels - Summary

Page	Day	Group	Sex	Measurement	Comments and Markers	
					Marker	Comment
1	(PreDs)	2	Male	IL-1beta	*	Anova & Dunnett(Rank): * = p ≤ 0.05
1	(PreDs)	2	Male	IL-6	n	Anova & Dunnett(Rank): n - Inappropriate for statistics
1	(PreDs)	2	Male	IL-10	n	Anova & Dunnett(Rank): n - Inappropriate for statistics
1	(PreDs)	3	Male	IL-6	n	Anova & Dunnett(Rank): n - Inappropriate for statistics
1	(PreDs)	3	Male	IL-10	n	Anova & Dunnett(Rank): n - Inappropriate for statistics
1	(PreDs)	4	Male	IL-6	n	Anova & Dunnett(Rank): n - Inappropriate for statistics
1	(PreDs)	4	Male	IL-10	n	Anova & Dunnett(Rank): n - Inappropriate for statistics
1	(PreDs)	5	Male	IL-6	n	Anova & Dunnett: n - Inappropriate for statistics
1	(PreDs)	5	Male	IL-10	n	Anova & Dunnett: n - Inappropriate for statistics
1	(PreDs)	6	Male	IL-6	n	Anova & Dunnett: n - Inappropriate for statistics
1	(PreDs)	6	Male	IL-10	n	Anova & Dunnett: n - Inappropriate for statistics
1	(PreDs)	7	Male	IL-6	n	Anova & Dunnett: n - Inappropriate for statistics
1	(PreDs)	7	Male	IL-10	n	Anova & Dunnett: n - Inappropriate for statistics
1	(6 h pa)	3	Male	IL-6	*	Anova & Dunnett(Rank): * = p ≤ 0.05
1	(6 h pa)	6	Male	IL-6	*	Anova & Dunnett: * = p ≤ 0.05
8	(PreDs)	3	Male	TNF-alpha	*	Anova & Dunnett(Rank): * = p ≤ 0.05
8	(PreDs)	3	Male	IL-1beta	*	Anova & Dunnett(Rank): * = p ≤ 0.05
8	(PreDs)	7	Male	IL-1beta	*	Anova & Dunnett: * = p ≤ 0.05
10	(48h pa)	6	Male	IFN-gamma	n	Anova & Dunnett: n - Inappropriate for statistics
10	(48h pa)	6	Male	TNF-alpha	n	Anova & Dunnett: n - Inappropriate for statistics
10	(48h pa)	6	Male	IL-1beta	n	Anova & Dunnett: n - Inappropriate for statistics
10	(48h pa)	6	Male	IL-6	n	Anova & Dunnett: n - Inappropriate for statistics
10	(48h pa)	6	Male	IL-10	n	Anova & Dunnett: n - Inappropriate for statistics
15	(6 h pa)	2	Male	IFN-gamma	*	Anova & Dunnett: * = p ≤ 0.05
15	(6 h pa)	3	Male	IL-6	**	Anova & Dunnett: ** = p ≤ 0.01
15	(6 h pa)	5	Male	IL-6	**	Anova & Dunnett: ** = p ≤ 0.01
17	(48h pa)	2	Male	IFN-gamma	*	Anova & Dunnett: * = p ≤ 0.05

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RNA Platforms encoding for Viral Proteins

TABLE 9-1      Cytokine Levels - Summary

Page	Day	Group	Sex	Measurement	Comments and Markers	
					Marker	Comment
	1 (PreDs)	2	Female	IL-6	n	Anova & Dunnett(Rank): n - Inappropriate for statistics
	1 (PreDs)	3	Female	IL-6	n	Anova & Dunnett(Rank): n - Inappropriate for statistics
	1 (PreDs)	4	Female	IL-6	n	Anova & Dunnett(Rank): n - Inappropriate for statistics
	1 (PreDs)	5	Female	IL-6	n	Anova & Dunnett(Rank): n - Inappropriate for statistics
	1 (PreDs)	6	Female	IL-6	n	Anova & Dunnett: n - Inappropriate for statistics
	1 (PreDs)	7	Female	IL-6	n	Anova & Dunnett: n - Inappropriate for statistics
	8 (PreDs)	2	Female	IL-6	n	Anova & Dunnett(Rank): n - Inappropriate for statistics
	8 (PreDs)	3	Female	IL-6	n	Anova & Dunnett(Rank): n - Inappropriate for statistics
	8 (PreDs)	4	Female	IL-6	n	Anova & Dunnett(Rank): n - Inappropriate for statistics
	8 (PreDs)	5	Female	IL-6	n	Anova & Dunnett: n - Inappropriate for statistics
	8 (PreDs)	6	Female	IL-6	n	Anova & Dunnett: n - Inappropriate for statistics
	8 (PreDs)	7	Female	IL-6	n	Anova & Dunnett: n - Inappropriate for statistics
	8 (6 h pa)	6	Female	IFN-gamma	**	Anova & Dunnett: ** = p ≤ 0.01
	10 (48h pa)	6	Female	IFN-gamma	n	Anova & Dunnett: n - Inappropriate for statistics
	10 (48h pa)	6	Female	TNF-alpha	n	Anova & Dunnett: n - Inappropriate for statistics
	10 (48h pa)	6	Female	IL-1beta	n	Anova & Dunnett: n - Inappropriate for statistics
	10 (48h pa)	6	Female	IL-6	n	Anova & Dunnett: n - Inappropriate for statistics
	10 (48h pa)	6	Female	IL-10	n	Anova & Dunnett: n - Inappropriate for statistics
	15 (6 h pa)	5	Female	IL-6	*	Anova & Dunnett: * = p ≤ 0.05
	17 (48h pa)	2	Female	IFN-gamma	*	Anova & Dunnett(Log): * = p ≤ 0.05

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TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 1 Relative to Start Date (PreDs)	Cytokine Levels				Rat
Group 1: Control		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
211	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !	
212	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !	
213	13.7	7.1 !	12.6 !	3.0 !	9.9 !	
Mean	7.23	7.10	12.60	3.00	9.90	
SD	5.60	0.00	0.00	0.00	0.00	
N	3	3	3	3	3	

! = Result Comment

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RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 1 Relative to Start Date (PreDs)	Cytokine Levels				Rat
Group 2: 30 µg/ animal BNT162a1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
217	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !	
218	4.0 !	14.7	15.1	3.0 !	9.9 !	
219	4.0 !	24.7	59.9	3.0 !	9.9 !	
Mean	4.00	15.50	29.20	3.00	9.90	
SD	0.00	8.83	26.62	0.00	0.00	
N	3	3	3	3	3	

! = Result Comment

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RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 1 Relative to Start Date (PreDs)	Cytokine Levels				Rat
Group 3: 10 µg/ animal		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
223	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !	
224	22.7	7.1 !	12.6 !	3.0 !	9.9 !	
225	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !	
Mean	10.23	7.10	12.60	3.00	9.90	
SD	10.80	0.00	0.00	0.00	0.00	
N	3	3	3	3	3	

! = Result Comment

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RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 1 Relative to Start Date (PreDs)	Cytokine Levels				Rat
Group 4: 30 µg/ animal BNT162b1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
229	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !	
230	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !	
231	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !	
Mean	4.00	7.10	12.60	3.00	9.90	
SD	0.00	0.00	0.00	0.00	0.00	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 1 Relative to Start Date (PreDs)	Cytokine Levels				Rat
Group 5: 100 µg/ animal BNT162b1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
235	4.0 !		7.1 !	12.6 !	3.0 !	9.9 !
236	4.8		7.1 !	12.6 !	3.0 !	9.9 !
237	4.0 !		7.1 !	12.6 !	3.0 !	9.9 !
Mean	4.27		7.10	12.60	3.00	9.90
SD	0.46		0.00	0.00	0.00	0.00
N	3		3	3	3	3

!= Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2 Cytokine Levels - Individual Data

Sex: Male	Day: 1 Relative to Start Date (PreDs)	Cytokine Levels				Rat
Group 6: 30 µg/ animal		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
241	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !	
242	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !	
243	14.6	7.1 !	12.6 !	3.0 !	9.9 !	
Mean	7.53	7.10	12.60	3.00	9.90	
SD	6.12	0.00	0.00	0.00	0.00	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 1 Relative to Start Date (PreDs)	Cytokine Levels				
Group 7: 100 µg/ animal BNT162b2		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
247	8.7	7.1 !	12.6 !	3.0 !	9.9 !	
248	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !	
249	4.0 !	7.9	12.6 !	3.0 !	9.9 !	
Mean	5.57	7.37	12.60	3.00	9.90	
SD	2.71	0.46	0.00	0.00	0.00	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 1 Relative to Start Date (6 h pa)	Cytokine Levels				Rat
Group 1: Control		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
211	93.5	60.8	316.2	8.2	149.9	
212	96.2	54.8	255.1	6.9	140.0	
213	107.8	82.7	478.5	21.9	347.2	
Mean	99.17	66.10	349.93	12.33	212.37	
SD	7.60	14.69	115.46	8.31	116.87	
N	3	3	3	3	3	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 1 Relative to Start Date (6 h pa)	Cytokine Levels				Rat
Group 2: 30 µg/ animal BNT162a1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
217	148.7	88.0	505.9	11.9	304.4	
218	136.5	106.3	552.2	5.5	99.9	
219	85.2	68.3	335.6	3.0 !	69.5	
Mean	123.47	87.53	464.57	6.80	157.93	
SD	33.70	19.00	114.06	4.59	127.75	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 1 Relative to Start Date (6 h pa)	Cytokine Levels			
Group 3: 10 µg/ animal BNT162a1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)
223	83.1	54.9	286.5	3.0 !	149.3
224	62.0	35.9	176.6	3.0 !	122.6
225	95.3	57.2	289.6	3.0 !	171.4
Mean	80.13	49.33	250.90	3.00	147.77
SD	16.85	11.69	64.36	0.00	24.44
N	3	3	3	3	3

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2 Cytokine Levels - Individual Data

Sex: Male	Day: 1 Relative to Start Date (6 h pa)	Cytokine Levels				Rat
Group 4: 30 µg/ animal BNT162b1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
229	94.8	63.4	338.3	9.6	153.5	
230	80.3	71.9	389.4	10.4	231.1	
231	72.1	58.0	314.7	7.6	187.7	
Mean	82.40	64.43	347.47	9.20	190.77	
SD	11.49	7.01	38.18	1.44	38.89	
N	3	3	3	3	3	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 1 Relative to Start Date (6 h pa)	Cytokine Levels				Rat
Group 5: 100 µg/ animal BNT162b1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
235	87.3	51.7	279.8	3.0 !	180.4	
236	107.3	73.4	370.4	4.2	193.1	
237	83.1	43.1	210.0	3.0 !	118.9	
Mean	92.57	56.07	286.73	3.40	164.13	
SD	12.93	15.61	80.42	0.69	39.68	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 1 Relative to Start Date (6 h pa)	Cytokine Levels			
Group 6: 30 µg/ animal		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)
241	90.4	32.6	143.3	3.0 !	97.9
242	93.6	57.5	240.3	3.0 !	180.3
243	84.0	74.8	324.5	3.0 !	257.3
Mean	89.33	54.97	236.03	3.00	178.50
SD	4.89	21.21	90.68	0.00	79.72
N	3	3	3	3	3

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 1 Relative to Start Date (6 h pa)	Cytokine Levels				Rat
		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	
Group 7: 100 µg/ animal BNT162b2						
247	107.6	75.9	416.4	16.1	229.1	
248	92.2	48.1	237.8	3.0 !	152.7	
249	74.2	54.6	202.4	3.0 !	73.3	
Mean	91.33	59.53	285.53	7.37	151.70	
SD	16.72	14.54	114.71	7.56	77.90	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 8 Relative to Start Date (PreDs)	Cytokine Levels				Rat
Group 1: Control		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
211	90.7	71.5	349.6	3.0 !	279.9	
212	107.4	94.6	476.5	7.6	408.8	
213	131.2	111.3	516.5	33.1	408.1	
Mean	109.77	92.47	447.53	14.57	365.60	
SD	20.35	19.99	87.14	16.21	74.22	
N	3	3	3	3	3	

!= Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 8 Relative to Start Date (PreDs)	Cytokine Levels				Rat
Group 2: 30 µg/ animal BNT162a1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
217	71.3	80.5	446.1	7.8	317.2	
218	101.9	113.0	614.3	9.2	448.5	
219	4.0 !	60.2	237.9	3.0 !	9.9 !	
Mean	59.07	84.57	432.77	6.67	258.53	
SD	50.08	26.63	188.55	3.25	225.11	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 8 Relative to Start Date (PreDs)	Cytokine Levels				Rat
Group 3: 10 µg/ animal BNT162a1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
223	7.3	7.1 !	7.1 !	12.6 !	3.0 !	9.9 !
224	4.9	7.1 !	10.5	12.6 !	3.0 !	9.9 !
225	35.5			19.0	3.0 !	9.9 !
Mean	15.90	8.23	14.73	3.00	9.90	
SD	17.02	1.96	3.70	0.00	0.00	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 8 Relative to Start Date (PreDs)	Cytokine Levels				Rat
		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	
Group 4: 30 µg/ animal BNT162b1						
229	4.0 !		7.1 ! 7.1 ! 52.2	12.6 ! 12.6 ! 255.0	3.0 ! 3.0 ! 3.0 !	9.9 ! 9.9 ! 186.2
230	4.5					
231	57.8					
Mean	22.10	22.13	93.40	3.00	68.67	
SD	30.92	26.04	139.95	0.00	101.79	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 8 Relative to Start Date (PreDs)	Cytokine Levels				Rat
Group 5: 100 µg/ animal BNT162b1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
235	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !	
236	126.9	103.5	475.6	16.5	345.8	
237	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !	
Mean	44.97	39.23	166.93	7.50	121.87	
SD	70.96	55.66	267.31	7.79	193.93	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 8 Relative to Start Date (PreDs)	Cytokine Levels				Rat
Group 6: 30 µg/ animal BNT162c1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
241	33.9	21.0	88.8	3.0 !	35.0	
242	4.0 !	14.3	48.4	3.0 !	9.9 !	
243	4.0 !	14.3	38.7	3.0 !	9.9 !	
Mean	13.97	16.53	58.63	3.00	18.27	
SD	17.26	3.87	26.57	0.00	14.49	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 8 Relative to Start Date (PreDs)	Cytokine Levels				Rat
		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
Group 7: 100 µg/ animal BNT162b2						
247	49.8	36.6	127.3	3.0 !	68.0	
248	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !	
249	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !	
Mean	19.27	16.93	50.83	3.00	29.27	
SD	26.44	17.03	66.22	0.00	33.54	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 8 Relative to Start Date (6 h pa)	Cytokine Levels				Rat
Group 1: Control		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
211	80.1	47.1	228.7	3.0 !	179.5	
212	74.0	42.6	183.4	3.0 !	140.1	
213	111.2	80.7	395.1	7.5	340.6	
Mean	88.43	56.80	269.07	4.50	220.07	
SD	19.95	20.82	111.47	2.60	106.23	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 8 Relative to Start Date (6 h pa)	Cytokine Levels				Rat
		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
Group 2: 30 µg/ animal BNT162a1						
217	116.1	59.1	297.4	3.0 !	192.6	
218	137.7	73.0	379.8	3.0 !	248.1	
219	97.3	95.4	455.6	3.0 !	134.3	
Mean	117.03	75.83	377.60	3.00	191.67	
SD	20.22	18.32	79.12	0.00	56.91	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 8 Relative to Start Date (6 h pa)	Cytokine Levels				Rat
Group 3: 10 µg/ animal BNT162a1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
223	139.0	78.2	446.4	16.8	238.2	
224	85.6	44.2	231.9	3.0 !	157.3	
225	103.6	62.2	354.7	7.5	205.1	
Mean	109.40	61.53	344.33	9.10	200.20	
SD	27.17	17.01	107.63	7.04	40.67	
N	3	3	3	3	3	

!= Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 8 Relative to Start Date (6 h pa)	Cytokine Levels				Rat
Group 4: 30 µg/ animal BNT162b1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
229	58.8	37.7	188.8	3.0 !	9.9 !	
230	62.8	56.0	290.3	3.0 !	179.8	
231	48.2	29.9	145.4	3.0 !	63.4	
Mean	56.60	41.20	208.17	3.00	84.37	
SD	7.54	13.40	74.37	0.00	86.87	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 8 Relative to Start Date (6 h pa)	Cytokine Levels				Rat
Group 5: 100 µg/ animal BNT162b1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
235	112.4	73.3	394.3	16.3	246.7	
236	135.7	77.9	450.5	23.9	236.0	
237	116.3	47.3	250.0	3.0 !	157.2	
Mean	121.47	66.17	364.93	14.40	213.30	
SD	12.48	16.50	103.43	10.58	48.88	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 8 Relative to Start Date (6 h pa)	Cytokine Levels				
Group 6: 30 µg/ animal BNT162c1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
241	109.8	49.2	261.2	3.0 !	164.4	
242	151.8	62.2	321.2	5.9	149.2	
243	70.8	54.3	294.0	5.4	164.3	
Mean	110.80	55.23	292.13	4.77	159.30	
SD	40.51	6.55	30.04	1.55	8.75	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 8 Relative to Start Date (6 h pa)	Cytokine Levels				
Group 7: 100 µg/ animal BNT162b2		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
247	98.4	69.7	412.4	16.8	254.7	
248	85.7	51.3	270.8	3.0 !	141.8	
249	92.5	42.8	190.2	3.0 !	71.5	
Mean	92.20	54.60	291.13	7.60	156.00	
SD	6.36	13.75	112.49	7.97	92.42	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 10 Relative to Start Date (48h pa)	Cytokine Levels				Rat
Group 6: 30 µg/ animal BNT162c1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
241	116.3	57.7	342.9	3.0 !	120.5	
242	43.5	7.1 !	12.6 !	3.0 !	9.9 !	
243	5.1	13.7	43.3	3.0 !	9.9 !	
Mean	54.97	26.17	132.93	3.00	46.77	
SD	56.48	27.51	182.48	0.00	63.85	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 15 Relative to Start Date (PreDs)	Cytokine Levels				Rat
Group 1: Control		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
211	130.6	105.4	463.0	3.0 !	283.1	
212	109.6	87.9	331.9	3.0 !	242.7	
213	14.5	7.1 !	12.6 !	3.0 !	9.9 !	
Mean	84.90	66.80	269.17	3.00	178.57	
SD	61.87	52.44	231.66	0.00	147.46	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 15 Relative to Start Date (PreDs)	Cytokine Levels				Rat
Group 2: 30 µg/ animal BNT162a1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
217	6.9	7.1 !	12.6 !	3.0 !	9.9 !	
218	146.6	167.2	772.0	7.9	483.6	
219	13.4	89.3	304.3	3.0 !	9.9 !	
Mean	55.63	87.87	362.97	4.63	167.80	
SD	78.85	80.06	383.08	2.83	273.49	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 15 Relative to Start Date (PreDs)	Cytokine Levels				Rat
Group 3: 10 µg/ animal		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
223	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !	
224	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !	
225	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !	
Mean	4.00	7.10	12.60	3.00	9.90	
SD	0.00	0.00	0.00	0.00	0.00	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 15 Relative to Start Date (PreDs)	Cytokine Levels					Rat
		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)	
Group 4: 30 µg/ animal BNT162b1							
229	37.2	11.1	12.6 !	3.0 !	9.9 !		
230	93.2	89.1	412.5	3.0 !	223.2		
231	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !		
Mean	44.80	35.77	145.90	3.00	81.00		
SD	45.08	46.23	230.88	0.00	123.15		
N	3	3	3	3	3		

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 15 Relative to Start Date (PreDs)	Cytokine Levels				Rat
Group 5: 100 µg/ animal BNT162b1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
235	92.7	75.2	362.0	17.7	246.9	
236	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !	
237	126.9	99.5	532.2	24.6	325.4	
Mean	74.53	60.60	302.27	15.10	194.07	
SD	63.43	47.90	264.90	11.03	164.25	
N	3	3	3	3	3	

!= Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2

Cytokine Levels - Individual Data

Sex: Male	Day: 15 Relative to Start Date (PreDs)	Cytokine Levels				
		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
Group 7: 100 µg/ animal BNT162b2						
247	69.9	41.2	146.6	3.0 !	101.8	
248	6.1	8.1	12.6 !	3.0 !	9.9 !	
249	27.3	9.2	12.6 !	3.0 !	9.9 !	
Mean	34.43	19.50	57.27	3.00	40.53	
SD	32.49	18.80	77.36	0.00	53.06	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 15 Relative to Start Date (6 h pa)	Cytokine Levels				Rat
Group 1: Control		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
211	124.7	67.4	302.0	3.0 !	203.8	
212	101.5	55.5	288.9	3.0 !	157.6	
213	149.8	124.0	554.4	4.6	354.5	
Mean	125.33	82.30	381.77	3.53	238.63	
SD	24.16	36.60	149.65	0.92	102.97	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 15 Relative to Start Date (6 h pa)	Cytokine Levels				Rat
		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	
Group 2: 30 µg/ animal BNT162a1						
217	230.7	91.6	419.3	3.0 !	260.3	
218	164.0	104.4	493.5	3.0 !	265.8	
219	177.7	142.4	586.6	3.0 !	286.1	
Mean	190.80	112.80	499.80	3.00	270.73	
SD	35.23	26.42	83.83	0.00	13.59	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 15 Relative to Start Date (6 h pa)	Cytokine Levels				
Group 3: 10 µg/ animal BNT162a1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
223	116.8	64.0	301.3	15.6	196.2	
224	183.6	72.6	318.6	12.8	191.8	
225	166.4	98.8	525.8	26.4	288.7	
Mean	155.60	78.47	381.90	18.27	225.57	
SD	34.68	18.13	124.92	7.18	54.72	
N	3	3	3	3	3	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 15 Relative to Start Date (6 h pa)	Cytokine Levels					Rat
		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)	
Group 4: 30 µg/ animal BNT162b1							
229	135.9	102.5	477.2	6.6	181.6		
230	133.5	130.3	597.4	6.5	357.5		
231	102.8	75.6	339.6	3.0 !	163.4		
Mean	124.07	102.80	471.40	5.37	234.17		
SD	18.46	27.35	129.00	2.05	107.20		
N	3	3	3	3	3		

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 15 Relative to Start Date (6 h pa)	Cytokine Levels				Rat
Group 5: 100 µg/ animal BNT162b1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
235	140.2	83.2	395.2	23.7	273.6	
236	159.2	78.5	349.4	24.2	220.3	
237	166.4	65.9	314.5	12.4	207.5	
Mean	155.27	75.87	353.03	20.10	233.80	
SD	13.54	8.95	40.47	6.67	35.06	
N	3	3	3	3	3	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2

Cytokine Levels - Individual Data

Sex: Male	Day: 15 Relative to Start Date (6 h pa)	Cytokine Levels				Rat
Group 7: 100 µg/ animal BNT162b2		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
247	92.3	49.2	197.1	12.4	165.7	
248	139.5	73.1	332.4	13.8	201.5	
249	128.0	66.5	285.4	8.2	130.2	
Mean	119.93	62.93	271.63	11.47	165.80	
SD	24.61	12.34	68.69	2.91	35.65	
N	3	3	3	3	3	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 17 Relative to Start Date (48h pa)	Cytokine Levels					Rat
		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)	
Group 1: Control							
211	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !		
212	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !		
213	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !		
Mean	4.00	7.10	12.60	3.00	9.90		
SD	0.00	0.00	0.00	0.00	0.00		
N	3	3	3	3	3		

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 17 Relative to Start Date (48h pa)	Cytokine Levels				Rat
Group 2: 30 µg/ animal BNT162a1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
217	94.9	16.7	29.8	3.0 !	9.9 !	
218	111.5	7.1 !	12.6 !	3.0 !	9.9 !	
219	127.1	51.8	167.1	3.0 !	9.9 !	
Mean	111.17	25.20	69.83	3.00	9.90	
SD	16.10	23.53	84.67	0.00	0.00	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 17 Relative to Start Date (48h pa)	Cytokine Levels				Rat
Group 3: 10 µg/ animal BNT162a1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
223	22.9	7.1 !	7.1 !	12.6 !	3.0 !	9.9 !
224	137.0	7.1 !	7.1 !	12.6 !	3.0 !	9.9 !
225	91.7	7.1 !	7.1 !	12.6 !	3.0 !	9.9 !
Mean	83.87	7.10	12.60	3.00	9.90	
SD	57.45	0.00	0.00	0.00	0.00	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 17 Relative to Start Date (48h pa)	Cytokine Levels			
Group 4: 30 µg/ animal BNT162b1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)
229	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !
230	85.6	111.7	503.1	17.5	114.3
231	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !
Mean	31.20	41.97	176.10	7.83	44.70
SD	47.11	60.39	283.19	8.37	60.28
N	3	3	3	3	3

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 17 Relative to Start Date (48h pa)	Cytokine Levels				
Group 5: 100 µg/ animal BNT162b1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
235	4.0 !		7.1 !	12.6 !	3.0 !	9.9 !
236	4.0 !		16.5	41.7	3.0 !	9.9 !
237	4.0 !		7.1 !	12.6 !	3.0 !	9.9 !
Mean	4.00		10.23	22.30	3.00	9.90
SD	0.00		5.43	16.80	0.00	0.00
N	3		3	3	3	3

!= Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Male	Day: 17 Relative to Start Date (48h pa)	Cytokine Levels				
Group 7: 100 µg/ animal BNT162b2		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
247	110.2	99.8	547.6	16.2	299.7	
248	4.0 ! 15.3	15.0 18.4	23.1 72.0	3.0 ! 3.0 !	9.9 ! 9.9 !	
Mean	43.17	44.40	214.23	7.40	106.50	
SD	58.33	48.01	289.74	7.62	167.32	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2

Cytokine Levels - Individual Data

Sex: Female	Day: 1 Relative to Start Date (PreDs)	Cytokine Levels				Rat
Group 1: Control		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
214	4.0 !		7.1 !	12.6 !	3.0 !	9.9 !
215	84.0	54.4	24.2	271.0	3.0 !	195.9
216	4.0 !			73.4	3.0 !	9.9 !
Mean	30.67	28.57	119.00	3.00	71.90	
SD	46.19	23.95	135.10	0.00	107.39	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2

Cytokine Levels - Individual Data

Sex: Female	Day: 1 Relative to Start Date (PreDs)	Cytokine Levels				Rat
Group 2: 30 µg/ animal		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
220	4.0 !		7.1 !	12.6 !	3.0 !	9.9 !
221	4.0 !		7.1 !	12.6 !	3.0 !	9.9 !
222	4.0 !		7.1 !	12.6 !	3.0 !	9.9 !
Mean	4.00		7.10	12.60	3.00	9.90
SD	0.00		0.00	0.00	0.00	0.00
N	3		3	3	3	3

!= Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 1 Relative to Start Date (PreDs)	Cytokine Levels				
Group 3: 10 µg/ animal		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
226	19.3	9.8	12.6 !	3.0 !	9.9 !	
227	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !	
228	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !	
Mean	9.10	8.00	12.60	3.00	9.90	
SD	8.83	1.56	0.00	0.00	0.00	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2

Cytokine Levels - Individual Data

Sex: Female	Day: 1 Relative to Start Date (PreDs)	Cytokine Levels				Rat
		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
Group 4: 30 µg/ animal BNT162b1						
232	4.0 !		7.1 !	12.6 !	3.0 !	9.9 !
233	4.0 !		7.1 !	12.6 !	3.0 !	9.9 !
234	16.6	7.1 !	12.6 !	12.6 !	3.0 !	9.9 !
Mean	8.20		7.10	12.60	3.00	9.90
SD	7.27		0.00	0.00	0.00	0.00
N	3		3	3	3	3

!= Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 1 Relative to Start Date (PreDs)	Cytokine Levels					Rat
		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)	
Group 5: 100 µg/ animal BNT162b1							
238	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !		
239	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !		
240	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !		
Mean	4.00	7.10	12.60	3.00	9.90		
SD	0.00	0.00	0.00	0.00	0.00		
N	3	3	3	3	3		

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 1 Relative to Start Date (PreDs)	Cytokine Levels					Rat
		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)	
Group 6: 30 µg/ animal BNT162c1							
244	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !		
245	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !		
246	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !		
Mean	4.00	7.10	12.60	3.00	9.90		
SD	0.00	0.00	0.00	0.00	0.00		
N	3	3	3	3	3		

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 1 Relative to Start Date (PreDs)	Cytokine Levels				Rat
Group 7: 100 µg/ animal BNT162b2		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
250	4.5	7.1 !	7.1 !	12.6 !	3.0 !	9.9 !
251	4.0 !	7.1 !	41.1	12.6 !	3.0 !	9.9 !
252	57.6	41.1	151.2	3.0 !	3.0 !	110.4
Mean	22.03	18.43	58.80	3.00	43.40	
SD	30.80	19.63	80.02	0.00	58.02	
N	3	3	3	3	3	

!= Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 1 Relative to Start Date (6 h pa)	Cytokine Levels				Rat
Group 1: Control		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
214	77.0	38.9	190.9	3.4	83.6	
215	92.3	60.5	291.2	4.5	237.6	
216	90.2	98.1	555.0	9.4	182.9	
Mean	86.50	65.83	345.70	5.77	168.03	
SD	8.29	29.96	188.07	3.19	78.07	
N	3	3	3	3	3	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 1 Relative to Start Date (6 h pa)	Cytokine Levels				
Group 2: 30 µg/ animal		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
220	100.2	41.9	195.6	3.9	40.5	
221	63.8	35.2	166.8	3.0 !	47.2	
222	129.6	63.4	376.1	11.3	166.3	
Mean	97.87	46.83	246.17	6.07	84.67	
SD	32.96	14.73	113.44	4.55	70.78	
N	3	3	3	3	3	

!= Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 1 Relative to Start Date (6 h pa)	Cytokine Levels				Rat
Group 3: 10 µg/ animal BNT162a1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
226	71.9	55.0	270.3	3.0 !	103.9	
227	108.9	60.1	318.3	3.0 !	145.4	
228	78.4	38.0	194.0	3.0 !	94.8	
Mean	86.40	51.03	260.87	3.00	114.70	
SD	19.75	11.57	62.68	0.00	26.97	
N	3	3	3	3	3	

!= Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2

Cytokine Levels - Individual Data

Sex: Female	Day: 1 Relative to Start Date (6 h pa)	Cytokine Levels				
Group 4: 30 µg/ animal BNT162b1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
232	81.7	48.5	230.7	3.0 !	146.2	
233	41.0	37.6	185.8	3.3	101.2	
234	97.4	54.1	289.9	10.2	150.3	
Mean	73.37	46.73	235.47	5.50	132.57	
SD	29.11	8.39	52.21	4.07	27.24	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 1 Relative to Start Date (6 h pa)	Cytokine Levels				Rat
Group 5: 100 µg/ animal BNT162b1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
238	67.0	34.3	168.3	3.0 !	76.6	
239	81.2	43.2	233.5	3.0 !	128.8	
240	58.2	36.6	172.5	3.0 !	66.9	
Mean	68.80	38.03	191.43	3.00	90.77	
SD	11.61	4.62	36.49	0.00	33.29	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 1 Relative to Start Date (6 h pa)	Cytokine Levels				Rat
Group 6: 30 µg/ animal BNT162c1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
244	103.8	60.7	291.7	3.0 !	227.0	
245	93.2	63.2	288.8	6.8	162.8	
246	116.0	77.2	313.8	3.0 !	237.9	
Mean	104.33	67.03	298.10	4.27	209.23	
SD	11.41	8.89	13.67	2.19	40.58	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 1 Relative to Start Date (6 h pa)	Cytokine Levels				Rat
Group 7: 100 µg/ animal BNT162b2		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
250	99.6	65.9	345.8	4.3	237.8	
251	78.6	45.0	223.7	3.0 !	173.1	
252	86.1	47.6	235.2	3.0 !	135.2	
Mean	88.10	52.83	268.23	3.43	182.03	
SD	10.64	11.39	67.42	0.75	51.88	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 8 Relative to Start Date (PreDs)	Cytokine Levels				Rat
Group 1: Control		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
214	4.0 !		7.1 !	12.6 !	3.0 !	9.9 !
215	60.1		24.2	119.9	3.0 !	33.6
216	5.7		7.1 !	12.6 !	3.0 !	9.9 !
Mean	23.27		12.80	48.37	3.00	17.80
SD	31.91		9.87	61.95	0.00	13.68
N	3		3	3	3	3

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2

Cytokine Levels - Individual Data

Sex: Female	Day: 8 Relative to Start Date (PreDs)	Cytokine Levels				Rat
Group 2: 30 µg/ animal		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
220	84.4	68.2	355.3	3.0 !	203.1	
221	4.6	7.1 !	12.6 !	3.0 !	9.9 !	
222	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !	
Mean	31.00	27.47	126.83	3.00	74.30	
SD	46.25	35.28	197.86	0.00	111.54	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 8 Relative to Start Date (PreDs)	Cytokine Levels				Rat
Group 3: 10 µg/ animal		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
226	25.4	8.2	23.9	3.0 !	9.9 !	
227	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !	
228	52.2	23.1	88.8	3.0 !	9.9 !	
Mean	27.20	12.80	41.77	3.00	9.90	
SD	24.15	8.94	41.12	0.00	0.00	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 8 Relative to Start Date (PreDs)	Cytokine Levels				Rat
Group 4: 30 µg/ animal BNT162b1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
232	89.7	88.3	421.5	3.0 !	319.0	
233	11.7	7.1 !	12.6 !	3.0 !	9.9 !	
234	61.9	7.1 !	12.6 !	3.0 !	9.9 !	
Mean	54.43	34.17	148.90	3.00	112.93	
SD	39.53	46.88	236.08	0.00	178.46	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2 Cytokine Levels - Individual Data

Sex: Female	Day: 8 Relative to Start Date (PreDs)	Cytokine Levels				Rat
		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	
Group 5: 100 µg/ animal BNT162b1						
238	6.4 4.0 !		7.1 ! 7.1 !	12.6 ! 12.6 !	3.0 ! 3.0 !	9.9 ! 9.9 !
239			93.0	443.7	3.0 !	296.2
240	123.8					
Mean	44.73	35.73	156.30	3.00	105.33	
SD	68.48	49.59	248.90	0.00	165.30	
N	3	3	3	3	3	

!= Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 8 Relative to Start Date (PreDs)	Cytokine Levels				Rat
Group 6: 30 µg/ animal		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
244	5.5	7.1 !	12.6 !	12.6 !	3.0 !	9.9 !
245	19.0	8.3	12.6 !	12.6 !	3.0 !	9.9 !
246	4.0 !	7.1 !	12.6 !	12.6 !	3.0 !	9.9 !
Mean	9.50	7.50	12.60	3.00	9.90	
SD	8.26	0.69	0.00	0.00	0.00	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 8 Relative to Start Date (PreDs)	Cytokine Levels				
Group 7: 100 µg/ animal BNT162b2		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
250	4.0 !		7.1 !	12.6 !	3.0 !	9.9 !
251	5.8		8.1	12.6 !	3.0 !	9.9 !
252	4.0 !		7.1 !	12.6 !	3.0 !	9.9 !
Mean	4.60		7.43	12.60	3.00	9.90
SD	1.04		0.58	0.00	0.00	0.00
N	3		3	3	3	3

!= Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 8 Relative to Start Date (6 h pa)	Cytokine Levels				Rat
Group 1: Control		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
214	86.4	56.6	270.2	3.0 !	183.4	
215	56.9	21.0	98.2	3.0 !	11.5	
216	90.1	53.4	271.7	3.0 !	182.2	
Mean	77.80	43.67	213.37	3.00	125.70	
SD	18.19	19.70	99.74	0.00	98.90	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2

Cytokine Levels - Individual Data

Sex: Female	Day: 8 Relative to Start Date (6 h pa)	Cytokine Levels			
Group 2: 30 µg/ animal BNT162a1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)
220	118.9	50.6	278.1	3.0 !	156.5
221	44.6	15.9	54.0	3.0 !	9.9 !
222	147.8	61.8	329.0	3.0 !	181.1
Mean	103.77	42.77	220.37	3.00	115.83
SD	53.24	23.93	146.31	0.00	92.56
N	3	3	3	3	3

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 8 Relative to Start Date (6 h pa)	Cytokine Levels				Rat
Group 3: 10 µg/ animal BNT162a1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
226	131.2	83.9	503.1	10.1	238.5	
227	140.9	68.7	382.3	8.0	202.7	
228	117.3	59.0	315.3	3.0 !	188.4	
Mean	129.80	70.53	400.23	7.03	209.87	
SD	11.86	12.55	95.18	3.65	25.81	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 8 Relative to Start Date (6 h pa)	Cytokine Levels			
Group 4: 30 µg/ animal BNT162b1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)
232	92.1	58.0	327.0	3.0 !	228.5
233	46.3	34.5	158.3	3.0 !	105.5
234	104.4	61.9	294.7	3.0 !	272.7
Mean	80.93	51.47	260.00	3.00	202.23
SD	30.62	14.82	89.54	0.00	86.64
N	3	3	3	3	3

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 8 Relative to Start Date (6 h pa)	Cytokine Levels				Rat
Group 5: 100 µg/ animal BNT162b1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
238	110.2	81.6	450.5	7.3	245.2	
239	120.5	85.9	495.0	3.0 !	276.9	
240	124.1	65.7	392.3	3.7	199.5	
Mean	118.27	77.73	445.93	4.67	240.53	
SD	7.21	10.64	51.50	2.31	38.91	
N	3	3	3	3	3	

!= Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2 Cytokine Levels - Individual Data

Sex: Female	Day: 8 Relative to Start Date (6 h pa)	Cytokine Levels				Rat
Group 6: 30 µg/ animal BNT162c1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
244	156.6	63.8	364.5	8.1	219.2	
245	152.1	45.4	228.1	3.6	80.5	
246	184.2	71.3	444.4	7.6	237.3	
Mean	164.30	60.17	345.67	6.43	179.00	
SD	17.38	13.33	109.37	2.47	85.78	
N	3	3	3	3	3	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2

Cytokine Levels - Individual Data

Sex: Female	Day: 8 Relative to Start Date (6 h pa)	Cytokine Levels				
Group 7: 100 µg/ animal BNT162b2		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
250	95.8	54.1	297.9	12.4	162.6	
251	144.7	82.0	478.8	8.7	231.6	
252	114.7	68.1	358.6	3.0 !	222.4	
Mean	118.40	68.07	378.43	8.03	205.53	
SD	24.66	13.95	92.07	4.74	37.46	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 10 Relative to Start Date (48h pa)	Cytokine Levels			
Group 6: 30 µg/ animal BNT162c1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)
244	137.0	7.1 !	7.1 !	12.6 !	3.0 !
245	44.9	7.1 !	7.1 !	12.6 !	3.0 !
246	60.1	7.1 !	7.1 !	12.6 !	3.0 !
Mean	80.67	7.10	7.10	12.60	3.00
SD	49.37	0.00	0.00	0.00	0.00
N	3	3	3	3	3

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 15 Relative to Start Date (PreDs)	Cytokine Levels				Rat
Group 1: Control		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
214	4.0 !		7.1 !	12.6 !	3.0 !	9.9 !
215	104.0	64.6		324.5	3.0 !	180.9
216	4.0 !	7.1 !	12.6 !		3.0 !	9.9 !
Mean	37.33	26.27	116.57	3.00	66.90	
SD	57.74	33.20	180.08	0.00	98.73	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 15 Relative to Start Date (PreDs)	Cytokine Levels				Rat
Group 2: 30 µg/ animal BNT162a1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
220	104.0	96.9	382.5	3.0 !	231.6	
221	78.2	66.7	331.4	3.0 !	204.1	
222	56.7	18.0	43.8	3.0 !	9.9 !	
Mean	79.63	60.53	252.57	3.00	148.53	
SD	23.68	39.81	182.59	0.00	120.84	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 15 Relative to Start Date (PreDs)	Cytokine Levels				Rat
Group 3: 10 µg/ animal		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
226	38.1	22.8	67.2	3.0 !	9.9 !	
227	124.7	98.3	459.1	30.7	284.9	
228	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !	
Mean	55.60	42.73	179.63	12.23	101.57	
SD	62.22	48.76	243.56	15.99	158.77	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 15 Relative to Start Date (PreDs)	Cytokine Levels				Rat
Group 4: 30 µg/ animal BNT162b1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
232	23.4	7.1 !	7.1 !	12.6 !	3.0 !	9.9 !
233	4.0 !	7.1 !	7.1 !	12.6 !	3.0 !	9.9 !
234	75.5	7.1 !	12.6 !	12.6 !	3.0 !	9.9 !
Mean	34.30	7.10	12.60	3.00	9.90	
SD	36.98	0.00	0.00	0.00	0.00	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 15 Relative to Start Date (PreDs)	Cytokine Levels				Rat
		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
Group 5: 100 µg/ animal BNT162b1						
238	49.2	7.1 !	7.1 !	12.6 !	3.0 !	9.9 !
239	4.0 !	7.1 !	7.1 !	12.6 !	3.0 !	9.9 !
240	4.0 !	7.1 !	7.1 !	12.6 !	3.0 !	9.9 !
Mean	19.07	7.10	12.60	3.00	9.90	
SD	26.10	0.00	0.00	0.00	0.00	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 15 Relative to Start Date (PreDs)	Cytokine Levels				
Group 7: 100 µg/ animal BNT162b2		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
250	124.4	112.9	586.7	26.1	318.4	
251	14.3	7.1 !	12.6 !	3.0 !	9.9 !	
252	4.2	7.1 !	12.6 !	3.0 !	9.9 !	
Mean	47.63	42.37	203.97	10.70	112.73	
SD	66.67	61.08	331.46	13.34	178.11	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 15 Relative to Start Date (6 h pa)	Cytokine Levels				Rat
Group 1: Control		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
214	139.7	118.6	565.1	3.8	330.2	
215	102.5	59.9	277.7	3.0 !	158.3	
216	121.9	94.4	418.8	3.0 !	201.8	
Mean	121.37	90.97	420.53	3.27	230.10	
SD	18.61	29.50	143.71	0.46	89.38	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 15 Relative to Start Date (6 h pa)	Cytokine Levels			
Group 2: 30 µg/ animal BNT162a1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)
220	236.3	116.3	536.5	3.0 !	255.3
221	133.0	69.8	352.8	3.0 !	196.2
222	187.7	102.5	516.8	3.3	287.6
Mean	185.67	96.20	468.70	3.10	246.37
SD	51.68	23.88	100.85	0.17	46.35
N	3	3	3	3	3

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 15 Relative to Start Date (6 h pa)	Cytokine Levels			
Group 3: 10 µg/ animal BNT162a1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)
226	150.6	73.4	391.2	15.5	211.0
227	189.0	72.9	316.6	21.3	219.5
228	135.5	71.2	326.8	3.0 !	210.5
Mean	158.37	72.50	344.87	13.27	213.67
SD	27.58	1.15	40.45	9.35	5.06
N	3	3	3	3	3

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 15 Relative to Start Date (6 h pa)	Cytokine Levels				Rat
Group 4: 30 µg/ animal BNT162b1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
232	139.1	130.8	595.5	3.0 !	272.3	
233	108.9	78.8	378.6	4.2	212.3	
234	155.7	115.2	540.0	3.8	275.1	
Mean	134.57	108.27	504.70	3.67	253.23	
SD	23.73	26.68	112.68	0.61	35.48	
N	3	3	3	3	3	

!= Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 15 Relative to Start Date (6 h pa)	Cytokine Levels			
Group 5: 100 µg/ animal BNT162b1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)
238	123.7	77.1	328.8	13.4	207.7
239	135.9	106.1	558.4	10.6	284.5
240	140.9	110.1	577.9	33.0	339.4
Mean	133.50	97.77	488.37	19.00	277.20
SD	8.85	18.01	138.53	12.20	66.15
N	3	3	3	3	3

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 15 Relative to Start Date (6 h pa)	Cytokine Levels				Rat
Group 7: 100 µg/ animal BNT162b2		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
250	119.3	81.6	421.2	21.8	247.9	
251	120.4	64.3	314.4	7.3	172.1	
252	97.0	48.9	208.8	5.0	138.7	
Mean	112.23	64.93	314.80	11.37	186.23	
SD	13.20	16.36	106.20	9.11	55.96	
N	3	3	3	3	3	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 17 Relative to Start Date (48h pa)	Cytokine Levels				
Group 1: Control		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
214	4.0 !		7.1 !	12.6 !	3.0 !	9.9 !
215	89.1		45.9	208.3	3.0 !	117.8
216	4.0 !		7.1 !	12.6 !	3.0 !	9.9 !
Mean	32.37		20.03	77.83	3.00	45.87
SD	49.13		22.40	112.99	0.00	62.30
N	3		3	3	3	3

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 17 Relative to Start Date (48h pa)	Cytokine Levels				Rat
Group 2: 30 µg/ animal BNT162a1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
220	169.1	7.1 !	64.4	12.6 !	3.0 !	9.9 !
221	112.5	64.4	267.6	12.3	253.5	
222	147.6	7.1 !	12.6 !	3.0 !	9.9 !	
Mean	143.07	26.20	97.60	6.10	91.10	
SD	28.57	33.08	147.22	5.37	140.64	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 17 Relative to Start Date (48h pa)	Cytokine Levels				
Group 3: 10 µg/ animal BNT162a1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
226	68.6	7.1 !	7.1 !	12.6 !	3.0 !	9.9 !
227	32.5	7.1 !	7.1 !	12.6 !	3.0 !	9.9 !
228	105.0	7.1 !	7.1 !	12.6 !	3.0 !	9.9 !
Mean	68.70	7.10	12.60	3.00	9.90	
SD	36.25	0.00	0.00	0.00	0.00	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 17 Relative to Start Date (48h pa)	Cytokine Levels				
Group 4: 30 µg/ animal BNT162b1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
232	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !	
233	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !	
234	36.2	7.1 !	12.6 !	3.0 !	9.9 !	
Mean	14.73	7.10	12.60	3.00	9.90	
SD	18.59	0.00	0.00	0.00	0.00	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 17 Relative to Start Date (48h pa)	Cytokine Levels				Rat
Group 5: 100 µg/ animal BNT162b1		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
238	21.8	8.1	14.6	3.0 !	9.9 !	
239	5.5	19.0	47.4	3.0 !	9.9 !	
240	4.0 !	7.1 !	12.6 !	3.0 !	9.9 !	
Mean	10.43	11.40	24.87	3.00	9.90	
SD	9.87	6.60	19.54	0.00	0.00	
N	3	3	3	3	3	

! = Result Comment

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 9-2      Cytokine Levels - Individual Data

Sex: Female	Day: 17 Relative to Start Date (48h pa)	Cytokine Levels				
Group 7: 100 µg/ animal BNT162b2		IFN-gamma (pg/mL)	TNF-alpha (pg/mL)	IL-1beta (pg/mL)	IL-6 (pg/mL)	IL-10 (pg/mL)
250	5.6	7.1 !	7.1 !	12.6 !	3.0 !	9.9 !
251	4.0 !	7.1 !	7.1 !	12.6 !	3.0 !	9.9 !
252	4.5	7.1 !	7.1 !	12.6 !	3.0 !	9.9 !
Mean	4.70	7.10	12.60	3.00	9.90	
SD	0.82	0.00	0.00	0.00	0.00	
N	3	3	3	3	3	

! = Result Comment

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RNA Platforms encoding for Viral Proteins

TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Measurement</u>	<u>Type</u> <u>Marker</u>
1 (PreDs)	1	1	Male	211	IFN-gamma	Result
			Male	211	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	Result
1 (PreDs)	1	1	Male	211	TNF-alpha	Result
			Male	211	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	Result
1 (PreDs)	1	1	Male	211	IL-1beta	Result
			Male	211	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	Result
1 (PreDs)	1	1	Male	211	IL-6	Result
			Male	211	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
1 (PreDs)	1	1	Male	211	IL-10	Result
			Male	211	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result
1 (PreDs)	1	1	Male	212	IFN-gamma	Result
			Male	212	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	Result
1 (PreDs)	1	1	Male	212	TNF-alpha	Result
			Male	212	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	Result
1 (PreDs)	1	1	Male	212	IL-1beta	Result
			Male	212	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	Result
1 (PreDs)	1	1	Male	212	IL-6	Result
			Male	212	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
1 (PreDs)	1	1	Male	212	IL-10	Result
			Male	212	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result
1 (PreDs)	1	1	Male	213	TNF-alpha	Result
			Male	213	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	Result
1 (PreDs)	1	1	Male	213	IL-1beta	Result
			Male	213	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	Result
1 (PreDs)	1	1	Male	213	IL-6	Result
			Male	213	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
1 (PreDs)	1	1	Male	213	IL-10	Result
			Male	213	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Measurement</u>	<u>Type</u>
1 (PreDs)	2	Male	217	IFN-gamma	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	Result
1 (PreDs)	2	Male	217	TNF-alpha	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	Result
1 (PreDs)	2	Male	217	IL-1beta	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	Result
1 (PreDs)	2	Male	217	IL-6	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
1 (PreDs)	2	Male	217	IL-10	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result
1 (PreDs)	2	Male	218	IFN-gamma	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	Result
1 (PreDs)	2	Male	218	IL-6	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
1 (PreDs)	2	Male	218	IL-10	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result
1 (PreDs)	2	Male	219	IFN-gamma	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	Result
1 (PreDs)	2	Male	219	IL-6	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
1 (PreDs)	2	Male	219	IL-10	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result
1 (PreDs)	3	Male	223	IFN-gamma	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	Result
1 (PreDs)	3	Male	223	TNF-alpha	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	Result
1 (PreDs)	3	Male	223	IL-1beta	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	Result

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Measurement</u>	<u>Type</u>
1 (PreDs)	3		Male	223	IL-6	Result
1 (PreDs)	3		Male	223	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
1 (PreDs)	3		Male	224	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result
1 (PreDs)	3		Male	224	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	Result
1 (PreDs)	3		Male	224	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	Result
1 (PreDs)	3		Male	224	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
1 (PreDs)	3		Male	224	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result
1 (PreDs)	3		Male	225	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	Result
1 (PreDs)	3		Male	225	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	Result
1 (PreDs)	3		Male	225	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	Result
1 (PreDs)	3		Male	225	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
1 (PreDs)	3		Male	225	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result
1 (PreDs)	4		Male	229	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	Result
1 (PreDs)	4		Male	229	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	Result
1 (PreDs)	4		Male	229	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	Result

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Measurement</u>	<u>Type</u>
1 (PreDs)	4		Male	229	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6 Result
1 (PreDs)	4		Male	229	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10 Result
1 (PreDs)	4		Male	230	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	IFN-gamma Result
1 (PreDs)	4		Male	230	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha Result
1 (PreDs)	4		Male	230	Comment: Value below lowest level of quantification (= 12.6 pg/ml). Set to 12.6 pg/ml for mean value calculation.	IL-1beta Result
1 (PreDs)	4		Male	230	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6 Result
1 (PreDs)	4		Male	230	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10 Result
1 (PreDs)	4		Male	231	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	IFN-gamma Result
1 (PreDs)	4		Male	231	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha Result
1 (PreDs)	4		Male	231	Comment: Value below lowest level of quantification (= 12.6 pg/ml). Set to 12.6 pg/ml for mean value calculation.	IL-1beta Result
1 (PreDs)	4		Male	231	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6 Result
1 (PreDs)	4		Male	231	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10 Result
1 (PreDs)	5		Male	235	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	IFN-gamma Result
1 (PreDs)	5		Male	235	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha Result

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Measurement</u>	<u>Type</u>
1 (PreDs)	5	5	Male	235	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-1beta
1 (PreDs)	5	5	Male	235	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6
1 (PreDs)	5	5	Male	235	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10
1 (PreDs)	5	5	Male	236	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha
1 (PreDs)	5	5	Male	236	Comment: Value below lowest level of quantification (= 12.6 pg/ml). Set to 12.6 pg/ml for mean value calculation.	IL-1beta
1 (PreDs)	5	5	Male	236	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6
1 (PreDs)	5	5	Male	236	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10
1 (PreDs)	5	5	Male	237	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	IFN-gamma
1 (PreDs)	5	5	Male	237	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha
1 (PreDs)	5	5	Male	237	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-1beta
1 (PreDs)	5	5	Male	237	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6
1 (PreDs)	5	5	Male	237	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10
1 (PreDs)	6	6	Male	241	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	IFN-gamma
1 (PreDs)	6	6	Male	241	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Measurement</u>	<u>Type</u>
1 (PreDs)	6	Male	241	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-1beta	Result
1 (PreDs)	6	Male	241	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
1 (PreDs)	6	Male	241	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result
1 (PreDs)	6	Male	242	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	IFN-gamma	Result
1 (PreDs)	6	Male	242	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha	Result
1 (PreDs)	6	Male	242	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-1beta	Result
1 (PreDs)	6	Male	242	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
1 (PreDs)	6	Male	242	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result
1 (PreDs)	6	Male	243	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha	Result
1 (PreDs)	6	Male	243	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-1beta	Result
1 (PreDs)	6	Male	243	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
1 (PreDs)	6	Male	243	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	TNF-alpha	Result
1 (PreDs)	7	Male	247	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	IL-1beta	Result
1 (PreDs)	7	Male	247	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.		

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Measurement</u>	<u>Type</u>
1 (PreDs)	7		Male	247	IL-6	Result
1 (PreDs)	7		Male	247	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
1 (PreDs)	7		Male	248	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result
1 (PreDs)	7		Male	248	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	Result
1 (PreDs)	7		Male	248	TNF-alpha	Result
1 (PreDs)	7		Male	248	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	Result
1 (PreDs)	7		Male	248	IL-1beta	Result
1 (PreDs)	7		Male	248	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	Result
1 (PreDs)	7		Male	248	IL-6	Result
1 (PreDs)	7		Male	248	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
1 (PreDs)	7		Male	249	IL-10	Result
1 (PreDs)	7		Male	249	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result
1 (PreDs)	7		Male	249	IFN-gamma	Result
1 (PreDs)	7		Male	249	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	Result
1 (PreDs)	7		Male	249	IL-1beta	Result
1 (PreDs)	7		Male	249	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	Result
1 (PreDs)	7		Male	249	IL-6	Result
1 (6 h pa)	2		Male	249	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
1 (6 h pa)	3		Male	219	IL-10	Result
1 (6 h pa)	3		Male	223	IL-6	Result
1 (6 h pa)	3		Male	224	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
					IL-6	Result

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Measurement</u>	<u>Type</u>
1 (6 h pa)	3	Male	225		IL-6	Result
1 (6 h pa)	5	Male	235	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
1 (6 h pa)	5	Male	237	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
1 (6 h pa)	6	Male	241	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
1 (6 h pa)	6	Male	242	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
1 (6 h pa)	6	Male	243	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
1 (6 h pa)	7	Male	248	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
1 (6 h pa)	7	Male	249	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
8 (PreDs)	1	Male	211	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
8 (PreDs)	2	Male	219	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IFN-gamma	Result
8 (PreDs)	2	Male	219	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	IL-6	Result
8 (PreDs)	2	Male	219	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-10	Result
8 (PreDs)	3	Male	223	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	TNF-alpha	Result
8 (PreDs)	3	Male	223	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	IL-1-beta	Result
				Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.		

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Measurement</u>	<u>Type</u>
8 (PreDs)	3		Male	223	IL-6	Result
8 (PreDs)	3		Male	223	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
8 (PreDs)	3		Male	224	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result
8 (PreDs)	3		Male	224	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	Result
8 (PreDs)	3		Male	224	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	Result
8 (PreDs)	3		Male	224	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
8 (PreDs)	3		Male	224	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result
8 (PreDs)	3		Male	225	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
8 (PreDs)	3		Male	225	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result
8 (PreDs)	4		Male	229	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
8 (PreDs)	4		Male	229	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	Result
8 (PreDs)	4		Male	229	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	Result
8 (PreDs)	4		Male	229	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	Result
8 (PreDs)	4		Male	229	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
8 (PreDs)	4		Male	229	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result
8 (PreDs)	4		Male	230	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	Result

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Measurement</u>	<u>Type</u>
8 (PreDs)	4	Male	230	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-1beta	Result
8 (PreDs)	4	Male	230	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
8 (PreDs)	4	Male	230	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result
8 (PreDs)	4	Male	231	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
8 (PreDs)	5	Male	235	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	IFN-gamma	Result
8 (PreDs)	5	Male	235	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha	Result
8 (PreDs)	5	Male	235	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-1beta	Result
8 (PreDs)	5	Male	235	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
8 (PreDs)	5	Male	235	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result
8 (PreDs)	5	Male	237	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	IFN-gamma	Result
8 (PreDs)	5	Male	237	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha	Result
8 (PreDs)	5	Male	237	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-1beta	Result
8 (PreDs)	5	Male	237	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
8 (PreDs)	5	Male	237	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Measurement</u>	<u>Type</u>
8 (PreDs)	6	Male	241		IL-6	Result
		Male	241	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.		
8 (PreDs)	6	Male	242		IFN-gamma	Result
		Male	242	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.		
8 (PreDs)	6	Male	242		IL-6	Result
		Male	242	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.		
8 (PreDs)	6	Male	242		IL-10	Result
		Male	242	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.		
8 (PreDs)	6	Male	243		IFN-gamma	Result
		Male	243	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.		
8 (PreDs)	6	Male	243		IL-6	Result
		Male	243	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.		
8 (PreDs)	6	Male	243		IL-10	Result
		Male	243	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.		
8 (PreDs)	7	Male	247		IL-6	Result
		Male	247	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.		
8 (PreDs)	7	Male	248		IFN-gamma	Result
		Male	248	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.		
8 (PreDs)	7	Male	248		TNF-alpha	Result
		Male	248	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.		
8 (PreDs)	7	Male	248		IL-1-beta	Result
		Male	248	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.		
8 (PreDs)	7	Male	248		IL-6	Result
		Male	248	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.		
8 (PreDs)	7	Male	249		IL-10	Result
		Male	249	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.		
8 (PreDs)	7	Male	249		IFN-gamma	Result
		Male	249	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.		

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>		<u>Type</u>	<u>Marker</u>
					<u>Measurement</u>	<u>Result</u>		
8 (PreDs)	7	Male	249	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha	Result		
8 (PreDs)	7	Male	249	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-1beta	Result		
8 (PreDs)	7	Male	249	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result		
8 (PreDs)	7	Male	249	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result		
8 (6 h pa)	1	Male	211	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result		
8 (6 h pa)	1	Male	212	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result		
8 (6 h pa)	2	Male	217	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result		
8 (6 h pa)	2	Male	218	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result		
8 (6 h pa)	2	Male	219	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result		
8 (6 h pa)	3	Male	224	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result		
8 (6 h pa)	4	Male	229	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result		
8 (6 h pa)	4	Male	229	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result		
8 (6 h pa)	4	Male	230	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result		
8 (6 h pa)	4	Male	231	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result		

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Measurement</u>	<u>Type</u>
8 (6 h pa)	5	Male	237		IL-6	Result
8 (6 h pa)	6	Male	241	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
8 (6 h pa)	7	Male	248	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
8 (6 h pa)	7	Male	249	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
10 (48h pa)	6	Male	241	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
10 (48h pa)	6	Male	242	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	TNF-alpha	Result
10 (48h pa)	6	Male	242	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	IL-1beta	Result
10 (48h pa)	6	Male	242	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-6	Result
10 (48h pa)	6	Male	242	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-10	Result
10 (48h pa)	6	Male	243	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-6	Result
10 (48h pa)	6	Male	243	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-10	Result
15 (PreDs)	1	Male	211	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-6	Result
15 (PreDs)	1	Male	212	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
15 (PreDs)	1	Male	213	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha	Result

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Measurement</u>	<u>Type</u>
15 (PreDs)	1	1	Male	213	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-beta
15 (PreDs)	1	1	Male	213	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6
15 (PreDs)	1	1	Male	213	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10
15 (PreDs)	2	2	Male	217	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha
15 (PreDs)	2	2	Male	217	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-beta
15 (PreDs)	2	2	Male	217	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6
15 (PreDs)	2	2	Male	217	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10
15 (PreDs)	2	2	Male	219	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6
15 (PreDs)	2	2	Male	219	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10
15 (PreDs)	3	3	Male	223	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	TNF-alpha
15 (PreDs)	3	3	Male	223	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	IL-beta
15 (PreDs)	3	3	Male	223	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-6
15 (PreDs)	3	3	Male	223	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-10
15 (PreDs)	3	3			Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Measurement</u>	<u>Type</u>
15 (PreDs)	3	Male	224	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	IFN-gamma	Result
15 (PreDs)	3	Male	224	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha	Result
15 (PreDs)	3	Male	224	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-1beta	Result
15 (PreDs)	3	Male	224	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
15 (PreDs)	3	Male	224	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result
15 (PreDs)	3	Male	225	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	IFN-gamma	Result
15 (PreDs)	3	Male	225	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha	Result
15 (PreDs)	3	Male	225	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-1beta	Result
15 (PreDs)	3	Male	225	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
15 (PreDs)	3	Male	225	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result
15 (PreDs)	4	Male	229	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-1beta	Result
15 (PreDs)	4	Male	229	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
15 (PreDs)	4	Male	229	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result
15 (PreDs)	4	Male	230	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Measurement</u>	<u>Type</u>
15 (PreDs)	4	Male	231	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	IFN-gamma	Result
15 (PreDs)	4	Male	231	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha	Result
15 (PreDs)	4	Male	231	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-1beta	Result
15 (PreDs)	4	Male	231	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
15 (PreDs)	4	Male	231	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result
15 (PreDs)	5	Male	236	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	IFN-gamma	Result
15 (PreDs)	5	Male	236	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha	Result
15 (PreDs)	5	Male	236	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-1beta	Result
15 (PreDs)	5	Male	236	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
15 (PreDs)	5	Male	236	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result
15 (PreDs)	7	Male	247	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
15 (PreDs)	7	Male	248	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-1beta	Result
15 (PreDs)	7	Male	248	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
15 (PreDs)	7	Male	248	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Measurement</u>	<u>Type</u>
15 (PreDs)	7	Male	249	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-1beta	Result
15 (PreDs)	7	Male	249	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
15 (PreDs)	7	Male	249	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result
15 (6 h pa)	1	Male	211	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
15 (6 h pa)	1	Male	212	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-6	Result
15 (6 h pa)	2	Male	217	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
15 (6 h pa)	2	Male	218	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
15 (6 h pa)	2	Male	219	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
15 (6 h pa)	4	Male	231	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
17 (48h pa)	1	Male	211	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IFN-gamma	Result
17 (48h pa)	1	Male	211	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	TNF-alpha	Result
17 (48h pa)	1	Male	211	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	IL-1beta	Result
17 (48h pa)	1	Male	211	Comment: Value below lowest level of quantification (= 12.6 pg/ml). Set to 12.6 pg/ml for mean value calculation.	IL-6	Result
17 (48h pa)	1	Male	211	Comment: Value below lowest level of quantification (= 3.0 pg/ml). Set to 3.0 pg/ml for mean value calculation.	IL-10	Result
17 (48h pa)	1	Male	211	Comment: Value below lowest level of quantification (= 9.9 pg/ml). Set to 9.9 pg/ml for mean value calculation.		

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Measurement</u>	<u>Type</u>
17 (48h pa)	1	Male	212	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	IFN-gamma	Result
17 (48h pa)	1	Male	212	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha	Result
17 (48h pa)	1	Male	212	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-1beta	Result
17 (48h pa)	1	Male	212	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
17 (48h pa)	1	Male	212	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result
17 (48h pa)	1	Male	213	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	IFN-gamma	Result
17 (48h pa)	1	Male	213	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha	Result
17 (48h pa)	1	Male	213	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-1beta	Result
17 (48h pa)	1	Male	213	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
17 (48h pa)	1	Male	213	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result
17 (48h pa)	2	Male	217	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
17 (48h pa)	2	Male	217	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result
17 (48h pa)	2	Male	218	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha	Result
17 (48h pa)	2	Male	218	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-1beta	Result

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Comments and Markers</u>		<u>Type</u>	<u>Marker</u>
				<u>Subject</u>	<u>Measurement</u>		
17 (48h pa)	2	Male	218	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result	
17 (48h pa)	2	Male	218	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result	
17 (48h pa)	2	Male	219	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result	
17 (48h pa)	2	Male	219	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result	
17 (48h pa)	3	Male	223	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	TNF-alpha	Result	
17 (48h pa)	3	Male	223	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/ml for mean value calculation.	IL-1beta	Result	
17 (48h pa)	3	Male	223	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-6	Result	
17 (48h pa)	3	Male	223	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-10	Result	
17 (48h pa)	3	Male	224	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/ml for mean value calculation.	TNF-alpha	Result	
17 (48h pa)	3	Male	224	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/ml for mean value calculation.	IL-1beta	Result	
17 (48h pa)	3	Male	224	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/ml for mean value calculation.	IL-6	Result	
17 (48h pa)	3	Male	224	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/ml for mean value calculation.	IL-10	Result	
17 (48h pa)	3	Male	225	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/ml for mean value calculation.	TNF-alpha	Result	
17 (48h pa)	3	Male	225	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/ml for mean value calculation.	IL-1beta	Result	

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Type</u>	<u>Marker</u>
17 (48h pa)	3		Male	225	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6 Result
17 (48h pa)	3		Male	225	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10 Result
17 (48h pa)	4		Male	229	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	IFN-gamma Result
17 (48h pa)	4		Male	229	Comment: Value below lowest level of quantification (= 12.6 pg/ml). Set to 12.6 pg/ml for mean value calculation.	TNF-alpha Result
17 (48h pa)	4		Male	229	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	IL-1beta Result
17 (48h pa)	4		Male	229	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6 Result
17 (48h pa)	4		Male	229	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10 Result
17 (48h pa)	4		Male	231	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	IFN-gamma Result
17 (48h pa)	4		Male	231	Comment: Value below lowest level of quantification (= 12.6 pg/ml). Set to 12.6 pg/ml for mean value calculation.	TNF-alpha Result
17 (48h pa)	4		Male	231	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	IL-1beta Result
17 (48h pa)	4		Male	231	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6 Result
17 (48h pa)	4		Male	231	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10 Result
17 (48h pa)	5		Male	235	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	IFN-gamma Result
17 (48h pa)	5		Male	235	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha Result

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Measurement</u>	<u>Type</u> <u>Marker</u>
17 (48h pa)	5	Male	235	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-beta	Result
17 (48h pa)	5	Male	235	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
17 (48h pa)	5	Male	235	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result
17 (48h pa)	5	Male	236	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	IFN-gamma	Result
17 (48h pa)	5	Male	236	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
17 (48h pa)	5	Male	236	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-10	Result
17 (48h pa)	5	Male	237	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IFN-gamma	Result
17 (48h pa)	5	Male	237	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	TNF-alpha	Result
17 (48h pa)	5	Male	237	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	IL-1beta	Result
17 (48h pa)	5	Male	237	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-6	Result
17 (48h pa)	5	Male	237	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-10	Result
17 (48h pa)	5	Male	248	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IFN-gamma	Result
17 (48h pa)	7	Male	248	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	IL-6	Result
17 (48h pa)	7	Male	248	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-10	Result
17 (48h pa)	7	Male	248	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.		

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Measurement</u>	<u>Type</u>
17 (48h pa)	7	Male	Male	249	IL-6	Result
17 (48h pa)	7	Male	Male	249	IL-10	Result

Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.

Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Comments and Markers</u>			<u>Type</u>	<u>Marker</u>
			<u>Sex</u>	<u>Subject</u>	<u>Measurement</u>		
1 (PreDs)	1	Female	214	IFN-gamma	Result		
		Comment:	Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.				
1 (PreDs)	1	Female	214	TNF-alpha	Result		
		Comment:	Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.				
1 (PreDs)	1	Female	214	IL-1beta	Result		
		Comment:	Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.				
1 (PreDs)	1	Female	214	IL-6	Result		
		Comment:	Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.				
1 (PreDs)	1	Female	214	IL-10	Result		
		Comment:	Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.				
1 (PreDs)	1	Female	215	IL-6	Result		
		Comment:	Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.				
1 (PreDs)	1	Female	216	IFN-gamma	Result		
		Comment:	Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.				
1 (PreDs)	1	Female	216	IL-6	Result		
		Comment:	Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.				
1 (PreDs)	1	Female	216	IL-10	Result		
		Comment:	Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.				
1 (PreDs)	2	Female	220	IFN-gamma	Result		
		Comment:	Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.				
1 (PreDs)	2	Female	220	TNF-alpha	Result		
		Comment:	Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.				
1 (PreDs)	2	Female	220	IL-1beta	Result		
		Comment:	Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.				
1 (PreDs)	2	Female	220	IL-6	Result		
		Comment:	Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.				
1 (PreDs)	2	Female	220	IL-10	Result		
		Comment:	Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.				

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Measurement</u>	<u>Type</u>
1 (PreDs)	2	Female	221	IFN-gamma	Result	
1 (PreDs)	2	Female	221	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	TNF-alpha	Result
1 (PreDs)	2	Female	221	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	IL-1beta	Result
1 (PreDs)	2	Female	221	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-6	Result
1 (PreDs)	2	Female	221	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-10	Result
1 (PreDs)	2	Female	221	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IFN-gamma	Result
1 (PreDs)	2	Female	222	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	TNF-alpha	Result
1 (PreDs)	2	Female	222	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	IL-1beta	Result
1 (PreDs)	2	Female	222	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-6	Result
1 (PreDs)	2	Female	222	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-10	Result
1 (PreDs)	2	Female	222	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-1beta	Result
1 (PreDs)	3	Female	226	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-6	Result
1 (PreDs)	3	Female	226	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-10	Result
1 (PreDs)	3	Female	227	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IFN-gamma	Result
1 (PreDs)	3			Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.		

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>		<u>Type</u>	<u>Marker</u>
					<u>Measurement</u>	<u>Result</u>		
1 (PreDs)	3	Female	227	TNF-alpha	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	Result		
1 (PreDs)	3	Female	227	IL-1beta	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	Result		
1 (PreDs)	3	Female	227	IL-6	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result		
1 (PreDs)	3	Female	227	IL-10	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result		
1 (PreDs)	3	Female	228	IFN-gamma	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	Result		
1 (PreDs)	3	Female	228	TNF-alpha	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	Result		
1 (PreDs)	3	Female	228	IL-1beta	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	Result		
1 (PreDs)	3	Female	228	IL-6	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result		
1 (PreDs)	3	Female	228	IL-10	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result		
1 (PreDs)	4	Female	232	IFN-gamma	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	Result		
1 (PreDs)	4	Female	232	TNF-alpha	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	Result		
1 (PreDs)	4	Female	232	IL-1beta	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	Result		
1 (PreDs)	4	Female	232	IL-6	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result		
1 (PreDs)	4	Female	232	IL-10	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result		

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Measurement</u>	<u>Type</u>
1 (PreDs)	4		Female	233	IFN-gamma	Result
1 (PreDs)	4		Female	233	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	
1 (PreDs)	4		Female	233	TNF-alpha	Result
1 (PreDs)	4		Female	233	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	
1 (PreDs)	4		Female	233	IL-1beta	Result
1 (PreDs)	4		Female	233	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	
1 (PreDs)	4		Female	234	IL-6	Result
1 (PreDs)	4		Female	233	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	
1 (PreDs)	4		Female	233	IL-10	Result
1 (PreDs)	4		Female	234	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	
1 (PreDs)	4		Female	234	TNF-alpha	Result
1 (PreDs)	4		Female	234	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	
1 (PreDs)	4		Female	234	IL-1beta	Result
1 (PreDs)	4		Female	234	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	
1 (PreDs)	4		Female	234	IL-6	Result
1 (PreDs)	4		Female	234	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	
1 (PreDs)	4		Female	234	IL-10	Result
1 (PreDs)	5		Female	238	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	
1 (PreDs)	5		Female	238	IFN-gamma	Result
1 (PreDs)	5		Female	238	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	
1 (PreDs)	5		Female	238	TNF-alpha	Result
1 (PreDs)	5		Female	238	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	
1 (PreDs)	5		Female	238	IL-1beta	Result
1 (PreDs)	5		Female	238	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	
1 (PreDs)	5		Female	238	IL-6	Result
1 (PreDs)	5		Female	238	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	
1 (PreDs)	5		Female	238	IL-10	Result
					Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Measurement</u>	<u>Type</u>
1 (PreDs)	5	5	Female	239	IFN-gamma	Result
1 (PreDs)	5	5	Female	239	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	
1 (PreDs)	5	5	Female	239	TNF-alpha	Result
1 (PreDs)	5	5	Female	239	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	
1 (PreDs)	5	5	Female	239	IL-1beta	Result
1 (PreDs)	5	5	Female	239	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	
1 (PreDs)	5	5	Female	239	IL-6	Result
1 (PreDs)	5	5	Female	239	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	
1 (PreDs)	5	5	Female	240	IL-10	Result
1 (PreDs)	5	5	Female	240	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	
1 (PreDs)	5	5	Female	240	IFN-gamma	Result
1 (PreDs)	5	5	Female	240	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	
1 (PreDs)	5	5	Female	240	TNF-alpha	Result
1 (PreDs)	5	5	Female	240	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	
1 (PreDs)	5	5	Female	240	IL-1beta	Result
1 (PreDs)	5	5	Female	240	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	
1 (PreDs)	5	5	Female	240	IL-6	Result
1 (PreDs)	5	5	Female	240	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	
1 (PreDs)	6	6	Female	244	IL-10	Result
1 (PreDs)	6	6	Female	244	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	
1 (PreDs)	6	6	Female	244	IFN-gamma	Result
1 (PreDs)	6	6	Female	244	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	
1 (PreDs)	6	6	Female	244	TNF-alpha	Result
1 (PreDs)	6	6	Female	244	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	
1 (PreDs)	6	6	Female	244	IL-1beta	Result
1 (PreDs)	6	6	Female	244	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	
1 (PreDs)	6	6	Female	244	IL-6	Result
					Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Measurement</u>	<u>Type</u>	<u>Marker</u>
<u>Comments and Markers</u>							
1 (PreDs)	6	Female	244	IL-10	Result		
1 (PreDs)	6	Female	245	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.			
1 (PreDs)	6	Female	245	IFN-gamma	Result		
1 (PreDs)	6	Female	245	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.			
1 (PreDs)	6	Female	245	TNF-alpha	Result		
1 (PreDs)	6	Female	245	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.			
1 (PreDs)	6	Female	245	IL-1beta	Result		
1 (PreDs)	6	Female	245	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.			
1 (PreDs)	6	Female	246	IL-6	Result		
1 (PreDs)	6	Female	245	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.			
1 (PreDs)	6	Female	245	IL-10	Result		
1 (PreDs)	6	Female	246	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.			
1 (PreDs)	6	Female	246	IFN-gamma	Result		
1 (PreDs)	6	Female	246	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.			
1 (PreDs)	6	Female	246	TNF-alpha	Result		
1 (PreDs)	6	Female	246	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.			
1 (PreDs)	6	Female	246	IL-1beta	Result		
1 (PreDs)	6	Female	246	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.			
1 (PreDs)	6	Female	246	IL-6	Result		
1 (PreDs)	6	Female	246	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.			
1 (PreDs)	7	Female	250	IL-10	Result		
1 (PreDs)	7	Female	250	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.			
1 (PreDs)	7	Female	250	IFN-alpha	Result		
1 (PreDs)	7	Female	250	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.			
1 (PreDs)	7	Female	250	IL-1beta	Result		
1 (PreDs)	7	Female	250	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.			
1 (PreDs)	7	Female	250	IL-6	Result		
				Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.			

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>		<u>Type</u>	<u>Marker</u>
					<u>Measurement</u>	<u>Result</u>		
1 (PreDs)	7		Female	250	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.			
1 (PreDs)	7		Female	251	IFN-gamma	Result		
1 (PreDs)	7		Female	251	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.			
1 (PreDs)	7		Female	251	TNF-alpha	Result		
1 (PreDs)	7		Female	251	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.			
1 (PreDs)	7		Female	251	IL-1beta	Result		
1 (PreDs)	7		Female	251	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.			
1 (PreDs)	7		Female	251	IL-6	Result		
1 (PreDs)	7		Female	251	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.			
1 (PreDs)	7		Female	251	IL-10	Result		
1 (PreDs)	7		Female	252	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.			
1 (6 h pa)	2		Female	221	IL-6	Result		
1 (6 h pa)	3		Female	226	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.			
1 (6 h pa)	3		Female	227	IL-6	Result		
1 (6 h pa)	3		Female	228	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.			
1 (6 h pa)	4		Female	232	IL-6	Result		
1 (6 h pa)	5		Female	238	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.			
1 (6 h pa)	5		Female	239	IL-6	Result		
					Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.			

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Measurement</u>	<u>Type</u>
1 (6 h pa)	5	Female	240	IL-6	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
1 (6 h pa)	6	Female	244	IL-6	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
1 (6 h pa)	6	Female	246	IL-6	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
1 (6 h pa)	7	Female	251	IL-6	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
1 (6 h pa)	7	Female	252	IL-6	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
8 (PreDs)	1	Female	214	IFN-gamma	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
8 (PreDs)	1	Female	214	TNF-alpha	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	Result
8 (PreDs)	1	Female	214	IL-1beta	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	Result
8 (PreDs)	1	Female	214	IL-6	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	Result
8 (PreDs)	1	Female	214	IL-10	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
8 (PreDs)	1	Female	214	IL-10	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result
8 (PreDs)	1	Female	215	IL-6	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
8 (PreDs)	1	Female	216	TNF-alpha	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	Result
8 (PreDs)	1	Female	216	IL-1beta	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	Result
8 (PreDs)	1	Female	216	IL-6	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Comments and Markers</u>		<u>Type</u>	<u>Marker</u>
				<u>Subject</u>	<u>Measurement</u>		
8 (PreDs)	1	Female	216	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result	
8 (PreDs)	2	Female	220	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result	
8 (PreDs)	2	Female	221	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha	Result	
8 (PreDs)	2	Female	221	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-1beta	Result	
8 (PreDs)	2	Female	221	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result	
8 (PreDs)	2	Female	221	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result	
8 (PreDs)	2	Female	222	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	IFN-gamma	Result	
8 (PreDs)	2	Female	222	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha	Result	
8 (PreDs)	2	Female	222	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-1beta	Result	
8 (PreDs)	2	Female	222	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result	
8 (PreDs)	2	Female	222	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result	
8 (PreDs)	3	Female	226	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result	
8 (PreDs)	3	Female	226	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result	
8 (PreDs)	3	Female	227	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	IFN-gamma	Result	

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Comments and Markers</u>			<u>Type</u>	<u>Marker</u>
			<u>Sex</u>	<u>Subject</u>	<u>Measurement</u>		
8 (PreDs)	3	Female	227	TNF-alpha	Result		
8 (PreDs)	3	Female	227	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.			
8 (PreDs)	3	Female	227	IL-1beta	Result		
8 (PreDs)	3	Female	227	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.			
8 (PreDs)	3	Female	227	IL-6	Result		
8 (PreDs)	3	Female	227	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.			
8 (PreDs)	3	Female	228	IL-10	Result		
8 (PreDs)	3	Female	228	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.			
8 (PreDs)	3	Female	228	IL-6	Result		
8 (PreDs)	3	Female	228	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.			
8 (PreDs)	3	Female	232	IL-10	Result		
8 (PreDs)	4	Female	233	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.			
8 (PreDs)	4	Female	233	IL-6	Result		
8 (PreDs)	4	Female	233	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.			
8 (PreDs)	4	Female	233	TNF-alpha	Result		
8 (PreDs)	4	Female	233	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.			
8 (PreDs)	4	Female	233	IL-1beta	Result		
8 (PreDs)	4	Female	233	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.			
8 (PreDs)	4	Female	233	IL-6	Result		
8 (PreDs)	4	Female	234	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.			
8 (PreDs)	4	Female	234	TNF-alpha	Result		
8 (PreDs)	4	Female	234	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.			
8 (PreDs)	4	Female	234	IL-1beta	Result		
8 (PreDs)	4	Female	234	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.			
8 (PreDs)	4	Female	234	IL-6	Result		

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Measurement</u>	<u>Type</u>
8 (PreDs)	4	Female	234	IL-10	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result
8 (PreDs)	5	Female	238	TNF-alpha	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	Result
8 (PreDs)	5	Female	238	IL-1beta	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	Result
8 (PreDs)	5	Female	238	IL-6	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
8 (PreDs)	5	Female	238	IL-10	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result
8 (PreDs)	5	Female	239	IFN-gamma	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	Result
8 (PreDs)	5	Female	239	TNF-alpha	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	Result
8 (PreDs)	5	Female	239	IL-1beta	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	Result
8 (PreDs)	5	Female	239	IL-6	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
8 (PreDs)	5	Female	239	IL-10	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result
8 (PreDs)	5	Female	240	IL-6	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
8 (PreDs)	6	Female	244	TNF-alpha	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	Result
8 (PreDs)	6	Female	244	IL-1beta	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	Result
8 (PreDs)	6	Female	244	IL-6	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Measurement</u>	<u>Type</u>
8 (PreDs)	6	Female	244	IL-10	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result
8 (PreDs)	6	Female	245	IL-1beta	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	Result
8 (PreDs)	6	Female	245	IL-6	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
8 (PreDs)	6	Female	245	IL-10	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result
8 (PreDs)	6	Female	246	IFN-gamma	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	Result
8 (PreDs)	6	Female	246	TNF-alpha	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	Result
8 (PreDs)	6	Female	246	IL-1beta	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	Result
8 (PreDs)	6	Female	246	IL-6	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
8 (PreDs)	6	Female	246	IL-10	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result
8 (PreDs)	7	Female	250	IFN-gamma	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	Result
8 (PreDs)	7	Female	250	TNF-alpha	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	Result
8 (PreDs)	7	Female	250	IL-1beta	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	Result
8 (PreDs)	7	Female	250	IL-6	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
8 (PreDs)	7	Female	250	IL-10	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>		<u>Type</u>	<u>Marker</u>
					<u>Measurement</u>	<u>Result</u>		
8 (PreDs)	7	Female	251	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-beta	Result		
8 (PreDs)	7	Female	251	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result		
8 (PreDs)	7	Female	251	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result		
8 (PreDs)	7	Female	252	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	IFN-gamma	Result		
8 (PreDs)	7	Female	252	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/ml for mean value calculation.	TNF-alpha	Result		
8 (PreDs)	7	Female	252	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-beta	Result		
8 (PreDs)	7	Female	252	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result		
8 (PreDs)	7	Female	252	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result		
8 (6 h pa)	1	Female	214	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result		
8 (6 h pa)	1	Female	215	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result		
8 (6 h pa)	1	Female	216	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result		
8 (6 h pa)	2	Female	220	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result		
8 (6 h pa)	2	Female	221	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result		
8 (6 h pa)	2	Female	221	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result		

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Measurement</u>	<u>Type</u>
8 (6 h pa)	2	Female	222		IL-6	Result
8 (6 h pa)	3	Female	228	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
8 (6 h pa)	4	Female	232	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
8 (6 h pa)	4	Female	233	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
8 (6 h pa)	4	Female	234	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
8 (6 h pa)	5	Female	239	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
8 (6 h pa)	7	Female	252	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
10 (48h pa)	6	Female	244	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	TNF-alpha	Result
10 (48h pa)	6	Female	244	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	IL-1beta	Result
10 (48h pa)	6	Female	244	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-6	Result
10 (48h pa)	6	Female	244	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-10	Result
10 (48h pa)	6	Female	245	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	TNF-alpha	Result
10 (48h pa)	6	Female	245	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	IL-1beta	Result
10 (48h pa)	6	Female	245	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-6	Result
10 (48h pa)	6			Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.		

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Measurement</u>	<u>Type</u>
10 (48h pa)	6	Female	245	IL-10	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result
10 (48h pa)	6	Female	246	TNF-alpha	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	Result
10 (48h pa)	6	Female	246	IL-1beta	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	Result
10 (48h pa)	6	Female	246	IL-6	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
10 (48h pa)	6	Female	246	IL-10	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result
15 (PreDs)	1	Female	214	IFN-gamma	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	Result
15 (PreDs)	1	Female	214	TNF-alpha	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	Result
15 (PreDs)	1	Female	214	IL-1beta	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	Result
15 (PreDs)	1	Female	214	IL-6	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
15 (PreDs)	1	Female	214	IL-10	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result
15 (PreDs)	1	Female	215	IL-6	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
15 (PreDs)	1	Female	216	IFN-gamma	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	Result
15 (PreDs)	1	Female	216	TNF-alpha	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	Result
15 (PreDs)	1	Female	216	IL-1beta	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	Result

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Measurement</u>	<u>Type</u>
15 (PreDs)	1	1	Female	216	IL-6	Result
			Comment:	Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.		
15 (PreDs)	1	1	Female	216	IL-10	Result
			Comment:	Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.		
15 (PreDs)	2	2	Female	220	IL-6	Result
			Comment:	Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.		
15 (PreDs)	2	2	Female	221	IL-6	Result
			Comment:	Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.		
15 (PreDs)	2	2	Female	222	IL-6	Result
			Comment:	Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.		
15 (PreDs)	2	2	Female	222	IL-10	Result
			Comment:	Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.		
15 (PreDs)	3	3	Female	226	IL-6	Result
			Comment:	Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.		
15 (PreDs)	3	3	Female	226	IL-10	Result
			Comment:	Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.		
15 (PreDs)	3	3	Female	228	IFN-gamma	Result
			Comment:	Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.		
15 (PreDs)	3	3	Female	228	TNF-alpha	Result
			Comment:	Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.		
15 (PreDs)	3	3	Female	228	IL-1-beta	Result
			Comment:	Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.		
15 (PreDs)	3	3	Female	228	IL-6	Result
			Comment:	Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.		
15 (PreDs)	3	3	Female	228	IL-10	Result
			Comment:	Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.		
15 (PreDs)	4	4	Female	232	TNF-alpha	Result
			Comment:	Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.		

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Measurement</u>	<u>Type</u> <u>Marker</u>
15 (PreDs)	4	Female	232	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-1beta	Result
15 (PreDs)	4	Female	232	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
15 (PreDs)	4	Female	232	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result
15 (PreDs)	4	Female	233	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	IFN-gamma	Result
15 (PreDs)	4	Female	233	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha	Result
15 (PreDs)	4	Female	233	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-1beta	Result
15 (PreDs)	4	Female	233	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
15 (PreDs)	4	Female	233	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result
15 (PreDs)	4	Female	234	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha	Result
15 (PreDs)	4	Female	234	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-1beta	Result
15 (PreDs)	4	Female	234	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
15 (PreDs)	4	Female	234	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result
15 (PreDs)	5	Female	238	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha	Result
15 (PreDs)	5	Female	238	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-1beta	Result

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Type</u>	<u>Marker</u>
15 (PreDs)	5	5	Female	238	IL-6	Result
			Comment:	Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.		
15 (PreDs)	5	5	Female	238	IL-10	Result
			Comment:	Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.		
15 (PreDs)	5	5	Female	239	IFN-gamma	Result
			Comment:	Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.		
15 (PreDs)	5	5	Female	239	TNF-alpha	Result
			Comment:	Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.		
15 (PreDs)	5	5	Female	239	IL-1beta	Result
			Comment:	Value below lowest level of quantification (= 12.6 pg/ml). Set to 12.6 pg/ml for mean value calculation.		
15 (PreDs)	5	5	Female	239	IL-6	Result
			Comment:	Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.		
15 (PreDs)	5	5	Female	239	IL-10	Result
			Comment:	Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.		
15 (PreDs)	5	5	Female	240	IFN-gamma	Result
			Comment:	Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.		
15 (PreDs)	5	5	Female	240	TNF-alpha	Result
			Comment:	Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.		
15 (PreDs)	5	5	Female	240	IL-1beta	Result
			Comment:	Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.		
15 (PreDs)	5	5	Female	240	IL-6	Result
			Comment:	Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.		
15 (PreDs)	5	5	Female	240	IL-10	Result
			Comment:	Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.		
15 (PreDs)	7	7	Female	251	TNF-alpha	Result
			Comment:	Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.		
15 (PreDs)	7	7	Female	251	IL-1beta	Result
			Comment:	Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.		

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>		<u>Type</u>	<u>Marker</u>
					<u>Measurement</u>	<u>Result</u>		
15 (PreDs)	7	Female	251	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result		
15 (PreDs)	7	Female	251	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result		
15 (PreDs)	7	Female	252	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha	Result		
15 (PreDs)	7	Female	252	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	IL-1beta	Result		
15 (PreDs)	7	Female	252	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-6	Result		
15 (PreDs)	7	Female	252	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/ml for mean value calculation.	IL-10	Result		
15 (6 h pa)	1	Female	215	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-6	Result		
15 (6 h pa)	1	Female	216	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/ml for mean value calculation.	IL-6	Result		
15 (6 h pa)	2	Female	220	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/ml for mean value calculation.	IL-6	Result		
15 (6 h pa)	2	Female	221	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/ml for mean value calculation.	IL-6	Result		
15 (6 h pa)	3	Female	228	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/ml for mean value calculation.	IL-6	Result		
15 (6 h pa)	4	Female	232	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/ml for mean value calculation.	IL-6	Result		
17 (48h pa)	1	Female	214	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/ml for mean value calculation.	IFN-gamma	Result		
17 (48h pa)	1	Female	214	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/ml for mean value calculation.	TNF-alpha	Result		

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Measurement</u>	<u>Type</u>
17 (48h pa)	1	Female	214	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-beta	Result
17 (48h pa)	1	Female	214	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
17 (48h pa)	1	Female	214	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result
17 (48h pa)	1	Female	215	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
17 (48h pa)	1	Female	216	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	IFN-gamma	Result
17 (48h pa)	1	Female	216	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha	Result
17 (48h pa)	1	Female	216	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-1beta	Result
17 (48h pa)	1	Female	216	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
17 (48h pa)	1	Female	216	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result
17 (48h pa)	2	Female	220	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha	Result
17 (48h pa)	2	Female	220	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-beta	Result
17 (48h pa)	2	Female	220	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
17 (48h pa)	2	Female	220	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result
17 (48h pa)	2	Female	222	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha	Result

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Measurement</u>	<u>Type</u> <u>Marker</u>
17 (48h pa)	2	Female	222	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-beta	Result
17 (48h pa)	2	Female	222	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
17 (48h pa)	2	Female	222	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result
17 (48h pa)	3	Female	226	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha	Result
17 (48h pa)	3	Female	226	Comment: Value below lowest level of quantification (= 12.6 pg/ml). Set to 12.6 pg/ml for mean value calculation.	IL-beta	Result
17 (48h pa)	3	Female	226	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
17 (48h pa)	3	Female	226	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result
17 (48h pa)	3	Female	227	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha	Result
17 (48h pa)	3	Female	227	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-beta	Result
17 (48h pa)	3	Female	227	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result
17 (48h pa)	3	Female	227	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result
17 (48h pa)	3	Female	228	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha	Result
17 (48h pa)	3	Female	228	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-beta	Result
17 (48h pa)	3	Female	228	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-6	Result

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Comments and Markers</u>		
				<u>Subject</u>	<u>Measurement</u>	<u>Type</u>
17 (48h pa)	3	Female	228	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	IL-10	Result
17 (48h pa)	4	Female	232	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	[FN-gamma]	Result
17 (48h pa)	4	Female	232	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	TNF-alpha	Result
17 (48h pa)	4	Female	232	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	IL-1beta	Result
17 (48h pa)	4	Female	232	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-6	Result
17 (48h pa)	4	Female	232	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-10	Result
17 (48h pa)	4	Female	233	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	[FN-gamma]	Result
17 (48h pa)	4	Female	233	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	TNF-alpha	Result
17 (48h pa)	4	Female	233	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	IL-1beta	Result
17 (48h pa)	4	Female	233	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-6	Result
17 (48h pa)	4	Female	233	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	IL-10	Result
17 (48h pa)	4	Female	234	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	TNF-alpha	Result
17 (48h pa)	4	Female	234	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	IL-1beta	Result
17 (48h pa)	4	Female	234	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	IL-6	Result
17 (48h pa)	4	Female	234	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.		

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Comments and Markers</u>	
					<u>Measurement</u>	<u>Type</u>
17 (48h pa)	4	Female	234	IL-10	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result
17 (48h pa)	5	Female	238	IL-6	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
17 (48h pa)	5	Female	238	IL-10	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result
17 (48h pa)	5	Female	239	IL-6	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
17 (48h pa)	5	Female	239	IL-10	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result
17 (48h pa)	5	Female	240	IFN-gamma	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result
17 (48h pa)	5	Female	240	TNF-alpha	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.	Result
17 (48h pa)	5	Female	240	IL-1beta	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	Result
17 (48h pa)	5	Female	240	IL-6	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.	Result
17 (48h pa)	5	Female	240	IL-10	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
17 (48h pa)	7	Female	250	TNF-alpha	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result
17 (48h pa)	7	Female	250	IL-1beta	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.	Result
17 (48h pa)	7	Female	250	IL-6	Comment: Value below lowest level of quantification (= 12.6 pg/ml). Set to 12.6 pg/ml for mean value calculation.	Result
17 (48h pa)	7	Female	250	IL-10	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.	Result
17 (48h pa)	7	Female	250	IL-6	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.	Result

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TABLE 9-2 Cytokine Levels - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Measurement</u>	<u>Type</u>	<u>Marker</u>
17 (48h pa)	7		Female	251	IFN-gamma	Result	
17 (48h pa)	7		Female	251	Comment: Value below lowest level of quantification (= 4.0 pg/mL). Set to 4.0 pg/mL for mean value calculation.		
17 (48h pa)	7		Female	251	TNF-alpha	Result	
17 (48h pa)	7		Female	251	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.		
17 (48h pa)	7		Female	251	IL-1beta	Result	
17 (48h pa)	7		Female	251	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.		
17 (48h pa)	7		Female	251	IL-6	Result	
17 (48h pa)	7		Female	251	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.		
17 (48h pa)	7		Female	251	IL-10	Result	
17 (48h pa)	7		Female	252	Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.		
17 (48h pa)	7		Female	252	TNF-alpha	Result	
17 (48h pa)	7		Female	252	Comment: Value below lowest level of quantification (= 7.1 pg/mL). Set to 7.1 pg/mL for mean value calculation.		
17 (48h pa)	7		Female	252	IL-1beta	Result	
17 (48h pa)	7		Female	252	Comment: Value below lowest level of quantification (= 12.6 pg/mL). Set to 12.6 pg/mL for mean value calculation.		
17 (48h pa)	7		Female	252	IL-6	Result	
17 (48h pa)	7		Female	252	Comment: Value below lowest level of quantification (= 3.0 pg/mL). Set to 3.0 pg/mL for mean value calculation.		
17 (48h pa)	7		Female	252	IL-10	Result	
					Comment: Value below lowest level of quantification (= 9.9 pg/mL). Set to 9.9 pg/mL for mean value calculation.		

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TABLE 10-1 Urinalysis - Summary

Day: 10 Relative to Start Date		Urinalysis			Rat
Sex: Male		Specific Gravity (g/mL)	pH	Urine Volume - relative - (mL/kg b.w./24 h)	
Group 6: 30 µg/ animal	[a]	[a]	[a]	[a]	
BNT162c1	Mean SD N	1.0385n 0.0130 10	6.94n 0.42 10	37.00n 12.32 10	-

[a] - Anova &amp; Dunnett: n - Inappropriate for statistics

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TABLE 10-1 Urinalysis - Summary

Day: 17 Relative to Start Date		Urinalysis			
Sex: Male		Specific Gravity (g/mL)	pH	Urine Volume - relative - (mL/kg b.w./24 h)	
		[a]	[a]	[a]	[a]
Group 1: Control	Mean SD N	1.0309 0.0057 10	6.55 0.20 10	45.80 5.62 10	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	1.0377 0.0109 10 0.7	6.82 0.40 10 4.1	43.72 13.40 10 4.5	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	1.0355 0.0050 10 0.4	6.77 0.23 10 3.4	38.80 7.32 10 -15.3	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	1.0445** 0.0081 10 1.3	6.62 0.26 10 1.1	30.81** 6.55 10 -32.7	

[a] - Anova & Dunnett(Rank). \*\* = p ≤ 0.01  
 [a] - Anova & Dunnett. \*\* = p ≤ 0.01

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TABLE 10-1 Urinalysis - Summary

Day: 17 Relative to Start Date		Urinalysis			
Sex: Male		Specific Gravity (g/mL)	pH	Urine Volume - relative - (mL/kg b.w./24 h)	
Group 5: 100 µg/ animal	Mean SD N	1.0458 ** 0.0145 10	[a] 6.62 0.32 10	[a] 33.79 * 9.05 10	
BNT162b1	%Diff	1.4	1.1	-26.2	
Group 7: 100 µg/ animal	Mean SD N	1.0463 ** 0.0122 10	[a] 6.35 0.27 10	[a] 31.67 ** 9.65 10	
BNT162b2	%Diff	1.5	-3.1	-30.9	

[a] - Anova & Dunnett: \* =  $p \leq 0.05$ ; \*\* =  $p \leq 0.01$

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TABLE 10-1 Urinalysis - Summary

Day: 31 Relative to Start Date		Urinalysis			Rat
Sex: Male		Specific Gravity (g/mL)	pH	Urine Volume - relative - (mL/kg b.w./24 h)	
Group 6: 30 µg/ animal BNT162c1	[a] Mean SD N	[a] 1.0694 n 0.0218 5	[a] 6.42 n 0.43 5	[a] 19.38 n 9.47 5	-

[a] - Anova &amp; Dunnett: n - Inappropriate for statistics

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TABLE 10-1 Urinalysis - Summary

Day: 38 Relative to Start Date		Urinalysis			
Sex: Male		Specific Gravity (g/mL)	pH	Urine Volume - relative - (mL/kg b.w./24 h)	
Group 1: Control	Mean SD N	1.0374 0.0054 5	[a] 6.90 0.29 5	[a] 27.59 8.85 5	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	1.0384 0.0065 5 0.1	- 6.68 0.32 5	- 28.00 5.30 5	
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	1.0424 0.0170 5 0.5	- 6.56 0.27 5	- 29.80 7.62 5	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	1.0538 0.0248 5 1.6	- 6.56 0.30 5	- 25.98 14.86 5	-5.8

[a] - Anova & Dunnett(Rank)  
 [a1] - Anova & Dunnett

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TABLE 10-1 Urinalysis - Summary

Day: 38 Relative to Start Date		Urinalysis			
Sex: Male		Specific Gravity (g/mL)	pH	Urine Volume - relative - (mL/kg b.w./24 h)	
Group 5: 100 µg/ animal	Mean SD N	1.0494 0.0158 5	[a] 6.74 0.15 5	[a] 25.73 11.11 5	
BNT162b1	%Diff	1.2	-2.3		
Group 7: 100 µg/ animal	Mean SD N	1.0352 0.0026 5	[a] 6.74 0.34 5	[a] 34.74 4.99 5	
BNT162b2	%Diff	-0.2	-2.3	[a] 25.9	

[a] - Anova &amp; Dunnett

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TABLE 10-1      Urinalysis - Summary

Day: 10 Relative to Start Date	Urinalysis				Rat
	Sex: Female	Specific Gravity (g/mL)	pH	Urine Volume - relative - (mL/kg b.w./24 h)	
Group 6: 30 µg/ animal BNT162c1	[a] Mean SD N	[a] 1.0377n 0.0130 10	[a] 6.46n 0.33 10	[a] 47.65n 15.30 10	
				-	

[a] - Anova & Dunnett: n - Inappropriate for statistics

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TABLE 10-1 Urinalysis - Summary

Day: 17 Relative to Start Date		Urinalysis			
Sex: Female		Specific Gravity (g/mL)	pH	Urine Volume - relative - (mL/kg b.w./24 h)	
Group 1: Control	Mean SD N	[a] 1.0349 0.0047 10	[a] 6.26 0.26 10	[a] 45.54 10.71 10	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	1.0391 0.0177 10 0.4	-	-	-
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	1.0408 0.0129 10 0.6	6.39 0.28 10 2.1	48.55 21.35 10 6.6	
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	1.0555** 0.0199 10 2.0	6.15 0.28 10 -1.8	32.31 11.72 10 -29.1	

[a] - Anova & Dunnett(Rank). \*\* = p ≤ 0.01  
 [a] - Anova & Dunnett

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TABLE 10-1 Urinalysis - Summary

Day: 17 Relative to Start Date		Urinalysis			Rat
Sex: Female		Specific Gravity (g/mL)	pH	Urine Volume - relative - (mL/kg b.w./24 h)	
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	1.0464 0.0157 10 1.1	[a] 0.21 10 0.2	[a] 6.27 0.21 10 0.2	38.55 13.43 10 -15.4
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	1.0400 0.0099 10 0.5	[a] 0.20 10 0.0	[a] 6.26 0.20 10 0.0	38.35 15.62 10 -15.8

[a] - Anova &amp; Dunnett

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TABLE 10-1      Urinalysis - Summary

Day: 31 Relative to Start Date		Urinalysis			Rat
Sex: Female		Specific Gravity (g/mL)	pH	Urine Volume - relative - (mL/kg b.w./24 h)	
Group 6: 30 µg/ animal BNT162c1	[a] Mean SD N	[a] 1.0406n 0.0081 5	[a] 6.18n 0.39 5	[a] 30.70n 5.74 5	
				-	

[a] - Anova & Dunnett: n - Inappropriate for statistics

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TABLE 10-1 Urinalysis - Summary

Day: 38 Relative to Start Date				Rat
Sex: Female		Urinalysis		
		Specific Gravity (g/mL)	pH	Urine Volume - relative - (mL/kg b.w./24 h)
Group 1: Control	Mean SD N	1.0484 0.0316 5	[a] 6.06 0.38 5	[a] 35.81 19.38 5
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	1.0504 0.0208 5 0.2	- 6.16 0.53 5 1.7	- 27.90 15.15 5 -22.1
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	1.0410 0.0074 5 -0.7	- 6.24 0.11 5 3.0	- 28.12 9.35 5 -21.5
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	1.0542 0.0256 5 0.6	- 6.26 0.38 5 3.3	- 26.63 14.99 5 -25.6

[a] - Anova & Dunnett(Rank)  
 [a] - Anova & Dunnett

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TABLE 10-1 Urinalysis - Summary

Day: 38 Relative to Start Date		Urinalysis			
Sex: Female		Specific Gravity (g/mL)	pH	Urine Volume - relative - (mL/kg b.w./24 h)	
		[a]	[a]	[a]	[a]
Group 5: 100 µg/ animal BNT162b1	Mean SD N %Diff	1.0474 0.0174 5 -0.1	6.48 0.31 5 6.9	28.22 17.07 5 -21.2	
Group 7: 100 µg/ animal BNT162b2	Mean SD N %Diff	1.0432 0.0151 5 -0.5	6.28 0.29 5 3.6	29.37 6.47 5 -18.0	

[a] - Anova &amp; Dunnett

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TABLE 10-1 Urinalysis - Summary

Page	Day	Group	Sex	Measurement		Marker	Comment
				Specific Gravity	pH		
10	6	Male	Male	n	Anova & Dunnett: n - Inappropriate for statistics		
10	6	Male	Male	n	Anova & Dunnett: n - Inappropriate for statistics		
10	6	Male	Male	n	Anova & Dunnett: n - Inappropriate for statistics		
17	4	Male	Male	**	Anova & Dunnett(Rank): ** = p ≤ 0.01		
17	4	Male	Male	**	Anova & Dunnett: ** = p ≤ 0.01		
17	5	Male	Male	**	Anova & Dunnett: ** = p ≤ 0.01		
17	5	Male	Male	*	Anova & Dunnett: * = p ≤ 0.05		
17	7	Male	Male	**	Anova & Dunnett: ** = p ≤ 0.01		
17	7	Male	Male	**	Anova & Dunnett: ** = p ≤ 0.01		
31	6	Male	Male	n	Anova & Dunnett: n - Inappropriate for statistics		
31	6	Male	Male	n	Anova & Dunnett: n - Inappropriate for statistics		
31	6	Male	Male	n	Anova & Dunnett: n - Inappropriate for statistics		

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TABLE 10-1 Urinalysis - Summary

Page	Day	Group	Sex	Comments and Markers	
				Measurement	Marker
10	6	Female	Female	Specific Gravity	n
10	6	Female	Female	pH	n
10	6	Female	Female	Urine Volume - relative -	n
17	4	Female	Female	Specific Gravity	**
31	6	Female	Female	Specific Gravity	n
31	6	Female	Female	pH	n
31	6	Female	Female	Urine Volume - relative -	n

Anova & Dunnett: n - Inappropriate for statistics  
Anova & Dunnett(Rank): \*\* = p ≤ 0.01  
Anova & Dunnett: n - Inappropriate for statistics  
Anova & Dunnett: n - Inappropriate for statistics  
Anova & Dunnett: n - Inappropriate for statistics

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TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 10 Relative to Start Date	Urinalysis				Rat
Group 6: 30 µg/ animal BNT162c1	Colour	Specific Gravity (g/mL)	pH	Urine Volume -absolute- (mL/animal/ 16 h)	Urine Volume -relative- (mL/kg b.w./24 h)	
151	SC	1.032	6.8	6.6	34.7	
152	LC	1.052	6.6	5.1	23.2	
153	LC	1.058	6.3	3.5	18.7	
154	SC	1.025	7.2	9.9	48.2	
155	SC	1.029	7.4	10.0	47.4	
156	SC	1.034	7.0	7.3	36.8	
157	SC	1.027	7.3	12.6	57.2	
158	SC	1.042	7.1	6.8	37.4	
159	SC	1.028	7.4	8.8	42.2	
160	LC	1.058	6.3	4.4	24.0	
Mean	-	1.0385	6.94	7.50	37.00	
SD	-	0.0130	0.42	2.84	12.32	
N	-	10	10	10	10	

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TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Urinalysis				Rat
Group 1: Control		Colour	Specific Gravity (g/mL)	pH	Urine Volume -absolute- (mL/animal/ 16 h)	Urine Volume -relative- (mL/kg b.w./24 h)
1	SC		1.026	6.6	12.0	51.3
2	SC		1.044	6.5	7.9	34.3
3	SC		1.028	6.4	11.1	44.2
4	SC		1.024	7.0	11.8	48.9
5	SC		1.034	6.6	10.5	44.8
6	SC		1.034	6.3	11.3	44.9
7	SC		1.030	6.6	11.8	49.8
8	SC		1.033	6.4	10.4	42.7
9	SC		1.029	6.7	10.7	42.7
10	SC		1.027	6.4	13.4	54.4
Mean	-		1.0309	6.55	11.09	45.80
SD	-		0.0057	0.20	1.43	5.62
N	-		10	10	10	10

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RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Urinalysis				Rat
Group 2: 30 µg/ animal BNT162a1		Colour	Specific Gravity (g/mL)	pH	Urine Volume -absolute- (mL/animal/ 16 h)	Urine Volume -relative- (mL/kg b.w./24 h)
31	SC		1.030	6.7	7.5	38.6
32	SC		1.032	7.3	9.4	48.0
33	LC		1.060	6.0	5.2	24.4
34	SC		1.031	7.0	9.2	45.4
35	SC		1.031	7.0	12.2	59.7
36	SC		1.037	6.8	8.1	40.4
37	LC		1.045	7.1	6.5	32.0
38	SC		1.029	7.1	12.9	61.8
39	LC		1.052	6.3	4.9	28.2
40	SC		1.030	6.9	11.5	58.7
Mean	-		1.0377	6.82	8.74	43.72
SD	-		0.0109	0.40	2.82	13.40
N	-		10	10	10	10

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RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Urinalysis				Rat
Group 3: 10 µg/ animal BNT162a1		Colour	Specific Gravity (g/mL)	pH	Urine Volume -absolute- (mL/animal/ 16 h)	Urine Volume -relative- (mL/kg b.w./24 h)
61	SC		1.032	7.1	9.8	39.0
62	SC		1.032	7.1	9.1	42.0
63	SC		1.038	6.8	9.7	38.9
64	LC		1.039	6.7	8.6	37.0
65	LC		1.038	6.7	7.3	30.8
66	SC		1.030	7.0	10.3	44.5
67	SC		1.028	6.7	11.3	44.3
68	LC		1.045	6.5	4.9	24.8
69	SC		1.036	6.5	11.3	50.6
70	SC		1.037	6.6	8.9	36.1
Mean	-		1.0355	6.77	9.12	38.80
SD	-		0.0050	0.23	1.92	7.32
N	-		10	10	10	10

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RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Urinalysis				Rat
Group 4: 30 µg/ animal BNT162b1		Colour	Specific Gravity (g/mL)	pH	Urine Volume -absolute- (mL/animal/ 16 h)	Urine Volume -relative- (mL/kg b.w./24 h)
91	LC	1.050	6.4	5.5	25.1	
92	LC	1.060	6.5	5.3	25.2	
93	LC	1.049	6.5	5.3	24.6	
94	SC	1.035	6.6	8.2	38.5	
95	LC	1.045	6.6	5.7	26.2	
96	SC	1.030	7.3	10.1	43.0	
97	SC	1.043	6.7	7.9	36.5	
98	SC	1.044	6.4	6.7	31.2	
99	LC	1.045	6.6	6.0	26.3	
100	SC	1.044	6.6	6.7	31.6	
Mean	-	1.0445	6.62	6.74	30.81	
SD	-	0.0081	0.26	1.57	6.55	
N	-	10	10	10	10	

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TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Urinalysis				Rat
Group 5: 100 µg/ animal BNT162b1		Colour	Specific Gravity (g/mL)	pH	Urine Volume -absolute- (mL/animal/ 16 h)	Urine Volume -relative- (mL/kg b.w./24 h)
121	SC		1.039	6.9	9.0	37.6
122	SC		1.041	6.5	6.9	34.9
123	SC		1.038	7.0	7.2	32.8
124	SC		1.038	6.7	7.7	29.8
125	SC		1.034	6.9	10.2	49.2
126	LC		1.064	6.4	6.5	27.1
127	SC		1.035	6.6	7.8	37.2
128	SC		1.063	6.2	5.0	25.7
129	LC		1.072	6.1	4.0	18.8
130	SC		1.034	6.9	9.5	44.8
Mean	-		1.0458	6.62	7.38	33.79
SD	-		0.0145	0.32	1.93	9.05
N	-		10	10	10	10

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TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Urinalysis				Rat
Group 7: 100 µg/ animal BNT162b2		Colour	Specific Gravity (g/mL)	pH	Urine Volume -absolute- (mL/animal/ 16 h)	Urine Volume -relative- (mL/kg b.w./24 h)
181	LC		1.048	6.1	4.7	19.9
182	LC		1.049	6.2	5.5	28.0
183	LC		1.070	6.0	4.0	18.7
184	LC		1.054	6.4	5.4	26.3
185	SC		1.035	6.6	9.3	40.0
186	LC		1.060	6.2	6.4	33.0
187	SC		1.037	6.4	8.0	37.6
188	LC		1.041	6.2	5.1	24.1
189	SC		1.036	6.5	9.2	44.7
190	SC		1.033	6.9	9.5	44.2
Mean	-		1.0463	6.35	6.71	31.67
SD	-		0.0122	0.27	2.10	9.65
N	-		10	10	10	10

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RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 31 Relative to Start Date	Urinalysis				Rat
Group 6: 30 µg/ animal BNT162c1		Colour	Specific Gravity (g/mL)	pH	Urine Volume -absolute- (mL/animal/ 16 h)	Urine Volume -relative- (mL/kg b.w./24 h)
161	LC		1.082	6.1	3.1	11.2
162	LC		1.092	6.1	3.6	14.9
163	LC		1.064	7.1	5.9	20.6
164	SC		1.035	6.6	9.1	35.2
165	LC		1.074	6.2	4.3	14.9
Mean	-		1.0694	6.42	5.20	19.38
SD	-		0.0218	0.43	2.42	9.47
N	-		5	5	5	5

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TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Urinalysis				Rat
Group 1: Control		Colour	Specific Gravity (g/mL)	pH	Urine Volume -absolute-(mL/animal/16 h)	Urine Volume - relative -(mL/kg b.w./24 h)
11	SC		1.045	6.8	6.1	21.5
12	SC		1.035	6.7	9.3	32.3
13	SC		1.034	6.9	10.0	33.9
14	SC		1.032	7.4	9.5	35.2
15	SC		1.041	6.7	4.5	15.1
Mean	-	1.0374	6.90	7.88	27.59	
SD	-	0.0054	0.29	2.44	8.85	
N	-	5	5	5	5	

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TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Urinalysis				Rat
Group 2: 30 µg/ animal BNT162a1		Colour	Specific Gravity (g/mL)	pH	Urine Volume -absolute- (mL/animal/ 16 h)	Urine Volume -relative- (mL/kg b.w./24 h)
41	SC		1.037	6.3	7.0	26.7
42	SC		1.047	6.6	5.5	20.6
43	SC		1.034	7.1	10.6	34.5
44	SC		1.031	6.9	7.3	26.6
45	SC		1.043	6.5	8.9	31.6
Mean	-	1.0384		6.68	7.86	28.00
SD	-	0.0065		0.32	1.95	5.30
N	-	5		5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Urinalysis				Rat
Group 3: 10 µg/ animal BNT162a1		Colour	Specific Gravity (g/mL)	pH	Urine Volume -absolute- (mL/animal/ 16 h)	Urine Volume -relative- (mL/kg b.w./24 h)
71	SC		1.025	6.6	12.0	40.2
72	SC		1.070	6.5	5.6	20.7
73	SC		1.045	6.4	6.5	24.3
74	SC		1.036	7.0	10.2	32.8
75	SC		1.036	6.3	10.0	31.0
Mean	-	1.0424		6.56	8.86	29.80
SD	-	0.0170		0.27	2.70	7.62
N	-	5		5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Urinalysis				Rat
Group 4: 30 µg/ animal BNT162b1		Colour	Specific Gravity (g/mL)	pH	Urine Volume -absolute- (mL/animal/ 16 h)	Urine Volume -relative- (mL/kg b.w./24 h)
101	SC		1.032	6.8	12.4	47.5
102	SC		1.045	6.7	4.5	16.7
103	SC		1.034	6.8	11.4	34.2
104	SC		1.068	6.4	6.1	21.3
105	LC		1.090	6.1	3.0	10.3
Mean	-	1.0538	6.56	7.48	25.98	
SD	-	0.0248	0.30	4.20	14.86	
N	-	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Urinalysis				Rat
Group 5: 100 µg/ animal BNT162b1		Colour	Specific Gravity (g/mL)	pH	Urine Volume -absolute- (mL/animal/ 16 h)	Urine Volume -relative- (mL/kg b.w./24 h)
131	SC		1.037	6.8	7.5	24.4
132	SC		1.060	6.9	5.5	20.2
133	SC		1.062	6.7	6.2	23.7
134	SC		1.028	6.8	13.0	44.6
135	LC		1.060	6.5	4.3	15.7
Mean	-	1.0494	6.74	7.30	25.73	
SD	-	0.0158	0.15	3.39	11.11	
N	-	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Urinalysis				Rat
Group 7: 100 µg/ animal BNT162b2		Colour	Specific Gravity (g/mL)	pH	Urine Volume -absolute- (mL/animal/ 16 h)	Urine Volume -relative- (mL/kg b.w./24 h)
191	SC		1.032	7.2	11.0	40.9
192	SC		1.039	6.9	7.7	27.0
193	SC		1.036	6.3	10.5	35.4
194	SC		1.035	6.7	9.0	36.0
195	SC		1.034	6.6	10.0	34.4
Mean	-	1.0352		6.74	9.64	34.74
SD	-	0.0026		0.34	1.31	4.99
N	-	5		5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 10 Relative to Start Date	Urinalysis				Organisms	Further constituents	Rat
		Leucocytes	Erythrocytes	Cystalluria	Epithelial cells			
Group 6: 30 µg/ animal	BNT162c1							
151	0	0	+++	0	0	0	0	
152	0	0	+++	0	0	0	0	
153	+	0	+++	0	0	0	0	
154	0	0	+++	0	0	0	0	
155	0	0	+++	0	0	0	0	
156	0	0	+++	0	0	0	0	
157	0	0	+++	0	0	0	0	
158	0	0	+++	0	0	0	0	
159	0	0	+++	0	0	0	0	
160	0	0	++	0	0	0	0	

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RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Urinalysis						Further constituents
		Leucocytes	Erythrocytes	Cystalluria	Epithelial cells	Organisms		
Group 1: Control	1	0	0	++	0	0	0	0
	2	0	+	+++	0	0	0	0
	3	0	0	0	0	0	0	0
	4	+	0	0	0	0	0	0
	5	0	0	0	0	0	0	0
	6	0	0	0	+	0	0	0
	7	0	+	0	0	0	0	0
	8	0	0	0	0	0	0	0
	9	0	0	0	0	0	0	0
	10	0	0	0	0	0	0	0

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Urinalysis						Further constituents
		Leucocytes	Erythrocytes		Cystalluria	Epithelial cells	Organisms	
Group 2: 30 µg/ animal BNT162a1	31	0	0		++	0	0	0
	32	0	0		+++	0	0	0
	33	0	0	+	0	0	0	0
	34	0	0		+++	0	0	0
	35	0	0		+++	0	0	0
	36	0	0		+++	0	0	0
	37	0	0		+++	0	0	0
	38	0	0		++	0	0	0
	39	0	0		++	0	0	0
	40	0	0		+++	0	0	0

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Urinalysis				Organisms	Further constituents
		Leucocytes	Erythrocytes	Crystalluria	Epithelial cells		
Group 3: 10 µg/ animal	BNT162a1	0	0	+++	0	0	0
61	0	0	+++	+++	0	0	0
62	0	0	+++	+++	0	0	0
63	0	0	+++	+++	0	0	0
64	0	0	+++	+++	0	0	0
65	0	0	+++	+++	0	0	0
66	0	0	+++	+++	0	0	0
67	0	0	+++	+++	0	0	0
68	0	0	++	++	0	0	0
69	0	0	++	++	0	0	0
70	0	0	++	++	0	0	0

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Urinalysis				Organisms	Further constituents
		Leucocytes	Erythrocytes	Cystalluria	Epithelial cells		
Group 4: 30 µg/ animal BNT162b1	91	0	0	+++	0	0	0
	92	0	0	+++	0	0	0
	93	0	0	+++	0	0	0
	94	0	0	+	0	0	0
	95	0	0	+++	0	0	0
	96	0	0	++	0	0	0
	97	0	0	+++	0	0	0
	98	0	0	++	0	0	0
	99	0	0	+++	0	0	0
	100	0	0	+++	0	0	0

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Urinalysis				Organisms	Further constituents	Rat
		Leucocytes	Erythrocytes	Cystalluria	Epithelial cells			
Group 5: 100 µg/ animal BNT162b1	121	0	0	+++	0	0	0	
	122	0	0	++	0	0	0	
	123	0	0	+++	0	0	0	
	124	0	0	++	0	0	0	
	125	0	0	++	0	0	0	
	126	0	0	+++	0	0	0	
	127	0	0	++	0	0	0	
	128	0	0	+	0	0	0	
	129	0	0	+++	0	0	0	
	130	0	0					

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TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Urinalysis				Organisms	Further constituents	Rat
		Leucocytes	Erythrocytes	Cystalluria	Epithelial cells			
Group 7: 100 µg/ animal BNT162b2	181	0	0	0	0	0	0	
	182	0	0	0	0	0	0	
	183	+	0	0	+	0	0	
	184	+	0	0	++	0	0	
	185	0	0	0	+++	0	0	
	186	+	0	0	+++	0	0	
	187	0	0	0	0	0	0	
	188	0	0	0	0	0	0	
	189	0	0	0	++	0	0	
	190	0	0	0	+++	0	0	

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RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 31 Relative to Start Date	Urinalysis				Rat	
Group 6: 30 µg/ animal		Leucocytes	Erythrocytes	Crystalluria	Epithelial cells	Organisms	Further constituents
161	+	0	0	0	0	0	0
162	0	0	0	+++	0	0	0
163	0	0	0	+++	0	0	0
164	0	0	0	++	0	0	0
165	0	0	0	+	0	0	0

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Urinalysis						Rat
		Leucocytes	Erythrocytes	Cystalluria	Epithelial cells	Organisms	Further constituents	
Group 1: Control								
11	0	0	+++	0	0	0	0	
12	0	0	++	0	0	0	0	
13	0	0	+++	0	0	0	0	
14	0	0	+++	0	0	0	0	
15	+	0	+++	0	0	0	0	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Urinalysis						Organisms	Further constituents
		Leucocytes	Erythrocytes		Cystalluria		Epithelial cells		
Group 2: 30 µg/ animal BNT162a1									
41	0		+		+++		0	0	0
42	0		0		+++		0	0	0
43	0		0		+++		0	0	0
44	0		0		+++		0	0	0
45	0		0		++		0	0	0

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Urinalysis				Rat	
Group 3: 10 µg/ animal		Leucocytes	Erythrocytes	Crystalluria	Epithelial cells	Organisms	Further constituents
71	0	0	0	+	0	0	0
72	0	0	0	+++	0	0	0
73	0	0	0	+	0	0	0
74	0	0	0	+++	0	0	0
75	0	+	+	+	0	0	0

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Urinalysis						Organisms	Further constituents
		Leucocytes	Erythrocytes	Cystalluria	Epithelial cells				
<b>Group 4: 30 µg/ animal BNT162b1</b>									
101	0	0	0	0	0	+	0	0	0
102	+	0	0	+++	0	0	0	0	0
103	0	0	0	+++	0	0	0	0	0
104	0	0	0	+++	0	0	0	0	0
105	0	0	0	+	0	0	0	0	0

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Urinalysis						Organisms	Further constituents
		Leucocytes	Erythrocytes		Cystalluria		Epithelial cells		
<b>Group 5: 100 µg/ animal BNT162b1</b>									
131	0	0		+++		0	0	0	0
132	0	0		+++		0	0	0	0
133	0	0		+++		0	0	0	0
134	0	0		+++		0	0	0	0
135	0	0		+++		0	0	0	0

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Urinalysis				Further constituents	
Group 7: 100 µg/ animal		Leucocytes	Erythrocytes	Crystalluria	Epithelial cells	Organisms	
191	0	0	+	++	0	0	0
192	0	0	0	+++	0	0	0
193	++	0	0	0	0	0	0
194	0	0	0	++	0	0	0
195	0	0	0	+	0	0	0

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 10 Relative to Start Date	Urinalysis						Rat
		Nitrite	Protein (g/L)	Glucose (mmol/L)	Ketones	Urobilinogen (μmol/L)	Bilirubin	
<b>Group 6: 30 µg/ animal BNT162c1</b>								
151	pos	0.3	normal	neg	normal	normal	neg	10
152	pos	0.3	normal	neg	normal	normal	neg	10
153	neg	0.3	normal	neg	normal	normal	neg	10
154	pos	0.3	normal	neg	normal	normal	neg	10
155	neg	0.3	normal	neg	normal	normal	neg	10
156	pos	0.3	normal	neg	normal	normal	neg	10
157	pos	0.3	normal	neg	normal	normal	neg	10
158	neg	0.3	normal	neg	normal	normal	neg	10
159	pos	0.3	normal	neg	normal	normal	neg	10
160	neg	0.3	normal	neg	normal	normal	neg	10

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RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Urinalysis						Rat
		Nitrite	Protein (g/L)	Glucose (mmol/L)	Ketones	Urobilinogen (μmol/L)	Bilirubin	
Group 1: Control								
1	pos	neg	0.3	normal	neg	normal	neg	neg
2	neg	neg	0.3	normal	neg	normal	neg	neg
3	pos	neg	0.3	normal	neg	normal	neg	neg
4	pos	neg	0.3	normal	neg	normal	neg	10
5	neg	pos	0.3	normal	neg	normal	neg	10
6	pos	pos	0.3	normal	neg	normal	neg	neg
7	pos	neg	0.3	normal	neg	normal	neg	neg
8	pos	neg	0.3	normal	neg	normal	neg	neg
9	pos	neg	0.3	normal	neg	normal	neg	neg
10	pos	neg	0.3	normal	neg	normal	neg	neg

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Urinalysis						Rat
		Nitrite	Protein (g/L)	Glucose (mmol/L)	Ketones	Urobilinogen (μmol/L)	Bilirubin	
<b>Group 2: 30 µg/ animal BNT162a1</b>								
31	pos	0.3	normal	neg	normal	normal	neg	10
32	pos	0.3	normal	neg	normal	normal	neg	250
33	neg	0.3	normal	neg	normal	normal	neg	10
34	pos	0.3	normal	neg	normal	normal	neg	10
35	pos	0.3	normal	neg	normal	normal	neg	10
36	pos	0.3	normal	neg	normal	normal	neg	10
37	pos	0.3	normal	neg	normal	normal	neg	10
38	pos	0.3	normal	neg	normal	normal	neg	10
39	neg	0.3	normal	neg	normal	normal	neg	10
40	pos	neg	normal	neg	normal	normal	neg	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Urinalysis						Rat
		Nitrite	Protein (g/L)	Glucose (mmol/L)	Ketones	Urobilinogen (μmol/L)	Bilirubin	
<b>Group 3: 10 µg/ animal BNT162a1</b>								
61	pos	0.3	normal	neg	normal	normal	neg	neg
62	pos	0.3	normal	neg	normal	normal	neg	neg
63	neg	0.3	normal	neg	normal	normal	neg	neg
64	neg	0.3	normal	neg	normal	normal	neg	neg
65	neg	0.3	normal	neg	normal	normal	neg	neg
66	pos	0.3	normal	neg	normal	normal	neg	neg
67	pos	0.3	normal	neg	normal	normal	neg	neg
68	neg	0.3	normal	neg	normal	normal	neg	neg
69	pos	0.3	normal	neg	normal	normal	neg	neg
70	neg	0.3	normal	neg	normal	normal	neg	neg

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Urinalysis						Rat
		Nitrite	Protein (g/L)	Glucose (mmol/L)	Ketones	Urobilinogen (μmol/L)	Bilirubin	
<b>Group 4: 30 µg/ animal BNT162b1</b>								
91	pos	0.3	normal	neg	normal	normal	neg	10
92	neg	0.3	normal	neg	normal	normal	neg	neg
93	neg	0.3	normal	neg	normal	normal	neg	25
94	pos	0.3	normal	neg	normal	normal	neg	neg
95	neg	0.3	normal	neg	normal	normal	neg	neg
96	pos	0.3	normal	neg	normal	normal	neg	neg
97	pos	0.3	normal	neg	normal	normal	neg	neg
98	neg	0.3	normal	neg	normal	normal	neg	10
99	neg	0.3	normal	neg	normal	normal	neg	10
100	pos	0.3	normal	neg	normal	normal	neg	neg

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RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Urinalysis						Rat
		Nitrite	Protein (g/L)	Glucose (mmol/L)	Ketones	Urobilinogen (μmol/L)	Bilirubin	
<b>Group 5: 100 µg/ animal BNT162b1</b>								
121	pos	0.3	normal	neg	normal	normal	neg	neg
122	pos	0.3	normal	neg	normal	normal	neg	10
123	neg	0.3	normal	neg	normal	normal	neg	neg
124	pos	0.3	normal	neg	normal	normal	neg	neg
125	pos	0.3	normal	neg	normal	normal	neg	neg
126	neg	5.0	normal	neg	normal	normal	neg	10
127	pos	0.3	normal	neg	normal	normal	neg	neg
128	neg	1.0	normal	neg	normal	normal	neg	neg
129	neg	1.0	normal	neg	normal	normal	neg	neg
130	pos	0.3	normal	neg	normal	normal	neg	neg

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RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Urinalysis						Rat
		Nitrite	Protein (g/L)	Glucose (mmol/L)	Ketones	Urobilinogen (μmol/L)	Bilirubin	
Group 7: 100 µg/ animal BNT162b2	181	neg	0.3	normal	neg	normal	neg	neg
	182	neg	0.3	normal	neg	normal	neg	neg
	183	neg	5.0	normal	neg	normal	neg	10
	184	neg	0.3	normal	neg	normal	neg	10
	185	pos	0.3	normal	neg	normal	neg	neg
	186	neg	1.0	normal	neg	normal	neg	10
	187	neg	0.3	normal	neg	normal	neg	neg
	188	pos	0.3	normal	neg	normal	neg	10
	189	pos	0.3	normal	neg	normal	neg	neg
	190	neg	0.3	normal	neg	normal	neg	neg

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 31 Relative to Start Date	Urinalysis						Rat
		Nitrite	Protein (g/L)	Glucose (mmol/L)	Ketones	Urobilinogen (μmol/L)	Bilirubin	
<b>Group 6: 30 µg/ animal BNT162c1</b>								
161	neg	0.3	normal	neg	normal	neg	neg	neg
162	neg	0.3	normal	neg	normal	neg	10	neg
163	neg	0.3	normal	neg	normal	neg	neg	neg
164	pos	0.3	normal	neg	normal	neg	neg	neg
165	neg	0.3	normal	neg	normal	neg	neg	neg

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Urinalysis						Rat
		Nitrite	Protein (g/L)	Glucose (mmol/L)	Ketones	Urobilinogen (μmol/L)	Bilirubin	
Group 1: Control								
11	neg	0.3	normal	neg	normal	neg	neg	neg
12	pos	0.3	normal	neg	normal	neg	neg	neg
13	neg	0.3	normal	neg	normal	neg	neg	neg
14	pos	0.3	normal	neg	normal	neg	neg	neg
15	pos	0.3	normal	neg	normal	neg	neg	neg

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Urinalysis						Rat
		Nitrite	Protein (g/L)	Glucose (mmol/L)	Ketones	Urobilinogen (μmol/L)	Bilirubin	
<b>Group 2: 30 µg/ animal BNT162a1</b>								
41	pos	0.3	normal	neg	normal	neg	neg	neg
42	pos	0.3	normal	neg	normal	neg	neg	neg
43	pos	0.3	normal	neg	normal	neg	neg	neg
44	neg	0.3	normal	neg	normal	neg	neg	neg
45	pos	0.3	normal	neg	normal	neg	neg	neg

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Urinalysis						Rat
		Nitrite	Protein (g/L)	Glucose (mmol/L)	Ketones	Urobilinogen (μmol/L)	Bilirubin	
<b>Group 3: 10 µg/ animal BNT162a1</b>								
71	neg	0.3	normal	neg	normal	neg	neg	neg
72	neg	0.3	normal	neg	normal	neg	neg	neg
73	neg	0.3	normal	neg	normal	neg	neg	neg
74	pos	0.3	normal	neg	normal	neg	10	neg
75	pos	0.3	normal	neg	normal	neg	neg	neg

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Urinalysis						Rat
		Nitrite	Protein (g/L)	Glucose (mmol/L)	Ketones	Urobilinogen (μmol/L)	Bilirubin	
<b>Group 4: 30 µg/ animal BNT162b1</b>								
101	neg	0.3	normal	neg	normal	neg	neg	neg
102	pos	0.3	normal	neg	normal	neg	neg	neg
103	pos	0.3	normal	neg	normal	neg	neg	neg
104	neg	0.3	normal	neg	normal	neg	neg	neg
105	neg	1.0	normal	neg	normal	neg	neg	neg

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Urinalysis						Rat
		Nitrite	Protein (g/L)	Glucose (mmol/L)	Ketones	Urobilinogen (μmol/L)	Bilirubin	
<b>Group 5: 100 µg/ animal BNT162b1</b>								
131	pos	1.0	normal	neg	normal	neg	neg	neg
132	neg	0.3	normal	neg	normal	neg	neg	neg
133	neg	0.3	normal	neg	normal	neg	neg	neg
134	pos	0.3	normal	neg	normal	neg	neg	10
135	neg	0.3	normal	neg	normal	neg	neg	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Urinalysis						Rat
		Nitrite	Protein (g/L)	Glucose (mmol/L)	Ketones	Urobilinogen (μmol/L)	Bilirubin	
<b>Group 7: 100 µg/ animal BNT162b2</b>								
191	pos	0.3	normal	neg	normal	neg	neg	neg
192	neg	1.0	normal	neg	normal	neg	neg	neg
193	pos	0.3	normal	neg	normal	neg	neg	neg
194	neg	0.3	normal	neg	normal	neg	neg	neg
195	pos	0.3	normal	neg	normal	neg	neg	neg

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RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 10 Relative to Start Date	Urinalysis				Rat
Group 6: 30 µg/ animal BNT162c1	Colour	Specific Gravity (g/mL)	pH	Urine Volume -absolute- (mL/animal/ 16 h)	Urine Volume -relative- (mL/kg b.w./24 h)	
166	LC	1.064	6.2	4.9	33.4	
167	SC	1.028	6.6	8.2	54.7	
168	SC	1.030	6.8	7.8	59.5	
169	SC	1.031	6.7	8.1	53.7	
170	SC	1.037	6.6	5.5	32.3	
171	SC	1.030	6.7	8.2	56.7	
172	SC	1.023	6.4	10.3	74.0	
173	SC	1.034	6.7	7.3	52.4	
174	LC	1.054	5.8	3.8	26.8	
175	SC	1.046	6.1	4.9	33.2	
Mean	-	1.0377	6.46	6.90	47.65	
SD	-	0.0130	0.33	2.03	15.30	
N	-	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Urinalysis				Rat
Group 1: Control	Colour	Specific Gravity (g/mL)	pH	Urine Volume -absolute- (mL/animal/ 16 h)	Urine Volume -relative- (mL/kg b.w./24 h)	
16	SC	1.032	6.0	10.3	57.3	
17	SC	1.031	6.3	6.6	40.9	
18	SC	1.031	6.8	8.0	50.9	
19	LC	1.042	6.2	5.7	36.1	
20	SC	1.032	6.2	9.1	55.4	
21	SC	1.038	6.3	7.0	44.0	
22	SC	1.036	6.1	6.5	42.2	
23	SC	1.039	6.1	4.3	26.6	
24	SC	1.040	6.0	6.9	40.5	
25	SC	1.028	6.6	10.3	61.7	
Mean	-	1.0349	6.26	7.47	45.54	
SD	-	0.0047	0.26	1.95	10.71	
N	-	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Urinalysis				Rat
Group 2: 30 µg/ animal BNT162a1		Colour	Specific Gravity (g/mL)	pH	Urine Volume -absolute- (mL/animal/ 16 h)	Urine Volume -relative- (mL/kg b.w./24 h)
46	SC		1.029	6.4	3.6	23.1
47	SC		1.026	6.9	11.2	72.0
48	SC		1.025	6.3	12.0	71.0
49	LC		1.045	6.5	4.4	29.4
50	SC		1.033	6.4	8.0	51.2
51	SC		1.032	6.5	10.1	71.4
52	SC		1.028	6.7	10.9	70.4
53	LC		1.049	6.2	4.9	33.9
54	SC		1.040	6.0	6.3	42.2
55	LC		1.084	6.0	3.1	20.8
Mean	-		1.0391	6.39	7.45	48.55
SD	-		0.0177	0.28	3.41	21.35
N	-		10	10	10	10

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RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Urinalysis					Rat
Group 3: 10 µg/ animal BNT162a1		Colour	Specific Gravity (g/mL)	pH	Urine Volume -absolute- (mL/animal/ 16 h)	Urine Volume -relative- (mL/kg b.w./24 h)	
76	SC	1.028	6.3	10.2	64.2		
77	LC	1.060	6.2	4.7	30.2		
78	LC	1.040	6.1	4.7	32.0		
79	SC	1.035	6.1	9.8	52.6		
80	SC	1.033	6.4	6.3	45.0		
81	SC	1.034	6.5	7.5	47.9		
82	SC	1.042	6.1	6.4	34.4		
83	SC	1.034	6.6	7.2	47.2		
84	SC	1.034	6.3	8.4	54.5		
85	LC	1.068	6.1	2.8	18.2		
Mean	-	1.0408	6.27	6.80	42.62		
SD	-	0.0129	0.18	2.33	13.71		
N	-	10	10	10	10		

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RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Urinalysis				Rat
Group 4: 30 µg/ animal BNT162b1		Colour	Specific Gravity (g/mL)	pH	Urine Volume -absolute- (mL/animal/ 16 h)	Urine Volume -relative- (mL/kg b.w./24 h)
106	SC		1.043	6.5	6.1	36.0
107	LC		1.096	5.8	2.5	15.1
108	LC		1.046	6.3	5.0	31.7
109	SC		1.034	6.5	10.8	54.6
110	SC		1.039	6.3	6.2	37.2
111	SC		1.041	6.3	7.4	41.8
112	SC		1.068	6.0	4.7	31.2
113	SC		1.046	5.7	6.3	34.8
114	LC		1.070	5.9	3.7	24.0
115	SC		1.072	6.2	2.7	16.8
Mean	-		1.0555	6.15	5.54	32.31
SD	-		0.0199	0.28	2.45	11.72
N	-		10	10	10	10

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RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Urinalysis				Rat
Group 5: 100 µg/ animal BNT162b1	Colour	Specific Gravity (g/mL)	pH	Urine Volume -absolute- (mL/animal/ 16 h)	Urine Volume -relative- (mL/kg b.w./24 h)	
136	SC	1.044	5.9	6.7	38.3	
137	LC	1.070	6.1	3.3	21.8	
138	LC	1.078	6.2	2.5	17.3	
139	SC	1.032	6.4	8.5	52.4	
140	SC	1.033	6.5	8.6	58.5	
141	SC	1.044	6.4	6.7	40.5	
142	SC	1.049	6.1	4.3	28.7	
143	SC	1.033	6.3	8.8	52.4	
144	SC	1.042	6.2	6.6	39.1	
145	SC	1.039	6.6	6.4	36.5	
Mean	-	1.0464	6.27	6.24	38.55	
SD	-	0.0157	0.21	2.22	13.43	
N	-	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Urinalysis				Rat
Group 7: 100 µg/ animal BNT162b2		Colour	Specific Gravity (g/mL)	pH	Urine Volume -absolute- (mL/animal/ 16 h)	Urine Volume -relative- (mL/kg b.w./24 h)
196	LC		1.036	6.2	7.5	41.6
197	LC		1.046	6.6	5.4	37.6
198	SC		1.040	6.4	2.7	18.8
199	SC		1.040	6.0	6.0	42.8
200	LC		1.043	6.2	5.9	33.3
201	SC		1.038	6.0	4.4	29.1
202	SC		1.025	6.4	9.6	66.9
203	SC		1.027	6.4	9.6	60.5
204	LC		1.045	6.3	5.6	32.7
205	LC		1.060	6.1	3.1	20.1
Mean	-		1.0400	6.26	5.98	38.35
SD	-		0.0099	0.20	2.37	15.62
N	-		10	10	10	10

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RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 31 Relative to Start Date	Urinalysis				Rat
Group 6: 30 µg/ animal BNT162c1		Colour	Specific Gravity (g/mL)	pH	Urine Volume -absolute- (mL/animal/ 16 h)	Urine Volume -relative- (mL/kg b.w./24 h)
176	SC		1.054	5.8	3.6	21.5
177	SC		1.039	6.2	5.1	28.8
178	LC		1.038	6.2	5.7	35.3
179	SC		1.040	5.9	5.8	33.6
180	SC		1.032	6.8	7.4	34.3
Mean	-	1.0406	6.18	5.52	30.70	
SD	-	0.0081	0.39	1.37	5.74	
N	-	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Urinalysis				Rat
Group 1: Control		Colour	Specific Gravity (g/mL)	pH	Urine Volume -absolute-(mL/animal/16 h)	Urine Volume - relative -(mL/kg b.w./24 h)
26	SC		1.096	5.6	2.5	14.3
27	SC		1.025	6.4	10.2	47.6
28	SC		1.026	6.2	12.5	56.1
29	SC		1.029	6.4	8.5	45.3
30	SC		1.066	5.7	3.0	15.8
Mean	-	1.0484	6.06	7.34	35.81	
SD	-	0.0316	0.38	4.43	19.38	
N	-	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Urinalysis				Rat
Group 2: 30 µg/ animal BNT162a1		Colour	Specific Gravity (g/mL)	pH	Urine Volume -absolute- (mL/animal/ 16 h)	Urine Volume -relative- (mL/kg b.w./24 h)
56	LC	1.070	5.5	2.8	15.0	
57	LC	1.036	6.4	3.5	19.4	
58	SC	1.027	6.9	11.2	53.4	
59	SC	1.045	6.1	5.9	29.2	
60	SC	1.074	5.9	4.1	22.5	
Mean	-	1.0504	6.16	5.50	27.90	
SD	-	0.0208	0.53	3.39	15.15	
N	-	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Urinalysis				Rat
Group 3: 10 µg/ animal BNT162a1		Colour	Specific Gravity (g/mL)	pH	Urine Volume -absolute- (mL/animal/ 16 h)	Urine Volume -relative- (mL/kg b.w./24 h)
86	SC	1.032	6.2	7.6	43.7	
87	SC	1.047	6.4	5.5	28.2	
88	SC	1.037	6.3	4.5	22.0	
89	SC	1.050	6.2	4.8	26.6	
90	SC	1.039	6.1	3.4	20.0	
Mean	-	1.0410	6.24	5.16	28.12	
SD	-	0.0074	0.11	1.56	9.35	
N	-	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Urinalysis				Rat
Group 4: 30 µg/ animal BNT162b1		Colour	Specific Gravity (g/mL)	pH	Urine Volume -absolute- (mL/animal/ 16 h)	Urine Volume -relative- (mL/kg b.w./24 h)
116	SC		1.032	6.4	8.7	44.7
117	SC		1.043	5.9	4.1	21.7
118	LC		1.090	6.3	2.1	10.3
119	LC		1.072	5.9	3.2	16.5
120	SC		1.034	6.8	7.3	39.9
Mean	-	1.0542	6.26	5.08	26.63	
SD	-	0.0256	0.38	2.80	14.99	
N	-	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Urinalysis				Rat
Group 5: 100 µg/ animal BNT162b1		Colour	Specific Gravity (g/mL)	pH	Urine Volume -absolute- (mL/animal/ 16 h)	Urine Volume -relative- (mL/kg b.w./24 h)
146	SC		1.060	6.2	2.4	13.8
147	SC		1.070	6.1	3.0	16.3
148	SC		1.032	6.6	7.0	38.1
149	SC		1.045	6.8	4.0	19.5
150	SC		1.030	6.7	10.5	53.5
Mean	-	1.0474		6.48	5.38	28.22
SD	-	0.0174		0.31	3.36	17.07
N	-	5		5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Urinalysis				Rat
Group 7: 100 µg/ animal BNT162b2		Colour	Specific Gravity (g/mL)	pH	Urine Volume -absolute- (mL/animal/ 16 h)	Urine Volume -relative- (mL/kg b.w./24 h)
206	SC		1.070	5.9	3.5	20.7
207	SC		1.035	6.2	5.5	30.1
208	SC		1.040	6.7	4.0	25.1
209	SC		1.036	6.4	6.4	35.4
210	SC		1.035	6.2	7.0	35.5
Mean	-	1.0432	6.28	5.28	29.37	
SD	-	0.0151	0.29	1.51	6.47	
N	-	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 10 Relative to Start Date	Urinalysis				Further constituents	
Group 6: 30 µg/ animal		Leucocytes	Erythrocytes	Cystalluria	Epithelial cells	Organisms	
166	+	0	0	0	0	0	0
167	0	0	0	0	0	0	0
168	+	0	0	0	0	0	0
169	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0
171	++	0	0	0	0	0	0
172	++	0	0	0	0	0	0
173	+	0	0	0	0	0	0
174	+	0	0	0	0	0	0
175	0	0	0	0	0	0	0

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Urinalysis				Organisms	Further constituents
		Leucocytes	Erythrocytes	Cystalluria	Epithelial cells		
Group 1: Control	16	0	0	0	0	0	0
	17	+++	0	0	0	0	0
	18	0	0	0	0	0	0
	19	0	0	0	0	0	0
	20	+	0	0	0	0	0
	21	0	0	0	0	0	0
	22	0	0	0	+	0	0
	23	0	0	0	0	0	0
	24	+++	0	0	0	0	0
	25	0					

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Urinalysis				Organisms	Further constituents
		Leucocytes	Erythrocytes	Cystalluria	Epithelial cells		
Group 2: 30 µg/ animal BNT162a1	46	+	0	0	0	0	0
	47	0	0	0	0	0	0
	48	+	0	0	0	0	0
	49	0	0	0	0	0	0
	50	0	0	0	0	0	0
	51	0	0	0	0	0	0
	52	0	0	0	0	0	0
	53	0	0	0	0	0	0
	54	+++	0	0	0	0	0
	55	++	0	0	0	0	0

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Urinalysis				Organisms	Further constituents
		Leucocytes	Erythrocytes	Cystalluria	Epithelial cells		
Group 3: 10 µg/ animal	BNT162a1						
76		+	0	0	0	0	0
77		+	0	+	+	0	0
78		0	0	0	0	0	0
79		0	0	0	0	0	0
80		++	0	0	0	0	0
81		+	0	0	0	0	0
82		0	0	0	0	0	0
83		+	0	0	0	0	0
84		++	0	0	0	0	0
85		0	0	0	+	0	0

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Urinalysis				Organisms	Further constituents
		Leucocytes	Erythrocytes	Cystalluria	Epithelial cells		
Group 4: 30 µg/ animal	BNT162b1						
106		0	0	0	0	0	0
107		0	0	0	0	0	0
108		0	0	0	0	0	0
109		0	0	0	0	0	0
110		0	0	+	0	0	0
111		+	0	0	0	0	0
112		+++	0	0	0	0	0
113		+	0	0	0	0	0
114		0	0	0	0	0	0
115		0	0	0	++	0	0

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Urinalysis				Organisms	Further constituents
		Leucocytes	Erythrocytes	Cystalluria	Epithelial cells		
Group 5: 100 µg/ animal BNT162b1	136	0	0	0	0	0	0
	137	0	0	++	0	0	0
	138	0	0	+	0	0	0
	139	+	0	0	0	0	0
	140	++	0	0	0	0	0
	141	0	0	+	0	0	0
	142	+	0	0	0	0	0
	143	++	0	0	0	0	0
	144	+++	0	0	0	0	0
	145	+	0	0	0	0	0

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Urinalysis				Organisms	Further constituents
		Leucocytes	Erythrocytes	Cystalluria	Epithelial cells		
Group 7: 100 µg/ animal BNT162b2	196	++	0	0	0	0	0
	197	0	0	++	0	0	0
	198	++	0	0	0	0	0
	199	+	0	0	0	0	0
	200	+	0	0	+	0	0
	201	+	0	0	0	0	0
	202	+	0	0	0	0	0
	203	++	0	0	0	0	0
	204	++	0	0	+	0	0
	205	+	0	0	0	0	0

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 31 Relative to Start Date	Urinalysis				Further constituents	
Group 6: 30 µg/ animal BNT162c1		Leucocytes	Erythrocytes	Cystalluria	Epithelial cells	Organisms	
176	0	0	0	0	0	0	0
177	0	0	0	0	0	0	0
178	0	0	0	0	0	0	0
179	0	0	0	0	0	0	0
180	0	0	++	++	0	0	0

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Urinalysis				Rat	
Group 1: Control		Leucocytes	Erythrocytes	Crystalluria	Epithelial cells	Organisms	Further constituents
26	0	0	0	+++	0	0	0
27	0	0	0	0	0	0	0
28	+	0	0	0	0	0	0
29	+	0	0	0	0	0	0
30	0	0	0	0	0	0	0

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Urinalysis				Further constituents	
Group 2: 30 µg/ animal		Leucocytes	Erythrocytes	Cystalluria	Epithelial cells	Organisms	
56	0	0	0	0	0	0	0
57	0	0	0	++	0	0	0
58	0	0	0	0	0	0	0
59	0	0	0	0	0	0	0
60	0	0	0	0	+	0	0

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Urinalysis				Further constituents	
Group 3: 10 µg/ animal		Leucocytes	Erythrocytes	Cystalluria	Epithelial cells	Organisms	
86	0	0	0	0	0	0	0
87	0	0	0	+++	0	0	0
88	0	0	0	0	0	0	0
89	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Urinalysis				Further constituents	
Group 4: 30 µg/ animal		Leucocytes	Erythrocytes	Cystalluria	Epithelial cells	Organisms	
116	0	0	0	0	+	0	0
117	0	0	0	0	0	0	0
118	0	0	0	+	0	0	0
119	0	0	0	0	+	0	0
120	0	0	0	+	0	0	0

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Urinalysis				Further constituents	
Group 5: 100 µg/ animal		Leucocytes	Erythrocytes	Cystalluria	Epithelial cells	Organisms	
146	0	0	0	0	+	0	0
147	0	0	0	0	0	0	0
148	0	0	0	0	0	0	0
149	0	0	+	+	0	0	0
150	0	0	+	0	0	0	0

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Urinalysis				Further constituents	
Group 7: 100 µg/ animal		Leucocytes	Erythrocytes	Cystalluria	Epithelial cells	Organisms	
206	0	0	0	0	0	0	0
207	0	0	0	0	0	0	0
208	0	0	0	++	0	0	0
209	0	0	0	0	0	0	0
210	0	0	0	0	0	0	0

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 10 Relative to Start Date	Urinalysis						Rat
		Nitrite	Protein (g/L)	Glucose (mmol/L)	Ketones	Urobilinogen (μmol/L)	Bilirubin	
<b>Group 6: 30 µg/ animal BNT162c1</b>								
166	neg	0.3	normal	neg	normal	neg	neg	neg
167	pos	0.3	normal	neg	normal	neg	neg	neg
168	pos	0.3	normal	neg	normal	neg	neg	neg
169	pos	0.3	normal	neg	normal	neg	neg	neg
170	pos	0.3	normal	neg	normal	neg	neg	neg
171	pos	0.3	normal	neg	normal	neg	neg	neg
172	pos	0.3	normal	neg	normal	neg	neg	10
173	pos	1.0	normal	neg	normal	neg	neg	neg
174	neg	0.3	normal	neg	normal	neg	neg	neg
175	neg	0.3	normal	neg	normal	neg	neg	neg

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Urinalysis						Rat
		Nitrite	Protein (g/L)	Glucose (mmol/L)	Ketones	Urobilinogen (μmol/L)	Bilirubin	
Group 1: Control	16	pos	neg	normal	neg	normal	neg	neg
	17	neg	0.3	normal	neg	normal	neg	10
	18	pos	neg	normal	neg	normal	neg	neg
	19	neg	0.3	normal	neg	normal	neg	neg
	20	pos	neg	normal	neg	normal	neg	neg
	21	neg	0.3	normal	neg	normal	neg	neg
	22	neg	0.3	normal	neg	normal	neg	neg
	23	neg	neg	normal	neg	normal	neg	neg
	24	neg	neg	normal	neg	normal	neg	neg
	25	pos	neg	normal	neg	normal	neg	neg

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Urinalysis						Rat
		Nitrite	Protein (g/L)	Glucose (mmol/L)	Ketones	Urobilinogen (μmol/L)	Bilirubin	
Group 2: 30 µg/ animal BNT162a1	46	pos	0.3	normal	neg	normal	neg	10
	47	pos	neg	normal	neg	normal	neg	10
	48	pos	neg	normal	neg	normal	neg	25
	49	pos	0.3	normal	neg	normal	neg	25
	50	pos	0.3	normal	neg	normal	neg	neg
	51	pos	0.3	normal	neg	normal	neg	neg
	52	pos	neg	normal	neg	normal	neg	neg
	53	neg	0.3	normal	neg	normal	neg	neg
	54	pos	0.3	normal	neg	normal	neg	neg
	55	neg	0.3	normal	neg	normal	neg	neg

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Urinalysis						Rat
		Nitrite	Protein (g/L)	Glucose (mmol/L)	Ketones	Urobilinogen (μmol/L)	Bilirubin	
Group 3: 10 µg/ animal BNT162a1	76	pos	neg	normal	neg	normal	neg	neg
	77	neg	0.3	normal	neg	normal	neg	neg
	78	neg	0.3	normal	neg	normal	neg	neg
	79	pos	neg	normal	neg	normal	neg	neg
	80	pos	neg	normal	neg	normal	neg	neg
	81	pos	neg	normal	neg	normal	neg	neg
	82	neg	0.3	normal	neg	normal	neg	neg
	83	pos	neg	normal	neg	normal	neg	neg
	84	pos	0.3	normal	neg	normal	neg	neg
	85	neg	0.3	normal	neg	normal	neg	neg

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Urinalysis						Rat
		Nitrite	Protein (g/L)	Glucose (mmol/L)	Ketones	Urobilinogen (μmol/L)	Bilirubin	
<b>Group 4: 30 µg/ animal BNT162b1</b>								
106	pos	0.3	normal	neg	normal	neg	neg	neg
107	neg	0.3	normal	neg	normal	neg	neg	neg
108	pos	0.3	normal	neg	normal	neg	neg	neg
109	pos	0.3	normal	neg	normal	neg	neg	neg
110	pos	0.3	normal	neg	normal	neg	neg	neg
111	pos	0.3	normal	neg	normal	neg	neg	neg
112	neg	0.3	normal	neg	normal	neg	neg	25
113	neg	0.3	normal	neg	normal	neg	neg	neg
114	neg	0.3	normal	neg	normal	neg	neg	neg
115	neg	0.3	normal	neg	normal	neg	neg	neg

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Urinalysis						Rat
		Nitrite	Protein (g/L)	Glucose (mmol/L)	Ketones	Urobilinogen (μmol/L)	Bilirubin	
Group 5: 100 µg/ animal BNT162b1	136	neg	0.3	normal	neg	normal	neg	neg
	137	neg	0.3	normal	neg	normal	neg	10
	138	neg	0.3	normal	neg	normal	neg	neg
	139	pos	0.3	normal	neg	normal	neg	10
	140	pos	0.3	normal	neg	normal	neg	10
	141	pos	0.3	normal	neg	normal	neg	neg
	142	neg	0.3	normal	neg	normal	neg	neg
	143	pos	0.3	normal	neg	normal	neg	neg
	144	pos	0.3	normal	neg	normal	neg	neg
	145	neg	0.3	normal	neg	normal	neg	neg

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Urinalysis						Rat
		Nitrite	Protein (g/L)	Glucose (mmol/L)	Ketones	Urobilinogen (μmol/L)	Bilirubin	
Group 7: 100 µg/ animal BNT162b2	196	pos	0.3	normal	neg	normal	neg	neg
	197	pos	0.3	normal	neg	normal	neg	neg
	198	pos	0.3	normal	neg	normal	neg	neg
	199	pos	0.3	normal	neg	normal	neg	neg
	200	pos	0.3	normal	neg	normal	neg	neg
	201	pos	0.3	normal	neg	normal	neg	neg
	202	pos	0.3	normal	neg	normal	neg	neg
	203	pos	0.3	normal	neg	normal	neg	neg
	204	pos	0.3	normal	neg	normal	neg	neg
	205	neg	0.3	normal	neg	normal	neg	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 31 Relative to Start Date	Urinalysis						Rat
		Nitrite	Protein (g/L)	Glucose (mmol/L)	Ketones	Urobilinogen (μmol/L)	Bilirubin	
<b>Group 6: 30 µg/ animal BNT162c1</b>								
176	neg	0.3	normal	neg	normal	neg	neg	neg
177	neg	0.3	normal	neg	normal	neg	neg	neg
178	pos	0.3	normal	neg	normal	neg	10	10
179	neg	0.3	normal	neg	normal	neg	neg	neg
180	pos	0.3	normal	neg	normal	neg	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Urinalysis						Rat
		Nitrite	Protein (g/L)	Glucose (mmol/L)	Ketones	Urobilinogen (μmol/L)	Bilirubin	
Group 1: Control								
26	neg	1.0	normal	neg	normal	neg	neg	neg
27	neg	neg	normal	neg	normal	neg	neg	neg
28	pos	neg	normal	neg	normal	neg	neg	neg
29	neg	1.0	normal	neg	normal	neg	neg	neg
30	neg		normal	neg	normal	neg	neg	neg

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Urinalysis						Rat
		Nitrite	Protein (g/L)	Glucose (mmol/L)	Ketones	Urobilinogen (μmol/L)	Bilirubin	
<b>Group 2: 30 µg/ animal BNT162a1</b>								
56	neg	0.3	normal	neg	normal	neg	neg	neg
57	neg	1.0	normal	neg	normal	neg	neg	neg
58	neg	neg	normal	neg	normal	neg	neg	neg
59	neg	0.3	normal	neg	normal	neg	neg	neg
60	neg	0.3	normal	neg	normal	neg	neg	neg

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Urinalysis						Rat
		Nitrite	Protein (g/L)	Glucose (mmol/L)	Ketones	Urobilinogen (μmol/L)	Bilirubin	
Group 3: 10 µg/ animal								
BNT162a1								
86	neg	neg	0.3	normal	neg	normal	neg	neg
87	neg	pos	0.3	normal	neg	normal	neg	neg
88	pos	neg	0.3	normal	neg	normal	neg	neg
89	neg	pos	0.3	normal	neg	normal	neg	neg
90								

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Urinalysis						Rat
		Nitrite	Protein (g/L)	Glucose (mmol/L)	Ketones	Urobilinogen (μmol/L)	Bilirubin	
<b>Group 4: 30 µg/ animal BNT162b1</b>								
116	pos	neg	normal	neg	normal	neg	neg	neg
117	neg	neg	normal	neg	normal	neg	neg	neg
118	neg	1.0	normal	neg	normal	neg	neg	neg
119	neg	neg	normal	neg	normal	neg	neg	neg
120	pos	neg	normal	neg	normal	neg	neg	neg

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Urinalysis						Rat
		Nitrite	Protein (g/L)	Glucose (mmol/L)	Ketones	Urobilinogen (μmol/L)	Bilirubin	
<b>Group 5: 100 µg/ animal BNT162b1</b>								
146	neg	0.3	normal	neg	normal	neg	neg	neg
147	neg	0.3	normal	neg	normal	neg	neg	neg
148	pos	neg	normal	neg	normal	neg	neg	neg
149	neg	0.3	normal	neg	normal	neg	neg	neg
150	pos	neg	normal	neg	normal	neg	neg	neg

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 10-2 Urinalysis - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Urinalysis						Rat
		Nitrite	Protein (g/L)	Glucose (mmol/L)	Ketones	Urobilinogen (μmol/L)	Bilirubin	
<b>Group 7: 100 µg/ animal BNT162b2</b>								
206	neg	0.3	normal	neg	normal	neg	neg	neg
207	pos	0.3	normal	neg	normal	neg	neg	neg
208	neg	0.3	normal	neg	normal	neg	10	neg
209	pos	0.3	normal	neg	normal	neg	neg	neg
210	neg	0.3	normal	neg	normal	neg	neg	neg

Three LNP-Formulated RNA Platforms  
Encoding for Viral Proteins  
Ophthalmological Examination

TABLE 11

Rat

Animal no.	Main Study / Recovery period	Predose		Eye <sup>#</sup>		End of RP		
		left	right	left	right	left	right	
<u>Male animals</u>								
<b>Group 1: Control</b>								
(1)	MS	0	0	0	0	-	-	
(2)	MS	0	0	0	0	-	-	
(3)	MS	0	0	0	0	-	-	
(4)	MS	0	0	0	0	-	-	
(5)	MS	0	0	0	0	-	-	
(6)	MS	0	0	0	0	-	-	
(7)	MS	0	0	0	0	-	-	
(8)	MS	0	0	0	0	-	-	
(9)	MS	0	0	0	0	-	-	
(10)	MS	0	0	0	0	-	-	
(11)	RP	0	0	0	0	0	0	
(12)	RP	0	0	0	0	0	0	
(13)	RP	0	0	0	0	0	0	
(14)	RP	0	0	0	0	0	0	
(15)	RP	0	0	0	0	0	0	
<b>Group 2: 30 µg BNT162a1/animal, i.m.</b>								
(31)	MS	0	0	0	0	-	-	
(32)	MS	0	0	0	0	-	-	
(33)	MS	0	0	0	0	-	-	
(34)	MS	0	0	0	0	-	-	
(35)	MS	0	0	0	0	-	-	
(36)	MS	0	0	0	0	-	-	
(37)	MS	0	0	0	0	-	-	
(38)	MS	0	0	0	0	-	-	
(39)	MS	0	0	0	0	-	-	
(40)	MS	0	0	0	0	-	-	
(41)	RP	0	0	0	0	0	0	
(42)	RP	0	0	0	0	0	0	
(43)	RP	0	0	0	0	0	0	
(44)	RP	0	0	0	0	0	0	
(45)	RP	0	0	0	0	0	0	

0 = no pathological findings

# = includes: adnexa oculi (i.e. lids, lacrimal apparatus), conjunctiva, cornea, anterior chamber, lens, vitreous body, fundus (retina, optic disc)

MS = main study (treatment period)

RP = recovery period

Three LNP-Formulated RNA Platforms  
Encoding for Viral Proteins  
Ophthalmological Examination

TABLE 11

Rat

Animal no.	Main Study / Recovery period	Predose		Eye <sup>#</sup>		End of RP		
		left	right	left	right	left	right	
<u>Male animals</u>								
Group 3: 10 µg BNT162a1/animal, i.m.								
(61)	MS	0	0	0	0	-	-	
(62)	MS	0	0	0	0	-	-	
(63)	MS	0	0	0	0	-	-	
(64)	MS	0	0	0	0	-	-	
(65)	MS	0	0	0	0	-	-	
(66)	MS	0	0	0	0	-	-	
(67)	MS	0	0	0	0	-	-	
(68)	MS	0	0	0	0	-	-	
(69)	MS	0	0	0	0	-	-	
(70)	MS	0	0	0	0	-	-	
(71)	RP	0	0	0	0	0	0	
(72)	RP	0	0	0	0	0	0	
(73)	RP	0	0	0	0	0	0	
(74)	RP	0	0	0	0	0	0	
(75)	RP	0	0	0	0	0	0	
Group 4: 30 µg BNT162b1/animal, i.m.								
(91)	MS	0	0	0	0	-	-	
(92)	MS	0	0	0	0	-	-	
(93)	MS	0	0	0	0	-	-	
(94)	MS	0	0	0	0	-	-	
(95)	MS	0	0	0	0	-	-	
(96)	MS	0	0	0	0	-	-	
(97)	MS	0	0	0	0	-	-	
(98)	MS	0	0	0	0	-	-	
(99)	MS	0	0	0	0	-	-	
(100)	MS	0	0	0	0	-	-	
(101)	RP	0	0	0	0	0	0	
(102)	RP	0	0	0	0	0	0	
(103)	RP	0	0	0	0	0	0	
(104)	RP	0	0	0	0	0	0	
(105)	RP	0	0	0	0	0	0	

0 = no pathological findings

# = includes: adnexa oculi (i.e. lids, lacrimal apparatus), conjunctiva, cornea, anterior chamber, lens, vitreous body, fundus (retina, optic disc)

MS = main study (treatment period)

RP = recovery period

Three LNP-Formulated RNA Platforms  
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Ophthalmological Examination

TABLE 11

Rat

Animal no.	Main Study / Recovery period	Predose		Eye <sup>#</sup>		End of RP		
		left	right	left	right	left	right	
<u>Male animals</u>								
Group 5: 100 µg BNT162b1/animal, i.m.								
(121)	MS	0	0	0	0	-	-	
(122)	MS	0	0	0	0	-	-	
(123)	MS	0	0	0	0	-	-	
(124)	MS	0	0	0	0	-	-	
(125)	MS	0	0	0	0	-	-	
(126)	MS	0	0	0	0	-	-	
(127)	MS	0	0	0	0	-	-	
(128)	MS	0	0	0	0	-	-	
(129)	MS	0	0	0	0	-	-	
(130)	MS	0	0	0	0	-	-	
(131)	RP	0	0	0	0	0	0	
(132)	RP	0	0	0	0	0	0	
(133)	RP	0	0	0	0	0	0	
(134)	RP	0	0	0	0	0	0	
(135)	RP	0	0	0	0	0	0	
Group 6: 30 µg BNT162c1/animal, i.m.								
(151)	MS	0	0	0	0	-	-	
(152)	MS	0	0	0	0	-	-	
(153)	MS	0	0	0	0	-	-	
(154)	MS	0	0	0	0	-	-	
(155)	MS	0	0	0	0	-	-	
(156)	MS	0	0	0	0	-	-	
(157)	MS	0	0	0	0	-	-	
(158)	MS	0	0	0	0	-	-	
(159)	MS	0	0	0	0	-	-	
(160)	MS	0	0	0	0	-	-	
(161)	RP	0	0	0	0	0	0	
(162)	RP	0	0	0	0	0	0	
(163)	RP	0	0	0	0	0	0	
(164)	RP	0	0	0	0	0	0	
(165)	RP	0	0	0	0	0	0	

0 = no pathological findings

# = includes: adnexa oculi (i.e. lids, lacrimal apparatus), conjunctiva, cornea, anterior chamber, lens, vitreous body, fundus (retina, optic disc)

MS = main study (treatment period)

RP = recovery period

Three LNP-Formulated RNA Platforms  
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Ophthalmological Examination

TABLE 11

Rat

Animal no.	Main Study / Recovery period	Predose		Eye <sup>#</sup>		End of RP		
		left	right	left	right	left	right	
<u>Male animals</u>								
Group 7: 100 µg BNT162b2/animal, i.m.								
(181)	MS	0	0	0	0	-	-	
(182)	MS	0	0	0	0	-	-	
(183)	MS	0	0	0	0	-	-	
(184)	MS	0	0	0	0	-	-	
(185)	MS	0	0	0	0	-	-	
(186)	MS	0	0	0	0	-	-	
(187)	MS	0	0	0	0	-	-	
(188)	MS	0	0	0	0	-	-	
(189)	MS	0	0	0	0	-	-	
(190)	MS	0	0	0	0	-	-	
(191)	RP	0	0	0	0	0	0	
(192)	RP	0	0	0	0	0	0	
(193)	RP	0	0	0	0	0	0	
(194)	RP	0	0	0	0	0	0	
(195)	RP	0	0	0	0	0	0	

0 = no pathological findings

# = includes: adnexa oculi (i.e. lids, lacrimal apparatus), conjunctiva, cornea, anterior chamber, lens, vitreous body, fundus (retina, optic disc)

MS = main study (treatment period)

RP = recovery period

Three LNP-Formulated RNA Platforms  
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Ophthalmological Examination

TABLE 11

Rat

Animal no.	Main Study / Recovery period	Predose		Eye <sup>#</sup>		End of RP		
		left	right	left	right	left	right	
<u>Female animals</u>								
<b>Group 1: Control</b>								
(16)	MS	0	0	0	0	-	-	
(17)	MS	0	0	0	0	-	-	
(18)	MS	0	0	0	0	-	-	
(19)	MS	0	0	0	0	-	-	
(20)	MS	0	0	0	0	-	-	
(21)	MS	0	0	0	0	-	-	
(22)	MS	0	0	0	0	-	-	
(23)	MS	0	0	0	0	-	-	
(24)	MS	0	0	0	0	-	-	
(25)	MS	0	0	0	0	-	-	
(26)	RP	0	0	0	0	0	0	
(27)	RP	0	0	0	0	0	0	
(28)	RP	0	0	0	0	0	0	
(29)	RP	0	0	0	0	0	0	
(30)	RP	0	0	0	0	0	0	
<b>Group 2: 30 µg BNT162a1/animal, i.m.</b>								
(46)	MS	0	0	0	0	-	-	
(47)	MS	0	0	0	0	-	-	
(48)	MS	0	0	0	0	-	-	
(49)	MS	0	0	0	0	-	-	
(50)	MS	0	0	0	0	-	-	
(51)	MS	0	0	0	0	-	-	
(52)	MS	0	0	0	0	-	-	
(53)	MS	0	0	0	0	-	-	
(54)	MS	0	0	0	0	-	-	
(55)	MS	0	0	0	0	-	-	
(56)	RP	0	0	0	0	0	0	
(57)	RP	0	0	0	0	0	0	
(58)	RP	0	0	0	0	0	0	
(59)	RP	0	0	0	0	0	0	
(60)	RP	0	0	0	0	0	0	

0 = no pathological findings

# = includes: adnexa oculi (i.e. lids, lacrimal apparatus), conjunctiva, cornea, anterior chamber, lens, vitreous body, fundus (retina, optic disc)

MS = main study (treatment period)

RP = recovery period

Three LNP-Formulated RNA Platforms  
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TABLE 11

Rat

Animal no.	Main Study / Recovery period	Predose		Eye <sup>#</sup>		End of RP		
		left	right	left	right	left	right	
<u>Female animals</u>								
Group 3: 10 µg BNT162a1/animal, i.m.								
(76)	MS	0	0	0	0	-	-	
(77)	MS	0	0	0	0	-	-	
(78)	MS	0	0	0	0	-	-	
(79)	MS	0	0	0	0	-	-	
(80)	MS	0	0	0	0	-	-	
(81)	MS	0	0	0	0	-	-	
(82)	MS	0	0	0	0	-	-	
(83)	MS	0	0	0	0	-	-	
(84)	MS	0	0	0	0	-	-	
(85)	MS	0	0	0	0	-	-	
(86)	RP	0	0	0	0	0	0	
(87)	RP	0	0	0	0	0	0	
(88)	RP	0	0	0	0	0	0	
(89)	RP	0	0	0	0	0	0	
(90)	RP	0	0	0	0	0	0	
Group 4: 30 µg BNT162b1/animal, i.m.								
(106)	MS	0	0	0	0	-	-	
(107)	MS	0	0	0	0	-	-	
(108)	MS	0	0	0	0	-	-	
(109)	MS	0	0	0	0	-	-	
(110)	MS	0	0	0	0	-	-	
(111)	MS	0	0	0	0	-	-	
(112)	MS	0	0	0	0	-	-	
(113)	MS	0	0	0	0	-	-	
(114)	MS	0	0	0	0	-	-	
(115)	MS	0	0	0	0	-	-	
(116)	RP	0	0	0	0	0	0	
(117)	RP	0	0	0	0	0	0	
(118)	RP	0	0	0	0	0	0	
(119)	RP	0	0	0	0	0	0	
(120)	RP	0	0	0	0	0	0	

0 = no pathological findings

# = includes: adnexa oculi (i.e. lids, lacrimal apparatus), conjunctiva, cornea, anterior chamber, lens, vitreous body, fundus (retina, optic disc)

MS = main study (treatment period)

RP = recovery period

Three LNP-Formulated RNA Platforms  
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TABLE 11

Rat

Animal no.	Main Study / Recovery period	Predose		Eye <sup>#</sup>		End of RP		
		left	right	left	right	left	right	
<u>Female animals</u>								
Group 5: 100 µg BNT162b1/animal, i.m.								
(136)	MS	0	0	0	0	-	-	
(137)	MS	0	0	0	0	-	-	
(138)	MS	0	0	0	0	-	-	
(139)	MS	0	0	0	0	-	-	
(140)	MS	0	0	0	0	-	-	
(141)	MS	0	0	0	0	-	-	
(142)	MS	0	0	0	0	-	-	
(143)	MS	0	0	0	0	-	-	
(144)	MS	0	0	0	0	-	-	
(145)	MS	0	0	0	0	-	-	
(146)	RP	0	0	0	0	0	0	
(147)	RP	0	0	0	0	0	0	
(148)	RP	0	0	0	0	0	0	
(149)	RP	0	0	0	0	0	0	
(150)	RP	0	0	0	0	0	0	
Group 6: 30 µg BNT162c1/animal, i.m.								
(166)	MS	0	0	0	0	-	-	
(167)	MS	0	0	0	0	-	-	
(168)	MS	0	0	0	0	-	-	
(169)	MS	0	0	0	0	-	-	
(170)	MS	0	0	0	0	-	-	
(171)	MS	0	0	0	0	-	-	
(172)	MS	0	0	0	0	-	-	
(173)	MS	0	0	0	0	-	-	
(174)	MS	0	0	0	0	-	-	
(175)	MS	0	0	0	0	-	-	
(176)	RP	0	0	0	0	0	0	
(177)	RP	0	0	0	0	0	0	
(178)	RP	0	0	0	0	0	0	
(179)	RP	0	0	0	0	0	0	
(180)	RP	0	0	0	0	0	0	

0 = no pathological findings

# = includes: adnexa oculi (i.e. lids, lacrimal apparatus), conjunctiva, cornea, anterior chamber, lens, vitreous body, fundus (retina, optic disc)

MS = main study (treatment period)

RP = recovery period

Three LNP-Formulated RNA Platforms  
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Ophthalmological Examination

TABLE 11

Rat

Animal no.	Main Study / Recovery period	Predose		End of MS		Eye <sup>#</sup>		Rat		
		left	right	left	right	left	right			
<u>Female animals</u>										
Group 7: 100 µg BNT162b2/animal, i.m.										
(196)	MS	0	0	0	0	-	-			
(197)	MS	0	0	0	0	-	-			
(198)	MS	0	0	0	0	-	-			
(199)	MS	0	0	0	0	-	-			
(200)	MS	0	0	0	0	-	-			
(201)	MS	0	0	0	0	-	-			
(202)	MS	0	0	0	0	-	-			
(203)	MS	0	0	0	0	-	-			
(204)	MS	0	0	0	0	-	-			
(205)	MS	0	0	0	0	-	-			
(206)	RP	0	0	0	0	0	0			
(207)	RP	0	0	0	0	0	0			
(208)	RP	0	0	0	0	0	0			
(209)	RP	0	0	0	0	0	0			
(210)	RP	0	0	0	0	0	0			

0 = no pathological findings

# = includes: adnexa oculi (i.e. lids, lacrimal apparatus), conjunctiva, cornea, anterior chamber, lens, vitreous body, fundus (retina, optic disc)

MS = main study (treatment period)

RP = recovery period

Three LNP-Formulated RNA Platforms  
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TABLE 12

Auditory Examination

Rat

Animal no.	Main Study / Recovery period	Predose	Hearing End of MS	Hearing End of RP
<u>Male animals</u>				
<b>Group 1: Control</b>				
(1)	MS	0	0	-
(2)	MS	0	0	-
(3)	MS	0	0	-
(4)	MS	0	0	-
(5)	MS	0	0	-
(6)	MS	0	0	-
(7)	MS	0	0	-
(8)	MS	0	0	-
(9)	MS	0	0	-
(10)	MS	0	0	-
(11)	RP	0	0	0
(12)	RP	0	0	0
(13)	RP	0	0	0
(14)	RP	0	0	0
(15)	RP	0	0	0
<b>Group 2: 30 µg BNT162a1/animal, i.m.</b>				
(31)	MS	0	0	-
(32)	MS	0	0	-
(33)	MS	0	0	-
(34)	MS	0	0	-
(35)	MS	0	0	-
(36)	MS	0	0	-
(37)	MS	0	0	-
(38)	MS	0	0	-
(39)	MS	0	0	-
(40)	MS	0	0	-
(41)	RP	0	0	0
(42)	RP	0	0	0
(43)	RP	0	0	0
(44)	RP	0	0	0
(45)	RP	0	0	0

0 = no pathological findings

MS = main study (treatment period)

RP = recovery period

Three LNP-Formulated RNA Platforms  
Encoding for Viral Proteins

TABLE 12

Auditory Examination

Rat

Animal no.	Main Study / Recovery period	Hearing			Rat		
		Predose	End of MS	End of RP			
<u>Male animals</u>							
Group 3: 10 µg BNT162a1/animal, i.m.							
(61)	MS	0	0	-			
(62)	MS	0	0	-			
(63)	MS	0	0	-			
(64)	MS	0	0	-			
(65)	MS	0	0	-			
(66)	MS	0	0	-			
(67)	MS	0	0	-			
(68)	MS	0	0	-			
(69)	MS	0	0	-			
(70)	MS	0	0	-			
(71)	RP	0	0	0			
(72)	RP	0	0	0			
(73)	RP	0	0	0			
(74)	RP	0	0	0			
(75)	RP	0	0	0			
Group 4: 30 µg BNT162b1/animal, i.m.							
(91)	MS	0	0	-			
(92)	MS	0	0	-			
(93)	MS	0	0	-			
(94)	MS	0	0	-			
(95)	MS	0	0	-			
(96)	MS	0	0	-			
(97)	MS	0	0	-			
(98)	MS	0	0	-			
(99)	MS	0	0	-			
(100)	MS	0	0	-			
(101)	RP	0	0	0			
(102)	RP	0	0	0			
(103)	RP	0	0	0			
(104)	RP	0	0	0			
(105)	RP	0	0	0			

0 = no pathological findings

MS = main study (treatment period)

RP = recovery period

Three LNP-Formulated RNA Platforms  
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TABLE 12

Auditory Examination

Rat

Animal no.	Main Study / Recovery period	Predose	Hearing End of MS	Hearing End of RP	Rat
<u>Male animals</u>					
Group 5: 100 µg BNT162b1/animal, i.m.					
(121)	MS	0	0	-	
(122)	MS	0	0	-	
(123)	MS	0	0	-	
(124)	MS	0	0	-	
(125)	MS	0	0	-	
(126)	MS	0	0	-	
(127)	MS	0	0	-	
(128)	MS	0	0	-	
(129)	MS	0	0	-	
(130)	MS	0	0	-	
(131)	RP	0	0	0	
(132)	RP	0	0	0	
(133)	RP	0	0	0	
(134)	RP	0	0	0	
(135)	RP	0	0	0	
Group 6: 30 µg BNT162c1/animal, i.m.					
(151)	MS	0	0	-	
(152)	MS	0	0	-	
(153)	MS	0	0	-	
(154)	MS	0	0	-	
(155)	MS	0	0	-	
(156)	MS	0	0	-	
(157)	MS	0	0	-	
(158)	MS	0	0	-	
(159)	MS	0	0	-	
(160)	MS	0	0	-	
(161)	RP	0	0	0	
(162)	RP	0	0	0	
(163)	RP	0	0	0	
(164)	RP	0	0	0	
(165)	RP	0	0	0	

0 = no pathological findings

MS = main study (treatment period)

RP = recovery period

Three LNP-Formulated RNA Platforms  
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TABLE 12

Auditory Examination

Rat

Animal no.	Main Study / Recovery period	Predose	End of MS	End of RP	Hearing
<u>Male animals</u>					
Group 7: 100 µg BNT162b2/animal, i.m.					
(181)	MS	0	0	-	
(182)	MS	0	0	-	
(183)	MS	0	0	-	
(184)	MS	0	0	-	
(185)	MS	0	0	-	
(186)	MS	0	0	-	
(187)	MS	0	0	-	
(188)	MS	0	0	-	
(189)	MS	0	0	-	
(190)	MS	0	0	-	
(191)	RP	0	0	0	
(192)	RP	0	0	0	
(193)	RP	0	0	0	
(194)	RP	0	0	0	
(195)	RP	0	0	0	

0 = no pathological findings

MS = main study (treatment period)

RP = recovery period

Three LNP-Formulated RNA Platforms  
Encoding for Viral Proteins

TABLE 12

Auditory Examination

Rat

Animal no.	Main Study / Recovery period	Predose	End of MS	End of RP	Hearing
<u>Female animals</u>					
<b>Group 1: Control</b>					
(16)	MS	0	0	-	
(17)	MS	0	0	-	
(18)	MS	0	0	-	
(19)	MS	0	0	-	
(20)	MS	0	0	-	
(21)	MS	0	0	-	
(22)	MS	0	0	-	
(23)	MS	0	0	-	
(24)	MS	0	0	-	
(25)	MS	0	0	-	
(26)	RP	0	0	0	
(27)	RP	0	0	0	
(28)	RP	0	0	0	
(29)	RP	0	0	0	
(30)	RP	0	0	0	
<b>Group 2: 30 µg BNT162a1/animal, i.m.</b>					
(46)	MS	0	0	-	
(47)	MS	0	0	-	
(48)	MS	0	0	-	
(49)	MS	0	0	-	
(50)	MS	0	0	-	
(51)	MS	0	0	-	
(52)	MS	0	0	-	
(53)	MS	0	0	-	
(54)	MS	0	0	-	
(55)	MS	0	0	-	
(56)	RP	0	0	0	
(57)	RP	0	0	0	
(58)	RP	0	0	0	
(59)	RP	0	0	0	
(60)	RP	0	0	0	

0 = no pathological findings

MS = main study (treatment period)

RP = recovery period

Three LNP-Formulated RNA Platforms  
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TABLE 12

Auditory Examination

Rat

Animal no.	Main Study / Recovery period	Hearing			Rat		
		Predose	End of MS	End of RP			
<u>Female animals</u>							
Group 3: 10 µg BNT162a1/animal, i.m.							
(76)	MS	0	0	-			
(77)	MS	0	0	-			
(78)	MS	0	0	-			
(79)	MS	0	0	-			
(80)	MS	0	0	-			
(81)	MS	0	0	-			
(82)	MS	0	0	-			
(83)	MS	0	0	-			
(84)	MS	0	0	-			
(85)	MS	0	0	-			
(86)	RP	0	0	0			
(87)	RP	0	0	0			
(88)	RP	0	0	0			
(89)	RP	0	0	0			
(90)	RP	0	0	0			
Group 4: 30 µg BNT162b1/animal, i.m.							
(106)	MS	0	0	-			
(107)	MS	0	0	-			
(108)	MS	0	0	-			
(109)	MS	0	0	-			
(110)	MS	0	0	-			
(111)	MS	0	0	-			
(112)	MS	0	0	-			
(113)	MS	0	0	-			
(114)	MS	0	0	-			
(115)	MS	0	0	-			
(116)	RP	0	0	0			
(117)	RP	0	0	0			
(118)	RP	0	0	0			
(119)	RP	0	0	0			
(120)	RP	0	0	0			

0 = no pathological findings

MS = main study (treatment period)

RP = recovery period

Three LNP-Formulated RNA Platforms  
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TABLE 12

Auditory Examination

Rat

Animal no.	Main Study / Recovery period	Predose	Hearing End of MS	Hearing End of RP
------------	------------------------------	---------	----------------------	----------------------

Female animals

Group 5: 100 µg BNT162b1/animal, i.m.

(136)	MS	0	0	-
(137)	MS	0	0	-
(138)	MS	0	0	-
(139)	MS	0	0	-
(140)	MS	0	0	-
(141)	MS	0	0	-
(142)	MS	0	0	-
(143)	MS	0	0	-
(144)	MS	0	0	-
(145)	MS	0	0	-
(146)	RP	0	0	0
(147)	RP	0	0	0
(148)	RP	0	0	0
(149)	RP	0	0	0
(150)	RP	0	0	0

Group 6: 30 µg BNT162c1/animal, i.m.

(166)	MS	0	0	
(167)	MS	0	0	
(168)	MS	0	0	
(169)	MS	0	0	
(170)	MS	0	0	-
(171)	MS	0	0	-
(172)	MS	0	0	-
(173)	MS	0	0	-
(174)	MS	0	0	-
(175)	MS	0	0	-
(176)	RP	0	0	-
(177)	RP	0	0	0
(178)	RP	0	0	0
(179)	RP	0	0	0
(180)	RP	0	0	0

---

0 = no pathological findings

MS = main study (treatment period)

RP = recovery period

Three LNP-Formulated RNA Platforms  
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TABLE 12

Auditory Examination

Rat

Animal no.	Main Study / Recovery period	Hearing			Rat		
		Predose	End of MS	End of RP			
<u>Female animals</u>							
Group 7: 100 µg BNT162b2/animal, i.m.							
(196)	MS	0	0	-			
(197)	MS	0	0	-			
(198)	MS	0	0	-			
(199)	MS	0	0	-			
(200)	MS	0	0	-			
(201)	MS	0	0	-			
(202)	MS	0	0	-			
(203)	MS	0	0	-			
(204)	MS	0	0	-			
(205)	MS	0	0	-			
(206)	RP	0	0	0			
(207)	RP	0	0	0			
(208)	RP	0	0	0			
(209)	RP	0	0	0			
(210)	RP	0	0	0			

0 = no pathological findings

MS = main study (treatment period)

RP = recovery period

## Three LNP-Formulated RNA Platforms Encoding for Viral Proteins

TABLE 13

## Macroscopic Post Mortem Findings

Rat

Animal no.	Day of sacrifice	Affected organs	Findings
Males			
<u>Group 1: Control</u>			
Terminal sacrifice			
(1)	TS / TD 17	—	no pathological findings
(2)	TS / TD 17	—	no pathological findings
(3)	TS / TD 17	—	no pathological findings
(4)	TS / TD 17	—	no pathological findings
(5)	TS / TD 17	—	no pathological findings
(6)	TS / TD 17	—	no pathological findings
(7)	TS / TD 17	Lungs:	emphysematous
(8)	TS / TD 17	—	no pathological findings
(9)	TS / TD 17	Thymus:	reddened
(10)	TS / TD 17	—	no pathological findings
Recovery sacrifice			
(11)	RS / TD 38	—	no pathological findings
(12)	RS / TD 38	—	no pathological findings
(13)	RS / TD 38	—	no pathological findings
(14)	RS / TD 38	—	no pathological findings
(15)	RS / TD 38	Testis (right):	enlarged

TD test day

TS terminal sacrifice

RS recovery sacrifice

## Three LNP-Formulated RNA Platforms Encoding for Viral Proteins

TABLE 13

## Macroscopic Post Mortem Findings

Rat

Animal no.	Day of sacrifice	Affected organs	Findings
------------	------------------	-----------------	----------

## Males

Group 2: 30 µg BNT162a1/animal, i.m.

## Terminal sacrifice

(31)	TS / TD 17	Injection site I:	indurated
		Spleen:	enlarged
(32)	TS / TD 17	Injection site I:	indurated
(33)	TS / TD 17	External observation:	injection site I thickened
		Injection site I:	muscles indurated
		Lymph node (iliac):	enlarged
		Prostate:	reduced in size
		Seminal vesicles:	reduced in size
		Adrenal glands:	enlarged
(34)	TS / TD 17	Injection site I:	muscles thickened, indurated
(35)	TS / TD 17	External observation:	injection site I indurated
		Injection site I:	indurated
(36)	TS / TD 17	External observation:	injection site I indurated, incrustation (diameter approx. 4 mm)
		Injection site I:	indurated
(37)	TS / TD 17	External observation:	injection site II incrusted
		Injection site I:	muscles thickened, indurated

TD test day

I: left

TS terminal sacrifice

II: right

## Three LNP-Formulated RNA Platforms Encoding for Viral Proteins

TABLE 13

## Macroscopic Post Mortem Findings

Rat

Animal no.	Day of sacrifice	Affected organs	Findings
------------	------------------	-----------------	----------

## Males

Group 2: 30 µg BNT162a1/animal, i.m.

## Terminal sacrifice

(38)	TS / TD 17	Injection site I:	indurated
(39)	TS / TD 17	Injection site I:	indurated
		Spleen:	enlarged
(40)	TS / TD 17	External observation:	injection site I thickened
		Injection site I:	muscles indurated

## Recovery sacrifice

(41)	RS / TD 38	—	no pathological findings
(42)	RS / TD 38	—	no pathological findings
(43)	RS / TD 38	—	no pathological findings
(44)	RS / TD 38	—	no pathological findings
(45)	RS / TD 38	—	no pathological findings

## Three LNP-Formulated RNA Platforms Encoding for Viral Proteins

TABLE 13

## Macroscopic Post Mortem Findings

Rat

Animal no.	Day of sacrifice	Affected organs	Findings
------------	------------------	-----------------	----------

## Males

Group 3: 10 µg BNT162a1/animal, i.m.

## Terminal sacrifice

(61)	TS / TD 17	Injection site I:	indurated
		Lymph node (iliac):	enlarged
		Spleen:	enlarged
(62)	TS / TD 17	—	no pathological findings
(63)	TS / TD 17	External observation:	injection site I thickened, skin incrusted
		Injection site I:	muscle indurated
		Spleen:	enlarged
		Lymph node (iliac):	enlarged
(64)	TS / TD 17	External observation:	injection site I thickened
		Injection site I:	muscle indurated
		Lymph node (iliac):	enlarged
(65)	TS / TD 17	Injection site I:	indurated
		Spleen:	enlarged
(66)	TS / TD 17	Injection site I:	indurated
		Lymph node (iliac):	enlarged
		Spleen:	enlarged

TD test day

I: left

TS terminal sacrifice

II: right

## Three LNP-Formulated RNA Platforms Encoding for Viral Proteins

TABLE 13

## Macroscopic Post Mortem Findings

Rat

Animal no.	Day of sacrifice	Affected organs	Findings
------------	------------------	-----------------	----------

## Males

Group 3: 10 µg BNT162a1/animal, i.m.

## Terminal sacrifice

(67)	TS / TD 17	External observation:	injection site I thickened
		Injection site I:	muscle indurated
(68)	TS / TD 17	Injection site I:	indurated
(69)	TS / TD 17	—	no pathological findings
(70)	TS / TD 17	Spleen:	enlarged

## Recovery sacrifice

(71)	RS / TD 38	—	no pathological findings
(72)	RS / TD 38	—	no pathological findings
(73)	RS / TD 38	—	no pathological findings
(74)	RS / TD 38	—	no pathological findings
(75)	RS / TD 38	—	no pathological findings

## Three LNP-Formulated RNA Platforms Encoding for Viral Proteins

TABLE 13

## Macroscopic Post Mortem Findings

Rat

Animal no.	Day of sacrifice	Affected organs	Findings
------------	------------------	-----------------	----------

## Males

Group 4: 30 µg BNT162b1/animal, i.m.

## Terminal sacrifice

(91)	TS / TD 17	Injection site I:	indurated
		Lymph node (iliac):	enlarged
(92)	TS / TD 17	Injection site I:	indurated
(93)	TS / TD 17	Lymph node (iliac):	enlarged
(94)	TS / TD 17	—	no pathological findings
(95)	TS / TD 17	Injection site I:	indurated
		Lymph node (iliac):	enlarged
(96)	TS / TD 17	Injection site I:	muscles indurated
		Lymph node (iliac):	enlarged
(97)	TS / TD 17	—	no pathological findings
(98)	TS / TD 17	Injection site I:	indurated
		Spleen:	enlarged
		Lymph node (iliac):	enlarged
(99)	TS / TD 17	Injection site I:	muscles indurated
		Lymph node (iliac):	enlarged
(100)	TS / TD 17	Injection site I:	muscle indurated, thickened

TD test day

TS terminal sacrifice

I: left

II: right

## Three LNP-Formulated RNA Platforms Encoding for Viral Proteins

TABLE 13

## Macroscopic Post Mortem Findings

Rat

Animal no.	Day of sacrifice	Affected organs	Findings
------------	------------------	-----------------	----------

## Males

Group 4: 30 µg BNT162b1/animal, i.m.

## Recovery sacrifice

(101)	RS / TD 38	—	no pathological findings
(102)	RS / TD 38	—	no pathological findings
(103)	RS / TD 38	Testis (right):	enlarged
(104)	RS / TD 38	—	no pathological findings
(105)	RS / TD 38	—	no pathological findings

## Three LNP-Formulated RNA Platforms Encoding for Viral Proteins

TABLE 13

## Macroscopic Post Mortem Findings

Rat

Animal no.	Day of sacrifice	Affected organs	Findings
Males			
<u>Group 5: 100 µg BNT162b1/animal, i.m.</u>			
Terminal sacrifice			
(121)	TS / TD 17	Injection site I+II:	enlarged
		Lymph node (renal, left)	enlarged
		Spleen:	enlarged
(122)	TS / TD 17	—	no pathological findings
(123)	TS / TD 17	Injection site I+II:	muscle indurated
		Lymph node (iliac):	enlarged
		Spleen:	enlarged
(124)	TS / TD 17	Injection site I+II:	thickened
		Lymph node (iliac):	enlarged
(125)	TS / TD 17	—	no pathological findings
(126)	TS / TD 17	Injection site I+II:	indurated
		Spleen:	enlarged
		Lymph node (iliac):	enlarged
(127)	TS / TD 17	External observation:	injection site I thickened
		Injection site I+II:	muscle indurated
		Adrenal glands:	enlarged
		Lymph node (iliac):	enlarged

TD test day

I: left

TS terminal sacrifice

II: right

## Three LNP-Formulated RNA Platforms Encoding for Viral Proteins

TABLE 13

## Macroscopic Post Mortem Findings

Rat

Animal no.	Day of sacrifice	Affected organs	Findings
------------	------------------	-----------------	----------

## Males

Group 5: 100 µg BNT162b1/animal, i.m.

## Terminal sacrifice

(128)	TS / TD 17	Spleen:	enlarged
(129)	TS / TD 17	Injection site I+II:	indurated
		Lymph node (iliac):	enlarged
(130)	TS / TD 17	Injection site I+II:	muscle indurated
		Spleen:	enlarged
		Adrenal glands:	enlarged
		Lymph node (iliac):	enlarged

## Recovery sacrifice

(131)	RS / TD 38	Lymph node (iliac):	enlarged
(132)	RS / TD 38	Lymph node (iliac):	enlarged
(133)	RS / TD 38	Lymph node (iliac):	enlarged
(134)	RS / TD 38	Lymph node (iliac):	enlarged
(135)	RS / TD 38	Lymph node (iliac):	enlarged

TD test day

I: left

TS terminal sacrifice

II: right

RS recovery sacrifice

## Three LNP-Formulated RNA Platforms Encoding for Viral Proteins

TABLE 13

## Macroscopic Post Mortem Findings

Rat

Animal no.	Day of sacrifice	Affected organs	Findings
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## Males

Group 6: 30 µg BNT162c1/animal, i.m.

## Terminal sacrifice

(151)	TS / TD 10	External observation:	injection site I thickened
		Injection site I:	muscles indurated
(152)	TS / TD 10	External observation:	injection site I thickened
		Injection site I:	muscles indurated
		Spleen:	enlarged
(153)	TS / TD 10	External observation:	injection site I thickened
		Injection site I:	muscle indurated
(154)	TS / TD 10	External observation:	injection site I thickened
		Injection site I:	indurated
		Spleen:	enlarged
(155)	TS / TD 10	Injection site I:	muscle indurated
		Spleen:	enlarged
(156)	TS / TD 10	External observation:	injection site I thickened
		Injection site I:	muscle indurated
		Spleen:	enlarged
		Lymph node (iliac):	enlarged

TD test day

I: left

TS terminal sacrifice

II: right

## Three LNP-Formulated RNA Platforms Encoding for Viral Proteins

TABLE 13

## Macroscopic Post Mortem Findings

Rat

Animal no.	Day of sacrifice	Affected organs	Findings
------------	------------------	-----------------	----------

## Males

Group 6: 30 µg BNT162c1/animal, i.m.

## Terminal sacrifice

(157)	TS / TD 10	External observation:	injection site I thickened
		Injection site I:	indurated
(158)	TS / TD 10	External observation:	injection site I thickened, incrusted
		Injection site I:	muscle indurated
(159)	TS / TD 10	External observation:	injection site I thickened
		Injection site I:	indurated
(160)	TS / TD 10	External observation:	injection site I thickened
		Injection site I:	indurated
		Spleen:	enlarged

## Recovery sacrifice

(161)	RS / TD 31	—	no pathological findings
(162)	RS / TD 31	—	no pathological findings
(163)	RS / TD 31	—	no pathological findings
(164)	RS / TD 31	—	no pathological findings
(165)	RS / TD 31	—	no pathological findings

TD test day

I: left

TS terminal sacrifice

II: right

RS recovery sacrifice

## Three LNP-Formulated RNA Platforms Encoding for Viral Proteins

TABLE 13

## Macroscopic Post Mortem Findings

Rat

Animal no.	Day of sacrifice	Affected organs	Findings
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## Males

Group 7: 100 µg BNT162b2/animal, i.m.

## Terminal sacrifice

(181)	TS / TD 17	Injection site I+II:	indurated
		Lymph node (iliac):	enlarged
(182)	TS / TD 17	Injection site I+II:	indurated
		Lymph node (iliac):	enlarged
(183)	TS / TD 17	—	no pathological findings
(184)	TS / TD 17	External observation:	injection site I thickened
		Injection site I+II:	enlarged
		Lymph node (iliac):	enlarged
		Lymph node (renal):	enlarged
(185)	TS / TD 17	—	no pathological findings
(186)	TS / TD 17	—	no pathological findings
		Injection site I:	indurated
(187)	TS / TD 17	Lymph node (iliac):	enlarged
		Injection site I+II:	indurated
		Spleen:	enlarged
(188)	TS / TD 17	Injection site I+II:	thickened

TD test day

I: left

TS terminal sacrifice

II: right

## Three LNP-Formulated RNA Platforms Encoding for Viral Proteins

TABLE 13

## Macroscopic Post Mortem Findings

Rat

Animal no.	Day of sacrifice	Affected organs	Findings
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## Males

Group 7: 100 µg BNT162b2/animal, i.m.

(189) TS / TD 17	Injection site I+II:	indurated
	Spleen:	enlarged
	Lymph node (iliac):	enlarged
(190)	—	no pathological findings

## Recovery sacrifice

(191) RS / TD 38	—	no pathological findings
(192) RS / TD 38	—	no pathological findings
(193) RS / TD 38	—	no pathological findings
(194) RS / TD 38	—	no pathological findings
(195) RS / TD 38	Lymph node (iliac):	enlarged

## Three LNP-Formulated RNA Platforms Encoding for Viral Proteins

TABLE 13

## Macroscopic Post Mortem Findings

Rat

Animal no.	Day of sacrifice	Affected organs	Findings
Females			
<u>Group 1: Control</u>			
Terminal sacrifice			
(16)	TS / TD 17	—	no pathological findings
(17)	TS / TD 17	—	no pathological findings
(18)	TS / TD 17	—	no pathological findings
(19)	TS / TD 17	—	no pathological findings
(20)	TS / TD 17	—	no pathological findings
(21)	TS / TD 17	—	no pathological findings
(22)	TS / TD 17	—	no pathological findings
(23)	TS / TD 17	—	no pathological findings
(24)	TS / TD 17	—	no pathological findings
(25)	TS / TD 17	—	no pathological findings
Recovery sacrifice			
(26)	RS / TD 38	—	no pathological findings
(27)	RS / TD 38	—	no pathological findings
(28)	RS / TD 38	—	no pathological findings
(29)	RS / TD 38	—	no pathological findings
(30)	RS / TD 38	—	no pathological findings

TD test day

TS terminal sacrifice

RS recovery sacrifice

## Three LNP-Formulated RNA Platforms Encoding for Viral Proteins

TABLE 13

## Macroscopic Post Mortem Findings

Rat

Animal no.	Day of sacrifice	Affected organs	Findings
------------	------------------	-----------------	----------

## Females

Group 2: 30 µg BNT162a1/animal, i.m.

## Terminal sacrifice

(46)	TS / TD 17	External observation:	injection site I thickened
		Injection site I:	muscles indurated
		Spleen:	enlarged
(47)	TS / TD 17	Injection site I:	indurated
(48)	TS / TD 17	Injection site I:	indurated
		Spleen:	enlarged
(49)	TS / TD 17	External observation:	injection site I incrusted
		Injection site I:	muscle thickened, indurated
(50)	TS / TD 17	Injection site I:	muscle thickened, indurated
(51)	TS / TD 17	Uterus:	dilated
		Injection site I:	indurated
(52)	TS / TD 17	Injection site I:	muscle thickened, indurated
		Spleen:	enlarged
(53)	TS / TD 17	External observation:	injection site I thickened, skin incrusted
		Injection site I:	muscles indurated
		Lymph node (iliac):	enlarged

TD test day

TS terminal sacrifice

I: left

II: right

## Three LNP-Formulated RNA Platforms Encoding for Viral Proteins

TABLE 13

## Macroscopic Post Mortem Findings

Rat

Animal no.	Day of sacrifice	Affected organs	Findings
------------	------------------	-----------------	----------

## Females

Group 2: 30 µg BNT162a1/animal, i.m.

## Terminal sacrifice

(54)	TS / TD 17	External observation:	injection site I thickened
		Injection site I:	muscles indurated
		Spleen:	enlarged
(55)	TS / TD 17	External observation:	injection site I thickened
		Injection site I:	muscles indurated

## Recovery sacrifice

(56)	RS / TD 38	—	no pathological findings
(57)	RS / TD 38	—	no pathological findings
(58)	RS / TD 38	—	no pathological findings
(59)	RS / TD 38	—	no pathological findings
(60)	RS / TD 38	—	no pathological findings

## Three LNP-Formulated RNA Platforms Encoding for Viral Proteins

TABLE 13

## Macroscopic Post Mortem Findings

Rat

Animal no.	Day of sacrifice	Affected organs	Findings
Females			
<u>Group 3: 10 µg BNT162a1/animal, i.m.</u>			
Terminal sacrifice			
(76)	TS / TD 17	—	no pathological findings
(77)	TS / TD 17	—	no pathological findings
(78)	TS / TD 17	Injection site I:	indurated
(79)	TS / TD 17	Injection site I: Spleen:	indurated enlarged
		Uterus:	dilated, filled with clear liquid
		Adrenal glands:	enlarged
(80)	TS / TD 17	Injection site I:	muscle indurated
(81)	TS / TD 17	Injection site I:	indurated
(82)	TS / TD 17	Injection site I: Uterus:	indurated dilated, filled with clear liquid
(83)	TS / TD 17	Injection site I: Spleen: Uterus: Lymph node (iliac):	indurated enlarged dilated, filled with clear liquid enlarged

TD test day

I: left

TS terminal sacrifice

II: right

## Three LNP-Formulated RNA Platforms Encoding for Viral Proteins

TABLE 13

## Macroscopic Post Mortem Findings

Rat

Animal no.	Day of sacrifice	Affected organs	Findings
------------	------------------	-----------------	----------

## Females

Group 3: 10 µg BNT162a1/animal, i.m.

## Terminal sacrifice

(84)	TS / TD 17	External observation:	injection site I enlarged
		Injection site 1:	enlarged
		Lymph node (iliac):	enlarged
(85)	TS / TD 17	Injection site 1:	thickened
		Lymph node (iliac):	enlarged

## Recovery sacrifice

(86)	RS / TD 38	—	no pathological findings
(87)	RS / TD 38	—	no pathological findings
(88)	RS / TD 38	—	no pathological findings
(89)	RS / TD 38	—	no pathological findings
(90)	RS / TD 38	—	no pathological findings

## Three LNP-Formulated RNA Platforms Encoding for Viral Proteins

TABLE 13

## Macroscopic Post Mortem Findings

Rat

Animal no.	Day of sacrifice	Affected organs	Findings
------------	------------------	-----------------	----------

## Females

Group 4: 30 µg BNT162b1/animal, i.m.

## Terminal sacrifice

(106)	TS / TD 17	Injection site I:	indurated
(107)	TS / TD 17	—	no pathological findings
(108)	TS / TD 17	Injection site I:	muscle indurated, thickened
(109)	TS / TD 17	Uterus:	dilated
		Lymph node (iliac):	enlarged
(110)	TS / TD 17	Injection site I:	indurated
		Lymph node (iliac):	enlarged
(111)	TS / TD 17	Spleen:	enlarged
(112)	TS / TD 17	Injection site I:	indurated
		Lymph node (iliac):	enlarged
(113)	TS / TD 17	Lymph node (iliac):	enlarged
(114)	TS / TD 17	Injection site I:	indurated
(115)	TS / TD 17	Injection site I:	indurated

## Three LNP-Formulated RNA Platforms Encoding for Viral Proteins

TABLE 13

## Macroscopic Post Mortem Findings

Rat

Animal no.	Day of sacrifice	Affected organs	Findings
------------	------------------	-----------------	----------

## Females

Group 4: 30 µg BNT162b1/animal, i.m.

## Recovery sacrifice

(116)	RS / TD 38	Uterus:	dilated, filled with clear liquid
(117)	RS / TD 38	Lymph node (iliac):	enlarged
(118)	RS / TD 38	—	no pathological findings
(119)	RS / TD 38	—	no pathological findings
(120)	RS / TD 38	—	no pathological findings

## Three LNP-Formulated RNA Platforms Encoding for Viral Proteins

TABLE 13

## Macroscopic Post Mortem Findings

Rat

Animal no.	Day of sacrifice	Affected organs	Findings
------------	------------------	-----------------	----------

## Females

Group 5: 100 µg BNT162b1/animal, i.m.

## Terminal sacrifice

(136)	TS / TD 17	Spleen:	enlarged
(137)	TS / TD 17	Injection site I:	muscles indurated
		Spleen:	enlarged
		Lymph node (iliac):	enlarged
(138)	TS / TD 17	External observation:	injection site I+II thickened
		Injection site I+II:	muscles indurated
		Lymph node (iliac):	enlarged
(139)	TS / TD 17	Injection site I+II:	indurated
		Lymph node (iliac):	enlarged
		Spleen:	enlarged
(140)	TS / TD 17	Injection site I+II:	thickened
		Spleen:	enlarged
		Lymph node (iliac):	enlarged
(141)	TS / TD 17	Lymph node (iliac):	enlarged
		Spleen:	enlarged

## Three LNP-Formulated RNA Platforms Encoding for Viral Proteins

TABLE 13

## Macroscopic Post Mortem Findings

Rat

Animal no.	Day of sacrifice	Affected organs	Findings
Females			
<u>Group 5: 100 µg BNT162b1/animal, i.m.</u>			
Terminal sacrifice			
(142)	TS / TD 17	Injection site I+II:	thickened
		Sciatic nerve (left):	adhered to injection site I
		Spleen:	enlarged
		Lymph node (iliac):	enlarged
(143)	TS / TD 17	Injection site I:	indurated
		Lymph node (iliac):	enlarged
(144)	TS / TD 17	Lymph node (iliac):	enlarged
(145)	TS / TD 17	Spleen:	enlarged
Recovery sacrifice			
(146)	RS / TD 38	—	no pathological findings
(147)	RS / TD 38	Uterus:	dilated, filled with clear liquid
(148)	RS / TD 38	—	no pathological findings
(149)	RS / TD 38	Lymph node (iliac):	enlarged
(150)	RS / TD 38	Lymph node (iliac):	enlarged

TD test day

TS terminal sacrifice

RS recovery sacrifice

## Three LNP-Formulated RNA Platforms Encoding for Viral Proteins

TABLE 13

## Macroscopic Post Mortem Findings

Rat

Animal no.	Day of sacrifice	Affected organs	Findings
------------	------------------	-----------------	----------

## Females

Group 6: 30 µg BNT162c1/animal, i.m.

## Terminal sacrifice

(166)	TS / TD 10	External observation:	injection site I thickened
		Injection site I:	thickened
(167)	TS / TD 10	External observation:	injection site I thickened
		Injection site I:	muscle indurated
(168)	TS / TD 10	External observation:	injection site I thickened
		Injection site I:	muscle indurated
		Spleen:	enlarged
(169)	TS / TD 10	External observation:	injection site I thickened
		Injection site I:	indurated
		Lymph node (iliac):	enlarged
(170)	TS / TD 10	External observation:	injection site I thickened
		Injection site I:	indurated
(171)	TS / TD 10	Injection site I:	muscle indurated
(172)	TS / TD 10	External observation:	injection site I thickened
		Injection site I:	muscle indurated

TD test day

TS terminal sacrifice

I: left

II: right

## Three LNP-Formulated RNA Platforms Encoding for Viral Proteins

TABLE 13

## Macroscopic Post Mortem Findings

Rat

Animal no.	Day of sacrifice	Affected organs	Findings
Females			
<u>Group 6: 30 µg BNT162c1/animal, i.m.</u>			
Terminal sacrifice			
(173) TS / TD 10	External observation:	injection site I	thickened, incrusted
	Injection site I:	muscle indurated	
(174) TS / TD 10	External observation:	injection site I thickened	
	Injection site I:	muscle indurated	
	Lymph node (iliac):	enlarged	
(175) TS / TD 10	External observation:	injection site I thickened	
	Injection site I:	muscle indurated	
Recovery sacrifice			
(176) RS / TD 31	—	no pathological findings	
(177) RS / TD 31	—	no pathological findings	
(178) RS / TD 31	—	no pathological findings	
(179) RS / TD 31	—	no pathological findings	
(180) RS / TD 31	—	no pathological findings	

TD test day

I: left

TS terminal sacrifice

II: right

RS recovery sacrifice

## Three LNP-Formulated RNA Platforms Encoding for Viral Proteins

TABLE 13

## Macroscopic Post Mortem Findings

Rat

Animal no.	Day of sacrifice	Affected organs	Findings
Females			
<u>Group 7: 100 µg BNT162b2/animal, i.m.</u>			
Terminal sacrifice			
(196) TS / TD 17		Injection site I:	thickened
		Spleen:	enlarged
(197) TS / TD 17		External observation:	injection site I thickened
		Injection site I:	muscle jellied, adhered to sciatic nerve and bone
		Lymph node (iliac):	enlarged
		Spleen:	enlarged
(198) TS / TD 17		Injection site I:	indurated
(199) TS / TD 17		Injection site I+II:	indurated
		Spleen:	enlarged
		Uterus:	dilated, filled with clear liquid
		Lymph node (iliac):	enlarged
(200) TS / TD 17		Lymph node (iliac):	enlarged
		Injection site I:	indurated
(201) TS / TD 17		Injection site I+II:	indurated
		Sciatic nerve (left):	adhered to injection site I

TD test day

I: left

TS terminal sacrifice

II: right

## Three LNP-Formulated RNA Platforms Encoding for Viral Proteins

TABLE 13

## Macroscopic Post Mortem Findings

Rat

Animal no.	Day of sacrifice	Affected organs	Findings
Females			
<u>Group 7: 100 µg BNT162b2/animal, i.m.</u>			
Terminal sacrifice			
(202)	TS / TD 17	Injection site I+II:	indurated
		Spleen:	enlarged
		Lymph node (iliac):	enlarged
(203)	TS / TD 17	Spleen:	enlarged
(204)	TS / TD 17	Injection site I+II:	indurated
		Spleen:	enlarged
		Lymph node (iliac):	enlarged
(205)	TS / TD 17	Injection site I:	indurated
		Sciatic nerve (left):	adhered to injection site I
		Spleen:	enlarged
		Lymph node (iliac):	enlarged
Recovery sacrifice			
(206)	RS / TD 38	—	no pathological findings
(207)	RS / TD 38	Lymph node (iliac):	enlarged
(208)	RS / TD 38	—	no pathological findings
(209)	RS / TD 38	Lymph node (iliac):	enlarged
(210)	RS / TD 38	Lymph node (iliac):	enlarged

TD test day

I: left

TS terminal sacrifice

II: right

RS recovery sacrifice

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-1      Relative Organ Weights - Summary

Day: 10 Relative to Start Date		Relative Organ Weights						Rat
		Sex: Male	Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Epididymis (left) (g/kg b.w.)	Epididymis (right) (g/kg b.w.)	
Group 6: 30 µg/ animal BNT162c1	Mean SD N	0.1473 0.0176 10	0.1434 0.0158 10	7.245 0.371 10	1.690 0.241 10	1.730 0.280 10	6.458 0.417 10	6.565 0.693 10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-1      Relative Organ Weights - Summary

Day: 10 Relative to Start Date		Relative Organ Weights					Rat		
		Sex: Male	Heart (g/kg b.w.)	Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)			
Group 6: 30 µg/ animal	BNT162c1	Mean SD N	4.037 0.589 10	4.984 0.334 10	4.949 0.296 10	40.65 1.58 10	6.285 0.588 10	0.0640 0.0122 10	0.1218 0.0457 10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-1  
Relative Organ Weights - Summary

Day: 10 Relative to Start Date		Relative Organ Weights				Rat
Sex: Male		Pituitary (g/kg b.w.)	Prostate Gland (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)
Group 6: 30 µg/ animal BNT162c1	Mean SD N	0.0371 0.0032 10	2.8607 0.5571 10	3.775 0.508 10	1.713 0.389 10	0.0405 0.0115 10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-1 Relative Organ Weights - Summary

Day: 17 Relative to Start Date		Relative Organ Weights						Rat
Sex: Male		Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Epididymis (left) (g/kg b.w.)	Epididymis (right) (g/kg b.w.)	Testis (left) (g/kg b.w.)	Testis (right) (g/kg b.w.)
Group 1: Control		[a] 0.1167 SD 0.0144 N 10	[a] 0.1081 0.0149 10	[a] 6.141 0.207 10	[a] 1.401 0.233 10	[a] 1.284 0.114 10	[a] 5.511 0.448 10	[a] 5.447 0.421 10
Group 2: 30 µg/ animal BNT162a1		Mean 0.0203 SD 0.00235 N 31.0 %Diff 38.6	0.1529 ** 0.0235 10	0.1498 ** 0.473 10	7.195 ** 0.473 10	1.652 0.116 10	1.621 ** 0.176 10	6.421 ** 0.411 10
Group 3: 10 µg/ animal BNT162a1		Mean 0.1237 SD 0.0165 N 10 %Diff 6.0	0.1261 0.0176 10	6.061 0.447 10	1.759 ** 0.256 10	1.595 ** 0.244 10	5.717 0.446 10	6.472 ** 0.388 10
Group 4: 30 µg/ animal BNT162b1		Mean 0.1383 SD 0.0165 N 10 %Diff 18.6	0.1299 0.0258 10	6.487 0.304 10	1.617 0.151 10	1.525 * 0.146 10	5.901 0.369 10	5.840 0.426 10
			20.2	5.6	15.4	18.7	7.1	7.2

[a] - Anova & Dunnett: \*\* = p ≤ 0.01  
 [a] - Anova & Dunnett(Rank): \* = p ≤ 0.05; \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-1      Relative Organ Weights - Summary

		Relative Organ Weights						Rat
		Day: 17 Relative to Start Date			Relative Organ Weights			
Sex: Male		Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Epididymis (left) (g/kg b.w.)	Epididymis (right) (g/kg b.w.)	Testis (left) (g/kg b.w.)	Testis (right) (g/kg b.w.)
Group 5: 100 µg/ animal		[a] 0.1398 SD 0.0318 N 10	[a] 0.1383* 0.0266 10	[a] 6.432 0.445 10	[a] 1.731* 0.193 10	[a] 1.754** 0.285 10	[a] 5.992 0.722 10	[a] 5.867 0.587 10
BNT162b1	%Diff	19.8	28.0	4.7	23.6	36.5	8.7	7.7
Group 7: 100 µg/ animal		Mean 0.1439* SD 0.0223 N 10	0.1248 0.0372 10	6.537 0.518 10	1.857** 0.359 10	1.720** 0.302 10	6.180* 0.471 10	6.090** 0.367 10
BNT162b2	%Diff	23.4	15.5	6.4	32.5	33.9	12.1	11.8

[a] - Anova &amp; Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-1 Relative Organ Weights - Summary

		Day: 17 Relative to Start Date						Rat	
		Relative Organ Weights							
Sex: Male		Heart (g/kg b.w.)	Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cerv.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)
Group 1: Control		[a] 3.493 0.140 N 10	[a] 4.369 0.252 10	[a] 4.531 0.325 10	[a] 39.90 1.59 10	[a] 5.945 1.632 10	[a] 0.0644 0.0326 10	[a2] 0.1010 0.0487 10	
Group 2: 30 µg/ animal BNT162a1		Mean SD N %Diff	4.024 ** 0.551 10 15.2	4.819 * 0.481 10 10.3	4.919 0.556 10 8.6	38.93 3.31 10 -2.4	6.805 ** 0.799 10 14.5	0.0730 0.0107 10 13.3	0.1428 0.0618 10 41.4
Group 3: 10 µg/ animal BNT162a1		Mean SD N %Diff	3.561 0.336 10 1.9	4.377 0.315 10 0.2	4.459 0.205 10 -1.6	39.05 2.60 10 -2.1	6.163 0.548 10 3.7	0.0579 0.0130 10 -0.1	0.1204 0.0566 10 19.2
Group 4: 30 µg/ animal BNT162b1		Mean SD N %Diff	3.623 0.331 10 3.7	4.644 0.296 10 6.3	4.690 0.275 10 3.5	38.73 2.50 10 -2.9	5.903 0.511 10 -0.7	0.0740 0.0625 10 14.9	0.1097 0.0620 10 8.6

[a] - Anova &amp; Dunnett(Rank). \*\* = p ≤ 0.01

[a1] - Anova &amp; Dunnett. \* = p ≤ 0.05

[a2] - Anova &amp; Dunnett(Log)

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 14-1  
Relative Organ Weights - Summary

Day: 17 Relative to Start Date		Relative Organ Weights						Rat
Sex: Male		Heart (g/kg b.w.)	Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cerv.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)
Group 5: 100 µg/ animal	Mean SD N %Diff	3.771 0.311 10 8.0	[a] 4.809* 0.365 10	[a] 4.745 0.296 10	[a] 42.65 4.27 10	[a] 6.199 0.585 10	[a] 0.0601 0.0228 10	[a] 0.1463 0.0788 10
BNT162b1								
Group 7: 100 µg/ animal	Mean SD N %Diff	3.799* 0.336 10 8.8	4.667 0.404 10 6.8	4.810 0.442 10 6.1	40.68 1.95 10 2.0	6.286 0.689 10 5.7	.6.7 44.8 10 -17.8	.44.8
BNT162b2								

[a] - Anova &amp; Dunnett. \* = p ≤ 0.05

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-1  
Relative Organ Weights - Summary

		Day: 17 Relative to Start Date					Rat
Sex: Male		Relative Organ Weights					
		Pituitary (g/kg b.w.)	Prostate Gland (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)	
Group 1: Control		[a] 0.0391 0.0043 10	[a] 2.8411 0.5188 10	[a] 2.568 0.378 10	[a] 1.647 0.294 10	[a] 0.0402 0.0095 10	
Group 2: 30 µg/ animal BNT162a1		Mean SD N %Diff	0.0454 0.0087 10 16.0	2.9005 0.7572 10 2.1	3.584** 0.377 10 39.6	1.695 0.297 10 2.9	0.0509* 0.0073 10 26.5
Group 3: 10 µg/ animal BNT162a1		Mean SD N %Diff	0.0398 0.0064 10 1.6	2.6968 0.6254 10 -5.1	3.283** 0.284 10 27.8	1.618 0.369 10 -1.8	0.0379 0.0094 10 -5.9
Group 4: 30 µg/ animal BNT162b1		Mean SD N %Diff	0.0415 0.0066 10 6.1	2.7895 0.5007 10 -1.8	3.141** 0.332 10 22.3	1.548 0.347 10 -6.0	0.0443 0.0071 10 10.0

[a] - Anova &amp; Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01

[a1] - Anova &amp; Dunnett(Rank)

TABLE 14-1  
Relative Organ Weights - Summary

Day: 17 Relative to Start Date		Relative Organ Weights					Rat
Sex: Male		Pituitary (g/kg b.w.)	Prostate Gland (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)	
Group 5: 100 µg/ animal BNT162b1	Mean	0.0384	2.5310	[a]	3.339**	1.405	0.0338
	SD	0.0075	0.6737	[a]	0.383	0.264	0.0061
	N	10	9	[a]	10	10	10
	%Diff	-2.0	-10.9	30.0	-14.7	-16.1	
Group 7: 100 µg/ animal BNT162b2	Mean	0.0379	2.7095	[a]	3.508**	1.297*	0.0370
	SD	0.0043	0.5848	[a]	0.268	0.651	0.0113
	N	10	10	[a]	10	10	10
	%Diff	-3.1	-4.6	36.6	-21.3	-8.0	

[a] - Anova &amp; Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-1      Relative Organ Weights - Summary

Day: 31 Relative to Start Date		Relative Organ Weights						Rat
		Sex: Male	Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Epididymis (left) (g/kg b.w.)	Epididymis (right) (g/kg b.w.)	
Group 6: 30 µg/ animal BNT162c1	Mean SD N	0.1009 0.0152 5	0.0995 0.0138 5	5.544 0.546 5	1.777 0.185 5	1.874 0.156 5	5.170 0.381 5	5.584 1.038 5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-1      Relative Organ Weights - Summary

Day: 31 Relative to Start Date		Relative Organ Weights					Rat
		Sex: Male	Heart (g/kg b.w.)	Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	
Group 6: 30 µg/ animal BNT162c1	Mean SD N	3.483 0.365 5	4.223 0.309 5	4.365 0.490 5	35.79 2.13 5	6.070 1.026 5	0.0489 0.0141 5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-1  
Relative Organ Weights - Summary

Day: 31 Relative to Start Date		Relative Organ Weights				Rat
Sex: Male		Pituitary (g/kg b.w.)	Prostate Gland (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)
Group 6: 30 µg/ animal BNT162c1	Mean SD N	0.0349 0.0050 5	2.7828 0.4167 5	2.242 0.258 5	1.109 0.143 5	0.0399 0.0113 5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-1 Relative Organ Weights - Summary

		Day: 38 Relative to Start Date						Rat					
		Relative Organ Weights - Summary											
Sex: Male		Adren. Gland (left) (g/kg b.w.)			Adren. Gland (right) (g/kg b.w.)			Brain (g/kg b.w.)		Epididymis (left) (g/kg b.w.)	Epididymis (right) (g/kg b.w.)	Testis (left) (g/kg b.w.)	Testis (right) (g/kg b.w.)
Group 1: Control		[a] 0.0979 0.0132 5	[a] 0.0988 0.0144 5	[a] 5.356 0.278 5	[a] 1.847 0.212 5	[a] 1.709 0.160 5	[a] 5.426 0.607 5	[a] 5.980 1.749 5					
Group 2: 30 µg/ animal BNT162a1	%Diff	0.1204* 0.0116 23.0	0.1172 0.0247 18.7	5.311 0.232 5	5.311 0.278 5	1.803 0.253 5	1.772 0.284 5	5.025 0.284 5					
Group 3: 10 µg/ animal BNT162a1	%Diff	0.1078 0.0080 10.0	0.1051 0.0156 6.4	5.257 0.221 5	5.257 0.120 5	1.977 0.112 5	1.997 0.390 5	5.139 0.404 4					
Group 4: 30 µg/ animal BNT162b1	%Diff	0.0878 0.0084 -10.3	0.0874 0.0161 5	5.065 0.398 -11.5	5.065 0.256 5	1.671 0.249 -9.5	1.547 0.730 5	-14.1 -16.0 -6.1					

[a] - Anova & Dunnett: \* = p ≤ 0.05  
 [a] - Anova & Dunnett(Rank)

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-1 Relative Organ Weights - Summary

Day: 38 Relative to Start Date		Relative Organ Weights						Rat
Sex: Male		Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Epididymis (left) (g/kg b.w.)	Epididymis (right) (g/kg b.w.)	Testis (left) (g/kg b.w.)	Testis (right) (g/kg b.w.)
Group 5: 100 µg/ animal	Mean SD N %Diff	0.1022 0.0117 5 4.3	0.1003 0.0036 5 1.6	[a] 5.396 0.293 5 0.7	[a] 2.090 0.217 5 13.2	[a] 2.009 0.134 5 17.6	[a] 5.042 0.460 5 -7.1	[a] 5.077 0.500 5 -15.1
BNT162b1								
Group 7: 100 µg/ animal	Mean SD N %Diff	0.0929 0.0136 5 -5.2	0.0972 0.0175 5 -1.5	[a] 5.337 0.607 5 -0.4	[a] 1.882 0.218 5 1.9	[a] 1.869 0.229 5 9.4	[a] 5.229 0.291 5 -3.6	[a] 5.235 0.423 5 -12.5
BNT162b2								

[a] - Anova &amp; Dunnett

TABLE 14-1 Relative Organ Weights - Summary

		Day: 38 Relative to Start Date						Rat
		Relative Organ Weights						
Sex: Male		Heart (g/kg b.w.)	Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cerv.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)
Group 1: Control		[a] 3.289 0.138 5	[a] 4.378 0.125 5	[a] 4.649 0.229 5	[a] 35.10 2.91 5	[a] 5.281 0.545 5	[a] 0.0500 0.0145 5	[a] 0.0653 0.0154 5
Group 2: 30 µg/ animal BNT162a1		Mean SD N %Diff	3.417 0.163 5 3.9	4.246 0.350 5 -3.0	4.302 0.434 5 -7.5	36.86 1.85 5 5.0	5.639 0.484 5 6.8	0.0544 0.0389 5 8.8
Group 3: 10 µg/ animal BNT162a1		Mean SD N %Diff	3.414 0.072 5 3.8	4.161 0.376 5 -5.0	4.121 0.097 5 -11.4	36.34 1.10 5 3.5	5.367 0.771 5 1.6	0.0550 0.0145 5 9.9
Group 4: 30 µg/ animal BNT162b1		Mean SD N %Diff	3.341 0.073 5 1.6	4.130 0.226 5 -5.7	4.186 0.298 5 -10.0	37.98 1.92 5 8.2	5.618 0.169 5 6.4	0.0418 0.0112 5 -16.5

[a] - Anova & Dunnett  
 [a1] - Anova & Dunnett(Log)

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-1      Relative Organ Weights - Summary

		Day: 38 Relative to Start Date					Rat	
		Relative Organ Weights						
Sex: Male		Heart (g/kg b.w.)	Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cerv.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)
Group 5: 100 µg/ animal	Mean SD N %Diff	3.364 0.216 5 2.3	4.092 0.373 5 -6.5	4.312 0.462 5 -7.3	35.73 1.33 5 1.8	5.226 0.606 5 -1.0	0.0464 0.0107 5 -7.3	0.1217* 0.0290 5 86.3
BNT162b1								
Group 7: 100 µg/ animal	Mean SD N %Diff	3.486 0.306 5 6.0	4.073 0.184 5 -7.0	4.247 0.242 5 -8.7	34.46 2.39 5 -1.8	5.905 1.059 5 11.8	0.0469 0.0071 5 -6.2	0.0966 0.0361 5 47.8
BNT162b2								

[a] - Anova &amp; Dunnett. \* = p ≤ 0.05

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 14-1  
Relative Organ Weights - Summary

Day: 38 Relative to Start Date		Relative Organ Weights					Rat
Sex: Male		Pituitary (g/kg b.w.)	Prostate Gland (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)	
Group 1: Control	Mean SD N	0.0323 0.0027 5	3.3446 0.5299 5	[a] [a] 5	2.112 0.176 5	[a] 1.357 0.356 5	[a] 0.0389 0.0189 5
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	0.0328 0.0086 5 1.3	3.3192 0.6362 5 -0.8	- 2.346 0.163 5 11.1	- 1.273 0.385 5 -6.2	- 0.0356 0.0086 5 -8.7	- 0.0356 0.0086 5 -8.7
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	0.0328 0.0034 5 1.4	2.8093 0.6543 5 -16.0	- 2.322 0.273 5 10.0	- 1.148 0.192 5 -15.4	- 0.0395 0.0225 5 1.4	- 0.0395 0.0225 5 1.4
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	0.0339 0.0048 5 4.9	3.2267 1.1184 5 -3.5	- 2.191 0.132 5 3.7	- 1.203 0.131 5 -11.3	- 0.0377 0.0154 5 -3.0	- 0.0377 0.0154 5 -3.0

[a] - Anova & Dunnett  
 [a1] - Anova & Dunnett(Rank)

TABLE 14-1  
Relative Organ Weights - Summary

Day: 38 Relative to Start Date		Relative Organ Weights					Rat
Sex: Male		Pituitary (g/kg b.w.)	Prostate Gland (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)	
Group 5: 100 µg/ animal	Mean SD N	0.0373 0.0025 5	3.3528 0.5910 5	[a] 0.177 5	2.324 10.0	[a] 1.156 0.319 5	[a] 0.0388 0.0078 5
BNT162b1	%Diff	15.3	0.2			-14.8	-0.2
Group 7: 100 µg/ animal	Mean SD N	0.0334 0.0032 5	2.8265 0.7708 5	[a] 2.288 0.339 5	1.236 0.191 5	[a] 0.0314 0.0021 5	
BNT162b2	%Diff	3.4	-15.5	8.3	-8.9	-19.4	

[a] - Anova &amp; Dunnett

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-1      Relative Organ Weights - Summary

Day: 10 Relative to Start Date		Relative Organ Weights					Rat
		Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Ovary (left) (g/kg b.w.)	Ovary (right) (g/kg b.w.)	
Group 6: 30 µg/ animal BNT162c1	Mean SD N	0.2274 0.0316 10	0.2123 0.0259 10	9.151 0.564 10	0.2262 0.0640 10	0.2375 0.0591 10	4.003 0.303 10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-1      Relative Organ Weights - Summary

Day: 10 Relative to Start Date		Relative Organ Weights					Rat
		Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cerv.) (g/kg b.w.)	
Group 6: 30 µg/ animal BNT162c1	Mean SD N	4.552 0.335 10	4.757 0.446 10	41.60 3.73 10	7.450 0.591 10	0.0725 0.0257 10	0.1139 0.0464 10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-1  
Relative Organ Weights - Summary

Day: 10 Relative to Start Date		Relative Organ Weights				Rat
		Pituitary (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)	
Sex: Female						
Group 6: 30 µg/ animal	Mean SD N	0.0590 0.0088 10	3.913 0.627 10	1.821 0.416 10	0.0480 0.0101 10	-
BNT162c1		-	-	-	-	-

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-1      Relative Organ Weights - Summary

		Day: 17 Relative to Start Date						Rat
		Relative Organ Weights						
Sex: Female		Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Ovary (left) (g/kg b.w.)	Ovary (right) (g/kg b.w.)	Heart (g/kg b.w.)	
Group 1: Control		[a] 0.2049 SD 0.0375 N 10	[a] 0.1977 0.0321 10	[a] 0.235 10	[a] 0.2449 0.0729 10	[a] 0.2649 0.0490 10	[a] 4.156 0.312 10	
Group 2: 30 µg/ animal BNT162a1		Mean SD N 8.9	0.2231 0.0359 10	0.2225 0.0242 12.5	8.840 0.638 10	0.2666 0.0627 10	0.2589 0.0906 10	4.144 0.292 10
Group 3: 10 µg/ animal BNT162a1		Mean SD N 2.1	0.2093 0.0329 10	0.2102 0.0269 10	8.551 0.662 10	0.2683 0.0585 10	0.2796 0.0438 10	3.963 0.212 10
Group 4: 30 µg/ animal BNT162b1		Mean SD N -3.3	0.1981 0.0299 10	0.1976 0.0274 -0.1	8.146 0.537 10	0.2429 0.0314 -3.5	0.2321 0.0252 -0.9	4.117 0.295 -4.6

[a] - Anova & Dunnett  
[a1] - Anova & Dunnett(Rank)

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RNA Platforms encoding for Viral Proteins

TABLE 14-1      Relative Organ Weights - Summary

		Day: 17 Relative to Start Date						Rat
		Relative Organ Weights						
Sex: Female		Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Ovary (left) (g/kg b.w.)	Ovary (right) (g/kg b.w.)	Heart (g/kg b.w.)	
Group 5: 100 µg/ animal BNT162b1	Mean	0.2241	0.2189	[a]	8.128	0.2372	0.2579	[a]
	SD	0.0255	0.0248	10	0.768	0.0367	0.0613	3.824
	N	10	10	10	10	10	10	0.389
	%Diff	9.4	10.7	-3.7	-3.2	-2.7	-8.0	10
Group 7: 100 µg/ animal BNT162b2	Mean	0.2280	0.2251	8.598	0.2286	0.2606	3.974	[a]
	SD	0.0409	0.0326	0.719	0.0593	0.0643	0.260	10
	N	10	10	10	10	10	-1.6	-4.4
	%Diff	11.3	13.9	1.9	-6.7			

[a] - Anova &amp; Dunnett

TABLE 14-1      Relative Organ Weights - Summary

		Day: 17 Relative to Start Date							Rat		
		Relative Organ Weights									
Sex: Female		Kidney (left) (g/kg b.w.)			Kidney (right) (g/kg b.w.)			Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cerv.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)
		[a]			[a]			[a]		[a]	[a2]
Group 1: Control		Mean SD N	4.255 0.293 10		4.485 0.264 10			37.87 2.18 10	6.054 0.486 10	0.0734 0.0275 10	0.1545 0.0786 10
Group 2: 30 µg/ animal BNT162a1		Mean SD N %Diff	4.760 ** 0.279 10 11.9		4.893 ** 0.205 10 9.1			43.81 ** 2.28 10 15.7	7.142 ** 0.782 10 18.0	0.0874 0.0294 10 19.2	0.1333 0.0572 10 -13.8
Group 3: 10 µg/ animal BNT162a1		Mean SD N %Diff	4.533 0.285 10 6.5		4.556 0.207 10 1.6			40.61 2.50 10 7.2	6.889 * 0.479 10 13.8	0.0882 0.0242 10 20.2	0.1801 0.0424 10 16.5
Group 4: 30 µg/ animal BNT162b1		Mean SD N %Diff	4.321 0.207 10 1.6		4.448 0.219 10 -0.8			41.78 * 3.65 10 10.3	6.777 0.599 10 11.9	0.0777 0.0160 10 5.9	0.1443 0.1054 10 -6.6

[a] - Anova &amp; Dunnett.. \* = p ≤ 0.05; \*\* = p ≤ 0.01

[a1] - Anova &amp; Dunnett(Rank): \*\* = p ≤ 0.01

[a2] - Anova &amp; Dunnett(Log)

TABLE 14-1  
Relative Organ Weights - Summary

		Day: 17 Relative to Start Date				Rat	
		Relative Organ Weights					
Sex: Female		Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cerv.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)
Group 5: 100 µg/ animal BNT162b1	Mean	4.529	4.680	[a]	6.495	0.0757	0.1840
	SD	0.369	0.319	43.65** 4.48	0.915	0.0254	0.0661
	N	10	10	10	10	10	10
	%Diff	6.5	4.3	15.3	7.3	3.2	19.1
Group 7: 100 µg/ animal BNT162b2	Mean	4.635*	4.814**	45.66** 0.254	6.972* 0.473	0.0785	0.1683
	SD	0.389	0.254	10	10	0.0385	0.1062
	N	10	8.0	20.6	15.2	10	10
	%Diff	8.9				6.9	8.9

[a] - Anova &amp; Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 14-1  
Relative Organ Weights - Summary

Day: 17 Relative to Start Date		Relative Organ Weights				Rat
Sex: Female		Pituitary (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)	
Group 1: Control		[a] Mean SD N	[a1] 0.0679 0.0086 10	[a1] 2.701 0.626 10	[a] 2.079 0.472 10	[a2] 0.0587 0.0140 10
Group 2: 30 µg/ animal BNT162a1		Mean SD N %Diff	0.0620 0.0124 10 -8.8	4.523 ** 0.737 10 67.4	2.089 0.480 10 0.5	0.0579 0.0182 10 -1.3
Group 3: 10 µg/ animal BNT162a1		Mean SD N %Diff	0.0687 0.0079 10 1.1	3.395 0.251 10 25.7	2.243 0.446 10 7.9	0.0526 0.0143 10 -10.4
Group 4: 30 µg/ animal BNT162b1		Mean SD N %Diff	0.0606 0.0122 10 -10.9	3.345 0.385 10 23.8	1.955 0.471 10 -5.9	0.0408 * 0.0054 10 -30.5

[a] - Anova & Dunnett  
 [a1] - Anova & Dunnett(Rank): \*\* = p ≤ 0.01  
 [a2] - Anova & Dunnett(Log): \* = p ≤ 0.05

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-1  
Relative Organ Weights - Summary

		Day: 17 Relative to Start Date				Rat
		Relative Organ Weights				
Sex: Female		Pituitary (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)	
Group 5: 100 µg/ animal BNT162b1	Mean	0.0624	4.035**	[a] 1.678	[a] 0.0412*	
	SD	0.0116	0.677	0.327	0.0170	
	N	10	9	10	10	
	%Diff	-8.1	49.4	-19.3	-29.9	
Group 7: 100 µg/ animal BNT162b2	Mean	0.0661	4.383**	[a] 1.795	[a] 0.0507	
	SD	0.0139	0.496	0.525	0.0190	
	N	10	10	10	10	
	%Diff	-2.7	62.3	-13.6	-13.6	

[a] - Anova & Dunnett: \* =  $p \leq 0.05$ ; \*\* =  $p \leq 0.01$

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-1      Relative Organ Weights - Summary

Day: 31 Relative to Start Date		Relative Organ Weights					Rat
		Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Ovary (left) (g/kg b.w.)	Ovary (right) (g/kg b.w.)	
Group 6: 30 µg/ animal BNT162c1	Mean SD N	0.1981 0.0302 5	0.1926 0.0175 5	7.752 0.664 5	0.2609 0.0508 5	0.2623 0.0470 5	3.760 0.187 5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-1      Relative Organ Weights - Summary

Day: 31 Relative to Start Date		Relative Organ Weights					Rat
		Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cerv.) (g/kg b.w.)	
Group 6: 30 µg/ animal BNT162c1	Mean SD N	4.163 0.178 5	4.273 0.176 5	35.52 1.38 5	5.596 0.336 5	0.0601 0.0218 5	0.1696 0.0477 5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-1  
Relative Organ Weights - Summary

Day: 31 Relative to Start Date		Relative Organ Weights				Rat
		Pituitary (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)	
Sex: Female						
Group 6: 30 µg/ animal BNT162c1	Mean SD N	0.0644 0.0163 5	2.349 0.258 5	1.792 0.283 5	0.0437 0.0069 5	-

TABLE 14-1      Relative Organ Weights - Summary

		Day: 38 Relative to Start Date						Rat
		Relative Organ Weights						
Sex: Female		Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Ovary (left) (g/kg b.w.)	Ovary (right) (g/kg b.w.)	Ovary (g/kg b.w.)	Heart (g/kg b.w.)
Group 1: Control		[a] 0.2252 SD 0.0279 N 5	[a] 0.2232 0.0281 5	[a] 7.326 0.511 5	[a] 0.2286 0.0372 5	[a] 0.2651 0.0589 5	[a] 3.804 0.302 5	
Group 2: 30 µg/ animal BNT162a1		Mean SD N %Diff	0.1865 0.0177 5 -17.2	0.1744* 0.0356 5 -21.8	7.351 0.312 5 0.4	0.2228 0.0542 5 -2.5	0.2578 0.0836 5 -2.7	3.707 0.225 5 -2.5
Group 3: 10 µg/ animal BNT162a1		Mean SD N %Diff	0.1739 0.0236 5 -22.8	0.1699* 0.0180 5 -23.9	7.465 0.470 5 1.9	0.2307 0.0651 5 0.9	0.2421 0.0534 5 -8.7	3.758 0.249 5 -1.2
Group 4: 30 µg/ animal BNT162b1		Mean SD N %Diff	0.1844 0.0212 5 -18.1	0.1689* 0.0196 5 -24.3	7.309 0.148 5 -0.2	0.2429 0.0654 5 6.2	0.2413 0.0552 5 -9.0	3.743 0.264 5 -1.6

[a] - Anova & Dunnett: \* = p ≤ 0.05  
 [a1] - Anova & Dunnett(Rank)

TABLE 14-1  
Relative Organ Weights - Summary

		Day: 38 Relative to Start Date					Rat
Sex: Female		Relative Organ Weights					
		Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Ovary (left) (g/kg b.w.)	Ovary (right) (g/kg b.w.)	Heart (g/kg b.w.)
Group 5: 100 µg/ animal		[a] 0.2004 SD N 5	[a] 0.1979 0.0121 5	[a] 7.825 0.453 5	[a] 0.2633 0.0290 5	[a] 0.2790 0.0270 5	[a] 4.287 0.751 5
BNT162b1	%Diff	-11.0	-11.3	6.8	15.2	5.2	12.7
Group 7: 100 µg/ animal		Mean 0.2022 SD 0.0400 N 5	0.2081 0.0340 5	7.633 0.315 5	0.2086 0.0264 5	0.2195 0.0298 5	3.956 0.222 5
BNT162b2	%Diff	-10.2	-6.7	4.2	-8.8	-17.2	4.0

[a] - Anova &amp; Dunnett

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RNA Platforms encoding for Viral Proteins

TABLE 14-1      Relative Organ Weights - Summary

		Day: 38 Relative to Start Date						Rat
		Relative Organ Weights						
Sex: Female		Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cerv.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)	
Group 1: Control		[a] 4.047 0.235 5	[a] 4.280 0.363 5	[a] 38.19 2.39 5	[a] 5.980 0.249 5	[a] 0.0722 0.0178 5	[a] 0.1331 0.0632 5	
Group 2: 30 µg/ animal BNT162a1		Mean SD N %Diff	4.060 0.282 5 0.3	4.164 0.342 5 -2.7	38.07 2.48 5 -0.3	6.155 0.719 5 2.9	0.0706 0.0269 5 -2.2	0.1474 0.0367 5 10.8
Group 3: 10 µg/ animal BNT162a1		Mean SD N %Diff	3.985 0.339 5 -1.5	4.190 0.415 5 -2.1	34.02* 1.34 5 -10.9	5.541 0.528 5 -7.3	0.0674 0.0174 5 -6.6	0.1313 0.0519 5 -1.3
Group 4: 30 µg/ animal BNT162b1		Mean SD N %Diff	4.067 0.240 5 0.5	4.204 0.147 5 -1.8	35.36 1.62 5 -7.4	5.178 0.637 5 -13.4	0.0717 0.0224 5 -0.8	0.1804 0.0488 5 35.5

[a] - Anova & Dunnett: \* =  $p \leq 0.05$   
 [a] - Anova & Dunnett(Log)

TABLE 14-1  
Relative Organ Weights - Summary

		Day: 38 Relative to Start Date				Rat	
		Relative Organ Weights					
Sex: Female		Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cerv.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)
Group 5: 100 µg/ animal BNT162b1	Mean	4.289	4.550	[a]	[a]	0.1057	0.1486
	SD	0.536	0.568	5	39.31	0.0721	0.0295
	N	5	5	5	2.31	5	5
	%Diff	6.0	6.3		0.451		
Group 7: 100 µg/ animal BNT162b2	Mean	4.259	4.525		3.8	46.4	11.6
	SD	0.554	0.399				
	N	5	5				
	%Diff	5.2	5.7	-0.5	0.132	0.0262	0.0706

[a] - Anova &amp; Dunnett

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 14-1  
Relative Organ Weights - Summary

		Day: 38 Relative to Start Date				Rat
Sex: Female		Relative Organ Weights				
		Pituitary (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)	
Group 1: Control		[a] 0.0662 0.0078 5	[a] 2.706 0.367 5	[a] 1.943 0.411 5	[a] 0.0598 0.0118 5	
Group 2: 30 µg/ animal BNT162a1		Mean SD N %Diff	0.0657 0.0065 5 -0.8	2.507 0.305 5 -7.4	1.638 0.229 5 -15.7	0.0577 0.0159 5 -3.5
Group 3: 10 µg/ animal BNT162a1		Mean SD N %Diff	0.0559 0.0071 5 -15.5	2.403 0.158 5 -11.2	1.778 0.436 5 -8.5	0.0471 0.0136 5 -21.2
Group 4: 30 µg/ animal BNT162b1		Mean SD N %Diff	0.0572 0.0110 5 -13.5	2.280 0.171 5 -15.8	1.550 0.226 5 -20.2	0.0495 0.0086 5 -17.3

[a] - Anova &amp; Dunnett

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-1  
Relative Organ Weights - Summary

Sex: Female		Relative Organ Weights					Rat
		Pituitary (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	[a]	Thyroid/Par. (left) (g/kg b.w.)	
Group 5: 100 µg/ animal	Mean SD N %Diff	0.0616 0.0113 5 -6.8	2.885 0.235 5 6.6	1.903 0.248 5 -2.0	[a] [a] 5 -2.0	0.0442 0.0071 5 -26.1	
Group 7: 100 µg/ animal	Mean SD N %Diff	0.0661 0.0101 5 -0.1	2.749 0.249 5 1.6	1.639 0.339 5 -15.6		0.0433 0.0120 5 -27.6	
BNT162b1							
BNT162b2							

[a] - Anova & Dunnett

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-1 Relative Organ Weights - Summary

Page	Day	Group	Sex	Measurement	Marker	Comments and Markers
17		2	Male	Adren. Gland (left)	**	Anova & Dunnett: ** = p ≤ 0.01
17		2	Male	Adren. Gland (right)	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
17		2	Male	Brain	**	Anova & Dunnett: ** = p ≤ 0.01
17		2	Male	Epididymis (right)	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
17		2	Male	Testis (left)	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
17		2	Male	Testis (right)	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
17		2	Male	Epididymis (left)	**	Anova & Dunnett: ** = p ≤ 0.01
17		3	Male	Epididymis (right)	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
17		3	Male	Epididymis (right)	*	Anova & Dunnett(Rank): * = p ≤ 0.05
17		4	Male	Adren. Gland (right)	*	Anova & Dunnett: * = p ≤ 0.05
17		5	Male	Epididymis (left)	*	Anova & Dunnett: * = p ≤ 0.05
17		5	Male	Epididymis (right)	*	Anova & Dunnett: * = p ≤ 0.05
17		5	Male	Adren. Gland (left)	*	Anova & Dunnett: * = p ≤ 0.05
17		7	Male	Epididymis (left)	**	Anova & Dunnett: ** = p ≤ 0.01
17		7	Male	Epididymis (right)	**	Anova & Dunnett: ** = p ≤ 0.01
17		7	Male	Testis (left)	*	Anova & Dunnett: * = p ≤ 0.05
17		7	Male	Testis (right)	**	Anova & Dunnett: ** = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-1      Relative Organ Weights - Summary

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Measurement</u>	<u>Marker</u>	<u>Comment</u>
17	2	2	Male	Heart	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
17	2	2	Male	Kidney (left)	*	Anova & Dunnett: * = p ≤ 0.05
17	2	2	Male	Lungs	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
17	5	Male		Kidney (left)	*	Anova & Dunnett: * = p ≤ 0.05
17	7	Male		Heart	*	Anova & Dunnett: * = p ≤ 0.05

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RNA Platforms encoding for Viral Proteins

TABLE 14-1      Relative Organ Weights - Summary

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Measurement</u>	<u>Comments and Markers</u>	
					<u>Marker</u>	<u>Comment</u>
17	17	2	Male	Spleen	**	Anova & Dunnett: ** = p ≤ 0.01
17	17	2	Male	Thyroid/Par. (left)	*	Anova & Dunnett: * = p ≤ 0.05
17	17	3	Male	Spleen	**	Anova & Dunnett: ** = p ≤ 0.01
17	17	4	Male	Spleen	**	Anova & Dunnett: ** = p ≤ 0.01
17	17	5	Male	Spleen	**	Anova & Dunnett: ** = p ≤ 0.01
17	17	7	Male	Spleen	**	Anova & Dunnett: ** = p ≤ 0.01
		7	Male	Thymus	*	Anova & Dunnett: * = p ≤ 0.05

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RNA Platforms encoding for Viral Proteins

TABLE 14-1      Relative Organ Weights - Summary

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Measurement</u>	<u>Comments and Markers</u>	
					<u>Marker</u>	<u>Comment</u>
38	2	2	Male	Adren. Gland (left)	*	Anova & Dunnett: * = $p \leq 0.05$

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-1      Relative Organ Weights - Summary

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Measurement</u>	<u>Comments and Markers</u>	
					<u>Marker</u>	<u>Comment</u>
38	38	5	Male	Lymph node (mesent.)	*	Anova & Dunnett: * = $p \leq 0.05$

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-1      Relative Organ Weights - Summary

Page	Day	Group	Sex	Measurement	Comments and Markers	
					Marker	Comment
17	2	Female	Kidney (left)	**	Anova & Dunnett: ** = p ≤ 0.01	
17	2	Female	Kidney (right)	**	Anova & Dunnett(Rank): ** = p ≤ 0.01	
17	2	Female	Liver	**	Anova & Dunnett: ** = p ≤ 0.01	
17	2	Female	Lungs	**	Anova & Dunnett: ** = p ≤ 0.01	
17	3	Female	Lungs	*	Anova & Dunnett: * = p ≤ 0.05	
17	4	Female	Liver	*	Anova & Dunnett: * = p ≤ 0.05	
17	5	Female	Liver	**	Anova & Dunnett: ** = p ≤ 0.01	
17	7	Female	Kidney (left)	*	Anova & Dunnett: * = p ≤ 0.05	
17	7	Female	Kidney (right)	**	Anova & Dunnett: ** = p ≤ 0.01	
17	7	Female	Liver	**	Anova & Dunnett: ** = p ≤ 0.01	
17	7	Female	Lungs	*	Anova & Dunnett: * = p ≤ 0.05	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-1      Relative Organ Weights - Summary

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Measurement</u>	<u>Marker</u>	<u>Comments and Markers</u>
17	17	2	Female	Spleen	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
17	17	4	Female	Thyroid/Par. (left)	*	Anova & Dunnett(Log): * = p ≤ 0.05
17	17	5	Female	Spleen	**	Anova & Dunnett: ** = p ≤ 0.01
17	17	5	Female	Thyroid/Par. (left)	*	Anova & Dunnett: * = p ≤ 0.05
7	17	7	Female	Spleen	**	Anova & Dunnett: ** = p ≤ 0.01

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RNA Platforms encoding for Viral Proteins

TABLE 14-1      Relative Organ Weights - Summary

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Measurement</u>	<u>Comments and Markers</u>	
					<u>Marker</u>	<u>Comment</u>
38	38	2	Female	Adren. Gland (right)	*	Anova & Dunnett: * = $p \leq 0.05$
38	38	3	Female	Adren. Gland (right)	*	Anova & Dunnett: * = $p \leq 0.05$
38	38	4	Female	Adren. Gland (right)	*	Anova & Dunnett: * = $p \leq 0.05$

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-1      Relative Organ Weights - Summary

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Measurement</u>	<u>Comments and Markers</u>	
					<u>Marker</u>	<u>Comment</u>
38	38	3	Female	Liver	*	Anova & Dunnett: * = $p \leq 0.05$

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RNA Platforms encoding for Viral Proteins

TABLE 14-2 Relative Organ Weights - Individual Data

Sex: Male	Day: 10 Relative to Start Date	Rat				
Group 6: 30 µg/ animal	BNT162c1	Relative Organ Weights				
		Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Epididymis (left) (g/kg b.w.)	Epididymis (right) (g/kg b.w.)
151	0.161	0.146	0.142	7.32	1.95	2.07
152	0.132	0.142	0.167	6.40	1.85	1.68
153	0.159	0.137	0.137	7.49	1.95	2.27
154	0.145	0.138	0.156	7.44	1.70	1.63
155	0.138	0.138	0.166	7.27	1.49	1.42
156	0.166	0.154	0.148	7.54	2.00	1.96
157	0.152	0.171	0.146	6.88	1.45	1.62
158	0.136	0.136	0.114	7.69	1.38	1.42
159	0.114	0.122	0.122	7.22	1.71	1.57
160				7.21	1.42	1.65
Mean	0.1473	0.1434	0.158	7.245	1.690	1.730
SD	0.0176	0.0158	10	0.371	0.241	0.280
N	10			10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Male	Day: 10 Relative to Start Date	Relative Organ Weights					Rat	
Group 6: 30 µg/ animal	BNT162c1	Heart (g/kg b.w.)	Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cerv.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)
151		4.17	4.79	4.67	42.1	6.36	0.046	0.138
152		3.79	5.21	5.14	37.9	6.13	0.053	0.086
153		3.83	5.50	5.58	39.5	6.46	0.080	0.171
154		3.94	5.13	4.88	40.5	6.86	0.072	0.112
155		3.72	4.82	5.04	41.5	6.99	0.074	0.092
156		4.18	5.09	4.75	41.8	6.03	0.049	0.102
157		3.61	4.62	4.83	41.5	5.30	0.054	0.101
158		5.61	5.41	5.21	42.7	6.96	0.073	0.049
159		3.61	4.50	4.79	40.4	5.43	0.068	0.182
160		3.90	4.77	4.61	38.6	6.34	0.071	0.185
Mean		4.037	4.984	4.949	40.65	6.285	0.0640	0.1218
SD		0.589	0.334	0.296	1.58	0.588	0.0122	0.0457
N		10	10	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Male	Day: 10 Relative to Start Date	Relative Organ Weights				Rat
Group 6: 30 µg/ animal		Pituitary (g/kg b.w.)	Prostate Gland (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)
151	0.042	2.842	3.52	2.45	0.061	
152	0.040	3.587	3.59	1.78	0.049	
153	0.036	3.153	3.55	1.63	0.024	
154	0.040	3.873	4.70	1.59	0.033	
155	0.039	2.961	4.40	2.34	0.046	
156	0.034	2.649	3.32	1.58	0.045	
157	0.034	2.214	3.17	1.25	0.027	
158	0.033	2.762	3.74	1.63	0.045	
159	0.039	2.333	3.47	1.50	0.043	
160	0.035	2.233	4.29	1.38	0.032	
Mean	0.0371	2.8607	3.775	1.713	0.0405	
SD	0.0032	0.5571	0.508	0.389	0.0115	
N	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Female	Day: 10 Relative to Start Date	Relative Organ Weights						Rat
		Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Ovary (left) (g/kg b.w.)	Ovary (right) (g/kg b.w.)	Heart (g/kg b.w.)	
Group 6: 30 µg/ animal BNT162c1								
166	0.224	0.234	9.06	0.203	0.219	4.58		
167	0.203	0.198	9.27	0.198	0.213	3.97		
168	0.240	0.223	10.12	0.280	0.354	3.95		
169	0.244	0.229	9.32	0.331	0.311	3.82		
170	0.156	0.156	8.13	0.196	0.191	4.44		
171	0.234	0.202	9.50	0.104	0.145	3.74		
172	0.210	0.216	8.83	0.242	0.242	4.10		
173	0.267	0.251	8.95	0.295	0.251	3.98		
174	0.245	0.213	9.70	0.208	0.213	3.62		
175	0.250	0.201	8.63	0.206	0.235	3.82		
Mean	0.2274	0.2123	9.151	0.2262	0.2375	4.003		
SD	0.0316	0.0259	0.564	0.0640	0.0591	0.303		
N	10	10	10	10	10	10		

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Female	Day: 10 Relative to Start Date	Relative Organ Weights				Rat	
Group 6: 30 µg/ animal	BNT162c1	Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cer.v.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)
166		4.42	5.00	45.8	7.65	0.026	0.078
167		4.61	4.91	40.7	7.68	0.059	0.099
168		5.03	5.37	41.2	6.29	0.069	0.137
169		4.94	5.09	43.3	7.43	0.122	0.183
170		4.09	4.00	36.9	6.80	0.089	0.173
171		4.26	4.67	37.4	7.68	0.093	0.088
172		4.42	4.21	43.6	8.15	0.058	0.074
173		5.02	5.24	48.6	7.59	0.076	0.082
174		4.37	4.48	38.9	7.04	0.059	0.165
175		4.36	4.61	39.7	8.19	0.074	0.059
Mean		4.552	4.757	41.60	7.450	0.0725	0.1139
SD		0.335	0.446	3.73	0.591	0.0257	0.0464
N		10	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2 Relative Organ Weights - Individual Data

Sex: Female	Day: 10 Relative to Start Date	Pituitary (g/kg b.w.)	Spleen (g/kg b.w.)	Relative Organ Weights Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)	Rat
<b>Group 6: 30 µg/ animal BNT162c1</b>						
166	0.062	4.06	2.45			
167	0.055	3.27	1.74			
168	0.051	3.49	1.83			
169	0.076	3.36	1.99			
170	0.058	3.96	1.91			
171	0.062	4.00	0.93			
172	0.047	4.36	1.37			
173	0.055	5.13	2.13			
174	0.069	3.09	1.87			
175	0.054	4.41	2.01			
Mean	0.0590	3.913	1.821			
SD	0.0088	0.627	0.416			
N	10	10	10			
				0.0480		
				0.0101		
				10		

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RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Rat				
Group 1: Control	Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Relative Organ Weights		Testis (right) (g/kg b.w.)
				Epididymis (left) (g/kg b.w.)	Epididymis (right) (g/kg b.w.)	
1	0.108	0.096	6.28	1.85	1.34	5.86
2	0.130	0.114	6.35	1.46	1.27	6.54
3	0.131	0.116	6.31	1.64	1.34	5.21
4	0.105	0.108	5.85	1.20	1.23	5.19
5	0.110	0.122	6.15	1.16	1.26	5.35
6	0.111	0.087	6.10	1.17	1.23	5.32
7	0.110	0.094	6.45	1.42	1.48	5.13
8	0.146	0.137	5.97	1.58	1.43	5.88
9	0.115	0.103	6.11	1.20	1.12	5.32
10	0.100	0.103	5.85	1.33	1.15	5.32
Mean	0.1167	0.1081	6.141	1.401	1.284	5.511
SD	0.0144	0.0149	0.207	0.233	0.114	0.448
N	10	10	10	10	10	10

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TABLE 14-2 Relative Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Rat				
Group 2: 30 µg/ animal BNT162a1	Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Relative Organ Weights		Testis (right) (g/kg b.w.)
				Epididymis (left) (g/kg b.w.)	Epididymis (right) (g/kg b.w.)	
31	0.148	0.137	7.17	1.63	1.48	6.76
32	0.178	0.155	7.41	1.78	1.90	6.75
33	0.183	0.200	6.84	1.63	1.43	6.10
34	0.160	0.153	6.50	1.70	1.56	6.29
35	0.129	0.143	6.86	1.75	1.57	6.18
36	0.146	0.116	7.51	1.64	1.42	6.02
37	0.143	0.128	7.26	1.36	1.50	6.38
38	0.124	0.149	7.09	1.70	1.74	6.39
39	0.173	0.173	8.25	1.65	1.86	7.32
40	0.144	0.144	7.07	1.66	1.74	6.03
Mean	0.1529	0.1498	7.195	1.652	1.621	6.421
SD	0.0203	0.0235	0.473	0.116	0.176	0.411
N	10	10	10	10	10	10

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RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Rat				
Group 3: 10 µg/ animal BNT162a1		Relative Organ Weights				
		Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Epididymis (left) (g/kg b.w.)	Epididymis (right) (g/kg b.w.)
61	0.108	0.120	5.65	1.83	1.71	5.97
62	0.126	0.139	6.25	1.42	1.39	5.86
63	0.110	0.113	5.58	2.24	1.98	6.22
64	0.108	0.121	6.09	1.79	1.82	5.63
65	0.119	0.107	5.79	1.54	1.40	5.85
66	0.115	0.100	6.77	1.87	1.75	5.74
67	0.130	0.127	5.72	1.91	1.77	5.32
68	0.119	0.133	6.81	1.94	1.51	6.41
69	0.140	0.147	6.19	1.56	1.40	5.04
70	0.161	0.155	5.76	1.47	1.21	5.14
Mean	0.1237	0.1261	6.061	1.759	1.595	5.717
SD	0.0165	0.0176	0.447	0.256	0.244	0.446
N	10	10	10	10	10	10

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RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Rat				
Group 4: 30 µg/ animal BNT162b1		Relative Organ Weights				
		Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Epididymis (left) (g/kg b.w.)	Epididymis (right) (g/kg b.w.)
91	0.111	0.091	6.25	1.53	1.33	5.99
92	0.134	0.121	7.00	1.62	1.55	5.55
93	0.127	0.110	6.27	1.67	1.53	6.00
94	0.142	0.149	6.50	1.31	1.42	5.70
95	0.159	0.159	6.28	1.69	1.36	6.02
96	0.142	0.124	6.07	1.63	1.63	5.53
97	0.139	0.109	6.70	1.62	1.62	5.70
98	0.167	0.177	6.88	1.84	1.74	6.81
99	0.122	0.122	6.31	1.78	1.69	5.97
100	0.141	0.138	6.61	1.48	1.38	5.74
Mean	0.1383	0.1299	6.487	1.617	1.525	5.901
SD	0.0165	0.0258	0.304	0.151	0.146	0.369
N	10	10	10	10	10	10

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TABLE 14-2 Relative Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Rat				
Group 5: 100 µg/ animal BNT162b1		Relative Organ Weights				
		Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Epididymis (left) (g/kg b.w.)	Epididymis (right) (g/kg b.w.)
121	0.090	0.111	6.36	2.14	1.84	6.45
122	0.121	0.125	6.98	1.76	1.69	6.03
123	0.166	0.186	6.45	1.56	1.69	6.91
124	0.091	0.110	5.99	1.40	1.51	5.00
125	0.183	0.148	7.01	1.80	2.45	5.84
126	0.135	0.123	5.63	1.58	1.50	5.13
127	0.171	0.181	6.19	1.78	1.55	5.63
128	0.151	0.126	6.92	1.77	1.62	7.28
129	0.136	0.130	6.45	1.73	1.73	6.01
130	0.153	0.143	6.34	1.79	1.96	5.65
Mean	0.1398	0.1383	6.432	1.731	1.754	5.992
SD	0.0318	0.0266	0.445	0.193	0.285	0.722
N	10	10	10	10	10	10

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TABLE 14-2 Relative Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Rat				
Group 7: 100 µg/ animal BNT162b2	Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Relative Organ Weights		Testis (right) (g/kg b.w.)
				Epididymis (left) (g/kg b.w.)	Epididymis (right) (g/kg b.w.)	
181	0.118	0.112	5.92	1.61	1.70	5.98
182	0.118	0.114	7.03	1.62	1.62	5.86
183	0.136	0.115	6.61	1.80	1.49	5.94
184	0.171	0.174	6.66	1.50	1.37	5.88
185	0.145	0.133	5.66	1.57	1.66	5.89
186	0.152	0.129	7.41	1.94	1.90	7.26
187	0.150	0.047	6.55	1.70	1.50	5.92
188	0.141	0.121	6.18	1.99	1.73	6.41
189	0.123	0.119	6.86	2.15	1.77	6.72
190	0.186	0.183	6.48	2.69	2.46	5.95
Mean	0.1439	0.1248	6.537	1.857	1.720	6.180
SD	0.0223	0.0372	0.518	0.359	0.302	0.471
N	10	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Male   Day: 17 Relative to Start Date		Rat				
		Relative Organ Weights				
Group 1: Control		Heart (g/kg b.w.)	Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)
1	3.66	4.75	4.97	39.8	5.26	0.064
2	3.48	4.59	4.88	41.7	6.41	0.059
3	3.57	4.29	4.35	42.3	5.54	0.068
4	3.27	4.53	4.89	37.5	4.98	0.039
5	3.48	4.25	4.38	40.3	5.19	0.145
6	3.54	4.14	4.23	40.5	5.05	0.027
7	3.62	4.25	4.12	41.2	10.41	0.044
8	3.61	4.03	4.15	38.2	5.58	0.084
9	3.26	4.70	4.73	39.1	5.96	0.050
10	3.43	4.17	4.61	38.4	5.08	0.065
Mean	3.493	4.369	4.531	39.90	5.945	0.0644
SD	0.140	0.252	0.325	1.59	1.632	0.0326
N	10	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Relative Organ Weights					Rat	
Group 2: 30 µg/ animal	BNT162a1	Heart (g/kg b.w.)	Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cerv.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)
31		3.95	4.92	4.88	38.1	6.76	0.085	0.248
32		3.64	5.82	5.89	42.3	7.44	0.074	0.225
33		4.03	5.04	5.20	41.7	7.00	0.073	0.120
34		3.48	4.69	4.65	39.8	6.57	0.060	0.078
35		4.54	4.79	4.54	41.4	6.00	0.061	0.164
36		3.81	4.49	4.60	41.5	6.28	0.064	0.112
37		3.67	4.44	4.58	37.0	7.00	0.066	0.062
38		5.36	5.00	5.11	31.6	8.66	0.074	0.188
39		4.02	5.03	5.67	39.8	6.30	0.080	0.131
40		3.74	4.00	4.07	36.3	6.03	0.092	0.100
Mean		4.024	4.819	4.919	38.93	6.805	0.0730	0.1428
SD		0.551	0.481	0.556	3.31	0.799	0.0107	0.0618
N		10	10	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Relative Organ Weights					Rat	
Group 3: 10 µg/ animal	BNT162a1	Heart (g/kg b.w.)	Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cerv.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)
61		3.31	4.03	4.25	37.4	5.51	0.054	0.100
62		3.18	4.57	4.70	41.7	6.15	0.053	0.175
63		3.37	4.12	4.44	35.7	5.93	0.038	0.073
64		3.50	4.55	4.67	35.6	5.51	0.062	0.139
65		3.53	4.72	4.45	43.3	5.49	0.059	0.157
66		4.03	4.68	4.59	40.9	6.34	0.078	0.091
67		3.27	4.25	4.65	36.9	6.53	0.059	0.107
68		3.75	4.61	4.25	39.6	6.34	0.076	0.061
69		4.21	4.47	4.50	40.2	6.92	0.061	0.064
70		3.47	3.78	4.09	39.2	6.92	0.040	0.237
Mean		3.561	4.377	4.459	39.05	6.163	0.0579	0.1204
SD		0.336	0.315	0.205	2.60	0.548	0.0130	0.0566
N		10	10	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2 Relative Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Relative Organ Weights					Rat	
Group 4: 30 µg/ animal	BNT162b1	Heart (g/kg b.w.)	Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cerv.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)
91		4.07	4.49	4.56	37.7	6.64	0.075	0.159
92		3.41	4.69	4.86	34.5	5.14	0.045	0.231
93		3.63	4.73	4.23	38.7	6.17	0.053	0.120
94		4.11	4.91	5.22	43.9	6.71	0.031	0.038
95		3.87	4.86	4.79	39.7	5.75	0.040	0.066
96		3.32	4.41	4.50	39.0	5.92	0.248	0.151
97		3.32	4.14	4.81	37.1	5.37	0.060	0.073
98		3.65	5.18	4.83	41.0	5.73	0.059	0.094
99		3.12	4.59	4.43	38.1	5.53	0.059	0.134
100		3.73	4.43	4.67	37.6	6.08	0.070	0.030
Mean		3.623	4.644	4.690	38.73	5.903	0.0740	0.1097
SD		0.331	0.296	0.275	2.50	0.511	0.0625	0.0620
N		10	10	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2 Relative Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Relative Organ Weights					Rat	
Group 5: 100 µg/ animal BNT162b1		Heart (g/kg b.w.)	Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cerv.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)
121	4.64	4.40	4.46	39.8	5.88	0.057	0.063	
122	3.71	5.18	4.81	41.2	7.57	0.029	0.301	
123	3.71	4.76	4.69	42.0	6.19	0.033	0.088	
124	3.66	4.59	4.81	41.8	6.52	0.052	0.074	
125	3.59	4.73	4.66	41.4	5.80	0.076	0.173	
126	3.73	4.78	4.78	47.5	6.34	0.100	0.205	
127	3.62	5.17	4.64	39.5	5.79	0.086	0.128	
128	3.64	4.18	4.29	43.6	6.38	0.072	0.231	
129	3.79	4.95	4.88	37.5	5.42	0.050	0.113	
130	3.62	5.35	5.41	52.1	6.11	0.046	0.086	
Mean	3.771	4.809	4.745	42.65	6.199	0.0601	0.1463	
SD	0.311	0.365	0.296	4.27	0.585	0.0228	0.0788	
N	10	10	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Relative Organ Weights					Rat	
Group 7: 100 µg/ animal BNT162b2		Heart (g/kg b.w.)	Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cerv.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)
181	3.92	4.28	4.46	39.2	5.62	0.043	0.052	
182	3.57	4.83	5.12	38.3	6.37	0.063	0.169	
183	3.39	4.55	4.82	42.1	6.24	0.041	0.319	
184	4.58	4.61	4.68	40.3	5.60	0.061	0.085	
185	3.47	4.35	4.21	42.7	6.31	0.068	0.157	
186	3.88	5.28	5.43	43.7	6.50	0.084	0.327	
187	3.66	4.06	4.22	38.6	7.12	0.050	0.213	
188	3.96	4.51	4.71	40.5	5.69	0.029	0.078	
189	3.89	5.22	5.42	38.9	5.73	0.051	0.167	
190	3.69	4.99	5.02	42.6	7.68	0.040	0.120	
Mean	3.799	4.667	4.810	40.68	6.286	0.0529	0.1687	
SD	0.336	0.404	0.442	1.95	0.689	0.0161	0.0948	
N	10	10	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Relative Organ Weights				Rat
Group 1: Control		Pituitary (g/kg b.w.)	Prostate Gland (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)
1	0.045		2.001	2.20	1.43	0.041
2	0.039		3.359	2.86	1.89	0.059
3	0.045		2.764	2.44	1.94	0.036
4	0.039		3.360	1.89	1.23	0.039
5	0.032		3.067	2.48	1.55	0.048
6	0.036		2.186	2.88	1.71	0.033
7	0.035		2.852	2.96	1.73	0.025
8	0.039		3.604	3.10	1.58	0.033
9	0.038		2.644	2.47	2.14	0.047
10	0.044		2.573	2.39	1.27	0.041
Mean	0.0391	2.8411		2.568	1.647	0.0402
SD	0.0043	0.5188	10	0.378	0.294	0.0095
N	10			10		10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Relative Organ Weights				Rat
Group 2: 30 µg/ animal		Pituitary (g/kg b.w.)	Prostate Gland (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)
31	0.041	3.149	4.18	1.59	0.055	
32	0.047	2.485	2.87	1.86	0.054	
33	0.040	2.447	3.80	2.13	0.047	
34	0.043	2.887	3.87	1.56	0.050	
35	0.046	4.789	3.75	2.07	0.039	
36	0.064	2.621	3.70	1.79	0.045	
37	0.055	2.285	3.34	1.17	0.066	
38	0.032	2.153	3.16	1.67	0.050	
39	0.047	2.919	3.55	1.35	0.055	
40	0.041	3.270	3.63	1.74	0.048	
Mean	0.0454	2.9005	3.584	1.695	0.0509	
SD	0.0087	0.7572	0.377	0.297	0.0073	
N	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Relative Organ Weights				Rat
Group 3: 10 µg/ animal		Pituitary (g/kg b.w.)	Prostate Gland (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)
61	0.040	2.172	3.05	1.17	0.031	
62	0.030	2.210	2.98	1.85	0.043	
63	0.041	3.151	3.43	1.19	0.038	
64	0.037	2.465	3.19	1.33	0.037	
65	0.033	2.132	2.97	1.87	0.024	
66	0.044	3.374	3.34	1.31	0.034	
67	0.045	3.109	3.58	1.63	0.059	
68	0.050	3.576	2.99	1.80	0.040	
69	0.045	3.037	3.67	2.33	0.041	
70	0.034	1.741	3.64	1.69	0.031	
Mean	0.0398	2.6968	3.283	1.618	0.0379	
SD	0.0064	0.6254	0.284	0.369	0.0094	
N	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Relative Organ Weights				Rat
Group 4: 30 µg/ animal		Pituitary (g/kg b.w.)	Prostate Gland (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)
91	0.039	2.545	3.29	1.53	0.049	
92	0.048	2.359	2.52	1.38	0.048	
93	0.033	3.338	3.10	1.77	0.053	
94	0.035	2.872	3.35	1.76	0.038	
95	0.053	3.038	2.94	2.05	0.033	
96	0.048	2.579	3.38	1.66	0.042	
97	0.036	2.735	3.15	1.23	0.036	
98	0.042	2.599	3.75	1.91	0.042	
99	0.044	3.788	2.97	1.25	0.047	
100	0.037	2.041	2.95	0.94	0.054	
Mean	0.0415	2.7895	3.141	1.548	0.0443	
SD	0.0066	0.5007	0.332	0.347	0.0071	
N	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Relative Organ Weights				Rat
Group 5: 100 µg/ animal BNT162b1		Pituitary (g/kg b.w.)	Prostate Gland (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)
121	0.048	2.118	3.68	1.54	0.042	
122	0.026	1.988	3.34	1.43	0.033	
123	0.036	2.978	3.75	1.56	0.033	
124	0.033	2.785	2.80	1.54	0.036	
125	0.048	2.445	3.35	1.24	0.041	
126	0.041	2.473	3.75	1.17	0.038	
127	0.046	3.291	2.73	1.22	0.033	
128	0.032	1.290	3.64	1.15	0.025	
129	0.037	-	2.99	1.20	0.033	
130	0.037	3.411	3.35	1.99	0.023	
Mean	0.0384	2.5310	3.339	1.405	0.0338	
SD	0.0075	0.6737	0.383	0.264	0.0061	
N	10	9	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Relative Organ Weights				Rat
Group 7: 100 µg/ animal BNT162b2		Pituitary (g/kg b.w.)	Prostate Gland (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)
181	0.039	2.909	3.49	0.82	0.021	
182	0.041	2.446	3.17	1.25	0.048	
183	0.044	3.311	3.36	1.02	0.024	
184	0.041	2.040	3.59	1.33	0.048	
185	0.033	3.525	3.61	1.01	0.030	
186	0.038	2.967	3.65	0.87	0.049	
187	0.037	2.269	3.19	0.86	0.033	
188	0.029	2.468	3.24	3.04	0.026	
189	0.041	3.336	3.96	1.33	0.048	
190	0.037	1.825	3.82	1.43	0.043	
Mean	0.0379	2.7095	3.508	1.297	0.0370	
SD	0.0043	0.5848	0.268	0.651	0.0113	
N	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Female    Day: 17 Relative to Start Date		Relative Organ Weights					Rat
Group 1: Control		Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Ovary (left) (g/kg b.w.)	Ovary (right) (g/kg b.w.)	Heart (g/kg b.w.)
16	0.253	0.240		8.36	0.232	0.257	3.90
17	0.215	0.220		8.33	0.394	0.330	4.16
18	0.137	0.152		8.54	0.324	0.334	4.42
19	0.166	0.157		8.67	0.125	0.277	4.61
20	0.186	0.217		8.43	0.231	0.262	3.81
21	0.190	0.171		8.61	0.264	0.204	4.26
22	0.256	0.241		8.83	0.198	0.290	4.58
23	0.225	0.188		8.41	0.234	0.285	4.14
24	0.194	0.186		8.10	0.249	0.186	3.92
25	0.226	0.205		8.10	0.200	0.226	3.75
Mean	0.2049	0.1977		8.438	0.2449	0.2649	4.156
SD	0.0375	0.0321		0.235	0.0729	0.0490	0.312
N	10	10		10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Relative Organ Weights						Rat
		Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Ovary (left) (g/kg b.w.)	Ovary (right) (g/kg b.w.)	Heart (g/kg b.w.)	
Group 2: 30 µg/ animal BNT162a1								
46	0.254	0.240	8.31	0.301	0.423	4.04		
47	0.176	0.185	8.66	0.213	0.157	4.17		
48	0.232	0.204	8.04	0.282	0.132	4.31		
49	0.160	0.243	9.61	0.180	0.194	3.78		
50	0.267	0.234	8.58	0.239	0.220	3.84		
51	0.259	0.243	9.67	0.207	0.228	4.40		
52	0.208	0.179	9.13	0.232	0.256	4.54		
53	0.201	0.237	9.32	0.322	0.322	4.48		
54	0.231	0.236	9.20	0.381	0.318	4.14		
55	0.244	0.224	7.88	0.310	0.339	3.72		
Mean	0.2231	0.22225	8.840	0.2666	0.2589	4.144		
SD	0.0359	0.0242	0.638	0.0627	0.0906	0.292		
N	10	10	10	10	10	10		

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Relative Organ Weights						Rat
		Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Ovary (left) (g/kg b.w.)	Ovary (right) (g/kg b.w.)	Heart (g/kg b.w.)	
Group 3: 10 µg/ animal BNT162a1	76	0.182	0.182	8.07	0.326	0.271	4.24	
	77	0.219	0.219	9.04	0.205	0.214	3.73	
	78	0.191	0.200	8.46	0.235	0.289	3.77	
	79	0.259	0.251	7.61	0.223	0.211	4.01	
	80	0.258	0.205	9.53	0.395	0.305	3.89	
	81	0.244	0.216	8.90	0.295	0.333	4.08	
	82	0.186	0.170	7.54	0.268	0.340	4.26	
	83	0.193	0.198	8.97	0.265	0.289	3.66	
	84	0.187	0.206	8.32	0.210	0.252	4.11	
	85	0.175	0.255	9.07	0.260	0.293	3.88	
Mean	0.2093	0.2102	8.551	0.2683	0.2796	3.963		
SD	0.0329	0.0269	0.662	0.0585	0.0438	0.212		
N	10	10	10	10	10	10		

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Relative Organ Weights						Rat
		Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Ovary (left) (g/kg b.w.)	Ovary (right) (g/kg b.w.)	Heart (g/kg b.w.)	
Group 4: 30 µg/ animal BNT162b1								
106	0.180	0.189	7.76	0.210	0.206	4.03		
107	0.216	0.216	8.47	0.264	0.207	3.93		
108	0.194	0.185	8.36	0.236	0.259	3.79		
109	0.168	0.157	7.61	0.180	0.203	4.55		
110	0.211	0.241	7.71	0.220	0.220	3.96		
111	0.169	0.173	7.37	0.258	0.238	4.15		
112	0.270	0.237	8.72	0.280	0.228	4.55		
113	0.184	0.179	7.91	0.273	0.228	4.00		
114	0.198	0.207	8.62	0.250	0.278	4.43		
115	0.191	0.191	8.92	0.259	0.255	3.78		
Mean	0.1981	0.1976	8.146	0.2429	0.2321	4.117		
SD	0.0299	0.0274	0.537	0.0314	0.0252	0.295		
N	10	10	10	10	10	10		

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Relative Organ Weights						Rat
		Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Ovary (left) (g/kg b.w.)	Ovary (right) (g/kg b.w.)	Heart (g/kg b.w.)	
Group 5: 100 µg/ animal BNT162b1								
136	0.240	0.220	8.31	0.183	0.183	4.24		
137	0.250	0.226	8.57	0.301	0.344	3.63		
138	0.196	0.212	6.83	0.220	0.200	3.18		
139	0.198	0.181	8.20	0.247	0.243	3.79		
140	0.229	0.224	8.77	0.238	0.295	4.34		
141	0.208	0.224	7.81	0.220	0.204	3.82		
142	0.248	0.219	9.62	0.262	0.335	4.37		
143	0.197	0.184	7.99	0.184	0.202	3.77		
144	0.209	0.230	7.42	0.267	0.320	3.45		
145	0.266	0.270	7.76	0.249	0.253	3.65		
Mean	0.2241	0.2189	8.128	0.2372	0.2579	3.824		
SD	0.0255	0.0248	0.768	0.0367	0.0613	0.389		
N	10	10	10	10	10	10		

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Relative Organ Weights						Rat
		Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Ovary (left) (g/kg b.w.)	Ovary (right) (g/kg b.w.)	Heart (g/kg b.w.)	
<b>Group 7: 100 µg/ animal BNT162b2</b>								
196	0.161	0.201	7.69	0.177	0.233	0.214	3.86	
197	0.243	0.228	8.94	0.248			4.27	
198	0.199	0.179	8.72	0.314	0.334		4.19	
199	0.308	0.282	9.23	0.246	0.395		3.95	
200	0.241	0.237	7.60	0.121	0.201		3.38	
201	0.237	0.227	9.28	0.218	0.222		4.12	
202	0.261	0.266	9.31	0.281	0.276		3.89	
203	0.213	0.231	8.49	0.293	0.267		3.82	
204	0.188	0.183	7.59	0.192	0.277		4.18	
205	0.230	0.216	9.15	0.197	0.188		4.08	
Mean	0.2280	0.2251	8.598	0.2286	0.2606		3.974	
SD	0.0409	0.0326	0.719	0.0593	0.0643		0.260	
N	10	10	10	10	10		10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Relative Organ Weights				Rat	
Group 1: Control		Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cerv.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)
16	4.80	4.59	41.2	5.92	0.051	0.090	
17	4.12	4.71	36.6	5.72	0.142	0.165	
18	4.37	4.56	36.3	6.53	0.069	0.240	
19	4.06	3.97	41.1	7.10	0.078	0.083	
20	3.81	4.04	35.0	6.12	0.044	0.067	
21	4.17	4.58	37.0	5.46	0.069	0.134	
22	4.68	4.54	40.1	6.27	0.087	0.212	
23	4.18	4.73	37.7	5.88	0.064	0.193	
24	4.18	4.60	35.8	5.57	0.076	0.291	
25	4.18	4.53	37.9	5.97	0.052	0.070	
Mean	4.255	4.485	37.87	6.054	0.0734	0.1545	
SD	0.293	0.264	2.18	0.486	0.0275	0.0786	
N	10	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Relative Organ Weights				Rat	
Group 2: 30 µg/ animal	BNT162a1	Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cerv.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)
46		5.03	5.17	44.6	6.90	0.113	0.183
47		4.63	4.82	42.6	7.55	0.097	0.083
48		4.31	4.59	43.6	6.13	0.036	0.245
49		5.14	5.05	41.2	7.08	0.078	0.082
50		4.64	4.74	41.3	7.69	0.066	0.113
51		5.07	5.02	48.6	7.19	0.057	0.088
52		4.88	4.83	43.5	8.59	0.082	0.087
53		4.88	5.19	46.3	5.79	0.106	0.101
54		4.53	4.67	43.8	7.27	0.135	0.183
55		4.49	4.87	42.5	7.21	0.105	0.167
Mean		4.760	4.893	43.81	7.142	0.0874	0.1333
SD		0.279	0.205	2.28	0.782	0.0294	0.0572
N		10	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Relative Organ Weights				Rat	
Group 3: 10 µg/ animal	BNT162a1	Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cerv.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)
76		4.38	4.62	43.4	7.56	0.107	0.191
77		4.94	4.66	41.9	7.64	0.135	0.256
78		4.50	4.55	39.6	6.21	0.098	0.220
79		4.66	4.62	40.9	6.28	0.085	0.109
80		4.84	4.79	39.5	6.74	0.095	0.158
81		4.78	4.50	43.1	6.98	0.052	0.141
82		4.42	4.42	40.7	6.87	0.059	0.213
83		4.58	4.15	37.1	6.99	0.077	0.174
84		4.16	4.39	43.5	7.11	0.098	0.159
85		4.06	4.87	36.4	6.52	0.076	0.180
Mean		4.533	4.556	40.61	6.889	0.0882	0.1801
SD		0.285	0.207	2.50	0.479	0.0242	0.0424
N		10	10	10	10	10	10

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RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Relative Organ Weights				Rat	
Group 4: 30 µg/ animal BNT162b1		Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cer.v.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)
106	4.54	4.71	41.6	6.17	0.090	0.231	
107	4.36	4.41	36.7	6.61	0.073	0.056	
108	4.53	4.62	41.6	6.61	0.051	0.139	
109	4.21	4.36	45.9	7.12	0.088	0.092	
110	3.92	4.05	41.3	5.68	0.099	0.082	
111	4.43	4.59	39.1	6.93	0.056	0.048	
112	4.46	4.69	44.6	7.54	0.081	0.100	
113	4.28	4.28	47.3	7.01	0.086	0.077	
114	4.43	4.52	43.4	7.63	0.090	0.372	
115	4.05	4.23	36.4	6.46	0.064	0.246	
Mean	4.321	4.448	41.78	6.777	0.0777	0.1443	
SD	0.207	0.219	3.65	0.599	0.0160	0.1054	
N	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Relative Organ Weights				Rat	
Group 5: 100 µg/ animal BNT162b1		Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cer.v.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)
136	5.01	4.60	47.7	6.97	0.106	0.155	
137	4.38	4.62	41.9	6.92	0.071	0.151	
138	3.65	3.92	34.9	5.53	0.043	0.133	
139	4.32	4.50	38.4	6.97	0.062	0.225	
140	4.76	4.76	44.8	6.62	0.086	0.071	
141	4.74	5.07	44.0	6.90	0.042	0.187	
142	4.61	4.76	44.2	7.14	0.112	0.136	
143	4.74	4.78	47.4	5.79	0.088	0.241	
144	4.55	4.76	50.0	4.55	0.053	0.267	
145	4.52	5.02	43.2	7.56	0.095	0.274	
Mean	4.529	4.680	43.65	6.495	0.0757	0.1840	
SD	0.369	0.319	4.48	0.915	0.0254	0.0661	
N	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Relative Organ Weights				Rat	
Group 7: 100 µg/ animal BNT162b2		Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cerv.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)
196	4.31	4.39	44.7	7.24	0.020	0.093	
197	4.66	4.86	46.6	7.38	0.034	0.058	
198	4.38	4.68	49.3	6.33	0.110	0.169	
199	4.67	4.97	44.6	6.77	0.118	0.221	
200	4.02	4.70	41.0	6.84	0.044	0.225	
201	5.30	4.64	49.7	7.15	0.071	0.099	
202	5.17	4.92	44.8	6.99	0.108	0.123	
203	4.44	5.20	45.3	7.37	0.116	0.422	
204	4.56	4.86	42.2	6.10	0.051	0.183	
205	4.83	5.21	48.3	7.56	0.113	0.089	
Mean	4.635	4.844	45.66	6.972	0.0785	0.1683	
SD	0.389	0.254	2.87	0.473	0.0385	0.1062	
N	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 14-2 Relative Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Relative Organ Weights			Rat
Group 1: Control		Pituitary (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)
16	0.064	2.10	1.97	0.047	
17	0.069	2.65	2.38	0.059	
18	0.059	2.26	3.19	0.044	
19	0.065	4.38	1.48	0.069	
20	0.080	2.57	1.91	0.049	
21	0.060	2.45	2.31	0.051	
22	0.077	2.56	2.08	0.092	
23	0.069	2.85	1.70	0.064	
24	0.080	2.57	1.90	0.059	
25	0.057	2.61	1.87	0.052	
Mean	0.0679	2.701	2.079	0.0587	
SD	0.0086	0.626	0.472	0.0140	
N	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Relative Organ Weights			Rat
Group 2: 30 µg/ animal		Pituitary (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)
46	0.070		4.32	2.54	0.056
47	0.042		3.52	2.45	0.032
48	0.064		4.13	1.91	0.054
49	0.053		4.85	2.57	0.058
50	0.066		4.83	1.31	0.080
51	0.067		4.29	2.59	0.036
52	0.053		5.94	2.27	0.077
53	0.065		5.04	1.61	0.050
54	0.087		4.82	1.49	0.087
55	0.053		3.49	2.15	0.048
Mean	0.0620		4.523	2.089	0.0579
SD	0.0124		0.737	0.480	0.0182
N	10		10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Relative Organ Weights			Rat
Group 3: 10 µg/ animal		Pituitary (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)
76	0.070		3.50	2.33	0.051
77	0.070		3.21	2.47	0.037
78	0.068		3.37	2.44	0.064
79	0.061		2.88	1.94	0.053
80	0.074		3.58	2.11	0.074
81	0.056		3.28	2.11	0.042
82	0.075		3.32	2.37	0.039
83	0.058		3.81	1.59	0.053
84	0.079		3.55	3.23	0.037
85	0.076		3.45	1.84	0.076
Mean	0.0687		3.395	2.243	0.0526
SD	0.0079		0.251	0.446	0.0143
N	10		10	10	10

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RNA Platforms encoding for Viral Proteins

TABLE 14-2      Relative Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Relative Organ Weights			Rat
Group 4: 30 µg/ animal		Pituitary (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)
106	0.069	3.30	2.10	0.043	
107	0.065	2.90	2.20	0.039	
108	0.046	3.47	1.99	0.046	
109	0.054	3.71	2.87	0.046	
110	0.086	3.32	1.34	0.039	
111	0.056	4.03	2.22	0.036	
112	0.071	2.80	1.52	0.043	
113	0.057	3.59	2.12	0.029	
114	0.047	3.39	1.89	0.042	
115	0.055	2.96	1.32	0.045	
Mean	0.0606	3.345	1.955	0.0408	
SD	0.0122	0.385	0.471	0.0054	
N	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 14-2 Relative Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Pituitary (g/kg b.w.)	Spleen (g/kg b.w.)	Relative Organ Weights Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)	Rat
<b>Group 5: 100 µg/ animal BNT162b1</b>						
136	0.069	4.77	2.24	0.029		
137	0.080	3.91	1.46	0.080		
138	0.047	2.43	1.18	0.031		
139	0.066	3.92	1.68	0.053		
140	0.062	4.72	1.67	0.024		
141	0.058	4.20	1.33	0.029		
142	0.073	4.18	1.70	0.049		
143	0.061	4.17	2.15	0.031		
144	0.041	-	1.72	0.037		
145	0.066	4.03	1.66	0.050		
Mean	0.0624	4.035	1.678	0.0412		
SD	0.0116	0.677	0.327	0.0170		
N	10	9	10	10		

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RNA Platforms encoding for Viral Proteins

TABLE 14-2 Relative Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Pituitary (g/kg b.w.)	Spleen (g/kg b.w.)	Relative Organ Weights Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)	Rat
<b>Group 7: 100 µg/ animal BNT162b2</b>						
196	0.056		4.79	1.53	0.044	
197	0.068		4.52	1.60	0.039	
198	0.060		4.63	1.79	0.045	
199	0.087		3.74	1.64	0.082	
200	0.056		3.54	1.41	0.032	
201	0.052		4.40	3.03	0.085	
202	0.094		4.53	2.17	0.059	
203	0.067		3.95	1.95	0.031	
204	0.055		4.56	1.75	0.043	
205	0.066		5.16	1.08	0.047	
Mean	0.0661		4.383	1.795	0.0507	
SD	0.0139		0.496	0.525	0.0190	
N	10		10	10	10	

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TABLE 14-2 Relative Organ Weights - Individual Data

Sex: Male	Day: 31 Relative to Start Date	Rat					
Group 6: 30 µg/ animal	BNT162c1	Relative Organ Weights					
		Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Epididymis (left) (g/kg b.w.)	Epididymis (right) (g/kg b.w.)	Testis (left) (g/kg b.w.)
161	0.120	0.115	0.091	4.99	1.71	1.81	4.70
162	0.101	0.091	0.089	6.43	1.86	1.98	5.67
163	0.082	0.089	0.114	5.28	1.61	1.71	4.95
164	0.092	0.088	0.111	5.60	2.06	2.09	5.40
165	0.111			5.41	1.65	1.78	5.13
Mean	0.1009	0.0995	0.09138	5.544	1.777	1.874	5.170
SD	0.0152	0.0138	5	0.546	0.185	0.156	0.381
N	5			5	5	5	5

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TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Male	Day: 31 Relative to Start Date	Rat						
		Relative Organ Weights						
		Heart (g/kg b.w.)	Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cerv.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)
Group 6: 30 µg/ animal	BNT162c1							
161	3.95	4.38	4.78	39.5	6.22	0.043	0.093	
162	3.42	4.57	4.57	34.8	4.97	0.037	0.070	
163	3.47	3.78	3.55	34.7	6.38	0.066	0.166	
164	2.95	4.06	4.29	35.7	5.23	0.037	0.100	
165	3.63	4.33	4.64	34.3	7.55	0.062	0.126	
Mean	3.483	4.223	4.365	35.79	6.070	0.0489	0.1111	
SD	0.365	0.309	0.490	2.13	1.026	0.0141	0.0366	
N	5	5	5	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Male	Day: 31 Relative to Start Date	Relative Organ Weights				Rat
Group 6: 30 µg/ animal		Pituitary (g/kg b.w.)	Prostate Gland (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)
161	0.037	3.100	2.27	0.96	0.048	
162	0.037	3.303	1.95	0.95	0.034	
163	0.041	2.440	2.65	1.20	0.048	
164	0.029	2.739	2.14	1.23	0.023	
165	0.031	2.331	2.19	1.21	0.046	
Mean	0.0349	2.7828	2.242	1.109	0.0399	
SD	0.0050	0.4167	0.258	0.143	0.0113	
N	5	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Female	Day: 31 Relative to Start Date	Relative Organ Weights						Rat
Group 6: 30 µg/ animal		Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Ovary (left) (g/kg b.w.)	Ovary (right) (g/kg b.w.)	Heart (g/kg b.w.)	
176	0.217	0.217	0.199	7.73	0.299	0.262	3.66	
177	0.233	0.187	0.169	8.14	0.242	0.305	3.69	
178	0.187	0.154	0.188	8.06	0.191	0.191	4.09	
179	0.154	0.199	0.189	8.22	0.321	0.248	3.68	
180	0.199			6.61	0.252	0.304	3.67	
Mean	0.1981	0.1926	0.1975	7.752	0.2609	0.2623	3.760	
SD	0.0302	0.0175	5	0.664	0.0508	0.0470	0.187	
N	5			5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Female	Day: 31 Relative to Start Date	Relative Organ Weights				Rat	
Group 6: 30 µg/ animal		Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cerv.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)
176	4.12	4.30	35.3	5.92	0.050	0.154	
177	3.90	3.98	34.3	5.04	0.055	0.233	
178	4.27	4.36	37.8	5.56	0.098	0.205	
179	4.15	4.45	35.5	5.78	0.056	0.120	
180	4.37	4.27	34.6	5.67	0.042	0.136	
Mean	4.163	4.273	35.52	5.596	0.0601	0.1696	
SD	0.178	0.176	1.38	0.336	0.0218	0.0477	
N	5	5	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Female	Day: 31 Relative to Start Date	Relative Organ Weights			Rat
Group 6: 30 µg/ animal		Pituitary (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)
176	0.081	2.76	2.26	0.041	
177	0.064	2.08	1.53	0.042	
178	0.080	2.27	1.82	0.053	
179	0.051	2.23	1.67	0.047	
180	0.045	2.41	1.68	0.035	
Mean	0.0644	2.349	1.792	0.0437	
SD	0.0163	0.258	0.283	0.0069	
N	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2 Relative Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Rat				
Group 1: Control	Relative Organ Weights					Testis (right) (g/kg b.w.)
	Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Epididymis (left) (g/kg b.w.)	Epididymis (right) (g/kg b.w.)	
11	0.092	0.105	5.65	1.70	1.62	5.65
12	0.111	0.116	5.39	1.86	1.75	5.00
13	0.108	0.106	4.96	2.06	1.82	4.81
14	0.078	0.084	5.57	2.04	1.87	5.32
15	0.101	0.084	5.22	1.58	1.48	6.35
Mean	0.0979	0.0988	5.356	1.847	1.709	5.426
SD	0.0132	0.0144	0.278	0.212	0.160	0.607
N	5	5	5	5	5	5

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TABLE 14-2 Relative Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Rat				
Group 2: 30 µg/ animal	BNT162a1	Relative Organ Weights				
		Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Epididymis (left) (g/kg b.w.)	Epididymis (right) (g/kg b.w.)
41	0.132	0.146	5.49	2.03	2.11	5.38
42	0.124	0.124	5.54	1.66	1.71	5.26
43	0.108	0.094	4.96	1.46	1.46	4.75
44	0.130	0.132	5.35	1.72	1.64	4.77
45	0.108	0.090	5.21	2.14	1.93	4.97
Mean	0.1204	0.1172	5.311	1.803	1.772	5.025
SD	0.0116	0.0247	0.232	0.278	0.253	0.284
N	5	5	5	5	5	4

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RNA Platforms encoding for Viral Proteins

TABLE 14-2 Relative Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Rat					
Group 3: 10 µg/ animal	BNT162a1	Relative Organ Weights					
		Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Epididymis (left) (g/kg b.w.)	Epididymis (right) (g/kg b.w.)	Testis (left) (g/kg b.w.)
71	0.102	0.100	0.090	5.23	2.00	1.97	4.48
72	0.112	0.090	0.125	5.52	2.15	1.96	5.07
73	0.117	0.125	0.092	5.42	1.88	1.96	5.26
74	0.097	0.092	0.117	4.98	1.85	1.90	4.88
75	0.111	0.117		5.13	2.01	2.19	5.58
Mean	0.1078	0.1051		5.257	1.977	1.997	5.024
SD	0.0080	0.0156		0.221	0.120	0.112	0.390
N	5	5		5	5	5	5

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TABLE 14-2 Relative Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Rat				
Group 4: 30 µg/ animal	BNT162b1	Relative Organ Weights				
		Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Epididymis (left) (g/kg b.w.)	Epididymis (right) (g/kg b.w.)
101	0.095	0.095	0.072	5.50	1.67	1.61
102	0.094	0.080	0.069	5.41	1.66	1.71
103	0.080	0.077	0.096	4.74	1.46	1.22
104	0.077	0.094	0.106	4.60	1.47	1.37
105	0.094			5.08	2.09	1.82
Mean	0.0878	0.0874	0.0161	5.065	1.671	1.547
SD	0.0084	0.0084	5	0.398	0.256	0.249
N	5		5	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 14-2 Relative Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Rat					
Group 5: 100 µg/ animal BNT162b1		Relative Organ Weights					
		Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Epididymis (left) (g/kg b.w.)	Epididymis (right) (g/kg b.w.)	Testis (left) (g/kg b.w.)
131	0.090	0.100	0.101	5.08	1.88	1.78	4.87
132	0.099	0.101	0.102	5.74	2.11	2.08	5.02
133	0.108	0.102	0.104	5.64	2.29	2.10	4.39
134	0.094	0.094	0.104	5.39	2.31	2.09	5.32
135	0.120			5.13	1.86	1.99	5.61
Mean	0.1022	0.1003	0.0936	5.396	2.090	2.009	5.042
SD	0.0117	0.0036	5	0.293	0.217	0.134	0.460
N	5			5	5	5	5

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TABLE 14-2 Relative Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Rat							
Group 7: 100 µg/ animal BNT162b2	Adren. Gland (left) (g/kg b.w.)	Relative Organ Weights				Testis (right) (g/kg b.w.)	Testis (left) (g/kg b.w.)	Testis (right) (g/kg b.w.)	Testis (left) (g/kg b.w.)
		Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Epididymis (left) (g/kg b.w.)	Epididymis (right) (g/kg b.w.)				
191	0.109	0.115	5.63	1.68	1.74	5.24	5.37	5.63	5.63
192	0.087	0.100	4.81	1.98	2.00	4.75	4.75	4.88	4.88
193	0.073	0.075	4.75	1.68	1.56	5.52	5.52	4.77	4.77
194	0.095	0.083	6.21	1.87	1.90	5.26	5.26	5.70	5.70
195	0.100	0.112	5.29	2.20	2.15	5.19	5.19		
Mean	0.0929	0.0972	5.337	1.882	1.869	5.229	5.229	5.235	5.235
SD	0.0136	0.0175	0.607	0.218	0.229	0.291	0.291	0.423	0.423
N	5	5	5	5	5	5	5	5	5

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TABLE 14-2 Relative Organ Weights - Individual Data

Sex: Male Day: 38 Relative to Start Date		Relative Organ Weights					Rat	
Group 1: Control		Heart (g/kg b.w.)	Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cerv.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)
11	3.30	4.45	4.84	31.4	5.96	0.058	0.058	
12	3.32	4.28	4.46	37.6	4.61	0.067	0.057	
13	3.39	4.25	4.49	38.3	4.91	0.054	0.052	
14	3.39	4.36	4.95	35.0	5.65	0.042	0.090	
15	3.05	4.55	4.50	33.2	5.27	0.030	0.071	
Mean	3.289	4.378	4.649	35.10	5.281	0.0500	0.0653	
SD	0.138	0.125	0.229	2.91	0.545	0.0145	0.0154	
N	5	5	5	5	5	5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Rat						
		Relative Organ Weights						
		Heart (g/kg b.w.)	Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cerv.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)
Group 2: 30 µg/ animal	BNT162a1							
41	3.58	4.22	4.51	34.4	6.14	0.051	0.096	
42	3.46	4.69	4.89	38.2	5.82	0.121	0.098	
43	3.14	3.76	3.88	35.5	5.76	0.026	0.046	
44	3.47	4.11	3.87	37.6	5.64	0.048	0.090	
45	3.44	4.44	4.36	38.6	4.84	0.026	0.061	
Mean	3.417	4.246	4.302	36.86	5.639	0.0544	0.0781	
SD	0.163	0.350	0.434	1.85	0.484	0.0389	0.0236	
N	5	5	5	5	5	5	5	

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TABLE 14-2 Relative Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Relative Organ Weights				Rat		
Group 3: 10 µg/ animal	BNT162a1	Heart (g/kg b.w.)	Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cerv.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)
71	3.31	4.11	4.02	38.2	5.38	0.039	0.134	
72	3.45	3.85	4.25	35.8	4.91	0.042	0.098	
73	3.46	3.98	4.20	35.7	4.69	0.055	0.120	
74	3.36	4.05	4.08	35.5	5.19	0.071	0.116	
75	3.48	4.81	4.07	36.4	6.66	0.068	0.079	
Mean	3.414	4.161	4.121	36.34	5.367	0.0550	0.1094	
SD	0.072	0.376	0.097	1.10	0.771	0.0145	0.0212	
N	5	5	5	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Rat						
		Relative Organ Weights						
		Heart (g/kg b.w.)	Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cerv.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)
Group 4: 30 µg/ animal	BNT162b1							
101	3.45	4.48	4.48	37.8	5.78	0.036	0.044	
102	3.32	4.07	4.26	38.0	5.73	0.035	0.070	
103	3.28	4.16	4.16	41.0	5.45	0.058	0.122	
104	3.38	3.85	3.69	35.6	5.71	0.031	0.041	
105	3.28	4.09	4.34	37.5	5.42	0.049	0.069	
Mean	3.341	4.130	4.186	37.98	5.618	0.0418	0.0693	
SD	0.073	0.226	0.298	1.92	0.169	0.0112	0.0322	
N	5	5	5	5	5	5	5	

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TABLE 14-2 Relative Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Rat				
Group 5: 100 µg/ animal BNT162b1	(g/kg b.w.)	Relative Organ Weights				Lymph node (mesent.) (g/kg b.w.)
		Heart (g/kg b.w.)	Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	
131	3.14	3.54	3.56	33.7	4.63	0.040
132	3.28	3.87	4.16	37.4	5.20	0.045
133	3.48	4.34	4.62	35.4	4.81	0.055
134	3.68	4.32	4.65	36.3	5.29	0.032
135	3.24	4.39	4.57	35.9	6.19	0.058
Mean	3.364	4.092	4.312	35.73	5.226	0.0464
SD	0.216	0.373	0.462	1.33	0.606	0.0107
N	5	5	5	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Rat						
		Relative Organ Weights						
		Heart (g/kg b.w.)	Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cerv.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)
Group 7: 100 µg/ animal BNT162b2								
191	3.81	4.26	4.54	34.5	7.40	0.056	0.115	
192	3.08	4.03	4.21	33.7	5.58	0.049	0.149	
193	3.48	3.95	4.14	37.7	5.26	0.037	0.090	
194	3.30	3.86	3.92	31.2	4.75	0.045	0.062	
195	3.76	4.27	4.42	35.3	6.54	0.049	0.066	
Mean	3.486	4.073	4.247	34.46	5.905	0.0469	0.0966	
SD	0.306	0.184	0.242	2.39	1.059	0.0071	0.0361	
N	5	5	5	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Relative Organ Weights				Rat
Group 1: Control		Pituitary (g/kg b.w.)	Prostate Gland (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)
11	0.031	3.937	2.12	1.39	0.058	
12	0.034	3.879	2.14	1.19	0.026	
13	0.034	3.000	2.19	1.37	0.025	
14	0.028	3.131	2.29	1.90	0.025	
15	0.034	2.776	1.82	0.94	0.062	
Mean	0.0323	3.3446	2.112	1.357	0.0389	
SD	0.0027	0.5299	0.176	0.356	0.0189	
N	5	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Relative Organ Weights				Rat
Group 2: 30 µg/ animal		Pituitary (g/kg b.w.)	Prostate Gland (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)
41	0.039	3.126	2.08	1.13	0.031	
42	0.042	4.182	2.50	1.74	0.048	
43	0.024	3.357	2.33	0.77	0.041	
44	0.034	2.424	2.36	1.56	0.026	
45	0.024	3.506	2.46	1.16	0.032	
Mean	0.0328	3.3192	2.346	1.273	0.0356	
SD	0.0086	0.6362	0.163	0.385	0.0086	
N	5	5	5	5	5	

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TABLE 14-2 Relative Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Relative Organ Weights				Rat
Group 3: 10 µg/ animal		Pituitary (g/kg b.w.)	Prostate Gland (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)
71	0.029	3.119	2.70	1.10	0.032	
72	0.032	1.729	2.42	1.06	0.027	
73	0.038	2.701	1.96	0.90	0.025	
74	0.031	3.090	2.20	1.35	0.036	
75	0.034	3.408	2.33	1.33	0.079	
Mean	0.0328	2.8093	2.322	1.148	0.0395	
SD	0.0034	0.6543	0.273	0.192	0.0225	
N	5	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Relative Organ Weights				Rat
Group 4: 30 µg/ animal		Pituitary (g/kg b.w.)	Prostate Gland (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)
101	0.036	3.500	2.22	1.14	0.044	
102	0.037	4.566	2.19	1.34	0.059	
103	0.033	1.668	2.24	1.17	0.038	
104	0.026	2.607	2.32	1.03	0.018	
105	0.037	3.793	1.97	1.33	0.030	
Mean	0.0339	3.2267	2.191	1.203	0.0377	
SD	0.0048	1.1184	0.132	0.131	0.0154	
N	5	5	5	5	5	

TABLE 14-2 Relative Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Relative Organ Weights				Rat
Group 5: 100 µg/ animal BNT162b1		Pituitary (g/kg b.w.)	Prostate Gland (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)
131	0.033	3.013	2.49	0.71	0.040	
132	0.040	2.972	2.21	0.93	0.048	
133	0.039	4.176	2.38	1.46	0.036	
134	0.037	3.777	2.46	1.37	0.027	
135	0.037	2.826	2.07	1.30	0.043	
Mean	0.0373	3.3528	2.324	1.156	0.0388	
SD	0.0025	0.5910	0.177	0.319	0.0078	
N	5	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Relative Organ Weights				Rat
Group 7: 100 µg/ animal BNT162b2		Pituitary (g/kg b.w.)	Prostate Gland (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)
191	0.036	2.822	2.35	1.20	0.034	
192	0.028	3.757	1.95	1.00	0.028	
193	0.034	3.083	1.92	1.36	0.032	
194	0.033	2.845	2.52	1.49	0.033	
195	0.036	1.625	2.68	1.12	0.031	
Mean	0.0334	2.8265	2.288	1.236	0.0314	
SD	0.0032	0.7708	0.339	0.191	0.0021	
N	5	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 14-2 Relative Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Relative Organ Weights						Rat
Group 1: Control		Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Ovary (left) (g/kg b.w.)	Ovary (right) (g/kg b.w.)	Heart (g/kg b.w.)	
26	0.272	0.272	0.221	7.37	0.218	0.276	4.16	
27	0.211	0.221	0.212	7.04	0.269	0.352	3.41	
28	0.229	0.212	0.210	6.70	0.174	0.188	3.59	
29	0.214	0.210	0.201	7.45	0.258	0.254	4.00	
30	0.201	0.201		8.07	0.224	0.256	3.86	
Mean	0.2252	0.2232		7.326	0.2286	0.2651	3.804	
SD	0.0279	0.0281		0.511	0.0372	0.0589	0.302	
N	5	5		5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Relative Organ Weights						Rat
Group 2: 30 µg/ animal		Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Ovary (left) (g/kg b.w.)	Ovary (right) (g/kg b.w.)	Heart (g/kg b.w.)	
56	0.193	0.173	0.130	7.40	0.310	0.286	3.90	
57	0.171	0.156	0.156	7.59	0.166	0.179	3.41	
58	0.167	0.225	0.225	6.89	0.192	0.189	3.95	
59	0.210	0.192	0.188	7.66	0.217	0.252	3.58	
60				7.21	0.228	0.385	3.69	
Mean	0.1865	0.1744	0.0356	7.351	0.2228	0.2578	3.707	
SD	0.0177	5	5	0.312	0.0542	0.0836	0.225	
N	5			5	5	5	5	

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Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2 Relative Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Relative Organ Weights					Rat
Group 3: 10 µg/ animal		Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Ovary (left) (g/kg b.w.)	Ovary (right) (g/kg b.w.)	Heart (g/kg b.w.)
86	0.185	0.172		7.89	0.185	0.172	3.86
87	0.206	0.190		7.27	0.327	0.316	3.62
88	0.151	0.158		6.76	0.225	0.215	3.49
89	0.150	0.146		7.53	0.255	0.251	4.13
90	0.178	0.183		7.87	0.161	0.257	3.70
Mean	0.1739	0.1699		7.465	0.2307	0.2421	3.758
SD	0.0236	0.0180		0.470	0.0651	0.0534	0.249
N	5	5		5	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Relative Organ Weights					Rat
Group 4: 30 µg/ animal		Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Ovary (left) (g/kg b.w.)	Ovary (right) (g/kg b.w.)	Heart (g/kg b.w.)
116	0.206	0.199		7.44	0.230	0.269	3.78
117	0.166	0.174		7.30	0.217	0.268	3.67
118	0.161	0.150		7.10	0.358	0.304	3.37
119	0.205	0.170		7.46	0.205	0.185	4.10
120	0.184	0.152		7.25	0.204	0.180	3.81
Mean	0.1844	0.1689		7.309	0.2429	0.2413	3.743
SD	0.0212	0.0196		0.148	0.0654	0.0552	0.264
N	5	5		5	5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Relative Organ Weights						Rat
Group 5: 100 µg/ animal BNT162b1		Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Ovary (left) (g/kg b.w.)	Ovary (right) (g/kg b.w.)	Heart (g/kg b.w.)	
146	0.188	0.193	0.199	8.04	0.281	0.285	3.77	
147	0.195	0.199	0.218	8.08	0.299	0.295	5.62	
148	0.226	0.218	0.194	8.31	0.251	0.255	4.07	
149	0.187	0.194	0.186	7.25	0.223	0.312	3.98	
150	0.206	0.186		7.44	0.264	0.248	3.99	
Mean	0.2004	0.1979		7.825	0.2633	0.2790	4.287	
SD	0.0162	0.0121		0.453	0.0290	0.0270	0.751	
N	5	5		5	5	5	5	

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TABLE 14-2 Relative Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Relative Organ Weights					Rat
Group 7: 100 µg/ animal BNT162b2		Adren. Gland (left) (g/kg b.w.)	Adren. Gland (right) (g/kg b.w.)	Brain (g/kg b.w.)	Ovary (left) (g/kg b.w.)	Ovary (right) (g/kg b.w.)	Heart (g/kg b.w.)
206	0.237	0.229	7.70	0.212	0.216	4.06	
207	0.198	0.202	7.52	0.186	0.238	4.08	
208	0.159	0.193	7.88	0.226	0.193	3.56	
209	0.249	0.253	7.92	0.178	0.191	4.02	
210	0.168	0.164	7.15	0.241	0.260	4.05	
Mean	0.2022	0.2081	7.633	0.2086	0.2195	3.956	
SD	0.0400	0.0340	0.315	0.0264	0.0298	0.222	
N	5	5	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 14-2 Relative Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Relative Organ Weights				Rat	
Group 1: Control		Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cerv.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)
26	4.28	4.61	42.0	6.30	0.062	0.107	
27	4.21	4.65	38.5	6.10	0.098	0.098	
28	3.96	4.20	36.2	6.05	0.051	0.062	
29	3.68	3.76	36.1	5.74	0.079	0.190	
30	4.09	4.17	38.2	5.71	0.071	0.209	
Mean	4.047	4.280	38.19	5.980	0.0722	0.1331	
SD	0.235	0.363	2.39	0.249	0.0178	0.0632	
N	5	5	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 14-2 Relative Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Relative Organ Weights				Rat	
Group 2: 30 µg/ animal BNT162a1		Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cerv.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)
56	3.90	3.90	3.90	35.4	6.92	0.113	0.169
57	4.55	4.55	4.55	39.0	5.16	0.065	0.183
58	3.95	3.88	3.88	41.7	6.78	0.065	0.141
59	3.85	3.96	3.96	36.2	5.87	0.038	0.088
60	4.05	4.53	4.53	38.1	6.05	0.072	0.156
Mean	4.060	4.164	38.07	6.155	0.0706	0.1474	
SD	0.282	0.342	2.48	0.719	0.0269	0.0367	
N	5	5	5	5	5	5	

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Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2 Relative Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Relative Organ Weights				Rat	
Group 3: 10 µg/ animal		Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cerv.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)
86	3.73	3.86	31.9	5.29	0.055	0.126	
87	4.38	4.53	35.0	5.52	0.065	0.202	
88	3.91	4.12	34.9	4.93	0.081	0.158	
89	4.29	4.70	34.8	6.36	0.089	0.105	
90	3.61	3.74	33.5	5.61	0.048	0.065	
Mean	3.985	4.190	34.02	5.541	0.0674	0.1313	
SD	0.339	0.415	1.34	0.528	0.0174	0.0519	
N	5	5	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Relative Organ Weights				Rat	
Group 4: 30 µg/ animal		Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cerv.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)
116	3.86	4.01	34.7	5.26	0.062	0.148	
117	3.95	4.26	33.1	4.78	0.039	0.118	
118	3.88	4.13	36.6	4.79	0.088	0.190	
119	4.33	4.40	35.2	6.26	0.097	0.201	
120	4.33	4.21	37.3	4.81	0.072	0.244	
Mean	4.067	4.204	35.36	5.178	0.0717	0.1804	
SD	0.240	0.147	1.62	0.637	0.0224	0.0488	
N	5	5	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2 Relative Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Relative Organ Weights				Rat	
Group 5: 100 µg/ animal BNT162b1		Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cerv.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)
146	3.73	3.94	35.6	5.78	0.235	0.134	
147	4.98	5.34	41.4	6.21	0.072	0.151	
148	3.99	4.32	38.7	5.80	0.070	0.140	
149	4.02	4.24	40.6	6.39	0.079	0.197	
150	4.73	4.92	40.3	6.86	0.074	0.120	
Mean	4.289	4.550	39.31	6.208	0.1057	0.1486	
SD	0.536	0.568	2.31	0.451	0.0721	0.0295	
N	5	5	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Relative Organ Weights				Rat	
Group 7: 100 µg/ animal BNT162b2		Kidney (left) (g/kg b.w.)	Kidney (right) (g/kg b.w.)	Liver (g/kg b.w.)	Lungs (g/kg b.w.)	Lymph node (cerv.) (g/kg b.w.)	Lymph node (mesent.) (g/kg b.w.)
206	4.10	4.40	36.4	5.80	0.085	0.216	
207	4.32	4.45	38.0	5.70	0.044	0.210	
208	3.56	4.27	34.8	5.53	0.042	0.059	
209	5.10	5.23	41.1	5.72	0.095	0.104	
210	4.20	4.28	39.7	5.88	0.042	0.103	
Mean	4.259	4.525	37.99	5.727	0.0617	0.1383	
SD	0.554	0.399	2.52	0.132	0.0262	0.0706	
N	5	5	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2 Relative Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Rat			
Group 1: Control		Relative Organ Weights		Relative Organ Weights	
		Pituitary (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)
26	0.066		3.17	2.55	0.062
27	0.062		2.25	2.11	0.047
28	0.065		2.94	1.78	0.048
29	0.079		2.46	1.82	0.071
30	0.059		2.72	1.46	0.071
Mean	0.0662		2.706	1.943	0.0598
SD	0.0078		0.367	0.411	0.0118
N	5		5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Relative Organ Weights			Rat
Group 2: 30 µg/ animal BNT162a1		Pituitary (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)
56	0.072		2.70	1.53	0.076
57	0.061		2.23	1.62	0.049
58	0.058		2.83	1.85	0.051
59	0.065		2.13	1.87	0.072
60	0.072		2.64	1.32	0.040
Mean	0.0657		2.507	1.638	0.0577
SD	0.0065		0.305	0.229	0.0159
N	5		5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2    Relative Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Relative Organ Weights			Rat
Group 3: 10 µg/ animal		Pituitary (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)
86	0.046	2.47	1.38	0.046	
87	0.065	2.25	2.51	0.061	
88	0.060	2.22	1.55	0.035	
89	0.057	2.55	1.66	0.032	
90	0.052	2.52	1.78	0.061	
Mean	0.0559	2.403	1.778	0.0471	
SD	0.0071	0.158	0.436	0.0136	
N	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2      Relative Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Relative Organ Weights			Rat
Group 4: 30 µg/ animal BNT162b1		Pituitary (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)
116	0.055		2.14	1.48	0.047
117	0.039		2.17	1.50	0.036
118	0.062		2.56	1.90	0.055
119	0.062		2.20	1.58	0.054
120	0.068		2.32	1.28	0.056
Mean	0.0572		2.280	1.550	0.0495
SD	0.0110		0.171	0.226	0.0086
N	5		5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2 Relative Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Relative Organ Weights			Rat
Group 5: 100 µg/ animal BNT162b1		Pituitary (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)
146	0.050	2.81		1.68	0.046
147	0.072	3.15		1.67	0.040
148	0.074	2.67		1.89	0.053
149	0.050	3.12		2.26	0.047
150	0.062	2.68		2.02	0.035
Mean	0.0616	2.885		1.903	0.0442
SD	0.0113	0.235		0.248	0.0071
N	5	5		5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 14-2 Relative Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Relative Organ Weights			Rat
Group 7: 100 µg/ animal BNT162b2		Pituitary (g/kg b.w.)	Spleen (g/kg b.w.)	Thymus (g/kg b.w.)	Thyroid/Par. (left) (g/kg b.w.)
206	0.055		2.79	1.86	0.051
207	0.081		2.75	1.58	0.061
208	0.071		2.35	1.09	0.034
209	0.062		3.03	1.95	0.033
210	0.061		2.83	1.72	0.038
Mean	0.0661		2.749	1.639	0.0433
SD	0.0101		0.249	0.339	0.0120
N	5		5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

Day: 10 Relative to Start Date		Absolute Organ Weights						Rat
		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Epididymis (left) (g)	Epididymis (right) (g)	Testis (left) (g)	
Sex: Male								
Group 6: 30 µg/ animal	Mean SD N	0.0399 0.0044 10	0.0389 0.0047 10	1.962 0.082 10	0.459 0.071 10	0.468 0.068 10	1.750 0.117 10	1.777 0.165 10
BNT162c1		-	-	-	-	-	-	-

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

Day: 10 Relative to Start Date		Absolute Organ Weights					Rat
		Heart (g)	Kidney (left) (g)	Kidney (right) (g)	Liver (g)	Lungs (g)	Lymph node (cerv.) (g)
Sex: Male							
Group 6: 30 µg/ animal BNT162c1	Mean SD N	1.090 0.117 10	1.351 0.104 10	1.343 0.115 10	11.03 0.78 10	1.702 0.154 10	0.0173 0.0030 10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

Day: 10 Relative to Start Date		Absolute Organ Weights				Rat
Sex: Male		Pituitary (g)	Prostate Gland (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)
Group 6: 30 µg/ animal BNT162c1	Mean SD N	0.0101 0.0013 10	0.7786 0.1757 10	1.024 0.150 10	0.465 0.110 10	0.0110 0.0032 10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

		Absolute Organ Weights						Rat
		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Epididymis (left) (g)	Epididymis (right) (g)	Testis (left) (g)	Testis (right) (g)
		[a]	[a]	[a1]	[a2]	[a]	[a]	[a]
Group 1: Control	Mean SD N	0.0381 0.0050 10	0.0353 0.0051 10	2.004 0.065 10	0.457 0.073 10	0.419 0.036 10	1.797 0.121 10	1.776 0.113 10
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	0.0415 0.0059 10 8.9	0.0408 0.0076 10 15.6	1.950 0.063 10 -2.7	0.449 0.041 10 -1.8	0.439 0.037 10 4.8	1.741 0.074 10 -3.1	1.756 0.091 10 -1.1
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	0.0406 0.0069 10 6.6	0.0413 0.0064 10 17.0	1.978 0.085 10 -1.3	0.577** 0.100 10 26.3	0.524** 0.099 10 25.1	1.870 0.163 10 4.1	1.864 0.172 10 5.0
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	0.0418 0.0047 10 9.7	0.0392 0.0071 10 11.0	1.961 0.061 10 -2.1	0.490 0.054 10 7.2	0.462 0.053 10 10.3	1.785 0.111 10 -0.7	1.766 0.118 10 -0.6

[a] - Anova &amp; Dunnett

[a1] - Anova &amp; Dunnett(Rank)

[a2] - Anova &amp; Dunnett(Log): \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

		Absolute Organ Weights						Rat
		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Epididymis (left) (g)	Epididymis (right) (g)	Testis (left) (g)	Testis (right) (g)
Sex: Male		[a]	[a]	[a]	[a]	[a]	[a]	[a]
Group 5: 100 µg/ animal	Mean SD N	0.0427 0.0084 10	0.0425 0.0078 10	1.977 0.100 10	0.533 0.067 10	0.539** 0.080 10	1.840 0.185 10	1.801 0.130 10
BNT162b1	%Diff	12.1	20.4	-1.3	16.6	28.6	2.4	1.4
Group 7: 100 µg/ animal	Mean SD N	0.0430 0.0072 10	0.0373 0.0114 10	1.944 0.034 10	0.554* 0.109 10	0.514* 0.097 10	1.843 0.136 10	1.818 0.143 10
BNT162b2	%Diff	12.9	5.7	-3.0	21.2	22.7	2.6	2.4

[a] - Anova &amp; Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

		Day: 17 Relative to Start Date						Rat	
Sex: Male		Absolute Organ Weights			Absolute Organ Weights				
		Heart (g)	Kidney (left) (g)	Kidney (right) (g)	Liver (g)	Lungs (g)	Lymph node (cerv.) (g)	Lymph node (mesent.) (g)	Lymph node (a2) (g)
Group 1: Control	Mean SD N	[a] 1.140 0.050 10	[a] 1.426 0.086 10	[a] 1.479 0.110 10	[a] 13.02 0.54 10	[a] 1.936 0.504 10	[a] 0.0209 0.0101 10	[a] 0.0330 0.0163 10	-
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	1.096 0.182 10 -3.9	-	1.309 0.140 10 -8.2	1.334 0.139 10 -9.8	10.58** 1.09 10 -18.7	1.853 0.270 10 -4.3	0.0198 0.0028 10 -5.3	0.0387 0.0165 10 17.3
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	1.164 0.107 10 2.1	1.430 0.090 10 0.3	1.461 0.120 10 -1.2	12.78 1.05 10 -1.8	2.019 0.232 10 4.3	0.0188 0.0036 10 -10.0	0.0399 0.0200 10 20.9	-
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	1.095 0.088 10 -3.9	1.404 0.077 10 -1.5	1.418 0.066 10 -4.1	11.72** 0.83 10 -10.0	1.787 0.170 10 -7.7	0.0230 0.0212 10 10.0	0.0334 0.0188 10 1.2	-

[a] - Anova &amp; Dunnett(Rank). \*\* = p ≤ 0.01

[a1] - Anova &amp; Dunnett

[a2] - Anova &amp; Dunnett(Log)

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

		Absolute Organ Weights						Rat	
		Day: 17 Relative to Start Date	Heart (g)	Kidney (left) (g)	Kidney (right) (g)	Liver (g)	Lungs (g)	Lymph node (cerv.) (g)	Lymph node (mesent.) (g)
Sex: Male			[a]	[a]	[a]	[a]	[a]	[a]	[a]
Group 5: 100 µg/ animal	Mean SD N	1.167 0.168 10	1.483 0.150 10	1.466 0.167 10	13.18 1.86 10	1.912 0.230 10	0.0187 0.0076 10	0.0440 0.0214 10	
BNT162b1	%Diff	2.4	4.0	-0.9	1.2	-1.2	-10.5	33.3	
Group 7: 100 µg/ animal	Mean SD N	1.135 0.122 10	1.390 0.093 10	1.431 0.085 10	12.16 1.09 10	1.877 0.232 10	0.0157 0.0044 10	0.0494 0.0259 10	
BNT162b2	%Diff	-0.4	-2.5	-3.2	-6.6	-3.0	-24.9	49.7	

[a] - Anova &amp; Dunnett

Three LNP-Formulated  
RNA Platforms encoding for Viral ProteinsTABLE 15-1  
Absolute Organ Weights - Summary

Day: 17 Relative to Start Date		Absolute Organ Weights						Rat
Sex: Male		Pituitary (g)	Prostate Gland (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)	[a]	
Group 1: Control		[a] 0.0128 0.0016 10	[a] 0.9274 0.1703 10	[a] 0.838 0.124 10	[a] 0.538 0.101 10	[a] 0.0131 0.0028 10		
Group 2: 30 µg/ animal BNT162a1		Mean SD N %Diff	0.0123 0.0023 10 -3.9	0.7886 0.2164 10 -15.0	0.976 0.131 10 16.5	0.463 0.099 10 -13.9	0.0138 0.0019 10 5.3	
Group 3: 10 µg/ animal BNT162a1		Mean SD N %Diff	0.0130 0.0020 10 1.6	0.8776 0.1862 10 -5.4	1.079** 0.149 10 28.8	0.527 0.111 10 -2.0	0.0124 0.0034 10 -5.3	
Group 4: 30 µg/ animal BNT162b1		Mean SD N %Diff	0.0126 0.0023 10 -1.6	0.8465 0.1704 10 -8.7	0.951 0.109 10 13.5	0.468 0.103 10 -13.0	0.0134 0.0022 10 2.3	

[a] - Anova & Dunnett: \*\* = p ≤ 0.01  
 [a] - Anova & Dunnett(Rank)

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

Day: 17 Relative to Start Date		Absolute Organ Weights						Rat
Sex: Male		Pituitary (g)	Prostate Gland (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)	[a]	
Group 5: 100 µg/ animal BNT162b1	Mean	0.0119	0.7397	1.030**	0.435	0.0105		
	SD	0.0027	0.2321	0.145	0.096	0.0025		
	N	10	9	10	10	10		
	%Diff	-7.0	-14.9	22.9	-19.1	-19.8		
Group 7: 100 µg/ animal BNT162b2	Mean	0.0113	0.8130	1.049**	0.388**	0.0109		
	SD	0.0013	0.2047	0.116	0.201	0.0028		
	N	10	10	10	10	10		
	%Diff	-11.7	-12.3	25.2	-27.9	-16.8		

[a] - Anova &amp; Dunnett: \*\* = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

Day: 31 Relative to Start Date		Absolute Organ Weights						Rat
		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Epididymis (left) (g)	Epididymis (right) (g)	Testis (left) (g)	Testis (right) (g)
Sex: Male								
Group 6: 30 µg/ animal	Mean SD N	0.0370 0.0064 5	0.0364 0.0051 5	2.022 0.104 5	0.648 0.042 5	0.684 0.030 5	1.888 0.087 5	2.034 0.312 5
BNT162c1								

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

Day: 31 Relative to Start Date		Absolute Organ Weights						Rat
		Sex: Male	Heart (g)	Kidney (left) (g)	Kidney (right) (g)	Liver (g)	Lungs (g)	
Group 6: 30 µg/ animal	Mean SD N	1.280 0.195 5	1.544 0.111 5	1.596 0.187 5	13.12 1.27 5	2.244 0.522 5	0.0182 0.0064 5	0.0414 0.0161 5
BNT162c1	-	-	-	-	-	-	-	-

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

Day: 31 Relative to Start Date		Absolute Organ Weights					Rat
		Pituitary (g)	Prostate Gland (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)	
Sex: Male							
Group 6: 30 µg/ animal	Mean SD N	0.0128 0.0023 5	1.0128 0.1061 5	0.826 0.148 5	0.408 0.071 5	0.0148 0.0050 5	-
BNT162c1							

# Three LNP-Formulated RNA Platforms encoding for Viral Proteins

TABLE 15-1 Absolute Organ Weights - Summary Rat

		Day: 38 Relative to Start Date					
Sex: Male		Absolute Organ Weights			Testis (right) (g)		
		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Epididymis (left) (g)	Epididymis (right) (g)	Testis (left) (g)
Group 1: Control		[a]	[a]	[a]	[a]	[a]	[a]
	Mean SD N	0.0382 0.0067 5	0.0384 0.0063 5	2.076 0.070 5	0.716 0.080 5	0.662 0.055 5	2.108 0.282 5
Group 2: 30 µg/ animal BNT162a1		Mean SD N %Diff	0.0452* 0.0030 5 18.3	0.0438 0.0075 5 14.1	1.996 0.049 5 -3.9	0.676 0.090 5 5.6	0.664 0.070 5 0.3
Group 3: 10 µg/ animal BNT162a1		Mean SD N %Diff	0.0434 0.0032 5 13.6	0.0424 0.0069 5 10.4	2.118 0.103 5 2.0	0.798 0.073 5 11.5	0.808* 0.098 5 22.1
Group 4: 30 µg/ animal BNT162a1		Mean SD N %Diff	0.0346 0.0030 5 -9.4	0.0344 0.0061 5 -10.4	1.996 0.134 5 -3.9	0.660 0.111 5 -7.8	0.608 0.085 5 -8.2

[a] - Anova & Dunnett: \* =  $p \leq 0.05$

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

		Absolute Organ Weights						Rat			
		Sex: Male		Adren. Gland		Brain		Epididymis	Epididymis	Testis	Testis
				(left) (g)	(right) (g)	(g)	(g)	(left) (g)	(right) (g)	(left) (g)	(right) (g)
Group 5: 100 µg/ animal	BNT162b1	Mean	0.0394	0.0388	2.086	0.808	0.776*	1.954	1.966		
		SD	0.0032	0.0019	0.101	0.083	0.038	0.227	0.222		
		N	5	5	5	5	5	5	5		
		%Diff	3.1	1.0	0.5	12.8	17.2	-7.3	-15.7		
Group 7: 100 µg/ animal	BNT162b2	Mean	0.0348	0.0366	1.998	0.710	0.704	1.966	1.964		
		SD	0.0041	0.0068	0.090	0.106	0.099	0.106	0.056		
		N	5	5	5	5	5	5	5		
		%Diff	-8.9	-4.7	-3.8	-0.8	6.3	-6.7	-15.8		

[a] - Anova &amp; Dunnett. \* = p ≤ 0.05

TABLE 15-1      Absolute Organ Weights - Summary

		Day: 38 Relative to Start Date						Rat
		Absolute Organ Weights						
Sex: Male		Heart (g)	Kidney (left) (g)	Kidney (right) (g)	Liver (g)	Lungs (g)	Lymph node (cerv.) (g)	Lymph node (mesent.) (g)
Group 1: Control		[a] 1.276 0.065 5	[a] 1.700 0.106 5	[a] 1.802 0.050 5	[a] 13.64 1.48 5	[a] 2.046 0.182 5	[a] 0.0194 0.0057 5	[a] 0.0252 0.0050 5
Group 2: 30 µg/ animal BNT162a1		Mean SD N %Diff	1.284 0.034 5 0.6	1.594 0.078 5 -6.2	1.614 0.101 5 -10.4	13.88 1.04 5 1.8	2.122 0.205 5 3.7	0.0200 0.0134 5 3.1
Group 3: 10 µg/ animal BNT162a1		Mean SD N %Diff	1.378 0.107 5 8.0	1.688 0.276 5 -0.7	1.662 0.102 5 -7.8	14.68 1.33 5 7.6	2.184 0.478 5 6.7	0.0224 0.0071 5 15.5
Group 4: 30 µg/ animal BNT162b1		Mean SD N %Diff	1.320 0.098 5 3.4	1.632 0.154 5 -4.0	1.654 0.172 5 -8.2	15.06 2.02 5 10.4	2.218 0.145 5 8.4	0.0168 0.0061 5 -13.4 11.9

[a] - Anova & Dunnett: \* =  $p \leq 0.05$   
 [a] - Anova & Dunnett(Log)

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RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

		Absolute Organ Weights						Rat	
		Day: 38 Relative to Start Date	Heart (g)	Kidney (left) (g)	Kidney (right) (g)	Liver (g)	Lungs (g)	Lymph node (cerv.) (g)	Lymph node (mesent.) (g)
Sex: Male			[a]	[a]	[a]	[a]	[a]	[a]	[a]
Group 5: 100 µg/ animal		Mean	1.302	1.580	1.664	13.82	2.020	0.0178	0.0468*
BNT162b1		SD	0.107	0.118	0.144	0.69	0.222	0.0034	0.0098
		N	5	5	5	5	5	5	5
		%Diff	2.0	-7.1	-7.7	1.3	-1.3	-8.2	85.7
Group 7: 100 µg/ animal		Mean	1.314	1.536	1.602	13.04	2.226	0.0176	0.0366
BNT162b2		SD	0.154	0.143	0.164	1.85	0.413	0.0024	0.0144
		N	5	5	5	5	5	5	5
		%Diff	3.0	-9.6	-11.1	-4.4	8.8	-9.3	45.2

[a] - Anova & Dunnett. \* =  $p \leq 0.05$

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RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

Day: 38 Relative to Start Date		Absolute Organ Weights						Rat
Sex: Male		Pituitary (g)	Prostate Gland (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)	Thyroid/Par. (right) (g)	
Group 1: Control	Mean SD N	0.0126 0.0017 5	1.2958 0.1952 5	[a] 0.818 0.054 5	[a] 0.522 0.112 5	[a] 0.0152 0.0077 5		
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	0.0122 0.0026 5 -3.2	1.2478 0.2328 5 -3.7	0.884 0.087 5 8.1	0.474 0.128 5 -9.2	0.0134 0.0034 5 -11.8		
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	0.0132 0.0013 5 4.8	1.1472 0.3332 5 -11.5	0.940 0.147 5 14.9	0.468 0.111 5 -10.3	0.0164 0.0107 5 7.9		
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	0.0134 0.0021 5 6.3	1.2532 0.3862 5 -3.3	0.866 0.090 5 5.9	0.476 0.067 5 -8.8	0.0148 0.0056 5 -2.6		

[a] - Anova & Dunnett  
[a1] - Anova & Dunnett(Rank)

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

Day: 38 Relative to Start Date		Absolute Organ Weights					Rat
Sex: Male		Pituitary (g)	Prostate Gland (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)	
Group 5: 100 µg/ animal	Mean SD N	0.0144 0.0005 5	1.2952 0.2148 5	0.902 0.113 5	0.444 0.112 5	0.0150 0.0029 5	
BNT162b1	%Diff	14.3	0.0	10.3	-14.9	-1.3	
Group 7: 100 µg/ animal	Mean SD N	0.0126 0.0015 5	1.0658 0.3150 5	0.858 0.113 5	0.464 0.067 5	0.0118 0.0008 5	
BNT162b2	%Diff	0.0	-17.7	4.9	-11.1	-22.4	

[a] - Anova &amp; Dunnett

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RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

Day: 10 Relative to Start Date		Absolute Organ Weights						Rat
		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Ovary (left) (g)	Ovary (right) (g)	Heart (g)	
Group 6: 30 µg/ animal BNT162c1	Mean SD N	0.0440 0.0048 10	0.0411 0.0034 10	1.777 0.074 10	0.0438 0.0116 10	0.0459 0.0099 10	0.781 0.097 10	-

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

Day: 10 Relative to Start Date		Absolute Organ Weights					Rat
		Kidney (left) (g)	Kidney (right) (g)	Liver (g)	Lungs (g)	Lymph node (cerv.) (g)	
Group 6: 30 µg/ animal	BNT162c1	0.884 0.051 10	0.923 0.064 10	8.08 0.64 10	1.452 0.156 10	0.0142 0.0054 10	0.0223 0.0098 10
		Mean SD N				-	-

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

Day: 10 Relative to Start Date	Absolute Organ Weights					Rat
	Sex: Female	Pituitary (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)	
Group 6: 30 µg/ animal BNT162c1	Mean SD N	0.0115 0.0019 10	0.762 0.129 10	0.355 0.085 10	0.0093 0.0018 10	-

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RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

		Day: 17 Relative to Start Date						Rat
Sex: Female		Adren. Gland			Absolute Organ Weights			
		(left) (g)	Adren. Gland (right) (g)	Brain (g)	Ovary (left) (g)	Ovary (right) (g)	Heart (g)	
Group 1: Control		[a] 0.0453 0.0090 10	[a] 0.0437 0.0079 10	[a] 1.859 0.059 10	[a] 0.0539 0.0156 10	[a] 0.0581 0.0091 10	[a] 0.914 0.041 10	
Group 2: 30 µg/ animal BNT162a1		Mean SD N %Diff	0.0465 0.0077 10 2.6	0.0463 0.0045 10 5.9	1.839 0.091 10 -1.1	0.0556 0.0132 10 3.2	0.0538 0.0189 10 -7.4	0.863 0.059 10 -5.6
Group 3: 10 µg/ animal BNT162a1		Mean SD N %Diff	0.0454 0.0083 10 0.2	0.0456 0.0073 10 4.3	1.846 0.078 10 -0.7	0.0578 0.0108 10 7.2	0.0606 0.0111 10 4.3	0.862 0.109 10 -5.7
Group 4: 30 µg/ animal BNT162b1		Mean SD N %Diff	0.0455 0.0050 10 0.4	0.0454 0.0050 10 3.9	1.876 0.077 10 0.9	0.0559 0.0067 10 3.7	0.0534 0.0044 10 -8.1	0.952 0.105 10 4.2

[a] - Anova & Dunnett  
[a1] - Anova & Dunnett(Rank)

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

		Day: 17 Relative to Start Date						Rat
		Absolute Organ Weights						
Sex: Female		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Ovary (left) (g)	Ovary (right) (g)	Heart (g)	
Group 5: 100 µg/ animal BNT162b1	Mean	0.0516	0.0506	[a] 1.866	[a] 0.0545	[a] 0.0589	[a] 0.879	
	SD	0.0059	0.0074	0.087	0.0075	0.0116	0.073	
	N	10	10	10	10	10	10	
	%Diff	13.9	15.8	0.4	1.1	1.4	-3.8	
Group 7: 100 µg/ animal BNT162b2	Mean	0.0494	0.0490	1.868	0.0492	0.0564	0.866	
	SD	0.0070	0.0066	0.072	0.0106	0.0114	0.065	
	N	10	10	10	10	10	10	
	%Diff	9.1	12.1	0.5	-8.7	-2.9	-5.3	

[a] - Anova & Dunnett

TABLE 15-1      Absolute Organ Weights - Summary

		Day: 17 Relative to Start Date						Rat
Sex: Female		Absolute Organ Weights						
		Kidney (left) (g)	Kidney (right) (g)	Liver (g)	Lungs (g)	Lymph node (cerv.) (g)	Lymph node (mesent.) (g)	
Group 1: Control		[a] 0.938 0.077 10	[a] 0.989 0.076 10	[a] 8.35 0.61 10	[a] 1.333 0.096 10	[a] 0.0161 0.0059 10	[a2] 0.0339 0.0175 10	
Group 2: 30 µg/ animal BNT162a1		Mean SD N %Diff	0.991 0.046 10 5.7	1.019 0.038 10 3.0	9.12 0.34 10 9.2	1.489 0.174 10 11.7	0.0182 0.0061 10 13.0	0.0280 0.0128 10 -17.4
Group 3: 10 µg/ animal BNT162a1		Mean SD N %Diff	0.983 0.099 10 4.8	0.988 0.089 10 -0.1	8.82 1.01 10 5.6	1.494 0.154 10 12.1	0.0190 0.0050 10 18.0	0.0390 0.0098 10 15.0
Group 4: 30 µg/ animal BNT162b1		Mean SD N %Diff	0.998 0.077 10 6.4	1.027 0.078 10 3.8	9.67** 1.25 10 15.8	1.565 0.168 10 17.4	0.0180 0.0041 10 11.8	0.0325 0.0223 10 -4.1

[a] - Anova & Dunnett  
 [a1] - Anova & Dunnett(Rank): \*\* = p ≤ 0.01  
 [a2] - Anova & Dunnett(Log)

TABLE 15-1      Absolute Organ Weights - Summary

		Day: 17 Relative to Start Date						Rat		
		Absolute Organ Weights								
Sex: Female		Kidney (left) (g)		Kidney (right) (g)		Liver (g)		Lungs (g)	Lymph node (cerv.) (g)	Lymph node (mesent.) (g)
Group 5: 100 µg/ animal		[a]	[a]	[a]	[a]	[a]	[a]	[a]	[a]	
BNT162b1	Mean SD N %Diff	1.044 0.101 10 11.3	0.095 10 9.1	1.079 1.25 10 20.6	10.07** 1.25 10 20.6	1.494 0.207 10 12.1	0.0173 0.0055 10 7.5	0.0429 0.0165 10 26.5		
Group 7: 100 µg/ animal	Mean SD N %Diff	1.009 0.075 10 7.6	0.088 10 6.9	1.057 0.088 10 19.2	9.95** 0.69 10 14.3	1.524 0.170 10 14.3	0.0167 0.0076 10 3.7	0.0371 0.0244 10 9.4		

[a] - Anova &amp; Dunnett: \*\* = p ≤ 0.01

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RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

		Day: 17 Relative to Start Date				Rat
Sex: Female		Absolute Organ Weights		Absolute Organ Weights		
		Pituitary (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)	
Group 1: Control		[a] 0.0150 SD 0.0022 N 10	[a] 0.595 0.135 10	[a] 0.456 0.089 10	[a] 0.0129 0.0028 10	
Group 2: 30 µg/ animal BNT162a1		Mean SD N %Diff -14.0	0.0129 0.0026 10 58.2	0.941 ** 0.146 10 -4.6	0.435 0.099 10 -6.2	0.0121 0.0039 10
Group 3: 10 µg/ animal BNT162a1		Mean SD N %Diff -0.7	0.0149 0.0021 10 0.051	0.734 0.051 10 10	0.487 0.105 10 -12.4	0.0113 0.0027 10
Group 4: 30 µg/ animal BNT162b1		Mean SD N %Diff -6.7	0.0140 0.0029 10 0.135	0.777 * 0.135 10 30.6	0.457 0.139 10 0.2	0.0094 0.0013 10 -27.1

[a] - Anova & Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01  
 [a] - Anova & Dunnett(Log)

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

Day: 17 Relative to Start Date		Absolute Organ Weights					Rat
Sex: Female		Pituitary (g)		Spleen (g)		Thymus (g)	Thyroid/Par. (left) (g)
Group 5: 100 µg/ animal BNT162b1	Mean	0.0143	[a]	0.921**	[a]	0.387	0.0094
	SD	0.0022		0.151		0.081	0.0035
	N	10		9		10	10
	%Diff	-4.7		54.8		-15.1	-27.1
Group 7: 100 µg/ animal BNT162b2	Mean	0.0143		0.957**		0.390	0.0109
	SD	0.0023		0.130		0.108	0.0036
	N	10		10		10	10
	%Diff	-4.7		60.8		-14.5	-15.5

[a] - Anova &amp; Dunnett: \*\* = p ≤ 0.01

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RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

Day: 31 Relative to Start Date		Absolute Organ Weights						Rat Heart (g)
		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Ovary (left) (g)	Ovary (right) (g)		
Sex: Female								
Group 6: 30 µg/ animal BNT162c1	Mean SD N	0.0476 0.0088 5	0.0462 0.0058 5	1.850 0.090 5	0.0626 0.0129 5	0.0636 0.0166 5	0.902 0.091 5	-

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

		Absolute Organ Weights					Rat
		Kidney (left) (g)	Kidney (right) (g)	Liver (g)	Lungs (g)	Lymph node (cerv.) (g)	Lymph node (mesent.) (g)
Group 6: 30 µg/ animal	Mean SD N	1.002 0.141 5	1.026 0.115 5	8.52 0.81 5	1.344 0.166 5	0.0142 0.0044 5	0.0404 0.0105 5
BNT162c1		-	-	-	-	-	-

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

Day: 31 Relative to Start Date	Absolute Organ Weights				Rat
	Sex: Female	Pituitary (g)	Spleen (g)	Thymus (g)	
Group 6: 30 µg/ animal BNT162c1	Mean SD N	0.0152 0.0028 5	0.564 0.084 5	0.428 0.060 5	0.0104 0.0011 5

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RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

		Day: 38 Relative to Start Date						Rat
Sex: Female		Absolute Organ Weights						
		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Ovary (left) (g)	Ovary (right) (g)	Ovary (right) (g)	Heart (g)
Group 1: Control		[a] 0.0592 0.0071 5	[a] 0.0586 0.0063 5	[a] 1.924 0.097 5	[a] 0.0600 0.0095 5	[a] 0.0696 0.0160 5	[a] 0.998 0.041 5	
Group 2: 30 µg/ animal BNT162a1		Mean SD N %Diff	0.0478* 0.0047 5 -19.3	0.0448** 0.0097 5 -23.5	1.884 0.080 5 -2.1	0.0570 0.0130 5 -5.0	0.0658 0.0200 5 -5.5	0.952 0.091 5 -4.6
Group 3: 10 µg/ animal BNT162a1		Mean SD N %Diff	0.0438** 0.0063 5 -26.0	0.0428** 0.0052 5 -27.0	1.876 0.044 5 -2.5	0.0588 0.0192 5 -2.0	0.0612 0.0149 5 -12.1	0.946 0.066 5 -5.2
Group 4: 30 µg/ animal BNT162b1		Mean SD N %Diff	0.0476* 0.0051 5 -19.6	0.0436** 0.0048 5 -25.6	1.888 0.056 5 -1.9	0.0632 0.0197 5 5.3	0.0626 0.0159 5 -10.1	0.966 0.056 5 -3.2

[a] - Anova &amp; Dunnett: \* = p ≤ 0.05; \*\* = p ≤ 0.01

[a1] - Anova &amp; Dunnett(Log)

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

		Day: 38 Relative to Start Date						Rat
Sex: Female		Adren. Gland			Absolute Organ Weights			
		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Ovary (left) (g)	Ovary (right) (g)	Heart (g)	
Group 5: 100 µg/ animal		[a] 0.0508 SD 0.0039 N 5	[a] 0.0502 0.0033 5	[a] 1.982 0.057 5	[a] 0.0666 0.0056 5	[a] 0.0710 0.0100 5	[a] 1.088 0.195 5	
BNT162b1	%Diff	-14.2	-14.3	3.0	11.0	2.0	9.0	
Group 7: 100 µg/ animal		Mean 0.0494 SD 0.0089 N 5	0.0508 0.0070 5	1.868 0.033 5	0.0512 0.0078 5	0.0540 0.0095 5	0.970 0.078 5	
BNT162b2	%Diff	-16.6	-13.3	-2.9	-14.7	-22.4	-2.8	

[a] - Anova &amp; Dunnett

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

		Day: 38 Relative to Start Date						Rat		
		Absolute Organ Weights								
Sex: Female		Kidney (left) (g)			Kidney (right) (g)		Liver (g)	Lungs (g)	Lymph node (cerv.) (g)	Lymph node (mesent.) (g)
		[a]			[a]		[a]	[a]	[a]	[a]
Group 1: Control	Mean SD N	1.066 0.097 5		1.128 0.132 5	1.04 0.65 5	10.04 0.64 5	1.576 0.143 5	0.0190 0.0049 5	0.0344 0.0152 5	
Group 2: 30 µg/ animal BNT162a1	Mean SD N %Diff	1.040 0.062 5 -2.4		1.066 0.065 5 -5.5	9.78 1.01 5 -2.6	1.582 0.227 5 0.4	0.0180 0.0065 5 -5.3	0.0376 0.0085 5 9.3		
Group 3: 10 µg/ animal BNT162a1	Mean SD N %Diff	1.008 0.140 5 -5.4		1.060 0.157 5 -6.0	8.60 0.98 5 -14.3	1.394 0.125 5 -11.5	0.0172 0.0053 5 -9.5	0.0338 0.0152 5 -1.7		
Group 4: 30 µg/ animal BNT162b1	Mean SD N %Diff	1.050 0.055 5 -1.5		1.086 0.048 5 -3.7	9.14 0.59 5 -9.0	1.338 0.170 5 -15.1	0.0186 0.0061 5 -2.1	0.0466 0.0124 5 35.5		

[a] - Anova & Dunnett  
 [a1] - Anova & Dunnett(Log)

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

		Day: 38 Relative to Start Date						Rat		
		Absolute Organ Weights								
Sex: Female		Kidney (left) (g)		Kidney (right) (g)		Liver (g)		Lungs (g)	Lymph node (cerv.) (g)	Lymph node (mesent.) (g)
Group 5: 100 µg/ animal		[a]	[a]	[a]	[a]	[a]	[a]	[a]	[a]	
BNT162b1	Mean SD N %Diff	1.090 0.156 5 2.3	1.156 0.162 5 2.5	1.000 1.07 5 -0.4	1.580 0.191 5 0.3	0.0264 0.0167 5 38.9	0.0380 0.0099 5 10.5			
Group 7: 100 µg/ animal	Mean SD N %Diff	1.044 0.143 5 -2.1	1.108 0.094 5 -1.8	9.32 0.88 5 -7.2	1.404 0.083 5 -10.9	0.0150 0.0060 5 -21.1	0.0338 0.0169 5 -1.7			

[a] - Anova &amp; Dunnett

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

Day: 38 Relative to Start Date		Absolute Organ Weights					Rat
Sex: Female		Pituitary (g)		Spleen (g)		Thymus (g)	
Group 1: Control		[a] 0.0174 0.0021 5		[a] 0.712 0.103 5		[a] 0.510 0.099 5	[a] 0.0156 0.0023 5
Group 2: 30 µg/ animal BNT162a1		Mean SD N %Diff	0.0168 0.0013 5 -3.4		0.644 0.094 5 -9.6		0.422 0.076 5 -17.3
Group 3: 10 µg/ animal BNT162a1		Mean SD N %Diff	0.0142 0.0028 5 -18.4		0.604 0.024 5 -15.2		0.450 0.124 5 -11.8
Group 4: 30 µg/ animal BNT162b1		Mean SD N %Diff	0.0148 0.0029 5 -14.9		0.590 0.063 5 -17.1		0.402 0.074 5 -21.2

[a] - Anova &amp; Dunnett

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

Sex: Female		Absolute Organ Weights					Rat
		Pituitary (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)	Thyroid/Par. (right) (g)	
Group 5: 100 µg/ animal		Mean SD N	0.0156 0.0026 5	[a] 0.734 0.093 5	[a] 0.486 0.093 5	[a] 0.0112 0.0018 5	
BNT162b1	%Diff	-10.3	3.1		-4.7	-28.2	
Group 7: 100 µg/ animal		Mean SD N	0.0162 0.0026 5	0.674 0.072 5	0.402 0.085 5	0.0106 0.0030 5	
BNT162b2	%Diff	-6.9	-5.3		-21.2	-32.1	

[a] - Anova & Dunnett

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Measurement</u>	<u>Marker</u>	<u>Comments and Markers</u>
17	17	3	Male	Epididymis - Left	**	Anova & Dunnett(Log): ** = $p \leq 0.01$
17	17	3	Male	Epididymis - Right	**	Anova & Dunnett(Log): ** = $p \leq 0.01$
17	17	5	Male	Epididymis - Right	**	Anova & Dunnett: *** = $p \leq 0.01$
17	17	7	Male	Epididymis - Left	*	Anova & Dunnett: * = $p \leq 0.05$
17	17	7	Male	Epididymis - Right	*	Anova & Dunnett: * = $p \leq 0.05$

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Measurement</u>	<u>Marker</u>	<u>Comment</u>
17	17	2	Male	Liver	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
17	17	4	Male	Liver	**	Anova & Dunnett(Rank): ** = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Measurement</u>	<u>Comments and Markers</u>	
					<u>Marker</u>	<u>Comment</u>
17	17	3	Male	Spleen Weight	**	Anova & Dunnett: ** = p ≤ 0.01
17	17	5	Male	Spleen Weight	**	Anova & Dunnett: ** = p ≤ 0.01
17	17	7	Male	Spleen Weight	**	Anova & Dunnett: ** = p ≤ 0.01
		7	Male	Thymus Weight	**	Anova & Dunnett: ** = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Measurement</u>	<u>Marker</u>	<u>Comments and Markers</u>
38		2	Male	Adrenal Wt left	*	Anova & Dunnett: * = $p \leq 0.05$
38		3	Male	Epididymis - Right	*	Anova & Dunnett(Rank): * = $p \leq 0.05$
38		5	Male	Epididymis - Right	*	Anova & Dunnett: * = $p \leq 0.05$

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Measurement</u>	<u>Marker</u>	<u>Comments and Markers</u>
38	38	3	Male	Lymph node (mesent.)	*	Anova & Dunnett: * = $p \leq 0.05$
		5	Male	Lymph node (mesent.)	*	Anova & Dunnett: * = $p \leq 0.05$

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Measurement</u>	<u>Marker</u>	<u>Comment</u>
17		4	Female	Liver	**	Anova & Dunnett(Rank): ** = p ≤ 0.01
17		5	Female	Liver	**	Anova & Dunnett: ** = p ≤ 0.01
17		7	Female	Liver	**	Anova & Dunnett: ** = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Measurement</u>	<u>Comments and Markers</u>	
					<u>Marker</u>	<u>Comment</u>
17	17	2	Female	Spleen Weight	**	Anova & Dunnett: ** = p ≤ 0.01
17	17	4	Female	Spleen Weight	*	Anova & Dunnett: * = p ≤ 0.05
17	17	5	Female	Spleen Weight	**	Anova & Dunnett: ** = p ≤ 0.01
17	17	7	Female	Spleen Weight	**	Anova & Dunnett: ** = p ≤ 0.01

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-1      Absolute Organ Weights - Summary

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Measurement</u>	<u>Marker</u>	<u>Comment</u>
38		2	Female	Adrenal Wt left	*	Anova & Dunnett: * = $p \leq 0.05$
38		2	Female	Adrenal Wt right	**	Anova & Dunnett: ** = $p \leq 0.01$
38		3	Female	Adrenal Wt left	**	Anova & Dunnett: ** = $p \leq 0.01$
38		3	Female	Adrenal Wt right	**	Anova & Dunnett: ** = $p \leq 0.01$
38		4	Female	Adrenal Wt left	*	Anova & Dunnett: * = $p \leq 0.05$
38		4	Female	Adrenal Wt right	**	Anova & Dunnett: ** = $p \leq 0.01$

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Male	Day: 10 Relative to Start Date	Rat					
Group 6: 30 µg/ animal		Absolute Organ Weights			Absolute Organ Weights		
		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Epididymis (left) (g)	Epididymis (right) (g)	Testis (left) (g)
151	0.042	0.038		1.91	0.51	0.54	1.84
152	0.040	0.043		1.94	0.56	0.51	1.85
153	0.040	0.042		1.88	0.49	0.57	1.73
154	0.040	0.038		2.06	0.47	0.45	1.96
155	0.039	0.044		2.05	0.42	0.40	1.75
156	0.044	0.041		2.00	0.53	0.52	1.72
157	0.045	0.044		2.04	0.43	0.48	1.76
158	0.042	0.036		1.89	0.34	0.35	1.53
159	0.038	0.032		2.02	0.48	0.44	1.71
160	0.029	0.031		1.83	0.36	0.42	1.65
Mean	0.0399	0.0389		1.962	0.459	0.468	1.750
SD	0.0044	0.0047		0.082	0.071	0.068	0.117
N	10	10		10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Male	Day: 10 Relative to Start Date	Rat					
Group 6: 30 µg/ animal		Absolute Organ Weights			Lungs (g)	Lymph node (cerv.) (g)	Lymph node (mesent.) (g)
		Heart (g)	Kidney (left) (g)	Kidney (right) (g)			
151	1.09	1.25	1.22	11.0	1.66	0.012	0.036
152	1.15	1.58	1.56	11.5	1.86	0.016	0.026
153	0.96	1.38	1.40	9.9	1.62	0.020	0.043
154	1.09	1.42	1.35	11.2	1.90	0.020	0.031
155	1.05	1.36	1.42	11.7	1.97	0.021	0.026
156	1.11	1.35	1.26	11.1	1.60	0.013	0.027
157	1.07	1.37	1.43	12.3	1.57	0.016	0.030
158	1.38	1.33	1.28	10.5	1.71	0.018	0.012
159	1.01	1.26	1.34	11.3	1.52	0.019	0.051
160	0.99	1.21	1.17	9.8	1.61	0.018	0.047
Mean	1.090	1.351	1.343	11.03	1.702	0.0173	0.0329
SD	0.117	0.104	0.115	0.78	0.154	0.0030	0.0116
N	10	10	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2      Absolute Organ Weights - Individual Data

Sex: Male	Day: 10 Relative to Start Date	Absolute Organ Weights - Individual Data				Rat
Group 6: 30 µg/ animal		Absolute Organ Weights				
		Pituitary (g)	Prostate Gland (g)	Spleen (g)	Thymus (g)	
151	0.011	0.742	0.92	0.64	0.016	
152	0.012	1.088	1.09	0.54	0.015	
153	0.009	0.791	0.89	0.41	0.006	
154	0.011	1.072	1.30	0.44	0.009	
155	0.011	0.835	1.24	0.66	0.013	
156	0.009	0.703	0.88	0.42	0.012	
157	0.010	0.656	0.94	0.37	0.008	
158	0.008	0.679	0.92	0.40	0.011	
159	0.011	0.653	0.97	0.42	0.012	
160	0.009	0.567	1.09	0.35	0.008	
Mean	0.0101	0.7786	1.024	0.465	0.0110	
SD	0.0013	0.1757	0.150	0.110	0.0032	
N	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Female	Day: 10 Relative to Start Date	Absolute Organ Weights - Individual Data					Rat
Group 6: 30 µg/ animal BNT162c1					Absolute Organ Weights		Heart (g)
		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Ovary (left) (g)	Ovary (right) (g)	
166		0.043	0.045	1.74	0.039	0.042	0.88
167		0.041	0.040	1.87	0.040	0.043	0.80
168		0.042	0.039	1.77	0.049	0.062	0.69
169		0.048	0.045	1.83	0.065	0.061	0.75
170		0.035	0.035	1.83	0.044	0.043	1.00
171		0.045	0.039	1.83	0.020	0.028	0.72
172		0.040	0.041	1.68	0.046	0.046	0.78
173		0.049	0.046	1.64	0.054	0.046	0.73
174		0.046	0.040	1.82	0.039	0.040	0.68
175		0.051	0.041	1.76	0.042	0.048	0.78
Mean	0.0440	0.0411	1.777	0.0438	0.0459	0.781	
SD	0.0048	0.0034	0.074	0.0116	0.0099	0.097	
N	10	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Female	Day: 10 Relative to Start Date	Absolute Organ Weights				Rat	
Group 6: 30 µg/ animal		Kidney (left) (g)	Kidney (right) (g)	Liver (g)	Lungs (g)	Lymph node (cerv.) (g)	Lymph node (mesent.) (g)
166	0.85	0.96	8.8	1.47	0.005	0.015	
167	0.93	0.99	8.2	1.55	0.012	0.020	
168	0.88	0.94	7.2	1.10	0.012	0.024	
169	0.97	1.00	8.5	1.46	0.024	0.036	
170	0.92	0.90	8.3	1.53	0.020	0.039	
171	0.82	0.90	7.2	1.48	0.018	0.017	
172	0.84	0.80	8.3	1.55	0.011	0.014	
173	0.92	0.96	8.9	1.39	0.014	0.015	
174	0.82	0.84	7.3	1.32	0.011	0.031	
175	0.89	0.94	8.1	1.67	0.015	0.012	
Mean	0.884	0.923	8.08	1.452	0.0142	0.0223	
SD	0.051	0.064	0.64	0.156	0.0054	0.0098	
N	10	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2      Absolute Organ Weights - Individual Data

Sex: Female	Day: 10 Relative to Start Date	Rat			
Group 6: 30 µg/ animal		Absolute Organ Weights			
		Pituitary (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)
166		0.012	0.78	0.47	0.006
167		0.011	0.66	0.35	0.008
168		0.009	0.61	0.32	0.009
169		0.015	0.66	0.39	0.012
170		0.013	0.89	0.43	0.009
171		0.012	0.77	0.18	0.011
172		0.009	0.83	0.26	0.010
173		0.010	0.94	0.39	0.011
174		0.013	0.58	0.35	0.009
175		0.011	0.90	0.41	0.008
Mean	0.0115		0.762	0.355	0.0093
SD	0.0019		0.129	0.085	0.0018
N	10		10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Rat					
Group 1: Control		Absolute Organ Weights			Absolute Organ Weights		
		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Epididymis (left) (g)	Epididymis (right) (g)	Testis (left) (g)
1	0.034	0.030	1.97	0.58	0.42	1.84	1.85
2	0.040	0.035	1.95	0.45	0.39	2.01	1.92
3	0.044	0.039	2.12	0.55	0.45	1.75	1.73
4	0.035	0.036	1.95	0.40	0.41	1.73	1.60
5	0.034	0.038	1.91	0.36	0.39	1.66	1.68
6	0.037	0.029	2.03	0.39	0.41	1.77	1.81
7	0.035	0.030	2.05	0.45	0.47	1.63	1.65
8	0.049	0.046	2.00	0.53	0.48	1.97	1.93
9	0.039	0.035	2.08	0.41	0.38	1.81	1.84
10	0.034	0.035	1.98	0.45	0.39	1.80	1.75
Mean	0.0381	0.0353	2.004	0.457	0.419	1.797	1.776
SD	0.0050	0.0051	0.065	0.073	0.036	0.121	0.113
N	10	10	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Rat					
Group 2: 30 µg/ animal	BNT162a1	Absolute Organ Weights			Absolute Organ Weights		
		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Epididymis (left) (g)	Epididymis (right) (g)	Testis (left) (g)
31	0.040	0.037		1.94	0.44	0.40	1.83
32	0.046	0.040		1.91	0.46	0.49	1.74
33	0.055	0.060		2.05	0.49	0.43	1.83
34	0.045	0.043		1.83	0.48	0.44	1.77
35	0.036	0.040		1.92	0.49	0.44	1.73
36	0.039	0.031		2.01	0.44	0.38	1.61
37	0.039	0.035		1.98	0.37	0.41	1.74
38	0.035	0.042		2.00	0.48	0.49	1.80
39	0.041	0.041		1.95	0.39	0.44	1.73
40	0.039	0.039		1.91	0.45	0.47	1.63
Mean	0.0415	0.0408		1.950	0.449	0.439	1.741
SD	0.0059	0.0076		0.063	0.041	0.037	0.074
N	10	10		10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2 Absolute Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Rat					
Group 3: 10 µg/ animal BNT162a1		Absolute Organ Weights			Absolute Organ Weights		
		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Epididymis (left) (g)	Epididymis (right) (g)	Testis (left) (g)
61	0.038	0.042		1.98	0.64	0.60	2.09
62	0.038	0.042		1.89	0.43	0.42	1.77
63	0.038	0.039		1.92	0.77	0.68	2.14
64	0.035	0.039		1.97	0.58	0.59	1.82
65	0.040	0.036		1.95	0.52	0.47	1.97
66	0.037	0.032		2.17	0.60	0.56	1.84
67	0.046	0.045		2.03	0.68	0.63	1.89
68	0.033	0.037		1.89	0.54	0.42	1.78
69	0.044	0.046		1.94	0.49	0.44	1.58
70	0.057	0.055		2.04	0.52	0.43	1.82
Mean	0.0406	0.0413		1.978	0.577	0.524	1.870
SD	0.0069	0.0064		0.085	0.100	0.099	0.163
N	10	10		10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Rat					
Group 4: 30 µg/ animal BNT162b1		Absolute Organ Weights			Absolute Organ Weights		
		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Epididymis (left) (g)	Epididymis (right) (g)	Testis (left) (g)
91	0.034	0.028	1.92	0.47	0.41	1.84	1.79
92	0.039	0.035	2.03	0.47	0.45	1.61	1.63
93	0.038	0.033	1.88	0.50	0.46	1.80	1.72
94	0.041	0.043	1.88	0.38	0.41	1.65	1.63
95	0.048	0.048	1.90	0.51	0.41	1.82	1.81
96	0.047	0.041	2.01	0.54	0.54	1.83	1.80
97	0.042	0.033	2.02	0.49	0.49	1.72	1.66
98	0.048	0.051	1.98	0.53	0.50	1.96	2.00
99	0.039	0.039	2.02	0.57	0.54	1.91	1.89
100	0.042	0.041	1.97	0.44	0.41	1.71	1.73
Mean	0.0418	0.0392	1.961	0.490	0.462	1.785	1.766
SD	0.0047	0.0071	0.061	0.054	0.053	0.111	0.118
N	10	10	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Rat					
Group 5: 100 µg/ animal BNT162b1		Absolute Organ Weights			Testis		
		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Epididymis (left) (g)	Epididymis (right) (g)	Testis (left) (g)
121	0.030	0.037	2.11	0.71	0.61	2.14	2.09
122	0.033	0.034	1.90	0.48	0.46	1.64	1.71
123	0.051	0.057	1.98	0.48	0.52	2.12	1.86
124	0.033	0.040	2.18	0.51	0.55	1.82	1.84
125	0.053	0.043	2.03	0.52	0.71	1.69	1.73
126	0.046	0.042	1.92	0.54	0.51	1.75	1.69
127	0.052	0.055	1.88	0.54	0.47	1.71	1.72
128	0.042	0.035	1.92	0.49	0.45	2.02	1.91
129	0.041	0.039	1.94	0.52	0.52	1.81	1.80
130	0.046	0.043	1.91	0.54	0.59	1.70	1.66
Mean	0.0427	0.0425	1.977	0.533	0.539	1.840	1.801
SD	0.0084	0.0078	0.100	0.067	0.080	0.185	0.130
N	10	10	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Rat					
Group 7: 100 µg/ animal BNT162b2		Absolute Organ Weights			Absolute Organ Weights		
		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Epididymis (left) (g)	Epididymis (right) (g)	Testis (left) (g)
181	0.039	0.037	1.95	0.53	0.56	1.97	2.00
182	0.032	0.031	1.91	0.44	0.44	1.59	1.64
183	0.040	0.034	1.95	0.53	0.44	1.75	1.75
184	0.050	0.051	1.95	0.44	0.40	1.72	1.68
185	0.049	0.045	1.91	0.53	0.56	1.99	2.00
186	0.040	0.034	1.95	0.51	0.50	1.91	1.77
187	0.045	0.014	1.97	0.51	0.45	1.78	1.72
188	0.043	0.037	1.89	0.61	0.53	1.96	2.01
189	0.036	0.035	2.01	0.63	0.52	1.97	1.89
190	0.056	0.055	1.95	0.81	0.74	1.79	1.72
Mean	0.0430	0.0373	1.944	0.554	0.514	1.843	1.818
SD	0.0072	0.0114	0.034	0.109	0.097	0.136	0.143
N	10	10	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Male   Day: 17 Relative to Start Date		Rat					
		Absolute Organ Weights - Individual Data					
Group 1: Control	Day	Absolute Organ Weights			Lungs (g)	Lymph node (cerv.) (g)	Lymph node (mesent.) (g)
		Heart (g)	Kidney (left) (g)	Kidney (right) (g)			
1	1.15	1.49	1.56	12.5	1.65	0.020	0.033
2	1.07	1.41	1.50	12.8	1.97	0.018	0.042
3	1.20	1.44	1.46	14.2	1.86	0.023	0.064
4	1.09	1.51	1.63	12.5	1.66	0.013	0.021
5	1.08	1.32	1.36	12.5	1.61	0.045	0.020
6	1.18	1.38	1.41	13.5	1.68	0.009	0.011
7	1.15	1.35	1.31	13.1	3.31	0.014	0.031
8	1.21	1.35	1.39	12.8	1.87	0.028	0.034
9	1.11	1.60	1.61	13.3	2.03	0.017	0.021
10	1.16	1.41	1.56	13.0	1.72	0.022	0.053
Mean	1.140	1.426	1.479	13.02	1.936	0.0209	0.0330
SD	0.050	0.086	0.110	0.54	0.504	0.0101	0.0163
N	10	10	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Rat				
Group 2: 30 µg/ animal BNT162a1		Absolute Organ Weights			Lungs (g)	Lymph node (mesent.) (g)
		Heart (g)	Kidney (left) (g)	Kidney (right) (g)		
31	1.07	1.33	1.32	10.3	1.83	0.023
32	0.94	1.50	1.52	10.9	1.92	0.019
33	1.21	1.51	1.56	12.5	2.10	0.022
34	0.98	1.32	1.31	11.2	1.85	0.017
35	1.27	1.34	1.27	11.6	1.68	0.017
36	1.02	1.20	1.23	11.1	1.68	0.017
37	1.00	1.21	1.25	10.1	1.91	0.018
38	1.51	1.41	1.44	8.9	2.44	0.021
39	0.95	1.19	1.34	9.4	1.49	0.019
40	1.01	1.08	1.10	9.8	1.63	0.025
Mean	1.096	1.309	1.334	10.58	1.853	0.0198
SD	0.182	0.140	0.139	1.09	0.270	0.0028
N	10	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Rat				
Group 3: 10 µg/ animal BNT162a1		Absolute Organ Weights				Lymph node (mesent.) (g)
		Heart (g)	Kidney (left) (g)	Kidney (right) (g)	Liver (g)	
61	1.16	1.41	1.49	13.1	1.93	0.019
62	0.96	1.38	1.42	12.6	1.86	0.016
63	1.16	1.42	1.53	12.3	2.04	0.013
64	1.13	1.47	1.51	11.5	1.78	0.020
65	1.19	1.59	1.50	14.6	1.85	0.020
66	1.29	1.50	1.47	13.1	2.03	0.025
67	1.16	1.51	1.65	13.1	2.32	0.021
68	1.04	1.28	1.18	11.0	1.76	0.021
69	1.32	1.40	1.41	12.6	2.17	0.019
70	1.23	1.34	1.45	13.9	2.45	0.014
Mean	1.164	1.430	1.461	12.78	2.019	0.0188
SD	0.107	0.090	0.120	1.05	0.232	0.0036
N	10	10	10	10	10	10

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Three LNP-Formulated  
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TABLE 15-2 Absolute Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Rat					
Group 4: 30 µg/ animal BNT162b1		Absolute Organ Weights			Lungs (g)	Lymph node (cerv.) (g)	Lymph node (mesent.) (g)
		Heart (g)	Kidney (left) (g)	Kidney (right) (g)			
91	1.25	1.38	1.40	11.6	2.04	0.023	0.049
92	0.99	1.36	1.41	10.0	1.49	0.013	0.067
93	1.09	1.42	1.27	11.6	1.85	0.016	0.036
94	1.19	1.42	1.51	12.7	1.94	0.009	0.011
95	1.17	1.47	1.45	12.0	1.74	0.012	0.020
96	1.10	1.46	1.49	12.9	1.96	0.082	0.050
97	1.00	1.25	1.45	11.2	1.62	0.018	0.022
98	1.05	1.49	1.39	11.8	1.65	0.017	0.027
99	1.00	1.47	1.42	12.2	1.77	0.019	0.043
100	1.11	1.32	1.39	11.2	1.81	0.021	0.009
Mean	1.095	1.404	1.418	11.72	1.787	0.0230	0.0334
SD	0.088	0.077	0.066	0.83	0.170	0.0212	0.0188
N	10	10	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Absolute Organ Weights - Individual Data					Rat
Group 5: 100 µg/ animal BNT162b1		Absolute Organ Weights			Lungs		Lymph node (mesent.) (g)
		Heart (g)	Kidney (left) (g)	Kidney (right) (g)	Liver (g)	Lungs (g)	
121	1.54	1.46	1.48	13.2	1.95	0.019	0.021
122	1.01	1.41	1.31	11.2	2.06	0.008	0.082
123	1.14	1.46	1.44	12.9	1.90	0.010	0.027
124	1.33	1.67	1.75	15.2	2.37	0.019	0.027
125	1.04	1.37	1.35	12.0	1.68	0.022	0.050
126	1.27	1.63	1.63	16.2	2.16	0.034	0.070
127	1.10	1.57	1.41	12.0	1.76	0.026	0.039
128	1.01	1.16	1.19	12.1	1.77	0.020	0.064
129	1.14	1.49	1.47	11.3	1.63	0.015	0.034
130	1.09	1.61	1.63	15.7	1.84	0.014	0.026
Mean	1.167	1.483	1.466	13.18	1.912	0.0187	0.0440
SD	0.168	0.150	0.167	0.230	0.230	0.0076	0.0214
N	10	10	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Rat					
		Absolute Organ Weights					
		Heart (g)	Kidney (left) (g)	Kidney (right) (g)	Liver (g)	Lungs (g)	Lymph node (cerv.) (g)
Group 7: 100 µg/ animal BNT162b2	181	1.29	1.41	1.47	12.9	1.85	0.014
	182	0.97	1.31	1.39	10.4	1.73	0.017
	183	1.00	1.34	1.42	12.4	1.84	0.012
	184	1.34	1.35	1.37	11.8	1.64	0.018
	185	1.17	1.47	1.42	14.4	2.13	0.023
	186	1.02	1.39	1.43	11.5	1.71	0.022
	187	1.10	1.22	1.27	11.6	2.14	0.015
	188	1.21	1.38	1.44	12.4	1.74	0.009
	189	1.14	1.53	1.59	11.4	1.68	0.015
	190	1.11	1.50	1.51	12.8	2.31	0.012
Mean	1.135	1.390	1.431	12.16	1.877	0.0157	0.0494
SD	0.122	0.093	0.085	1.09	0.232	0.0044	0.0259
N	10	10	10	10	10	10	10

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RNA Platforms encoding for Viral Proteins

TABLE 15-2      Absolute Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Absolute Organ Weights					Rat
Group 1: Control		Pituitary (g)	Prostate Gland (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)	
1	0.014	0.628	0.69	0.45		0.013	
2	0.012	1.032	0.88	0.58		0.018	
3	0.015	0.928	0.82	0.65		0.012	
4	0.013	1.120	0.63	0.41		0.013	
5	0.010	0.952	0.77	0.48		0.015	
6	0.012	0.728	0.96	0.57		0.011	
7	0.011	0.907	0.94	0.55		0.008	
8	0.013	1.208	1.04	0.53		0.011	
9	0.013	0.900	0.84	0.73		0.016	
10	0.015	0.871	0.81	0.43		0.014	
Mean	0.0128	0.9274	0.838	0.538		0.0131	
SD	0.0016	0.1703	0.124	0.101		0.0028	
N	10	10	10	10		10	

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RNA Platforms encoding for Viral Proteins

TABLE 15-2      Absolute Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Absolute Organ Weights - Individual Data					Rat
Group 2: 30 µg/ animal BNT162a1		Absolute Organ Weights					
		Pituitary (g)	Prostate Gland (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)	
31	0.011	0.852		1.13	0.43		0.015
32	0.012	0.641		0.74	0.48		0.014
33	0.012	0.734		1.14	0.64		0.014
34	0.012	0.813		1.09	0.44		0.014
35	0.013	1.341		1.05	0.58		0.011
36	0.017	0.701		0.99	0.48		0.012
37	0.015	0.623		0.91	0.32		0.018
38	0.009	0.607		0.89	0.47		0.014
39	0.011	0.690		0.84	0.32		0.013
40	0.011	0.884		0.98	0.47		0.013
Mean	0.0123	0.7886		0.976	0.463		0.0138
SD	0.0023	0.2164		0.131	0.099		0.0019
N	10	10		10	10		10

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RNA Platforms encoding for Viral Proteins

TABLE 15-2      Absolute Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Absolute Organ Weights				Rat
Group 3: 10 µg/ animal BNT162a1		Pituitary (g)	Prostate Gland (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)
61	0.014	0.761	1.07	0.41	0.011	
62	0.009	0.668	0.90	0.56	0.013	
63	0.014	1.085	1.18	0.41	0.013	
64	0.012	0.797	1.03	0.43	0.012	
65	0.011	0.718	1.00	0.63	0.008	
66	0.014	1.081	1.07	0.42	0.011	
67	0.016	1.104	1.27	0.58	0.021	
68	0.014	0.993	0.83	0.50	0.011	
69	0.014	0.952	1.15	0.73	0.013	
70	0.012	0.617	1.29	0.60	0.011	
Mean	0.0130	0.8776	1.079	0.527	0.0124	
SD	0.0020	0.1862	0.149	0.111	0.0034	
N	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 15-2      Absolute Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Absolute Organ Weights				Rat
Group 4: 30 µg/ animal BNT162b1		Pituitary (g)	Prostate Gland (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)
91	0.012	0.782	1.01	0.47	0.015	
92	0.014	0.684	0.73	0.40	0.014	
93	0.010	1.001	0.93	0.53	0.016	
94	0.010	0.831	0.97	0.51	0.011	
95	0.016	0.919	0.89	0.62	0.010	
96	0.016	0.854	1.12	0.55	0.014	
97	0.011	0.825	0.95	0.37	0.011	
98	0.012	0.748	1.08	0.55	0.012	
99	0.014	1.213	0.95	0.40	0.015	
100	0.011	0.608	0.88	0.28	0.016	
Mean	0.0126	0.8465	0.951	0.468	0.0134	
SD	0.0023	0.1704	0.109	0.103	0.0022	
N	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 15-2      Absolute Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Absolute Organ Weights - Individual Data					Rat
Group 5: 100 µg/ animal		Pituitary (g)	Prostate Gland (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)	
121	0.016	0.703	1.22	0.51	0.014		
122	0.007	0.541	0.91	0.39	0.009		
123	0.011	0.914	1.15	0.48	0.010		
124	0.012	1.013	1.02	0.56	0.013		
125	0.014	0.708	0.97	0.36	0.012		
126	0.014	0.843	1.28	0.40	0.013		
127	0.014	1.000	0.83	0.37	0.010		
128	0.009	0.358	1.01	0.32	0.007		
129	0.011	NT !	0.90	0.36	0.010		
130	0.011	1.027	1.01	0.60	0.007		
Mean	0.0119	0.7897	1.030	0.435	0.0105		
SD	0.0027	0.2321	0.145	0.096	0.0025		
N	10	9	10	10	10		

! = Result Comment

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RNA Platforms encoding for Viral Proteins

TABLE 15-2      Absolute Organ Weights - Individual Data

Sex: Male	Day: 17 Relative to Start Date	Absolute Organ Weights				Rat
Group 7: 100 µg/ animal BNT162b2		Pituitary (g)	Prostate Gland (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)
181	0.013	0.958	1.15	0.27	0.007	
182	0.011	0.664	0.86	0.34	0.013	
183	0.013	0.976	0.99	0.30	0.007	
184	0.012	0.597	1.05	0.39	0.014	
185	0.011	1.190	1.22	0.34	0.010	
186	0.010	0.781	0.96	0.23	0.013	
187	0.011	0.682	0.96	0.26	0.010	
188	0.009	0.755	0.99	0.93	0.008	
189	0.012	0.978	1.16	0.39	0.014	
190	0.011	0.549	1.15	0.43	0.013	
Mean	0.0113	0.8130	1.049	0.388	0.0109	
SD	0.0013	0.2047	0.116	0.201	0.0028	
N	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Absolute Organ Weights					Rat
Group 1: Control		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Ovary (left) (g)	Ovary (right) (g)	Heart (g)
16		0.059	0.056	1.95	0.054	0.060	0.91
17		0.047	0.048	1.82	0.086	0.072	0.91
18		0.028	0.031	1.74	0.066	0.068	0.90
19		0.036	0.034	1.88	0.027	0.060	1.00
20		0.042	0.049	1.90	0.052	0.059	0.86
21		0.041	0.037	1.86	0.057	0.044	0.92
22		0.053	0.050	1.83	0.041	0.060	0.95
23		0.049	0.041	1.83	0.051	0.062	0.90
24		0.046	0.044	1.92	0.059	0.044	0.93
25		0.052	0.047	1.86	0.046	0.052	0.86
Mean	0.0453	0.0437		1.859	0.0539	0.0581	0.914
SD	0.0090	0.0079		0.059	0.0156	0.0091	0.041
N	10	10		10	10	10	10

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RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Absolute Organ Weights - Individual Data						Rat Heart (g)
		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Ovary (left) (g)	Ovary (right) (g)		
Group 2: 30 µg/ animal BNT162a1								
46	0.054	0.051	1.77	0.064	0.090	0.86		
47	0.038	0.040	1.87	0.046	0.034	0.90		
48	0.051	0.045	1.77	0.062	0.029	0.95		
49	0.033	0.050	1.98	0.037	0.040	0.78		
50	0.057	0.050	1.83	0.051	0.047	0.82		
51	0.050	0.047	1.87	0.040	0.044	0.85		
52	0.043	0.037	1.89	0.048	0.053	0.94		
53	0.040	0.047	1.85	0.064	0.064	0.89		
54	0.048	0.049	1.91	0.079	0.066	0.86		
55	0.051	0.047	1.65	0.065	0.071	0.78		
Mean	0.0465	0.0463	1.839	0.0556	0.0538	0.863		
SD	0.0077	0.0045	0.091	0.0132	0.0189	0.059		
N	10	10	10	10	10	10		

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RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Absolute Organ Weights					Rat
Group 3: 10 µg/ animal		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Ovary (left) (g)	Ovary (right) (g)	Heart (g)
76	0.039	0.039	0.047	1.73	0.070	0.058	0.91
77	0.047	0.041	1.94	0.044	0.046	0.046	0.80
78	0.039	0.041	1.73	0.048	0.059	0.059	0.77
79	0.064	0.062	1.88	0.055	0.052	0.052	0.99
80	0.049	0.039	1.81	0.075	0.058	0.058	0.74
81	0.052	0.046	1.90	0.063	0.071	0.071	0.87
82	0.047	0.043	1.91	0.068	0.086	0.086	1.08
83	0.040	0.041	1.86	0.055	0.060	0.060	0.76
84	0.040	0.044	1.78	0.045	0.054	0.054	0.88
85	0.037	0.054	1.92	0.055	0.062	0.062	0.82
Mean	0.0454	0.0456	1.846	0.0578	0.0606	0.0606	0.862
SD	0.0083	0.0073	0.078	0.0108	0.0111	0.0111	0.109
N	10	10	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Absolute Organ Weights					Rat
Group 4: 30 µg/ animal		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Ovary (left) (g)	Ovary (right) (g)	Heart (g)
106	0.042	0.044	1.81	0.049	0.048	0.048	0.94
107	0.050	0.050	1.96	0.061	0.048	0.91	0.91
108	0.042	0.040	1.81	0.051	0.056	0.056	0.82
109	0.044	0.041	1.99	0.047	0.053	0.053	1.19
110	0.049	0.056	1.79	0.051	0.051	0.051	0.92
111	0.042	0.043	1.83	0.064	0.059	0.059	1.03
112	0.057	0.050	1.84	0.059	0.048	0.048	0.96
113	0.045	0.044	1.94	0.067	0.056	0.056	0.98
114	0.042	0.044	1.83	0.053	0.059	0.059	0.94
115	0.042	0.042	1.96	0.057	0.056	0.056	0.83
Mean	0.0455	0.0454	1.876	0.0559	0.0534	0.0534	0.952
SD	0.0050	0.0050	0.077	0.0067	0.0044	0.0044	0.105
N	10	10	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Absolute Organ Weights					Rat
Group 5: 100 µg/ animal		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Ovary (left) (g)	Ovary (right) (g)	Heart (g)
136	0.059	0.054	2.04	0.045	0.045	0.045	1.04
137	0.053	0.048	1.82	0.064	0.073	0.073	0.77
138	0.050	0.054	1.74	0.056	0.051	0.051	0.81
139	0.045	0.041	1.86	0.056	0.055	0.055	0.86
140	0.048	0.047	1.84	0.050	0.062	0.062	0.91
141	0.050	0.054	1.88	0.053	0.049	0.049	0.92
142	0.051	0.045	1.98	0.054	0.069	0.069	0.90
143	0.045	0.042	1.82	0.042	0.046	0.046	0.86
144	0.051	0.056	1.81	0.065	0.078	0.078	0.84
145	0.064	0.065	1.87	0.060	0.061	0.061	0.88
Mean	0.0516	0.0506	1.866	0.0545	0.0589	0.0589	0.879
SD	0.0059	0.0074	0.087	0.0075	0.0116	0.0116	0.073
N	10	10	10	10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Absolute Organ Weights					Rat
Group 7: 100 µg/ animal		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Ovary (left) (g)	Ovary (right) (g)	Heart (g)
196	0.040	0.050		1.91	0.044	0.058	0.96
197	0.050	0.047		1.84	0.051	0.044	0.88
198	0.040	0.036		1.75	0.063	0.067	0.84
199	0.060	0.055		1.80	0.048	0.077	0.77
200	0.060	0.059		1.89	0.030	0.050	0.84
201	0.050	0.048		1.96	0.046	0.047	0.87
202	0.053	0.054		1.89	0.057	0.056	0.79
203	0.048	0.052		1.91	0.066	0.060	0.86
204	0.044	0.043		1.78	0.045	0.065	0.98
205	0.049	0.046		1.95	0.042	0.040	0.87
Mean	0.0494	0.0490		1.868	0.0492	0.0564	0.866
SD	0.0070	0.0066		0.072	0.0106	0.0114	0.065
N	10	10		10	10	10	10

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Absolute Organ Weights				Rat	
Group 1: Control		Kidney (left) (g)	Kidney (right) (g)	Liver (g)	Lungs (g)	Lymph node (cerv.) (g)	Lymph node (mesent.) (g)
16	1.12	1.07	9.6	1.38	0.012	0.021	
17	0.90	1.03	8.0	1.25	0.031	0.036	
18	0.89	0.93	7.4	1.33	0.014	0.049	
19	0.88	0.86	8.9	1.54	0.017	0.018	
20	0.86	0.91	7.9	1.38	0.010	0.015	
21	0.90	0.99	8.0	1.18	0.015	0.029	
22	0.97	0.94	8.3	1.30	0.018	0.044	
23	0.91	1.03	8.2	1.28	0.014	0.042	
24	0.99	1.09	8.5	1.32	0.018	0.069	
25	0.96	1.04	8.7	1.37	0.012	0.016	
Mean	0.938	0.989	8.35	1.333	0.0161	0.0339	
SD	0.077	0.076	0.61	0.096	0.0059	0.0175	
N	10	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Absolute Organ Weights				Rat	
Group 2: 30 µg/ animal		Kidney (left) (g)	Kidney (right) (g)	Liver (g)	Lungs (g)	Lymph node (cerv.) (g)	Lymph node (mesent.) (g)
46	1.07	1.10	9.5	1.47	0.024	0.039	
47	1.00	1.04	9.2	1.63	0.021	0.018	
48	0.95	1.01	9.6	1.35	0.008	0.054	
49	1.06	1.04	8.5	1.46	0.016	0.017	
50	0.99	1.01	8.8	1.64	0.014	0.024	
51	0.98	0.97	9.4	1.39	0.011	0.017	
52	1.01	1.00	9.0	1.78	0.017	0.018	
53	0.97	1.03	9.2	1.15	0.021	0.020	
54	0.94	0.97	9.1	1.51	0.028	0.038	
55	0.94	1.02	8.9	1.51	0.022	0.035	
Mean	0.991	1.019	9.12	1.489	0.0182	0.0280	
SD	0.046	0.038	0.34	0.174	0.0061	0.0128	
N	10	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Absolute Organ Weights				Rat	
Group 3: 10 µg/ animal		Kidney (left) (g)	Kidney (right) (g)	Liver (g)	Lungs (g)	Lymph node (cerv.) (g)	Lymph node (mesent.) (g)
76	0.94	0.99	9.3	1.62	0.023	0.041	
77	1.06	1.00	9.0	1.64	0.029	0.055	
78	0.92	0.93	8.1	1.27	0.020	0.045	
79	1.15	1.14	10.1	1.55	0.021	0.027	
80	0.92	0.91	7.5	1.28	0.018	0.030	
81	1.02	0.96	9.2	1.49	0.011	0.030	
82	1.12	1.12	10.3	1.74	0.015	0.054	
83	0.95	0.86	7.7	1.45	0.016	0.036	
84	0.89	0.94	9.3	1.52	0.021	0.034	
85	0.86	1.03	7.7	1.38	0.016	0.038	
Mean	0.983	0.988	8.82	1.494	0.0190	0.0390	
SD	0.099	0.089	1.01	0.154	0.0050	0.0098	
N	10	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Absolute Organ Weights					Rat
Group 4: 30 µg/ animal		Kidney (left) (g)	Kidney (right) (g)	Liver (g)	Lungs (g)	Lymph node (cerv.) (g)	Lymph node (mesent.) (g)
106	1.06	1.10	9.7	1.44	0.021	0.054	
107	1.01	1.02	8.5	1.53	0.017	0.013	
108	0.98	1.00	9.0	1.43	0.011	0.030	
109	1.10	1.14	12.0	1.86	0.023	0.024	
110	0.91	0.94	9.6	1.32	0.023	0.019	
111	1.10	1.14	9.7	1.72	0.014	0.012	
112	0.94	0.99	9.4	1.59	0.017	0.021	
113	1.05	1.05	11.6	1.72	0.021	0.019	
114	0.94	0.96	9.2	1.62	0.019	0.079	
115	0.89	0.93	8.0	1.42	0.014	0.054	
Mean	0.998	1.027	9.67	1.565	0.0180	0.0325	
SD	0.077	0.078	1.25	0.168	0.0041	0.0223	
N	10	10	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Absolute Organ Weights				Rat	
Group 5: 100 µg/ animal BNT162b1		Kidney (left) (g)	Kidney (right) (g)	Liver (g)	Lungs (g)	Lymph node (cerv.) (g)	Lymph node (mesent.) (g)
136	1.23	1.13	11.7	1.71	0.026	0.038	
137	0.93	0.98	8.9	1.47	0.015	0.032	
138	0.93	1.00	8.9	1.41	0.011	0.034	
139	0.98	1.02	8.7	1.58	0.014	0.051	
140	1.00	1.00	9.4	1.39	0.018	0.015	
141	1.14	1.22	10.6	1.66	0.010	0.045	
142	0.95	0.98	9.1	1.47	0.023	0.028	
143	1.08	1.09	10.8	1.32	0.020	0.055	
144	1.11	1.16	12.2	1.11	0.013	0.065	
145	1.09	1.21	10.4	1.82	0.023	0.066	
Mean	1.044	1.079	10.07	1.494	0.0173	0.0429	
SD	0.101	0.095	1.25	0.207	0.0055	0.0165	
N	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Absolute Organ Weights				Rat	
Group 7: 100 µg/ animal BNT162b2		Kidney (left) (g)	Kidney (right) (g)	Liver (g)	Lungs (g)	Lymph node (cerv.) (g)	Lymph node (mesent.) (g)
196	1.07	1.09	11.1	1.80	0.005	0.023	
197	0.96	1.00	9.6	1.52	0.007	0.012	
198	0.88	0.94	9.9	1.27	0.022	0.034	
199	0.91	0.97	8.7	1.32	0.023	0.043	
200	1.00	1.17	10.2	1.70	0.011	0.056	
201	1.12	0.98	10.5	1.51	0.015	0.021	
202	1.05	1.00	9.1	1.42	0.022	0.025	
203	1.00	1.17	10.2	1.66	0.026	0.095	
204	1.07	1.14	9.9	1.43	0.012	0.043	
205	1.03	1.11	10.3	1.61	0.024	0.019	
Mean	1.009	1.057	9.95	1.524	0.0167	0.0371	
SD	0.075	0.088	0.69	0.170	0.0076	0.0244	
N	10	10	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 15-2      Absolute Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Rat			
Group 1: Control		Absolute Organ Weights			
		Pituitary (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)
16		0.015	0.49	0.46	0.011
17		0.015	0.58	0.52	0.013
18		0.012	0.46	0.65	0.009
19		0.014	0.95	0.32	0.015
20		0.018	0.58	0.43	0.011
21		0.013	0.53	0.50	0.011
22		0.016	0.53	0.43	0.019
23		0.015	0.62	0.37	0.014
24		0.019	0.61	0.45	0.014
25		0.013	0.60	0.43	0.012
Mean	0.0150	0.595	0.456	0.0129	
SD	0.0022	0.135	0.089	0.0028	
N	10	10	10	10	10

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RNA Platforms encoding for Viral Proteins

TABLE 15-2      Absolute Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Rat			
Group 2: 30 µg/ animal BNT162a1		Absolute Organ Weights			
		Pituitary (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)
46	0.015	0.92	0.54	0.012	
47	0.009	0.76	0.53	0.007	
48	0.014	0.91	0.42	0.012	
49	0.011	1.00	0.53	0.012	
50	0.014	1.03	0.28	0.017	
51	0.013	0.83	0.50	0.007	
52	0.011	1.23	0.47	0.016	
53	0.013	1.00	0.32	0.010	
54	0.018	1.00	0.31	0.018	
55	0.011	0.73	0.45	0.010	
Mean	0.0129	0.941	0.435	0.0121	
SD	0.0026	0.146	0.099	0.0039	
N	10	10	10	10	

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RNA Platforms encoding for Viral Proteins

TABLE 15-2      Absolute Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Rat			
Group 3: 10 µg/ animal		Pituitary (g)	Spleen (g)	Absolute Organ Weights Thymus (g)	Thyroid/Par. (left) (g)
76	0.015	0.75	0.50	0.011	
77	0.015	0.69	0.53	0.008	
78	0.014	0.69	0.50	0.013	
79	0.015	0.71	0.48	0.013	
80	0.014	0.68	0.40	0.014	
81	0.012	0.70	0.45	0.009	
82	0.019	0.84	0.60	0.010	
83	0.012	0.79	0.33	0.011	
84	0.017	0.76	0.69	0.008	
85	0.016	0.73	0.39	0.016	
Mean	0.0149	0.734	0.487	0.0113	
SD	0.0021	0.051	0.105	0.0027	
N	10	10	10	10	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2      Absolute Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Rat			
Group 4: 30 µg/ animal		Absolute Organ Weights			
		Pituitary (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)
106		0.016	0.77	0.49	0.010
107		0.015	0.67	0.51	0.009
108		0.010	0.75	0.43	0.010
109		0.014	0.97	0.75	0.012
110		0.020	0.77	0.31	0.009
111		0.014	1.00	0.55	0.009
112		0.015	0.59	0.32	0.009
113		0.014	0.88	0.52	0.007
114		0.010	0.72	0.40	0.009
115		0.012	0.65	0.29	0.010
Mean	0.0140	0.777	0.457	0.0094	
SD	0.0029	0.135	0.139	0.0013	
N	10	10	10	10	10

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RNA Platforms encoding for Viral Proteins

TABLE 15-2 Absolute Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Rat			
Group 5: 100 µg/ animal BNT162b1		Absolute Organ Weights			
		Pituitary (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)
136	0.017	1.17	0.55	0.007	
137	0.017	0.83	0.31	0.017	
138	0.012	0.62	0.30	0.008	
139	0.015	0.89	0.38	0.012	
140	0.013	0.99	0.35	0.005	
141	0.014	1.01	0.32	0.007	
142	0.015	0.86	0.35	0.010	
143	0.014	0.95	0.49	0.007	
144	0.010	NT !	0.42	0.009	
145	0.016	0.97	0.40	0.012	
Mean	0.0143	0.921	0.387	0.0094	
SD	0.0022	0.151	0.081	0.0035	
N	10	9	10	10	

!= Result Comment

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TABLE 15-2      Absolute Organ Weights - Individual Data

Sex: Female	Day: 17 Relative to Start Date	Rat			
Group 7: 100 µg/ animal BNT162b2		Absolute Organ Weights			
		Pituitary (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)
196	0.014	1.19	0.38	0.011	
197	0.014	0.93	0.33	0.008	
198	0.012	0.93	0.36	0.009	
199	0.017	0.73	0.32	0.016	
200	0.014	0.88	0.35	0.008	
201	0.011	0.93	0.64	0.018	
202	0.019	0.92	0.44	0.012	
203	0.015	0.89	0.44	0.007	
204	0.013	1.07	0.41	0.010	
205	0.014	1.10	0.23	0.010	
Mean	0.0143	0.957	0.390	0.0109	
SD	0.0023	0.130	0.108	0.0036	
N	10	10	10	10	

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TABLE 15-2 Absolute Organ Weights - Individual Data

Sex: Male	Day: 31 Relative to Start Date	Rat					
Group 6: 30 µg/ animal		Absolute Organ Weights					
		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Epididymis (left) (g)	Epididymis (right) (g)	Testis (left) (g)
161	0.045	0.043	0.030	1.87	0.64	0.68	1.76
162	0.033	0.032	0.035	2.11	0.61	0.65	1.86
163	0.032	0.032	0.040	2.07	0.63	0.67	1.94
164	0.032	0.043	0.034	1.96	0.72	0.73	1.89
165	0.043			2.10	0.64	0.69	1.99
Mean	0.0370	0.0364	0.0051	2.022	0.648	0.684	1.888
SD	0.0064		5	0.104	0.042	0.030	0.087
N	5			5	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Male	Day: 31 Relative to Start Date	Rat							
		Absolute Organ Weights							
		Group 6: 30 µg/ animal	Heart (g)	Kidney (left) (g)	Kidney (right) (g)	Liver (g)	Lungs (g)	Lymph node (cerv.) (g)	Lymph node (mesent.) (g)
161	1.48		1.64	1.79	14.8	2.33	0.016	0.035	
162	1.12		1.50	1.50	11.4	1.63	0.012	0.023	
163	1.36		1.48	1.39	13.6	2.50	0.026	0.065	
164	1.03		1.42	1.50	12.5	1.83	0.013	0.035	
165	1.41		1.68	1.80	13.3	2.93	0.024	0.049	
Mean	1.280		1.544	1.596	13.12	2.244	0.0182	0.0414	
SD	0.195		0.111	0.187	1.27	0.522	0.0064	0.0161	
N	5		5	5	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 15-2      Absolute Organ Weights - Individual Data

Sex: Male	Day: 31 Relative to Start Date	Absolute Organ Weights - Individual Data				Rat
Group 6: 30 µg/ animal		Pituitary (g)	Prostate Gland (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)
161	0.014	1.162	0.85	0.36	0.018	
162	0.012	1.083	0.64	0.31	0.011	
163	0.016	0.956	1.04	0.47	0.019	
164	0.010	0.958	0.75	0.43	0.008	
165	0.012	0.905	0.85	0.47	0.018	
Mean	0.0128	1.0128	0.826	0.408	0.0148	
SD	0.0023	0.1061	0.148	0.071	0.0050	
N	5	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Female	Day: 31 Relative to Start Date	Absolute Organ Weights						Rat
Group 6: 30 µg/ animal		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Ovary (left) (g)	Ovary (right) (g)	Heart (g)	
176		0.048	0.048	1.71	0.066	0.058	0.81	
177		0.055	0.047	1.92	0.057	0.072	0.87	
178		0.042	0.038	1.81	0.043	0.043	0.92	
179		0.036	0.044	1.92	0.075	0.058	0.86	
180		0.057	0.054	1.89	0.072	0.087	1.05	
Mean	0.0476	0.0462	1.850	0.0626	0.0636	0.902		
SD	0.0088	0.0058	0.090	0.0129	0.0166	0.091		
N	5	5	5	5	5	5		

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TABLE 15-2 Absolute Organ Weights - Individual Data

Sex: Female	Day: 31 Relative to Start Date	Absolute Organ Weights				Rat	
Group 6: 30 µg/ animal		Kidney (left) (g)	Kidney (right) (g)	Liver (g)	Lungs (g)	Lymph node (cerv.) (g)	Lymph node (mesent.) (g)
176	0.91	0.95	7.8	1.31	0.011	0.034	
177	0.92	0.94	8.1	1.19	0.013	0.055	
178	0.96	0.98	8.5	1.25	0.022	0.046	
179	0.97	1.04	8.3	1.35	0.013	0.028	
180	1.25	1.22	9.9	1.62	0.012	0.039	
Mean	1.002	1.026	8.52	1.344	0.0142	0.0404	
SD	0.141	0.115	0.81	0.166	0.0044	0.0105	
N	5	5	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 15-2      Absolute Organ Weights - Individual Data

Sex: Female	Day: 31 Relative to Start Date	Rat			
Group 6: 30 µg/ animal		Absolute Organ Weights			
		Pituitary (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)
176	0.018	0.61	0.50	0.009	
177	0.015	0.49	0.36	0.010	
178	0.018	0.51	0.41	0.012	
179	0.012	0.52	0.39	0.011	
180	0.013	0.69	0.48	0.010	
Mean	0.0152	0.564	0.428	0.0104	
SD	0.0028	0.084	0.060	0.0011	
N	5	5	5	5	

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RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Rat					
Group 1: Control		Absolute Organ Weights					
		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Epididymis (left) (g)	Epididymis (right) (g)	Testis (left) (g)
11	0.035	0.040	2.16	0.65	0.62	2.16	2.18
12	0.043	0.045	2.09	0.72	0.68	1.94	1.88
13	0.044	0.043	2.02	0.84	0.74	1.96	1.97
14	0.028	0.030	1.99	0.73	0.67	1.90	1.96
15	0.041	0.034	2.12	0.64	0.60	2.58	3.67 >
Mean	0.0382	0.0384	2.076	0.716	0.662	2.108	2.332
SD	0.0067	0.0063	0.070	0.080	0.055	0.282	0.756
N	5	5	5	5	5	5	5

> = Out of range

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2 Absolute Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Rat					
Group 2: 30 µg/ animal		Absolute Organ Weights					
		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Epididymis (left) (g)	Epididymis (right) (g)	Testis (left) (g)
41	0.047	0.052	1.95	0.72	0.75	1.91	1.97
42	0.044	0.044	1.97	0.59	0.61	1.87	1.93
43	0.045	0.039	2.07	0.61	0.61	1.98	2.00
44	0.049	0.050	2.02	0.65	0.62	1.80	NT !
45	0.041	0.034	1.97	0.81	0.73	1.88	1.81
Mean	0.0452	0.0438	1.996	0.676	0.664	1.888	1.928
SD	0.0030	0.0075	0.049	0.090	0.070	0.065	0.083
N	5	5	5	5	5	5	4

!= Result Comment

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TABLE 15-2 Absolute Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Rat					
Group 3: 10 µg/ animal		Absolute Organ Weights					
		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Epididymis (left) (g)	Epididymis (right) (g)	Testis (left) (g)
71	0.042	0.041	0.034	2.15	0.82	0.81	1.84
72	0.042	0.043	0.046	2.08	0.81	0.74	1.91
73	0.043	0.041	0.039	1.99	0.69	0.72	1.93
74	0.041	0.049	0.052	2.10	0.78	0.80	2.11
75	0.049			2.27	0.89	0.97	2.47
Mean	0.0434	0.0424	0.0069	2.118	0.798	0.808	2.032
SD	0.0032	0.0069	5	0.103	0.073	0.098	0.269
N	5			5	5	5	5

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RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Rat					
Group 4: 30 µg/ animal	BNT162b1	Absolute Organ Weights			Absolute Organ Weights		
		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Epididymis (left) (g)	Epididymis (right) (g)	Testis (left) (g)
101	0.034	0.034	0.027	1.98	0.60	0.58	1.94
102	0.035	0.036	0.031	2.02	0.62	0.64	1.89
103	0.036	0.030	0.037	2.14	0.66	0.55	2.89
104	0.038	0.043	0.043	1.78	0.57	0.53	1.78
105				2.06	0.85	0.74	1.90
Mean	0.0346	0.0344	0.0061	1.996	0.660	0.608	2.080
SD	0.0030	0.0061	5	0.134	0.111	0.085	0.457
N	5			5	5	5	5

> = Out of range

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Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2 Absolute Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Rat					
Group 5: 100 µg/ animal BNT162b1		Absolute Organ Weights					
		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Epididymis (left) (g)	Epididymis (right) (g)	Testis (left) (g)
131	0.038	0.042	2.14	0.79	0.75	2.05	2.00
132	0.037	0.038	2.15	0.79	0.78	1.88	1.90
133	0.039	0.037	2.04	0.83	0.76	1.59	1.62
134	0.038	0.038	2.17	0.93	0.84	2.14	2.14
135	0.045	0.039	1.93	0.70	0.75	2.11	2.17
Mean	0.0394	0.0388	2.086	0.808	0.776	1.954	1.966
SD	0.0032	0.0019	0.101	0.083	0.038	0.227	0.222
N	5	5	5	5	5	5	5

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Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2 Absolute Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Rat					
Group 7: 100 µg/ animal BNT162b2		Absolute Organ Weights					
		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Epididymis (left) (g)	Epididymis (right) (g)	Testis (left) (g)
191	0.039	0.041	2.01	0.60	0.62	1.87	2.01
192	0.034	0.039	1.87	0.77	0.78	2.09	1.90
193	0.030	0.031	1.95	0.69	0.64	1.95	1.96
194	0.032	0.028	2.09	0.63	0.64	1.86	1.92
195	0.039	0.044	2.07	0.86	0.84	2.06	2.03
Mean	0.0348	0.0366	1.998	0.710	0.704	1.966	1.964
SD	0.0041	0.0068	0.090	0.106	0.099	0.106	0.056
N	5	5	5	5	5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Rat				
Group 1: Control		Absolute Organ Weights				Lymph node (mesent.) (g)
		Heart (g)	Kidney (left) (g)	Kidney (right) (g)	Liver (g)	
11	1.26	1.70	1.85	12.0	2.28	0.022
12	1.29	1.66	1.73	14.6	1.79	0.026
13	1.38	1.73	1.83	15.6	2.00	0.022
14	1.21	1.56	1.77	12.5	2.02	0.021
15	1.24	1.85	1.83	13.5	2.14	0.032
Mean	1.276	1.700	1.802	13.64	2.046	0.0194
SD	0.065	0.106	0.050	1.48	0.182	0.0057
N	5	5	5	5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Absolute Organ Weights - Individual Data					Rat
Group 2: 30 µg/ animal		Absolute Organ Weights			Lungs		Lymph node (mesent.) (g)
		Heart (g)	Kidney (left) (g)	Kidney (right) (g)	Liver (g)	Lungs (g)	Lymph node (cerv.) (g)
41	1.27	1.50	1.60	12.2	2.18	0.018	0.034
42	1.23	1.67	1.74	13.6	2.07	0.043	0.035
43	1.31	1.57	1.62	14.8	2.40	0.011	0.019
44	1.31	1.55	1.46	14.2	2.13	0.018	0.034
45	1.30	1.68	1.65	14.6	1.83	0.010	0.023
Mean	1.284	1.594	1.614	13.88	2.122	0.0200	0.0290
SD	0.034	0.078	0.101	1.04	0.205	0.0134	0.0074
N	5	5	5	5	5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Rat						
		Absolute Organ Weights						
		Heart (g)	Kidney (left) (g)	Kidney (right) (g)	Liver (g)	Lungs (g)	Lymph node (cerv.) (g)	Lymph node (mesent.) (g)
Group 3: 10 µg/ animal	BNT162a1							
71	1.36	1.69	1.65	15.7	2.21	0.016	0.055	
72	1.30	1.45	1.60	13.5	1.85	0.016	0.037	
73	1.27	1.46	1.54	13.1	1.72	0.020	0.044	
74	1.42	1.71	1.72	15.0	2.19	0.030	0.049	
75	1.54	2.13	1.80	16.1	2.95	0.030	0.035	
Mean	1.378	1.688	1.662	14.68	2.184	0.0224	0.0440	
SD	0.107	0.276	0.102	1.33	0.478	0.0071	0.0083	
N	5	5	5	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2 Absolute Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Rat						
		Absolute Organ Weights						
		Heart (g)	Kidney (left) (g)	Kidney (right) (g)	Liver (g)	Lungs (g)	Lymph node (cerv.) (g)	Lymph node (mesent.) (g)
Group 4: 30 µg/ animal	BNT162b1							
101	1.24	1.61	1.61	13.6	2.08	0.013	0.016	
102	1.24	1.52	1.59	14.2	2.14	0.013	0.026	
103	1.48	1.88	1.88	18.5	2.46	0.026	0.055	
104	1.31	1.49	1.43	13.8	2.21	0.012	0.016	
105	1.33	1.66	1.76	15.2	2.20	0.020	0.028	
Mean	1.320	1.632	1.654	15.06	2.218	0.0168	0.0282	
SD	0.098	0.154	0.172	2.02	0.145	0.0061	0.0160	
N	5	5	5	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Absolute Organ Weights					Rat		
Group 5: 100 µg/ animal BNT162b1		Heart (g)		Kidney (left) (g)	Kidney (right) (g)	Liver (g)	Lungs (g)	Lymph node (cerv.) (g)	Lymph node (mesent.) (g)
		Heart (g)	Kidney (left) (g)	Kidney (right) (g)	Liver (g)	Lungs (g)	Lymph node (cerv.) (g)	Lymph node (mesent.) (g)	
131	1.32	1.49	1.50	14.2	1.95	0.017	0.049		
132	1.23	1.45	1.56	14.0	1.95	0.017	0.043		
133	1.26	1.57	1.67	12.8	1.74	0.020	0.053		
134	1.48	1.74	1.87	14.6	2.13	0.013	0.032		
135	1.22	1.65	1.72	13.5	2.33	0.022	0.057		
Mean	1.302	1.580	1.664	13.82	2.020	0.0178	0.0468		
SD	0.107	0.118	0.144	0.69	0.222	0.0034	0.0098		
N	5	5	5	5	5	5	5		

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2 Absolute Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Rat						
		Absolute Organ Weights						
		Heart (g)	Kidney (left) (g)	Kidney (right) (g)	Liver (g)	Lungs (g)	Lymph node (cerv.) (g)	Lymph node (mesent.) (g)
Group 7: 100 µg/ animal BNT162b2								
191	1.36	1.52	1.62	12.3	2.64	0.020	0.041	
192	1.20	1.57	1.64	13.1	2.17	0.019	0.058	
193	1.43	1.62	1.70	15.5	2.16	0.015	0.037	
194	1.11	1.30	1.32	10.5	1.60	0.015	0.021	
195	1.47	1.67	1.73	13.8	2.56	0.019	0.026	
Mean	1.314	1.536	1.602	13.04	2.226	0.0176	0.0366	
SD	0.154	0.143	0.164	1.85	0.413	0.0024	0.0144	
N	5	5	5	5	5	5	5	

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Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2 Absolute Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Absolute Organ Weights					Rat
Group 1: Control		Pituitary (g)	Prostate Gland (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)	
11	0.012	1.505	0.81	0.53	0.022		
12	0.013	1.505	0.83	0.46	0.010		
13	0.014	1.222	0.89	0.56	0.010		
14	0.010	1.119	0.82	0.68	0.009		
15	0.014	1.128	0.74	0.38	0.025		
Mean	0.0126	1.2958	0.818	0.522	0.0152		
SD	0.0017	0.1952	0.054	0.112	0.0077		
N	5	5	5	5	5		

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2      Absolute Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Absolute Organ Weights				Rat
Group 2: 30 µg/ animal		Pituitary (g)	Prostate Gland (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)
41	0.014	1.110	0.74	0.40	0.011	
42	0.015	1.488	0.89	0.62	0.017	
43	0.010	1.400	0.97	0.32	0.017	
44	0.013	0.915	0.89	0.59	0.010	
45	0.009	1.326	0.93	0.44	0.012	
Mean	0.0122	1.2478	0.884	0.474	0.0134	
SD	0.0026	0.2328	0.087	0.128	0.0034	
N	5	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2      Absolute Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Absolute Organ Weights				Rat
Group 3: 10 µg/ animal		Pituitary (g)	Prostate Gland (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)
71	0.012	1.281	1.11	0.45	0.013	
72	0.012	0.651	0.91	0.40	0.010	
73	0.014	0.991	0.72	0.33	0.009	
74	0.013	1.304	0.93	0.57	0.015	
75	0.015	1.509	1.03	0.59	0.035	
Mean	0.0132	1.1472	0.940	0.468	0.0164	
SD	0.0013	0.3332	0.147	0.111	0.0107	
N	5	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2      Absolute Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Absolute Organ Weights				Rat
Group 4: 30 µg/ animal		Pituitary (g)	Prostate Gland (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)
101	0.013	1.259	0.80	0.41	0.016	
102	0.014	1.706	0.82	0.50	0.022	
103	0.015	0.753	1.01	0.53	0.017	
104	0.010	1.009	0.90	0.40	0.007	
105	0.015	1.539	0.80	0.54	0.012	
Mean	0.0134	1.2532	0.866	0.476	0.0148	
SD	0.0021	0.3862	0.090	0.067	0.0056	
N	5	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2      Absolute Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Absolute Organ Weights				Rat
Group 5: 100 µg/ animal BNT162b1		Pituitary (g)	Prostate Gland (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)
131	0.014	1.268	1.05	0.30	0.017	
132	0.015	1.114	0.83	0.35	0.018	
133	0.014	1.511	0.86	0.53	0.013	
134	0.015	1.520	0.99	0.55	0.011	
135	0.014	1.063	0.78	0.49	0.016	
Mean	0.0144	1.2952	0.902	0.444	0.0150	
SD	0.0005	0.2148	0.113	0.112	0.0029	
N	5	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2      Absolute Organ Weights - Individual Data

Sex: Male	Day: 38 Relative to Start Date	Absolute Organ Weights				Rat
Group 7: 100 µg/ animal BNT162b2		Pituitary (g)	Prostate Gland (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)
191	0.013	1.007	0.84	0.43	0.012	
192	0.011	1.462	0.76	0.39	0.011	
193	0.014	1.266	0.79	0.56	0.013	
194	0.011	0.958	0.85	0.50	0.011	
195	0.014	0.636	1.05	0.44	0.012	
Mean	0.0126	1.0658	0.858	0.464	0.0118	
SD	0.0015	0.3150	0.113	0.067	0.0008	
N	5	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Rat					
Group 1: Control		Absolute Organ Weights					
		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Ovary (left) (g)	Ovary (right) (g)	Heart (g)
26	0.066	0.066	0.061	1.79	0.053	0.067	1.01
27	0.058	0.067	0.062	1.94	0.074	0.097	0.94
28	0.067	0.054	0.053	1.96	0.051	0.055	1.05
29	0.054	0.051	0.051	1.88	0.065	0.064	1.01
30	0.051			2.05	0.057	0.065	0.98
Mean	0.0592	0.0586	0.0583	1.924	0.0600	0.0696	0.998
SD	0.0071	0.0063	5	0.097	0.0095	0.0160	0.041
N	5			5		5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Absolute Organ Weights						Rat
Group 2: 30 µg/ animal BNT162a1		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Ovary (left) (g)	Ovary (right) (g)	Heart (g)	
56	0.048	0.043		1.84	0.077	0.071	0.97	
57	0.042	0.032		1.87	0.041	0.044	0.84	
58	0.046	0.043		1.90	0.053	0.052	1.09	
59	0.055	0.059		2.01	0.057	0.066	0.94	
60	0.048	0.047		1.80	0.057	0.096	0.92	
Mean	0.0478	0.0448		1.884	0.0570	0.0658	0.952	
SD	0.0047	0.0097		0.080	0.0130	0.0200	0.091	
N	5	5		5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Absolute Organ Weights					Rat
Group 3: 10 µg/ animal		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Ovary (left) (g)	Ovary (right) (g)	Heart (g)
86	0.044	0.041	1.88	0.044	0.041	0.083	0.92
87	0.054	0.050	1.91	0.086	0.061	0.061	0.95
88	0.043	0.045	1.92	0.064	0.062	0.062	0.99
89	0.037	0.036	1.86	0.063	0.059	0.059	1.02
90	0.041	0.042	1.81	0.037			0.85
Mean	0.0438	0.0428	1.876	0.0588	0.0612	0.0149	0.946
SD	0.0063	0.0052	0.044	0.0192	5	5	0.066
N	5	5	5	5	5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Absolute Organ Weights					Rat
Group 4: 30 µg/ animal BNT162b1		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Ovary (left) (g)	Ovary (right) (g)	Heart (g)
116	0.053	0.051		1.91	0.059	0.069	0.97
117	0.042	0.044		1.85	0.055	0.068	0.93
118	0.044	0.041		1.94	0.098	0.083	0.92
119	0.053	0.044		1.93	0.053	0.048	1.06
120	0.046	0.038		1.81	0.051	0.045	0.95
Mean	0.0476	0.0436		1.888	0.0632	0.0626	0.966
SD	0.0051	0.0048		0.056	0.0197	0.0159	0.056
N	5	5		5	5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Rat					
Group 5: 100 µg/ animal BNT162b1		Absolute Organ Weights					
		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Ovary (left) (g)	Ovary (right) (g)	Heart (g)
146	0.045	0.046	1.92	0.067	0.068	0.90	
147	0.049	0.050	2.03	0.075	0.074	1.41	
148	0.055	0.053	2.02	0.061	0.062	0.99	
149	0.052	0.054	2.02	0.062	0.087	1.11	
150	0.053	0.048	1.92	0.068	0.064	1.03	
Mean	0.0508	0.0502	1.982	0.0666	0.0710	1.088	
SD	0.0039	0.0033	0.057	0.0056	0.0100	0.195	
N	5	5	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Absolute Organ Weights						Rat
Group 7: 100 µg/ animal		Adren. Gland (left) (g)	Adren. Gland (right) (g)	Brain (g)	Ovary (left) (g)	Ovary (right) (g)	Heart (g)	
206	0.056	0.054	1.82	0.050	0.051	0.96		
207	0.049	0.050	1.86	0.046	0.059	1.01		
208	0.038	0.046	1.88	0.054	0.046	0.85		
209	0.060	0.061	1.91	0.043	0.046	0.97		
210	0.044	0.043	1.87	0.063	0.068	1.06		
Mean	0.0494	0.0508	1.868	0.0512	0.0540	0.970		
SD	0.0089	0.0070	0.033	0.0078	0.0095	0.078		
N	5	5	5	5	5	5		

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Absolute Organ Weights				Rat	
Group 1: Control		Kidney (left) (g)	Kidney (right) (g)	Liver (g)	Lungs (g)	Lymph node (cerv.) (g)	Lymph node (mesent.) (g)
26	1.04		1.12	10.2	1.53	0.015	0.026
27	1.16		1.28	10.6	1.68	0.027	0.027
28	1.16		1.23	10.6	1.77	0.015	0.018
29	0.93		0.95	9.1	1.45	0.020	0.048
30	1.04		1.06	9.7	1.45	0.018	0.053
Mean	1.066		1.128	10.04	1.576	0.0190	0.0344
SD	0.097		0.132	0.64	0.143	0.0049	0.0152
N	5		5	5	5	5	5

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Absolute Organ Weights				Rat	
Group 2: 30 µg/ animal		Kidney (left) (g)	Kidney (right) (g)	Liver (g)	Lungs (g)	Lymph node (cerv.) (g)	Lymph node (mesent.) (g)
56	0.97	0.97	8.8	1.72	0.028	0.042	
57	1.12	1.12	9.6	1.27	0.016	0.045	
58	1.09	1.07	11.5	1.87	0.018	0.039	
59	1.01	1.04	9.5	1.54	0.010	0.023	
60	1.01	1.13	9.5	1.51	0.018	0.039	
Mean	1.040	1.066	9.78	1.582	0.0180	0.0376	
SD	0.062	0.065	1.01	0.227	0.0065	0.0085	
N	5	5	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Absolute Organ Weights				Rat	
Group 3: 10 µg/ animal		Kidney (left) (g)	Kidney (right) (g)	Liver (g)	Lungs (g)	Lymph node (cerv.) (g)	Lymph node (mesent.) (g)
86	0.89	0.92	7.6	1.26	0.013	0.030	
87	1.15	1.19	9.2	1.45	0.017	0.053	
88	1.11	1.17	9.9	1.40	0.023	0.045	
89	1.06	1.16	8.6	1.57	0.022	0.026	
90	0.83	0.86	7.7	1.29	0.011	0.015	
Mean	1.008	1.060	8.60	1.394	0.0172	0.0338	
SD	0.140	0.157	0.98	0.125	0.0053	0.0152	
N	5	5	5	5	5	5	

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Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2 Absolute Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Absolute Organ Weights				Rat	
Group 4: 30 µg/ animal		Kidney (left) (g)	Kidney (right) (g)	Liver (g)	Lungs (g)	Lymph node (cerv.) (g)	Lymph node (mesent.) (g)
116	0.99	1.03	8.9	1.35	0.016	0.038	
117	1.00	1.08	8.4	1.21	0.010	0.030	
118	1.06	1.13	10.0	1.31	0.024	0.052	
119	1.12	1.14	9.1	1.62	0.025	0.052	
120	1.08	1.05	9.3	1.20	0.018	0.061	
Mean	1.050	1.086	9.14	1.338	0.0186	0.0466	
SD	0.055	0.048	0.59	0.170	0.0061	0.0124	
N	5	5	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Absolute Organ Weights				Rat	
Group 5: 100 µg/ animal BNT162b1		Kidney (left) (g)	Kidney (right) (g)	Liver (g)	Lungs (g)	Lymph node (cerv.) (g)	Lymph node (mesent.) (g)
146	0.89	0.94	8.5	1.38	0.056	0.032	
147	1.25	1.34	10.4	1.56	0.018	0.038	
148	0.97	1.05	9.4	1.41	0.017	0.034	
149	1.12	1.18	11.3	1.78	0.022	0.055	
150	1.22	1.27	10.4	1.77	0.019	0.031	
Mean	1.090	1.156	10.00	1.580	0.0264	0.0380	
SD	0.156	0.162	1.07	0.191	0.0167	0.0099	
N	5	5	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2    Absolute Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Absolute Organ Weights				Rat	
Group 7: 100 µg/ animal BNT162b2		Kidney (left) (g)	Kidney (right) (g)	Liver (g)	Lungs (g)	Lymph node (cerv.) (g)	Lymph node (mesent.) (g)
206	0.97	1.04	8.6	1.37	0.020	0.051	
207	1.07	1.10	9.4	1.41	0.011	0.052	
208	0.85	1.02	8.3	1.32	0.010	0.014	
209	1.23	1.26	9.9	1.38	0.023	0.025	
210	1.10	1.12	10.4	1.54	0.011	0.027	
Mean	1.044	1.108	9.32	1.404	0.0150	0.0338	
SD	0.143	0.094	0.88	0.083	0.0060	0.0169	
N	5	5	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2      Absolute Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Rat			
Group 1: Control		Absolute Organ Weights			
		Pituitary (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)
26	0.016	0.77	0.62	0.015	
27	0.017	0.62	0.58	0.013	
28	0.019	0.86	0.52	0.014	
29	0.020	0.62	0.46	0.018	
30	0.015	0.69	0.37	0.018	
Mean	0.0174	0.712	0.510	0.0156	
SD	0.0021	0.103	0.099	0.0023	
N	5	5	5	5	

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Three LNP-Formulated  
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TABLE 15-2 Absolute Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Rat			
Group 2: 30 µg/ animal BNT162a1		Absolute Organ Weights			
		Pituitary (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)
56	0.018	0.67	0.38	0.019	
57	0.015	0.55	0.40	0.012	
58	0.016	0.78	0.51	0.014	
59	0.017	0.56	0.49	0.019	
60	0.018	0.66	0.33	0.010	
Mean	0.0168	0.644	0.422	0.0148	
SD	0.0013	0.094	0.076	0.0041	
N	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2      Absolute Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Rat			
Group 3: 10 µg/ animal		Absolute Organ Weights			
		Pituitary (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)
86	0.011	0.59	0.33	0.011	
87	0.017	0.59	0.66	0.016	
88	0.017	0.63	0.44	0.010	
89	0.014	0.63	0.41	0.008	
90	0.012	0.58	0.41	0.014	
Mean	0.0142	0.604	0.450	0.0118	
SD	0.0028	0.024	0.124	0.0032	
N	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2      Absolute Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Rat			
Group 4: 30 µg/ animal BNT162b1		Absolute Organ Weights			
		Pituitary (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)
116	0.014	0.55	0.38	0.012	
117	0.010	0.55	0.38	0.009	
118	0.017	0.70	0.52	0.015	
119	0.016	0.57	0.41	0.014	
120	0.017	0.58	0.32	0.014	
Mean	0.0148	0.590	0.402	0.0128	
SD	0.0029	0.063	0.074	0.0024	
N	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2      Absolute Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Absolute Organ Weights				Rat
Group 5: 100 µg/ animal BNT162b1		Pituitary (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)	
146		0.012	0.67	0.40	0.011	
147		0.018	0.79	0.42	0.010	
148		0.018	0.65	0.46	0.013	
149		0.014	0.87	0.63	0.013	
150		0.016	0.69	0.52	0.009	
Mean		0.0156	0.734	0.486	0.0112	
SD		0.0026	0.093	0.093	0.0018	
N		5	5	5	5	

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Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2 Absolute Organ Weights - Individual Data

Sex: Female	Day: 38 Relative to Start Date	Rat			
Group 7: 100 µg/ animal BNT162b2		Absolute Organ Weights			
		Pituitary (g)	Spleen (g)	Thymus (g)	Thyroid/Par. (left) (g)
206	0.013	0.66	0.44	0.012	
207	0.020	0.68	0.39	0.015	
208	0.017	0.56	0.26	0.008	
209	0.015	0.73	0.47	0.008	
210	0.016	0.74	0.45	0.010	
Mean	0.0162	0.674	0.402	0.0106	
SD	0.0026	0.072	0.085	0.0030	
N	5	5	5	5	

Three LNP-Formulated  
RNA Platforms encoding for Viral Proteins

TABLE 15-2 Absolute Organ Weights - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Measurement</u>	<u>Type</u>	<u>Marker</u>
17	5	Male	129	Prostate Gland	Comment: Not taken at necropsy	Replacement	NT

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RNA Platforms encoding for Viral Proteins

TABLE 15-2 Absolute Organ Weights - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Measurement</u>	<u>Type</u>	<u>Marker</u>
17	5		Female	144	Spleen Weight	Replacement	NT

Comment: Not taken at necropsy

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TABLE 15-2 Absolute Organ Weights - Individual Data

<u>Page</u>	<u>Day</u>	<u>Group</u>	<u>Sex</u>	<u>Subject</u>	<u>Measurement</u>	<u>Type</u>	<u>Marker</u>
38	38	1	Male	15	Testis - Right	Out of Range	>
38	38	2	Male	44	Testis - Right	Replacement	NT
			Comment: Not taken at necropsy				
38	38	4	Male	103	Testis - Right	Out of Range	>

**6. HISTOPATHOLOGY REPORT**

## HISTOPATHOLOGY REPORT

**REPEAT-DOSE TOXICITY STUDY OF  
THREE LNP-FORMULATED RNA PLATFORMS ENCODING  
FOR VIRAL PROTEINS BY REPEATED INTRAMUSCULAR  
ADMINISTRATION TO WISTAR HAN RATS**

(b) (4) Project No.38166

27 June 2020

Veterinary Pathologist:

(b) (6), (b) (4)

**HISTOPATHOLOGY REPORT**

PAGE: I

(b) (4) Study No. 38166

Repeat-Dose Toxicity Study of  
Three LNP-Formulated RNA Platforms  
Encoding for Viral Proteins by Repeated  
Intramuscular Administration  
to Wistar Han Rats

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**HISTOPATHOLOGY REPORT****PAGE: 1****(b) (4) Study No. 38166**

Repeat-Dose Toxicity Study of  
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Intramuscular Administration  
to Wistar Han Rats

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**AUTHENTICATION**

The undersigned hereby declares that the histopathology data in this report were compiled by him, and that they reflect accurately the primary data records.

(b) (6), (b) (4)

22 June 2020

Date

**HISTOPATHOLOGY REPORT**

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Repeat-Dose Toxicity Study of  
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**PRINCIPAL SECTION****METHODS****Group design for the histopathological evaluation**

Text table 1: Group size and dose levels for the histopathological evaluation

Group	Dose level [µg/animal] (Test item / Control)	Number and sex of animals MS + RP	Animal no.	
			MS	RP
1	0 (Buffer) Control	10 + 5 m 10 + 5 f	1 - 10 16 - 25	11 - 15 26 - 30
2	30 (LNP uRNA RBD) BNT162a1	10 + 5 m 10 + 5 f	31 - 40 46 - 55	41 - 45 56 - 60
3	10 (LNP uRNA RBD) BNT162a1	10 + 5 m 10 + 5 f	61 - 70 76 - 85	71 - 75 86 - 90
4	30 (LNP modRNA RBD) BNT162b1	10 + 5 m 10 + 5 f	91 - 100 106 - 115	101 - 105 116 - 120
5	100 (LNP modRNA RBD) BNT162b1	10 + 5 m 10 + 5 f	121 - 130 136 - 145	131 - 135 146 - 150
6	30 (LNP saRNA RBD) BNT162c1	10 + 5 m 10 + 5 f	151 - 160 166 - 175	161 - 165 176 - 180
7	100 (LNP modRNA Sp2) BNT162b2	10 + 5 m 10 + 5 f	181 - 190 196 - 205	191 - 195 206 - 210

MS: Main study

RP: Recovery period

m: male

f: female

The organs listed in section 3.8.10.2 of the main report of all animals of groups 1 to 7 were examined histologically after preparation of paraffin sections and haematoxylin-eosin staining.

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The stained sections from all animals examined were prepared and provided by (b) (4),  
(b) (4) The macroscopic findings were recorded and provided by (b) (4).

**Data compilation**

The animal data and macroscopic observations were derived from descriptions recorded by (b) (4), during the post mortem examination of each animal. The histopathological findings of the undersigned pathologist were recorded and calendared using the departmental computerized systems (Provantis® Integrated preclinical software, version 10.2.1, Instem LSS Ltd., United Kingdom).

The histopathological findings recorded in the organs/tissues are summarised in the tables 'Microscopic Findings by Incident' and 'Microscopic Findings by Severity'.

The 'Microscopic Findings by Incident' table lists the frequency of observations per group and sex as percentage of the affected animals per group.

The 'Microscopic Findings by Severity' table lists the severity of observations per group and sex (for severity grading see section 'Explanation of Codes and Symbols').

The 'Tabulated Animal Data' table lists the severity of observations for individual animals.

The 'Individual Animal Data' table comprises the animal data, the macroscopic observations and all microscopic observations of each animal.

The slides were evaluated in April, May and June 2020.

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## RESULTS AND CONCLUSION

### Mortality

#### Main study / Recovery period

None of the male and female animals of groups 1 to 7 died or had to be sacrificed prematurely.

### Macroscopic findings

BNT162a1 - Groups 2 and 3, BNT162b1 - Groups 4 and 5, BNT162c1 - Group 6, and BNT162b2 - Group 7

#### Terminal sacrifice

Test item-related macroscopic findings at the end of dosing included injection site findings and increased spleen and draining lymph node (iliac) size. Increased spleen size correlated with increased absolute spleen weights and spleen:body weight ratios.

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Text table 1: Incidences of test item-related macroscopic findings for the animals treated with BNT162a1

Incidences of test item-related macroscopic findings in male and female main study animals at necropsy at terminal sacrifice on test day 17				
Organ / Finding	BNT162a1			
	Group 3: 10 µg/animal		Group 2: 30 µg/animal	
	Males	Females	Males	Females
<u>External observation:</u> - Injection site I and/or II thickened / indurated / (skin) incrusted	3/10	1/10	5/10	5/10
<u>Injection site I (left):</u> - Muscle(s) indurated / muscles thickened / indurated	7/10	8/10	10/10	10/10
<u>Spleen:</u> - Enlarged	5/10	2/10	2/10	4/10
<u>Lymph node (iliac):</u> - Enlarged	4/10	3/10	1/10	1/10

.../... number of animals affected per number of animals examined

Text table 2: Incidences of test item-related macroscopic findings for the animals treated with BNT162b1

Incidences of test item-related macroscopic findings in male and female main study animals at necropsy at terminal sacrifice on test day 17				
Organ / Finding	BNT162b1			
	Group 4: 30 µg/animal		Group 5: 100 µg/animal	
	Males	Females	Males	Females
<u>External observation:</u> - Injection site I and/or II thickened	0/10	0/10	1/10	1/10
<u>Injection site I and/or II (left/right):</u> - Muscle(s) indurated / muscles thickened / indurated / enlarged	7/10	6/10	7/10	6/10
<u>Spleen:</u> - Enlarged	1/10	1/10	5/10	7/10
<u>Lymph node (iliac or renal, left):</u> - Enlarged	6/10	4/10	7/10	8/10

.../... number of animals affected per number of animals examined

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Text table 3: Incidences of test item-related macroscopic findings for the animals treated with BNT162c1 or BNT162b2

Incidences of test item-related macroscopic findings in male and female main study animals at necropsy at terminal sacrifice on test day 10 (group 6) or test day 17 (group 7)				
Organ / Finding	BNT162c1		BNT162b2	
	Group 6: 30 µg/animal		Group 7: 100 µg/animal	
	Males	Females	Males	Females
<u>External observation:</u>				
- Injection site I and/or II thickened and/or incrusted	9/10	9/10	1/10	1/10
<u>Injection site I and/or II (left/right):</u>				
- Muscle(s) indurated or jellied / thickened / indurated / enlarged	10/10	10/10	7/10	9/10
<u>Spleen:</u>				
- Enlarged	5/10	1/10	2/10	7/10
<u>Lymph node (iliac or iliac/renal):</u>				
- Enlarged	1/10	2/10	5/10	6/10
<u>Sciatic nerve (left):</u>				
- adhered to injection site I	0/10	0/10	0/10	3/10

.../... number of animals affected per number of animals examined

#### Recovery sacrifice

All macroscopic findings noted at the injection sites and for the spleen had subsided in all animals of all previously test item-treated groups at the end of the recovery period (test day 31 for group 6, test day 38 for all other groups)

Enlarged iliac lymph nodes were still noted for a few animals as follows:

Group 4 (30 µg BNT162b1/animal): One of 5 females

Group 5 (100 µg BNT162b1/animal): All 5 males, 2 of 5 females

Group 7 (100 µg BNT162b2/animal): One of 5 males, 3 of 5 females

These findings are regarded to be related to the previous test item treatment.

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Further findings in form of emphysematous lungs, a reddened thymus, an enlarged right testis, a dilated uterus, in some cases filled with clear liquid, a prostate and seminal vesicles that were reduced in size, and enlarged adrenals were noted for individual male and female animals in the test item-treated groups and the control group at terminal sacrifice or at recovery sacrifice. Due to the isolated occurrence per finding, all of these findings are considered as spontaneous changes that are not test item-related.

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**Microscopic findings****Terminal sacrifice**

Test item-related microscopic findings at the end of dosing included inflammation at the injection site and surrounding tissues, increased cellularity of germinal centers and increased plasma cells in the draining (iliac) lymph node, increased cellularity (hematopoiesis) in the bone marrow and spleen, and vacuolation of hepatocytes in the portal regions. All microscopic findings were partially or fully recovered at the end of the 3 week recovery phase.

Test item-related injection site reactions were present in all groups and characterized by mostly moderate inflammation (up to marked) in males and moderate inflammation in females. The most severe findings were noted consistently in animals administered 100 µg BNT162b1/animal and 100 µg BNT162b2/animal, followed by animals administered 30 µg BNT162a1/animal. The inflammation was characterized by infiltrates of macrophages, granulocytes, and lymphocytes into the muscle, and variably into the dermis and subcutis, at the injection site. Injection site inflammation was associated with mostly moderate edema, mostly mild myofiber degeneration, occasional muscle necrosis, and mostly mild fibrosis. Skin ulceration (mild and moderate) was identified in some males and females administered either 10 or 30 µg BNT162a1/animal and one animal administered 30 µg BNT162c1/animal. Injection site findings were partially recovered at the end of the 3-week recovery phase. Inflammation extended into tissues adjacent to the injection site, including mammary tissue, perineural tissue of sciatic nerve, tissue around the femur / knee and to the draining lymph node (iliac). These findings were mostly recovered at the end of the 3-week recovery phase.

Test item-related findings in the draining (iliac) lymph node were characterized by increased cellularity of the follicular germinal centers and increased plasma cells (plasmacytosis) and were variably present in all groups.

Test item-related minimal to mild increases in the cellularity of bone marrow and extramedullary hematopoiesis in the spleen were present in all groups.

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A test item-related vacuolation of hepatocytes in the portal regions of the liver was present in all groups.

A few minor microscopic changes were recorded for the organs examined in this study. The type, incidence and severity of all microscopic findings observed did not indicate any relationship to the treatment with the test item. All changes are regarded to be spontaneous in nature being within the normal background pathology commonly seen in rats of this strain and age.

Test item-related findings were noted for all test items and all dose levels in male and female animals as given in the text tables following on the next pages.

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Text table 4: Incidences of test item-related microscopic findings for the animals treated with BNT162a1

Incidences of test item-related microscopic findings in male and female main study animals after terminal sacrifice on test day 17				
Organ / Finding	BNT162a1			
	Group 3: 10 µg/animal	Group 2: 30 µg/animal		
	Males	Females	Males	Females
<u>Bone marrow:</u>				
- Increased cellularity	10/10**	10/10**	10/10**	10/10**
<u>Injection site I (left):</u>				
- Fibrosis intramuscular/interstitial	10/10**	10/10**	10/10**	10/10**
- Fibrosis inter-/perimuscular	10/10**	10/10**	10/10**	10/10**
- Inflammation, mixed.	10/10**	10/10**	10/10**	10/10**
- Myofiber degeneration	9/10**	9/10**	9/10**	9/10**
- Edema, subcutis	10/10**	9/10**	6/10*	10/10**
- Edema intramuscular/interstitial	7/10**	8/10**	2/10	10/10**
- Edema inter-/ perimuscular	10/10**	10/10**	7/10**	10/10**
- Hyperplasia, epidermis	9/10**	7/10**	10/10**	9/10**
<u>Surrounding tissue of injection sites:</u>				
Perineural tissue of sciatic nerve:				
- Inflammation (perineural)	0/10	1/10	3/10	0/10
Bone, os femoris with joint (surrounding tissue):				
- Inflammation	0/10	1/10	0/10	1/10
Mammary gland (Interstitial tissue):				
- Inflammation	0/10	3/10	0/10	0/10
<u>Lymph node (iliac):</u>				
- Plasmacytosis	7/10**	7/10**	5/10*	3/10
- Inflammation	0/10	3/10	5/10*	6/10*
- Increased cellularity, germinal center	9/10	10/10**	9/10	8/10
<u>Spleen:</u>				
- Increased haematopoiesis	3/10	2/10	0/10	0/10
Liver				
- Vacuolation, hepatocellular, periportal	1/10	6/10*	1/10	10/10**

.../... number of animals affected per number of animals examined

\* significantly different from control ( $p \leq 0.05$ )

\*\* significantly different from control ( $p \leq 0.01$ )

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Text table 5: Incidences of test item-related microscopic findings for the animals treated with BNT162b1

Incidences of test item-related microscopic findings in male and female main study animals after terminal sacrifice on test day 17				
Organ / Finding	BNT162b1			
	Group 4: 30 µg/animal	Group 5: 100 µg/animal		
	Males	Females	Males	Females
<u>Bone marrow:</u>				
- Increased cellularity	10/10**	10/10**	10/10**	10/10**
<u>Injection site I and/or II (left/right):</u>				
- Fibrosis intramuscular/interstitial	9/10**	10/10**	10/10**	10/10**
- Fibrosis inter-/perimuscular	9/10**	10/10**	10/10**	10/10**
- Inflammation, mixed.	10/10**	10/10**	10/10**	10/10**
- Myofiber degeneration	9/10**	10/10**	10/10**	10/10**
- Edema, subcutis	9/10**	10/10**	10/10**	10/10**
- Edema intramuscular/interstitial	8/10**	9/10**	10/10**	10/10**
- Edema inter-/ perimuscular	10/10**	10/10**	10/10**	10/10**
- Hyperplasia, epidermis	9/10**	8/10**	10/10**	10/10**
<u>Surrounding tissue of injection sites:</u>				
Perineural tissue of sciatic nerve:				
- Inflammation (perineural)	1/10	4/10	7/10**	10/10**
Bone, os femoris with joint (surrounding tissue):				
- Inflammation	0/10	0/10	4/10	6/10*
Mammary gland (Interstitial tissue):				
- Inflammation	0/10	0/10	2/10	1/10
<u>Lymph node (iliac):</u>				
- Plasmacytosis	9/10**	8/10**	8/10**	10/10**
- Inflammation	0/10	0/10	5/10*	8/9**
- Increased cellularity, geminal center	10/10	8/10	10/10	10/10**
<u>Spleen:</u>				
- Increased haematopoiesis	0/10	0/10	2/10	7/10**
Liver				
- Vacuolation, hepatocellular, periportal	0/10	10/10**	8/10**	10/10**

.../... number of animals affected per number of animals examined

\* significantly different from control ( $p \leq 0.05$ )

\*\* significantly different from control ( $p \leq 0.01$ )

## HISTOPATHOLOGY REPORT

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(b) (4) Study No. 38166

Repeat-Dose Toxicity Study of  
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Text table 6: Incidences of test item-related microscopic findings for the animals treated with BNT162c1 and BNT162b2

Incidences of test item-related microscopic findings in male and female main study animals after terminal sacrifice on test day 10 (group 6) or test day 17 (group 7)				
Organ / Finding	BNT162c1		BNT162b2	
	Group 6: 30 µg/animal		Group 7: 100 µg/animal	
	Males	Females	Males	Females
<u>Bone marrow:</u>				
- Increased cellularity	10/10**	10/10**	10/10**	10/10**
<u>Injection site I and/or II (left/right):</u>				
- Fibrosis intramuscular/interstitial	9/10**	10/10**	10/10**	10/10**
- Fibrosis inter-/perimuscular	9/10**	10/10**	10/10**	10/10**
- Inflammation, mixed	9/10**	10/10**	10/10**	10/10**
- Myofiber degeneration	8/10**	9/10**	10/10**	10/10**
- Edema, subcutis	9/10**	10/10**	10/10**	10/10**
- Edema intramuscular/interstitial	9/10**	10/10**	10/10**	10/10**
- Edema inter-/ perimuscular	9/10**	10/10**	10/10**	10/10**
- Hyperplasia, epidermis	9/10**	10/10**	9/10**	10/10**
<u>Surrounding tissue of injection sites:</u>				
Perineural tissue of sciatic nerve:				
- Inflammation (perineural)	0/10	0/10	10/10**	10/10**
Bone, os femoris with joint (surrounding tissue):				
- Inflammation	0/10	0/10	2/10	9/10**
Mammary gland (Interstitial tissue):				
- Inflammation	0/10	4/10	2/10	0/10
<u>Lymph node (iliac):</u>				
- Plasmacytosis	6/10*	7/10**	10/10**	10/10**
- Inflammation	4/10	7/10**	9/10**	6/10*
- Increased cellularity, germinal center	10/10	10/10**	10/10	10/10**
<u>Skeletal muscle:</u>				
- Infiltration, lymphohistiogranulocyt.	0/10	0/10	5/10*	0/10
<u>Spleen:</u>				
- Increased haematopoiesis	0/10	0/10	2/10	8/10**
<u>Liver</u>				
- Vacuolation, hepatocellular, periportal	1/10	10/10**	9/10**	10/10**

.../... number of animals affected per number of animals examined

\* significantly different from control ( $p \leq 0.05$ )

\*\* significantly different from control ( $p \leq 0.01$ )

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**Recovery sacrifice**

Most of the microscopic findings noted at the injection sites, iliac lymph node, surrounding tissue of the injection sites (surrounding tissue of bone, os femoris with joint; perineural tissue of sciatic nerve; interstitial tissue of mammary gland; skeletal muscle) and spleen had subsided in all animals of all previously test item-treated groups at the end of the recovery period (test day 31 for group 6, test day 38 for all other groups). Some inflammatory lesions were still noted at the injection sites and the surrounding tissue of some animals.

Test item-related minimal to mild increases in the cellularity of bone marrow and extramedullary hematopoiesis in the spleen were fully recovered at the end of the 3-week recovery phase.

Test item-related vacuolation of hepatocytes in the portal regions of the liver was fully recovered at the end of the 3-week recovery phase.

The incidence and the severity of the remaining findings were markedly reduced compared to the main study animals.

The infiltration of macrophages in the iliac lymph nodes of previously treated recovery animals were regarded as consequence of phagocytosis relating to the inflammatory reactions at the injection sites.

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**Discussion synopsis**

Injection site inflammation, as well as inflammation in the adjacent tissues, was an anticipated response to an immune response to the administered test article. Inflammation was generally most severe in animals administered 100 µg of either BNT162b1 or BNT162b2/animal at the end of dosing, followed by 30 µg BNT162a1/animal. Ulceration at the injection site was present only in rats administered BNT162a1. The inflammation was partially or fully resolved at the end of the recovery phase, indicating reversibility.

Increased cellularity of the germinal centers of the draining (iliac) lymph node and plasmacytosis is consistent with the anticipated immune activation by the test articles and inflammation at the injection site.

Increases in bone marrow cellularity (increased hematopoiesis) and extramedullary hematopoiesis in the spleen are consistent with a response to inflammation and immune responses induced by the test article.

Test item-related vacuolation of portal hepatocytes was present in all groups. The vacuolation was unassociated with markers of hepatocyte damage (i.e. ALAT, ASAT) and has been reported in animals administered pegylated compounds. The findings were fully reversed at the end of the recovery phase.

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**EXPLANATION OF CODES AND SYMBOLS****Tissue Result**

- N tissue within normal histological limits
- . not recorded
- + tissue observation present
- X not examined

**Grade**

- . not recorded
- 1 minimal
- 2 mild
- 3 moderate
- 4 marked
- # different severities recorded, e.g. for the two parts of a paired organ
- P present - no grade or classification

**Symbols**

- % per cent
- \*
- \*\* statistically significant (at  $p \leq 0.05$ , exact test of R. A. FISHER)
- \*\* statistically significant (at  $p \leq 0.01$ , exact test of R. A. FISHER)
- TGL trackable gross lesion

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**TABLES**

## HISTOPATHOLOGY REPORT

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(b) Study No.: 38166 Repeat-Dose Toxicity Study  
 (4) Microscopic Findings by Incidence

MALES										FEMALES											
Observations: Neo-Plastic and Non Neo-Plastic										Observations: Neo-Plastic and Non Neo-Plastic											
Removal Reasons: All of those SELECTED		Group 1: Control		Group 2: 30 µg/ day		Group 3: 10 µg/ day		Group 4: 30 µg/ day		Group 5: 100 µg/ day		Group 6: 300 µg/ day		Group 7: 1000 µg/ day		Group 1: Control		Group 2: 30 µg/ day		Group 3: 100 µg/ day	
Number of Animals on Study :	Number of Animals Completed:	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
ADRENAL GLAND, LEFT;		(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)		
Examined.....		86.7%	73.3%	66.7%	73.3%	80.0%	86.7%	73.3%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	93.3%	86.7%	86.7%	80.0%		
Within Normal Limits.....		13.3%	26.7%	33.3%	26.7%	20.0%	13.3%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	6.7%	13.3%	20.0%	0.0%		
Dilation; vascular .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
Hyper trophy; cortical .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
Vacuolation; cortical .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
Infiltration, Lymphocytic .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
ADRENAL GLAND, RIGHT;		(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)		
Examined.....		86.7%	80.0%	80.0%	100.0%	80.0%	86.7%	73.3%	86.7%	86.7%	86.7%	86.7%	86.7%	86.7%	86.7%	100.0%	93.3%	86.7%	100.0%		
Within Normal Limits.....		13.3%	20.0%	20.0%	0.0%	20.0%	13.3%	20.0%	13.3%	13.3%	13.3%	13.3%	13.3%	13.3%	13.3%	0.0%	6.7%	0.0%	0.0%		
Dilation; vascular .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
Hyper trophy; cortical .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
Vacuolation .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
AORTA ABDOMINALIS;		(15)	(14)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)		
Examined.....		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		
Within Normal Limits.....		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		
BONE, OS FEMORIS WITH JOINT;		(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)		
Examined.....		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		
Within Normal Limits.....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
Inflammation; mixed; surrounding tissue .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
Infiltration, Lymphocytic; surrounding tissue .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
Infiltration; lymphohistiocytic; surrounding tissue .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
BONE MARROW, OS FEMORIS WITH JOINT;		(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)		
Examined.....		100.0%	33.3%	33.3%	33.3%	33.3%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	33.3%	33.3%	33.3%		
Within Normal Limits.....		0.0%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%		
Increased Cellularity .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

MALES														FEMALES																	
Observations: Neo-Plastic and Non Neo-Plastic														Observations: Neo-Plastic and Non Neo-Plastic																	
Removal Reasons: All of those SELECTED														Removal Reasons: All of those SELECTED																	
Number of Animals on Study :	15	15	15	15	15	15	15	15	15	15	15	15	15	Control	30 µg / 10 µg / 30 µg / 100 µg /	Control	30 µg / 10 µg / 30 µg / 100 µg /	Group 1:	Group 2:	Group 3:	Group 4:	Group 5:	Group 6:	Group 7:	Group 1:	Group 2:	Group 3:	Group 4:	Group 5:	Group 6:	Group 7:
Number of Animals Completed:	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)		
BONE, STERNUM;																															
Examined.....	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)		
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		
Infiltration; mixed; surrounding tissue;																															
muscle .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
BRAIN, BRAIN STEM;																															
Examined.....	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)		
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		
BRAIN, CEREBELLUM;																															
Examined.....	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)		
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		
CERVIX;																															
Examined.....	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)		
Within Normal Limits.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Keratinization; epithelial .....																															
Cyst; keratinized .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
EPIDIDYMIS, LEFT;																															
Examined.....	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)		
Within Normal Limits.....	26.7%	13.3%	13.3%	55.3%	33.3%	33.3%	33.3%	33.3%	33.3%	33.3%	33.3%	33.3%	33.3%	33.3%	33.3%	33.3%	33.3%	33.3%	33.3%	33.3%	33.3%	33.3%	33.3%	33.3%	33.3%	33.3%	33.3%	33.3%	33.3%		
Infiltration, Lymphocytic .....																															
EPIDIDYMIS, RIGHT;																															
Examined.....	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)		
Within Normal Limits.....	33.3%	13.3%	20.0%	33.3%	26.7%	60.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%		
Infiltration, Lymphocytic .....																															

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

MALES										FEMALES												
Observations: Neo-Plastic and Non Neo-Plastic										Microscopic Findings by Incidence												
Removal Reasons: All of those SELECTED	Group 1: Control	Group 2: 30 µg/15	Group 3: 10 µg/15	Group 4: 30 µg/15	Group 5: 100 µg/15	Group 6: 30 µg/15	Group 7: 100 µg/15	Group 1: Control	Group 2: 30 µg/15	Group 3: 10 µg/15	Group 4: 30 µg/15	Group 5: 100 µg/15	Group 6: 30 µg/15	Group 7: 100 µg/15	Group 1: Control	Group 2: 30 µg/15	Group 3: 10 µg/15	Group 4: 30 µg/15	Group 5: 100 µg/15	Group 6: 30 µg/15	Group 7: 100 µg/15	
Number of Animals on Study :	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	
Number of Animals Completed:	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	
EPIIDYMIS, RIGHT; (continued)	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Infiltration; mixed .....	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Oligospermia .....																						
ESOPHAGUS;																						
Examined.....	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
EYE, LEFT;																						
Examined.....	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Pigmentation; brown; macrophage .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
EYE, RIGHT;																						
Examined.....	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
HARDERIAN GLAND, LEFT;																						
Examined.....	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	
Within Normal Limits.....	93.3%	100.0%	100.0%	86.7%	93.3%	100.0%	93.3%	93.3%	80.0%	93.3%	80.0%	93.3%	80.0%	93.3%	80.0%	93.3%	86.7%	93.3%	86.7%	93.3%	93.3%	
Infiltation; Lymphocytic .....	6.7%	0.0%	0.0%	13.3%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	13.3%	6.7%	6.7%	6.7%	6.7%	
Infiltation; lymphohistiocytic .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Infiltation; mixed .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Pigmentation; brown; macrophage .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Inflammation; granulomatous .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Inflammation; purulent .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Inflammation; Chronic .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
HARDERIAN GLAND, RIGHT;																						
Examined.....	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	
Within Normal Limits.....	86.7%	93.3%	93.3%	100.0%	86.7%	80.0%	100.0%	93.3%	93.3%	93.3%	93.3%	93.3%	93.3%	93.3%	93.3%	86.7%	100.0%	100.0%	93.3%	93.3%	93.3%	
Infiltation; Lymphocytic .....	13.3%	6.7%	0.0%	0.0%	13.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%
Necrosis .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Infiltation; lymphohistiocytic .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Infiltation; mixed .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

MALES							FEMALES						
Observations: Neo-Plastic and Non Neo-Plastic		Group 1: Control		Group 2: 30 µg/ day		Group 3: 10 µg/ day		Group 4: 30 µg/ day		Group 5: 100 µg/ day		Group 6: 300 µg/ day	
Number of Animals on Study:	15	15	15	15	15	15	15	15	15	15	15	15	15
Number of Animals Completed:	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)
HARDERIAN GLAND, RIGHT; (continued)													
Inflammation, Chronic . . . . .	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%
HEART;													
Examined.....	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)
Within Normal Limits.....	100.0%	80.0%	86.7%	80.0%	93.3%	100.0%	86.7%	100.0%	86.7%	93.3%	93.3%	95.3%	100.0%
Fibrosis; intramuscular / interstitial .....	0.0%	66.7%	86.7%	6.7%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%
Fibrosis; inter- / perimuscular .....	0.0%	100.0%	100.0%	93.3%	100.0%	66.7%	100.0%	0.0%	100.0%	100.0%	100.0%	100.0%	93.3%
Hemorrhage .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	6.7%	0.0%
Hemorrhage; subacute .....	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Inflammation; granulomatous .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%
Inflammation; lymphocytic; inter- / perimuscular .....	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Inflammation; lymphohistiocytic .....	40.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%
Inflammation; lymphohistiocytic; dermis; subcutis .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%
Inflammation; lymphohistiocytic; inter- / intramuscular / interstitial .....	0.0%	13.3%	13.3%	33.3%	26.7%	0.0%	20.0%	0.0%	26.7%	6.7%	26.7%	6.7%	0.0%
Inflammation; lymphohistiocytic; inter- / perimuscular .....	0.0%	33.3%	26.7%	33.3%	33.3%	6.7%	33.3%	0.0%	26.7%	20.0%	33.3%	26.7%	20.0%
Inflammation; neutrophilic; dermis; epidermis .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%
Inflammation; plasmacytic; perivascular .....	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Inflammation; vascular .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%
Inflammation; mixed .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%
Inflammation; mixed; subcutis .....	0.0%	66.7%	66.7%	66.7%	66.7%	60.0%	66.7%	0.0%	66.7%	66.7%	66.7%	66.7%	66.7%
Inflammation; mixed; intramuscular / interstitial .....	0.0%	60.0%	66.7%	66.7%	60.0%	60.0%	66.7%	0.0%	66.7%	66.7%	66.7%	66.7%	66.7%

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

Observations: Neo-Plastic and Non Neo-Plastic										MALES										FEMALES														
										Group 1: Control					Group 2: 30 µg/					Group 3: 10 µg/					Group 4: 30 µg/					Group 5: 100 µg/				
Number of Animals on Study:		15	15	15	15	15	15	15	15	Control		30 µg/		10 µg/		100 µg/		30 µg/		10 µg/		100 µg/		30 µg/		100 µg/		300 µg/		1000 µg/				
Number of Animals Completed:		(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)		(15)		(15)		(15)		(15)		(15)		(15)		(15)		(15)		(15)						
INJECTION SITE I; (continued)																																		
Inflammation; mixed; inter- / perimuscular																																		
Mineralosis; myofiber	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%															
Necrosis; demis; subcutis	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%															
Ulceration; epidermis	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%															
Degeneration; myofiber	6.7%	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%															
Regeneration; muscle	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%															
Foreign Material; hair	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%															
Edema; subcutis	0.0%	40.0%	66.7%	60.0%	53.3%	60.0%	66.7%	0.0%	66.7%	60.0%	66.7%	53.3%	60.0%	66.7%	60.0%	66.7%	66.7%	66.7%	66.7%															
Edema; intramuscular	0.0%	13.3%	46.7%	53.3%	53.3%	60.0%	66.7%	0.0%	66.7%	60.0%	66.7%	60.0%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%															
Edema; inter- / perimuscular	0.0%	46.7%	66.7%	66.7%	66.7%	66.7%	66.7%	0.0%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%															
Hyperplasia; epidermal	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%															
Hyperplasia; epidermal	0.0%	60.0%	60.0%	60.0%	66.7%	60.0%	60.0%	0.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%															
Scab; epidermal	0.0%	0.0%	6.7%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%															
Pustule; epidermal	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%															
Multinucleated Macrophages inter- / perimuscular	0.0%	0.0%	13.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%															
INJECTION SITE II;																																		
Examined	(15)	(5)	(0)	(0)	(15)	(0)	(0)	(15)	(0)	(15)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)															
Within Normal Limits	66.7%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	66.7%	0.0%	66.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%															
Degeneration; myofiber	0.0%	60.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	66.7%	6.7%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%															
Regeneration; muscle	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	66.7%	0.0%	66.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%															
Hyperplasia; epidermal	0.0%	80.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	66.7%	0.0%	46.7%	0.0%	0.0%	0.0%	0.0%	0.0%	66.7%	0.0%															
Scar; epidermal	0.0%	40.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	66.7%	0.0%	66.7%	0.0%	0.0%	0.0%	0.0%	0.0%	66.7%	0.0%															
Edema; subcutis	0.0%	60.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	66.7%	0.0%	66.7%	0.0%	0.0%	0.0%	0.0%	0.0%	66.7%	0.0%															
Edema; inter- / perimuscular	0.0%	40.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	66.7%	0.0%	66.7%	0.0%	0.0%	0.0%	0.0%	0.0%	66.7%	0.0%															
Edema; intramuscular	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	66.7%	0.0%	66.7%	0.0%	0.0%	0.0%	0.0%	0.0%	66.7%	0.0%															
Necrosis; myofiber	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	66.7%	0.0%	66.7%	0.0%	0.0%	0.0%	0.0%	0.0%	66.7%	0.0%															
Necrosis; demis	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	66.7%	0.0%	66.7%	0.0%	0.0%	0.0%	0.0%	0.0%	66.7%	0.0%															
Necrosis; traumatic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	66.7%	0.0%	66.7%	0.0%	0.0%	0.0%	0.0%	0.0%	66.7%	0.0%															
Fibrosis; subcutis	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	66.7%	0.0%	66.7%	0.0%	0.0%	0.0%	0.0%	0.0%	66.7%	0.0%															
Fibrosis; inter- / perimuscular	0.0%	60.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	93.3%	0.0%															

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Microscopic Findings by Incidence

## HISTOPATHOLOGY REPORT

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Observations: Neo-Plastic and Non Neo-Plastic										MALES										FEMALES									
		Group 1: Control		Group 2: 30 µg/15		Group 3: 10 µg/15		Group 4: 30 µg/15		Group 5: 100 µg/15		Group 6: 300 µg/15		Group 7: 1000 µg/15		Group 1: Control		Group 2: 30 µg/15		Group 3: 100 µg/15		Group 4: 300 µg/15		Group 5: 1000 µg/15		Group 6: 3000 µg/15			
Removal Reasons: All of those SELECTED		Number of Animals on Study:		Number of Animals Completed:																									
		(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)					
INJECTION SITE II; (continued)																													
Fibrosis; intramuscular / interstitial ..	0.0%	60.0%	0.0%	0.0%	93.3%	0.0%	86.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%						
Fibrosis; dermis; subcutis .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%						
Ulceration; epidermal .....	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%						
Hemorrhage .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%						
Inflammation; lymphohistiocytic .....	26.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%						
Inflammation; lymphohistiocytic; inter- / perimuscular .....	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	0.0%	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%						
Inflammation; lymphohistiocytic; intramuscular / interstitial .....	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	0.0%	26.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%						
Inflammation; mixed .....	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%						
Inflammation; mixed; subcutis .....	0.0%	80.0%	0.0%	0.0%	66.7%	0.0%	66.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%						
Inflammation; mixed; inter- / perimuscular .....	0.0%	80.0%	0.0%	0.0%	66.7%	0.0%	66.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%						
Inflammation; mixed; intramuscular / interstitial .....	0.0%	80.0%	0.0%	0.0%	66.7%	0.0%	66.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%						
INTESTINE, CECUM;																													
Examined.....	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)						
Within Normal Limits.....	93.3%	100.0%	86.7%	80.0%	100.0%	100.0%	100.0%	93.3%	93.3%	93.3%	93.3%	93.3%	93.3%	93.3%	93.3%	93.3%	93.3%	93.3%	93.3%	93.3%	93.3%	93.3%	93.3%						
Hyperplasia; mucosa-associated lymphoid tissue .....	6.7%	0.0%	0.0%	13.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%						
Infiltration, Eosinophilic; increased .....	0.0%	6.7%	40.0%	13.3%	20.0%	20.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%						
INTESTINE, COLON;																													
Examined.....	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)						
Within Normal Limits.....	93.3%	60.0%	86.7%	66.7%	80.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%						
Hyperplasia; mucosa-associated lymphoid tissue .....	6.7%	40.0%	0.0%	6.7%	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%						
Infiltration, Eosinophilic; increased .....	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%						
INTESTINE, DUODENUM;																													
Examined.....	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)						
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%						

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## **Microscopic Findings by Incidence**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Microscopic Findings by Incidence

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Observations: Neo-Plastic and Non Neo-Plastic										MALES										FEMALES																	
Number of Animals on Study:										Group 1: Control		Group 2: 30 µg/10 µg/15		Group 3: 30 µg/100 µg/15		Group 4: 30 µg/100 µg/15		Group 5: 30 µg/100 µg/15		Group 6: 30 µg/100 µg/15		Group 7: 30 µg/100 µg/15		Group 2: Control		Group 1: 30 µg/15		Group 3: 30 µg/15		Group 4: 30 µg/15		Group 5: 30 µg/15		Group 6: 30 µg/15		Group 7: 30 µg/15	
Number of Animals Completed:										(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)									
KIDNEY, RIGHT; (continued)										0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	6.7%	6.7%	13.3%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%									
Cast; hyaline; tubule .....										0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%									
Mineralization .....										0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%									
Dilation; tubule .....										0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%									
Infiltration, Neutrophilic subcapsular .....										0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%									
Pyelonephritis .....										0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%									
Inflammation, Chronic; interstitial .....										0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%									
LACRIMAL GLAND, LEFT;										(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)									
Examined.....										100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%									
Within Normal Limits.....										100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%									
LACRIMAL GLAND, RIGHT;										(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)									
Examined.....										100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%									
Within Normal Limits.....										100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%									
LIVER;										(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)									
Examined.....										6.7%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%							
Within Normal Limits.....										93.3%	93.3%	100.0%	100.0%	93.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%								
Congestion .....										26.7%	13.3%	0.0%	0.0%	20.0%	0.0%	20.0%	0.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%								
Hematopoeisis; extramedullary .....										6.7%	0.0%	0.0%	0.0%	13.3%	0.0%	13.3%	0.0%	13.3%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%							
Infiltration; mixed .....										6.7%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%							
Necrosis .....										6.7%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%							
Infiltration, Neutrophilic .....										6.7%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%							
Infiltration, Lymphocytic .....										33.3%	66.7%	53.3%	40.0%	13.3%	33.3%	60.0%	26.7%	46.7%	40.0%	13.3%	33.3%	33.3%	33.3%	33.3%	33.3%	33.3%	33.3%	33.3%	33.3%	33.3%							
Vacuolation; hepatocellular .....										6.7%	0.0%	13.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%							
Periportal .....										6.7%	0.0%	53.3%	6.7%	60.0%	0.0%	0.0%	66.7%	40.0%	66.7%	60.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%							
Infiltration, Eosinophilic .....										0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%						
Pigmentation; brown; kupffer cell .....										0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%					
LUNGS WITH BRONCHI;										(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)					
Examined.....										26.7%	40.0%	20.0%	33.3%	33.3%	0.0%	0.0%	46.7%	73.3%	53.3%	60.0%	33.3%	40.0%	66.7%	26.7%	66.7%	73.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%					
Within Normal Limits.....										6.7%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	6.7%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				
Ossification .....										0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Microscopic Findings by Incidence

MALES														FEMALES														
Observations: Neo-Plastic and Non Neo-Plastic														Observations: Neo-Plastic and Non Neo-Plastic														
Removal Reasons: All of those SELECTED		Group 1: Control		Group 2: 30 µg/		Group 3: 10 µg/		Group 4: 30 µg/		Group 5: 100 µg/		Group 6: 300 µg/		Group 7: 1000 µg/		Group 2: Control		Group 3: 30 µg/		Group 4: 100 µg/		Group 5: 300 µg/		Group 6: 1000 µg/				
Number of Animals on Study :	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15		
Number of Animals Completed:	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)		
LUNGS WITH BRONCHI; (continued)																												
Hemorrhage; acute .....	26.7%	20.0%	33.3%	33.3%	20.0%	26.7%	33.3%	6.7%	13.3%	26.7%	26.7%	46.7%	26.7%	26.7%	6.7%	6.7%	6.7%	6.7%	6.7%	6.7%	33.3%	33.3%	33.3%	33.3%	33.3%	33.3%	33.3%	
Hyperplasia; bronchial-associated lymphoid tissue .....	46.7%	60.0%	33.3%	60.0%	40.0%	40.0%	20.0%	6.7%	6.7%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	13.3%	26.7%	13.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
Infiltration, Eosinophilic; perivascular .....	20.0%	6.7%	6.7%	13.3%	20.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Infiltration; foamy; macrophage; alveolus .....	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Infiltration; lymphohistiocytic .....	0.0%	0.0%	6.7%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Infiltration; mixed .....	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Pigmentation; brown; macrophage .....	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
LYMPH NODE, CERVICAL;																												
Examined.....	(13)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	
Within Normal Limits .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Histiocytosis .....	100.0%	93.3%	86.7%	100.0%	93.3%	86.7%	100.0%	93.3%	86.7%	93.3%	86.7%	93.3%	86.7%	93.3%	86.7%	100.0%	93.3%	100.0%	93.3%	100.0%	93.3%	100.0%	93.3%	100.0%	93.3%	100.0%		
Erythrophagocytosis .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Pigmentation; brown; macrophage .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Hemorrhage .....	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Plasmacytosis .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Increased Cellularity; germinal center ..	100.0%	100.0%	93.3%	100.0%	93.3%	100.0%	100.0%	93.3%	100.0%	100.0%	93.3%	100.0%	93.3%	100.0%	93.3%	86.7%	100.0%	93.3%	100.0%	93.3%	100.0%	93.3%	100.0%	93.3%	100.0%	93.3%		
LYMPH NODE, ILIAC;																												
Examined.....	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	
Within Normal Limits .....	0.0%	93.3%	100.0%	93.3%	100.0%	93.3%	100.0%	93.3%	100.0%	93.3%	100.0%	93.3%	100.0%	93.3%	100.0%	93.3%	73.3%	100.0%	93.3%	100.0%	93.3%	100.0%	93.3%	100.0%	93.3%	100.0%	93.3%	
Histiocytosis .....	33.3%	46.7%	0.0%	0.0%	0.0%	0.0%	0.0%	73.3%	73.3%	73.3%	40.0%	0.0%	0.0%	0.0%	0.0%	40.0%	66.7%	73.3%	100.0%	55.3%	100.0%	55.3%	100.0%	55.3%	100.0%	55.3%	100.0%	
Plasmacytosis .....	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Infiltration, Eosinophilic .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Hemorrhage; acute .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Inflammation .....	0.0%	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	26.7%	60.0%	40.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.0%	33.3%	0.0%	20.0%	50.0%	0.0%	46.7%	42.9%	0.0%	46.7%	42.9%	
Infiltration; macrophage .....	0.0%	0.0%	6.7%	6.7%	0.0%	0.0%	0.0%	20.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Increased Cellularity; germinal center ..	86.7%	93.3%	100.0%	93.3%	100.0%	93.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	46.7%	86.7%	100.0%	86.7%	100.0%	93.3%	100.0%	93.3%	100.0%	93.3%	100.0%	93.3%	

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Microscopic Findings by Incidence

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MALES										FEMALES									
Observations: Neo-Plastic and Non Neo-Plastic										Observations: Neo-Plastic and Non Neo-Plastic									
<b>Removal Reasons: All of those SELECTED</b>																			
Number of Animals on Study :	15	15	15	15	15	15	15	15	15	Control	30 µg/	10 µg/	30 µg/	100 µg/	30 µg/	10 µg/	30 µg/	100 µg/	30 µg/
Number of Animals Completed:	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)										
LYMPH NODE, MESENTERIC;																			
Examined.....	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)										
Within Normal Limits.....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%										
Erythrophagocytosis .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%										
Histiocytosis .....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%										
Infiltration, Eosinophilic .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%										
Pigmentation; macrophage .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%										
Pigmentation; macrophage .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%										
Increased Cellularity; germinal center ..	93.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%										
LYMPH NODE, RENAL;																			
Examined.....	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)										
Within Normal Limits.....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%										
Histiocytosis .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%										
Pigmentation; brown; macrophage .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%										
Plasmacytosis .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%										
Increased Cellularity; germinal center ..	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%										
MAMMARY GLANDS;																			
Examined.....	(14)	(15)	(15)	(14)	(15)	(15)	(15)	(15)	(15)										
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	86.7%	73.3%	100.0%										
Inflammation; mixed; interstitium .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	13.3%	20.0%	0.0%										
Inflammation; mixed; interstitium; lymphatic .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%										
SKELETAL MUSCLE;																			
Examined.....	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)										
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	93.3%	100.0%	66.7%	93.3%	93.3%										
Infiltration; lymphohistiocytic .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%										
Infiltration; mixed .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	33.3%	0.0%										
Necrosis; myofiber .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	20.0%	0.0%										
Infiltration, Lymphocytic .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%										

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Microscopic Findings by Incidence

## HISTOPATHOLOGY REPORT

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MALES										FEMALES									
Observations: Neo-Plastic and Non Neo-Plastic										Observations: Neo-Plastic and Non Neo-Plastic									
Removal Reasons:	All of those SELECTED	Group 1: Control	30 µg/ 10 µg/ 15 µg/ 15 µg/ 15 µg/ 15 µg/ 30 µg/ 100 µg/ 100 µg/ 100 µg/ 100 µg/ 100 µg/ 100 µg/ 30 µg/ 100 µg/ 100 µg/ 100 µg/ 100 µg/ 100 µg/	Group 2: (15)	Group 3: (15)	Group 4: (15)	Group 5: (15)	Group 6: (15)	Group 7: (15)	Group 1: Control	30 µg/ 100 µg/ 15 µg/ 15 µg/ 15 µg/ 15 µg/ 30 µg/ 100 µg/ 100 µg/ 100 µg/ 100 µg/ 100 µg/ 100 µg/ 30 µg/ 100 µg/ 100 µg/ 100 µg/ 100 µg/ 100 µg/	Group 2: (15)	Group 3: (15)	Group 4: (15)	Group 5: (15)	Group 6: (15)	Group 7: (15)		
Number of Animals on Study :	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Number of Animals Completed:	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)
NERVE, SCIATIC;																			
Examined.....	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)
Within Normal Limits.....	100.0%	80.0%	100.0%	93.3%	53.3%	100.0%	20.0%	100.0%	100.0%	100.0%	86.7%	73.3%	26.7%	100.0%	26.7%	100.0%	26.7%	100.0%	26.7%
Inflammation; perineurial .....	0.0%	20.0%	0.0%	6.7%	46.7%	0.0%	80.0%	0.0%	0.0%	0.0%	0.0%	6.7%	26.7%	73.3%	0.0%	73.3%	0.0%	0.0%	0.0%
Vacuolation .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
OPTIC NERVE, LEFT;																			
Examined.....	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)
Within Normal Limits.....	93.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	86.7%	86.7%	100.0%	100.0%	93.3%	93.3%	93.3%	93.3%	93.3%
Not Examined: INSUFFICIENT TISSUE TO EVALUATE .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hemorrhage; acute .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	13.3%	0.0%	0.0%	0.0%	6.7%	6.7%	6.7%	6.7%	6.7%
Pigmentation; brown; macrophage .....	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	13.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
OPTIC NERVE, RIGHT;																			
Examined.....	(15)	(12)	(15)	(14)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)
Within Normal Limits.....	100.0%	91.7%	98.3%	92.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	92.9%	92.9%	93.3%	93.3%	100.0%	100.0%	93.3%	100.0%	93.3%
Pigmentation; brown; macrophage .....	0.0%	8.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hemorrhage; acute .....	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.1%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%
Infiltration; foamy; macrophage .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.1%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%
OVARY, LEFT;																			
Examined.....	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
Within Normal Limits.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OVARY, RIGHT;																			
Examined.....	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
Within Normal Limits.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OVIDUCT, LEFT;																			
Examined.....	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

MALES										FEMALES										
Observations: Neo-Plastic and Non Neo-Plastic										Observations: Neo-Plastic and Non Neo-Plastic										
Removal Reasons: All of those SELECTED	Group 1: Control	Group 2: 30 µg/15 (15)	Group 3: 10 µg/15 (15)	Group 4: 30 µg/15 (15)	Group 5: 100 µg/15 (15)	Group 6: 30 µg/15 (15)	Group 7: 100 µg/15 (15)	Control	30 µg/15 (15)	Group 1: Control	Group 2: 30 µg/15 (15)	Group 3: 100 µg/15 (15)	Group 4: 30 µg/15 (15)	Group 5: 100 µg/15 (15)	Group 6: 30 µg/15 (15)	Group 7: 100 µg/15 (15)	Females	Group 1: Control	Group 2: 30 µg/15 (15)	Group 3: 100 µg/15 (15)
Number of Animals on Study :	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Number of Animals Completed:	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)
OVIDUCT, LEFT; (continued)	-	-	-	-	-	-	-	-	-	-	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Within Normal Limits.....																				
OVIDUCT, RIGHT;																				
Examined.....	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)
Within Normal Limits.....	-	-	-	-	-	-	-	-	-	-	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
PANCREAS;																				
Examined.....	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)
Within Normal Limits.....	93.3%	100.0%	100.0%	100.0%	100.0%	93.3%	100.0%	100.0%	93.3%	100.0%	93.3%	100.0%	93.3%	100.0%	93.3%	100.0%	93.3%	100.0%	100.0%	100.0%
Not Examined: NOT PRESENT .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Atrophy; acinar cell .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hyperplasia; acinar cell .....	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration, Lymphocytic .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
PARATHYROID, LEFT;																				
Examined.....	(8)	(12)	(10)	(11)	(7)	(14)	(12)	(11)	(11)	(14)	(11)	(14)	(11)	(14)	(11)	(14)	(11)	(14)	(11)	(14)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Fibrosis; interstitial .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
PARATHYROID, RIGHT;																				
Examined.....	(13)	(10)	(11)	(8)	(11)	(8)	(12)	(12)	(12)	(12)	(12)	(12)	(12)	(12)	(12)	(12)	(12)	(12)	(12)	(12)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
PEYERS PATCHES;																				
Examined.....	(12)	(9)	(13)	(14)	(15)	(14)	(12)	(12)	(12)	(15)	(11)	(11)	(13)	(13)	(11)	(11)	(11)	(11)	(11)	(11)
Within Normal Limits.....	8.3%	11.1%	0.0%	0.0%	6.7%	7.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.7%	15.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Not Examined: NOT PRESENT .....	25.0%	66.7%	15.4%	7.1%	0.0%	7.1%	25.0%	0.0%	0.0%	36.4%	15.4%	0.0%	25.0%	36.4%	7.1%	7.1%	7.1%	7.1%	7.1%	7.1%
Mineralization .....	8.3%	11.1%	15.4%	7.1%	0.0%	14.3%	8.3%	0.0%	0.0%	0.0%	0.0%	0.0%	7.7%	0.0%	8.3%	9.1%	9.1%	9.1%	9.1%	9.1%
Inflammation, Granulomatous; follicular .	8.3%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.7%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

MALES										FEMALES											
Observations: Neo-Plastic and Non Neo-Plastic										Observations: Neo-Plastic and Non Neo-Plastic											
<b>Removal Reasons: All of those SELECTED</b>																					
Number of Animals on Study :	15	15	15	15	15	15	15	15	15	Control	30 µg/ 10 µg/ 30 µg/ 100 µg/	15	15	15	15	15	15	15	15	15	15
Number of Animals Completed:	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)		(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)		
<b>PEYERS PATCHES; (continued)</b>																					
Increased Cellularity; germinal center ..	91.7%	88.9%	100.0%	100.0%	93.3%	92.9%	100.0%	100.0%	100.0%												
<b>PITUITARY GLAND;</b>																					
Examined.....	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)												
Within Normal Limits.....	93.3%	86.7%	100.0%	100.0%	100.0%	100.0%	100.0%	80.0%	100.0%												
Cyst; pars distalis .....	0.0%	13.3%	0.0%	0.0%	0.0%	0.0%	0.0%	20.0%	0.0%												
Cyst; pars intermedia .....	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%												
<b>PROSTATE GLAND;</b>																					
Examined.....	(14)	(14)	(15)	(15)	(15)	(14)	(14)	(15)	(15)												
Within Normal Limits.....	80.0%	85.7%	66.7%	60.0%	85.7%	73.3%	86.7%	-	-												
Infiltration; mixed .....	0.0%	7.1%	6.7%	6.7%	0.0%	0.0%	0.0%	-	-												
Inflammation; purulent .....	6.7%	0.0%	0.0%	6.7%	7.1%	13.3%	0.0%	-	-												
Infiltration, lymphocytic .....	13.3%	7.1%	26.7%	26.7%	7.1%	13.3%	13.3%	-	-												
<b>SALIVARY GLANDS, MANDIBULAR;</b>																					
Examined.....	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)												
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%												
<b>SALIVARY GLANDS, SUBLINGUAL;</b>																					
Examined.....	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)												
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%												
<b>SALIVARY GLANDS, PAROTIS;</b>																					
Examined.....	(15)	(15)	(14)	(14)	(15)	(14)	(14)	(15)	(15)												
Within Normal Limits.....	93.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%												
Infiltration, Lymphocytic .....	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%												
<b>SEMINAL VESICLES;</b>																					
Examined.....	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)												
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%												

## HISTOPATHOLOGY REPORT

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Microscopic Findings by Incidence

Observations: Neo-Plastic and Non Neo-Plastic										
MALES										
FEMALES										
Removal Reasons: All of those SELECTED	Group 1: Control	Group 2: 30 µg/ 15 (15)	Group 3: 10 µg/ 15 (15)	Group 4: 30 µg/ 15 (15)	Group 5: 100 µg/ 15 (15)	Group 6: 30 µg/ 15 (15)	Group 7: Control	30 µg/ 15 (15)	10 µg/ 15 (15)	30 µg/ 15 (15)
Number of Animals on Study :	15	15	15	15	15	15	15	15	15	15
Number of Animals Completed:	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)
SEMINAL VESICLES; (continued)										
Within Normal Limits.....	100.0%	93.3%	100.0%	100.0%	93.3%	100.0%	100.0%	-	-	-
Infiltration; mixed; surrounding tissue; fat .....	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	-	-	-
Infiltration, Lymphocytic .....	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	-	-	-
SKIN;										
Examined.....	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)
Within Normal Limits.....	100.0%	100.0%	100.0%	93.3%	100.0%	93.3%	100.0%	100.0%	80.0%	100.0%
Infiltration; mixed; dermis; subcutis .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.0%	0.0%
Infiltration; mixed; subcutaneous .....	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	40.0%
Necrosis; muscular .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%
Necrosis, Neutrophilic; muscular .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%
SPINAL CORD;										
Examined.....	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Cyst; keratinized .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SPLEEN;										
Examined.....	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)
Within Normal Limits.....	20.0%	6.7%	53.3%	26.7%	33.3%	53.3%	20.0%	46.7%	20.0%	40.0%
Congestion .....	80.0%	93.3%	40.0%	73.3%	53.3%	46.7%	80.0%	46.7%	80.0%	40.0%
Hematopoiesis; increased .....	0.0%	0.0%	20.0%	0.0%	13.3%	0.0%	0.0%	13.3%	0.0%	46.7%
STOMACH, GLANDULAR;										
Examined.....	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)
Within Normal Limits.....	6.7%	0.0%	33.3%	13.3%	6.7%	33.3%	0.0%	6.7%	20.0%	40.0%
Infiltration, Eosinophilic .....	93.3%	93.3%	60.0%	86.7%	93.3%	60.0%	93.3%	66.7%	53.3%	100.0%
Infiltration, Lymphocytic .....	0.0%	0.0%	6.7%	0.0%	6.7%	0.0%	0.0%	6.7%	0.0%	0.0%
Dilation; glandular .....	0.0%	13.3%	6.7%	6.7%	6.7%	6.7%	0.0%	6.7%	13.3%	6.7%
Cyst .....	6.7%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%
Hyperplasia; chief cell .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%
Hyperplasia; mucosa-associated lymphoid tissue .....	0.0%	0.0%	6.7%	0.0%	0.0%	6.7%	13.3%	0.0%	6.7%	0.0%

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Microscopic Findings by Incidence

MALES										FEMALES									
Observations: Neo-Plastic and Non Neo-Plastic										Observations: Neo-Plastic and Non Neo-Plastic									
Removal Reasons: All of those SELECTED	Group 1: Control	Group 2: 30 µg/15	Group 3: 10 µg/15	Group 4: 30 µg/15	Group 5: 100 µg/15	Group 6: 300 µg/15	Group 7: 1000 µg/15	Group 2: Control	Group 3: 30 µg/15	Group 4: 100 µg/15	Group 5: 300 µg/15	Group 6: 1000 µg/15	Group 1: Control	Group 2: 30 µg/15	Group 3: 100 µg/15	Group 4: 300 µg/15	Group 5: 1000 µg/15	Group 6: 3000 µg/15	Group 7: 10000 µg/15
Number of Animals on Study :	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)
Number of Animals Completed:	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)
STOMACH, GLANDULAR; (continued)																			
Infiltration; Neutrophilic mucosa .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration; mixed .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
STOMACH, NONGLANDULAR;																			
Examined.....	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
TESTIS, LEFT;																			
Examined.....	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)
Within Normal Limits.....	86.7%	100.0%	100.0%	98.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Spermatid Giant Cells .....	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dilation; tubular .....	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
TESTIS, RIGHT;																			
Examined.....	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)
Within Normal Limits.....	93.3%	100.0%	100.0%	98.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Not Examined: NOT PRESENT .....	0.0%	7.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dilation; tubular .....	6.7%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration; lymphoplasmacytic .....	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Spermatocoele .....	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
THYMUS;																			
Examined.....	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)
Within Normal Limits.....	66.7%	46.7%	46.7%	60.0%	60.0%	46.7%	53.3%	46.7%	33.3%	80.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	53.3%	40.0%
Cyst .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%
Hemorrhage; acute .....	33.3%	53.3%	53.3%	40.0%	40.0%	53.3%	46.7%	53.3%	66.7%	20.0%	40.0%	33.3%	40.0%	33.3%	40.0%	33.3%	40.0%	60.0%	60.0%
THYROID, LEFT;																			
Examined.....	(15)	(15)	(15)	(14)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)
Within Normal Limits.....	86.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	93.3%	92.9%	100.0%	93.3%	100.0%	93.3%	100.0%	93.3%	100.0%	100.0%
Cyst; keratinized .....	13.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	7.1%	0.0%	6.7%	0.0%	6.7%	0.0%	6.7%	0.0%	0.0%

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

MALES										FEMALES										
Observations: Neo-Plastic and Non Neo-Plastic										Observations: Neo-Plastic and Non Neo-Plastic										
Removal Reasons: All of those SELECTED	Group 1: Control	Group 2: 30 µg/ 10 µg/ 15	Group 3: 30 µg/ 10 µg/ 15	Group 4: 30 µg/ 100 µg/ 15	Group 5: 30 µg/ 100 µg/ 15	Group 6: 30 µg/ 100 µg/ 15	Group 7: 30 µg/ 100 µg/ 15	Group 2: Control	Group 1: 30 µg/ 100 µg/ 15	Group 3: 30 µg/ 100 µg/ 15	Group 4: 30 µg/ 100 µg/ 15	Group 5: 30 µg/ 100 µg/ 15	Group 6: 30 µg/ 100 µg/ 15	Group 7: 30 µg/ 100 µg/ 15	Group 2: Control	Group 1: 30 µg/ 100 µg/ 15	Group 3: 30 µg/ 100 µg/ 15	Group 4: 30 µg/ 100 µg/ 15	Group 5: 30 µg/ 100 µg/ 15	Group 6: 30 µg/ 100 µg/ 15
Number of Animals on Study :	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	
Number of Animals Completed:	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	
THYROID, RIGHT;																				
Examined; Within Normal Limits; Cyst; keratinized	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	
THYROID, LEFT;																				
Examined; Within Normal Limits; Hemorrhage; acute	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	
Infiltration, Lymphocytic	93.3%	100.0%	98.3%	100.0%	100.0%	93.3%	100.0%	100.0%	93.3%	100.0%	100.0%	93.3%	100.0%	93.3%	100.0%	93.3%	100.0%	93.3%	100.0%	
Cyst; keratinized	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
TONGUE;																				
Examined; Within Normal Limits; Hemorrhage; acute	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	
Infiltration, Lymphocytic	93.3%	100.0%	98.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Granuloma; hair	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
TRACHEA;																				
Examined; Within Normal Limits; Infiltration; mixed	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	
Pigmentation; brown; macrophage	66.7%	80.0%	86.7%	100.0%	100.0%	100.0%	100.0%	100.0%	86.7%	86.7%	86.7%	86.7%	86.7%	86.7%	86.7%	86.7%	86.7%	86.7%	86.7%	
Infiltration, Lymphocytic	20.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
URINARY BLADDER;																				
Examined; Within Normal Limits; Infiltration, Lymphocytic	(15)	(14)	(15)	(14)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	
Dilation	100.0%	100.0%	93.3%	92.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
UTERUS;																				
Examined; Within Normal Limits; Dilation	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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(b) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

Observations: Neo-Plastic and Non Neo-Plastic.....								MALES .....								FEMALES .....									
Removal Reasons: All of those SELECTED		Group 1: Control		Group 2: 30 µg/		Group 3: 10 µg/		Group 4: 30 µg/		Group 5: 100 µg/		Group 6: 30 µg/		Group 7: 100 µg/		Group 1: Control		Group 2: 30 µg/		Group 3: 10 µg/		Group 4: 30 µg/		Group 5: 100 µg/	
		Number of Animals on Study :		15		15		15		15		15		15		15		15		15		15		15	
		Number of Animals Completed:		(15)		(15)		(15)		(15)		(15)		(15)		(15)		(15)		(15)		(15)		(15)	
VAGINA;																									
Examined.....	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
Within Normal Limits.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Keratinization; epithelial .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**HISTOPATHOLOGY REPORT**

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

MALES						
	Group 1: Control	Group 2: 30 µg/ 10	Group 3: 30 µg/ 10	Group 4: 30 µg/ 10	Group 5: 100 µg/ 10	Group 6: 30 µg/ 10
	(10)	(10)	(10)	(10)	(10)	(10)
<b>ADRENAL GLAND, LEFT;</b>						
Examined.....	90.0%	90.0%	60.0%	90.0%	90.0%	90.0%
Within Normal Limits.....						
Dilation; vascular .....	10.0%	10.0%	40.0%	10.0%	10.0%	10.0%
Hyper trophy; cortical .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Vacuolation; cortical .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>ADRENAL GLAND, RIGHT;</b>						
Examined.....	90.0%	90.0%	70.0%	100.0%	80.0%	100.0%
Within Normal Limits.....						
Dilation; vascular .....	10.0%	10.0%	30.0%	0.0%	20.0%	0.0%
Hyper trophy; cortical .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Vacuolation; cortical .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>AORTA ABDOMINALIS;</b>						
Examined.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Within Normal Limits.....						
<b>BONE, OS FEMORIS WITH JOINT;</b>						
Examined.....	100.0%	100.0%	100.0%	100.0%	60.0%	100.0%
Within Normal Limits.....						
Inflammation; mixed; surrounding tissue .....	0.0%	0.0%	0.0%	0.0%	40.0%	0.0%
<b>BONE MARROW, OS FEMORIS WITH JOINT;</b>						
Examined.....	100.0%	100.0%	100.0%	100.0%	0.0%	100.0%
Within Normal Limits.....						
Increased Cellularity .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Microscopic Findings by Incidence

MALES						
	Group 1: Control 30 µg/ 10 (10)	Group 2: 30 µg/ 10 (10)	Group 3: 10 µg/ 10 (10)	Group 4: 30 µg/ 10 (10)	Group 5: 100 µg/ 10 (10)	Group 6: 30 µg/ 10 (10)
<b>Observations: Neo-Plastic and Non Neo-Plastic</b>						
<b>Removal Reasons: Main Study Animals</b>						
Number of Animals on Study : Number of Animals Completed:	100.0% 0.0%	100.0% 0.0%	100.0% 0.0%	100.0% 0.0%	90.0% 10.0%	100.0% 0.0%
<b>BONE, STERNUM;</b>						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	90.0%	100.0%
Infiltration; mixed; surrounding tissue; muscle .....						
<b>BRAIN, BRAIN STEM;</b>						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
<b>BRAIN, CEREBELLUM;</b>						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
<b>BRAIN, CEREBRUM;</b>						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
<b>CERVIX;</b>						
Examined.....	(-)	(-)	(-)	(-)	(-)	(-)
Within Normal Limits.....	-	-	-	-	-	-
Keratinization; epithelial .....						
<b>EPIDIDYMIS, LEFT;</b>						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	30.0%	20.0%	10.0%	70.0%	30.0%	40.0%
Infiltration, Lymphocytic .....	70.0%	80.0%	90.0%	30.0%	70.0%	60.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

MALES						
	Group 1: Control (10)	Group 2: 30 µg/ 10 (10)	Group 3: 30 µg/ 10 (10)	Group 4: 30 µg/ 10 (10)	Group 5: 100 µg/ 10 (10)	Group 6: 30 µg/ 10 (10)
<b>Observations: Neo-Plastic and Non Neo-Plastic</b>						
<b>Removal Reasons: Main Study Animals</b>						
Number of Animals on Study : Number of Animals Completed:						
EPIDIDYMIS, RIGHT;						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	30.0%	10.0%	30.0%	40.0%	20.0%	40.0%
Infiltration, Lymphocytic .....	70.0%	90.0%	70.0%	50.0%	80.0%	60.0%
Infiltration; mixed .....	0.0%	0.0%	0.0%	10.0%	0.0%	0.0%
ESOPHAGUS;						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
EYE, LEFT;						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Pigmentation; brown; macrophage .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
EYE, RIGHT;						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits .....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
HARDERIAN GLAND, LEFT;						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	90.0%	100.0%	100.0%	90.0%	90.0%	100.0%
Infiltration, Lymphocytic .....	10.0%	0.0%	0.0%	10.0%	0.0%	0.0%
Infiltration; lymphohistiocytic .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration; mixed .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Pigmentation; brown; macrophage .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Inflammation; granulomatous .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Inflammation; purulent .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Inflammation, Chronic .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) Study No.: 38166 Repeat-Dose Toxicity Study  
 (b) (4) Microscopic Findings by Incidence

MALES						
	Group 1: Control	Group 2: 30 µg/ 10	Group 3: 10 µg/ 10	Group 4: 30 µg/ 10	Group 5: 100 µg/ 10	Group 6: 30 µg/ 10
	(10)	(10)	(10)	(10)	(10)	(10)
HARDERIAN GLAND, RIGHT;						
Examined.....	80.0%	100.0%	90.0%	100.0%	80.0%	70.0%
Within Normal Limits.....	.....	.....	.....	.....	.....	.....
Infiltration; Lymphocytic .....	20.0%	0.0%	0.0%	20.0%	0.0%	0.0%
Necrosis .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration; lymphohistiocytic .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration; mixed .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Inflammation, Chronic .....	0.0%	0.0%	10.0%	0.0%	0.0%	0.0%
HEART;						
Examined.....	100.0%	90.0%	90.0%	80.0%	90.0%	100.0%
Within Normal Limits.....	.....	.....	.....	.....	.....	.....
Infiltration; Lymphohistiocytic .....	0.0%	0.0%	10.0%	0.0%	0.0%	0.0%
Infiltration; mixed .....	0.0%	0.0%	0.0%	10.0%	0.0%	0.0%
Infiltration, Lymphocytic .....	0.0%	10.0%	0.0%	10.0%	0.0%	0.0%
INJECTION SITE I;						
Examined.....	40.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Within Normal Limits.....	.....	.....	.....	.....	.....	.....
Fibrosis; intramuscular / interstitial .....	0.0%	90.0% **	100.0% **	90.0% **	90.0% **	90.0% **
Fibrosis; inter- / perimuscular .....	0.0%	100.0% **	100.0% **	90.0% **	100.0% **	90.0% **
Hemorrhage .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hemorrhage; subcutis .....	0.0%	0.0%	10.0%	0.0%	0.0%	0.0%
Inflammation; granulomatous .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Inflammation; lymphocytic; inter- / perimuscular .....	0.0%	0.0%	0.0%	10.0%	0.0%	0.0%
Inflammation; lymphohistiocytic .....	60.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Inflammation; lymphohistiocytic; dermis; subcutis .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Inflammation; neutrophilic; dermis; epidermis .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Inflammation; plasmacytic; perivascular .....	0.0%	0.0%	10.0%	0.0%	0.0%	0.0%
Inflammation; vascular .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

## Observations: Neo-Plastic and Non Neo-Plastic

## Removal Reasons: Main Study Animals

	Number of Animals on Study : Number of Animals Completed:	Group 1: Control (10)	Group 2: 30 µg/ (10)	Group 3: 10 µg/ (10)	Group 4: 30 µg/ (10)	Group 5: 100 µg/ (10)	Group 6: 30 µg/ (10)	Group 7: 100 µg/ (10)
<b>INJECTION SITE I; (continued)</b>								
Inflammation; mixed .....								
Inflammation; mixed; subcutis .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Inflammation; mixed; intramuscular / interstitial .....	0.0%	100.0% **	100.0% **	100.0% **	100.0% **	100.0% **	90.0% **	100.0% **
Inflammation; mixed; inter- / perimuscular .....	0.0%	90.0% **	100.0% **	100.0% **	100.0% **	90.0% **	90.0% **	100.0% **
Necrosis; myofiber .....	0.0%	100.0% **	100.0% **	100.0% **	100.0% **	100.0% **	90.0% **	100.0% **
Necrosis; dermis; subcutis .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Ulceration; epidermis .....	0.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Degeneration; myofiber .....	0.0%	20.0%	20.0%	20.0%	20.0%	0.0%	0.0%	10.0%
Degeneration; muscle .....	10.0%	90.0% **	90.0% **	90.0% **	90.0% **	100.0% **	80.0% **	100.0% **
Foreign material; hair .....	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Edema; subcutis .....	0.0%	0.0%	60.0% *	100.0% **	90.0% **	80.0% **	90.0% **	100.0% **
Edema; intramuscular .....	0.0%	0.0%	20.0%	70.0%	80.0%	80.0%	90.0%	100.0% **
Edema; inter- / perimuscular .....	0.0%	70.0% **	100.0% **	100.0% **	100.0% **	80.0% **	90.0% **	100.0% **
Hypokeratosis; epidermal .....	0.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hyperplasia; epidermal .....	0.0%	90.0% **	90.0% **	90.0% **	90.0% **	100.0% **	90.0% **	90.0% **
Scab; epidermal .....	0.0%	0.0%	10.0%	0.0%	0.0%	0.0%	10.0%	0.0%
Pustule; epidermal .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>INJECTION SITE II;</b>								
Examined.....	(10)	(4)	(0)	(0)	(10)	(0)	(0)	(10)
Within Normal Limits .....	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Degeneration; myofiber .....	0.0%	75.0% *	0.0%	0.0%	100.0% **	0.0%	0.0%	100.0% **
Regeneration; muscle .....	0.0%	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hyperplasia; epidermal .....	0.0%	100.0% **	0.0%	0.0%	100.0% **	0.0%	0.0%	70.0% **
Scab; epidermal .....	0.0%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Edema; subcutis .....	0.0%	75.0% *	0.0%	0.0%	100.0% **	0.0%	0.0%	100.0% **
Edema; inter- / perimuscular .....	0.0%	50.0%	0.0%	0.0%	100.0% **	0.0%	0.0%	100.0% **
Edema; intramuscular / interstitial .....	0.0%	0.0%	0.0%	0.0%	100.0% **	0.0%	0.0%	100.0% **
Necrosis; myofiber .....	0.0%	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

- - - - - MALES - - - - -						
	Number of Animals on Study : Number of Animals Completed:	Group 1: Control (10)	Group 2: 30 µg/ 10 (10)	Group 3: 10 µg/ 10 (10)	Group 4: 30 µg/ 10 (10)	Group 5: 100 µg/ 10 (10)
<b>INJECTION SITE II; (continued)</b>						
Necrosis; dermis; subcutis .....		0.0%	25.0%	0.0%	0.0%	0.0%
Necrosis; traumatic; myofiber .....		0.0%	25.0%	0.0%	0.0%	0.0%
Fibrosis; subcutis .....		0.0%	0.0%	0.0%	0.0%	0.0%
Fibrosis; inter- / perimuscular .....		0.0%	75.0% *	0.0%	0.0%	100.0% **
Fibrosis; intramuscular / interstitial .....		0.0%	75.0% *	0.0%	0.0%	100.0% **
Ulceration; epidermal .....		0.0%	25.0%	0.0%	0.0%	0.0%
Hemorrhage .....		0.0%	0.0%	0.0%	0.0%	0.0%
Inflammation; lymphohistiocytic .....		0.0%	40.0%	0.0%	0.0%	0.0%
Inflammation; mixed .....		10.0%	0.0%	0.0%	0.0%	0.0%
Inflammation; mixed; subcutis .....		0.0%	100.0% **	0.0%	0.0%	100.0% **
Inflammation; mixed; inter- / perimuscular .....		0.0%	100.0% **	0.0%	0.0%	100.0% **
Inflammation; mixed; intramuscular / interstitial .....		0.0%	100.0% **	0.0%	0.0%	100.0% **
<b>INTESTINE, CECUM;</b>						
Examined.....		(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....		100.0%	100.0%	100.0%	80.0%	70.0%
Hyperplasia; mucosa-associated lymphoid tissue .....		0.0%	0.0%	0.0%	20.0%	0.0%
Infiltration, Eosinophilic; increased .....		0.0%	0.0%	0.0%	10.0%	30.0%
<b>INTESTINE, COLON;</b>						
Examined.....		(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....		90.0%	100.0%	80.0%	80.0%	70.0%
Hyperplasia; mucosa-associated lymphoid tissue .....		10.0%	0.0%	20.0%	20.0%	30.0%
Infiltration, Eosinophilic; increased .....		0.0%	0.0%	0.0%	10.0%	30.0%
<b>INTESTINE, DUODENUM;</b>						
Examined.....		(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....		100.0%	100.0%	100.0%	100.0%	100.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

MALES						
	Group 1: Control	Group 2: 30 µg/ 10	Group 3: 10 µg/ 10	Group 4: 30 µg/ 10	Group 5: 100 µg/ 10	Group 6: 30 µg/ 10
	Number of Animals on Study : Number of Animals Completed:	(10) (10)	(10) (10)	(10) (10)	(10) (10)	(10) (10)
INTESTINE, ILEUM; Examined..... Within Normal Limits.....	100.0% .....	100.0% .....	100.0% .....	100.0% .....	100.0% .....	100.0% .....
INTESTINE, JEJUNUM; Examined..... Within Normal Limits.....	100.0% .....	100.0% .....	100.0% .....	100.0% .....	100.0% .....	100.0% .....
INTESTINE, RECTUM; Examined..... Within Normal Limits..... Infiltration, Eosinophilic; increased .. Hyperplasia; mucosa-associated lymphoid tissue .....	90.0% ..... 0.0% .....	90.0% ..... 0.0% .....	80.0% ..... 0.0% .....	80.0% ..... 0.0% .....	60.0% ..... 30.0% .....	100.0% ..... 0.0% .....
KIDNEY, LEFT; Examined..... Within Normal Limits..... Congestion .. Basophilia; tubule .. Infiltration, Lymphocytic .. Mineralization .. Cyst; tubular .. Inflammation, Chronic; interstitial .. Cast; hyaline; tubule .....	10.0% ..... 90.0% ..... 10.0% ..... 20.0% ..... 0.0% ..... 0.0% ..... 0.0% ..... 0.0% ..... 0.0% .....	10.0% ..... 100.0% ..... 10.0% ..... 30.0% ..... 0.0% ..... 0.0% ..... 0.0% ..... 0.0% .....	10.0% ..... 0.0% ..... 0.0% ..... 20.0% ..... 0.0% ..... 0.0% ..... 0.0% ..... 0.0% .....	10.0% ..... 100.0% ..... 0.0% ..... 20.0% ..... 0.0% ..... 0.0% ..... 0.0% ..... 0.0% .....	10.0% ..... 100.0% ..... 0.0% ..... 20.0% ..... 0.0% ..... 0.0% ..... 0.0% ..... 0.0% .....	10.0% ..... 100.0% ..... 0.0% ..... 20.0% ..... 0.0% ..... 0.0% ..... 0.0% ..... 0.0% .....
KIDNEY, RIGHT; Examined..... Within Normal Limits..... Congestion .. Basophilia; tubule .....	0.0% ..... 100.0% ..... 0.0% .....	0.0% ..... 100.0% ..... 0.0% .....	0.0% ..... 100.0% ..... 0.0% .....	0.0% ..... 100.0% ..... 0.0% .....	0.0% ..... 100.0% ..... 0.0% .....	0.0% ..... 100.0% ..... 0.0% .....

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

MALES						
	Group 1: Control (10)	Group 2: 30 µg/ 10 (10)	Group 3: 10 µg/ 10 (10)	Group 4: 30 µg/ 10 (10)	Group 5: 100 µg/ 10 (10)	Group 6: 30 µg/ 10 (10)
<b>KIDNEY, RIGHT; (continued)</b>						
Infiltration, Lymphocytic	0.0%	10.0%	30.0%	0.0%	10.0%	0.0%
Inflammation; purulent; pelvis	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Cast; hyaline; tubule	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Mineralization	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dilation; tubule	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration, Neutrophilic; subcapsular	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>LAGRIMAL GLAND, LEFT;</b>						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
<b>LAGRIMAL GLAND, RIGHT;</b>						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
<b>LIVER;</b>						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	0.0%	10.0%	0.0%	0.0%	0.0%	0.0%
Congestion .....	100.0%	90.0%	100.0%	100.0%	100.0%	100.0%
Hematopoiesis; extramedullary .....	20.0%	40.0%	20.0%	30.0%	10.0%	10.0%
Infiltration; mixed .....	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Necrosis .....	10.0%	0.0%	0.0%	10.0%	0.0%	10.0%
Infiltration, Neutrophilic .....	10.0%	0.0%	0.0%	10.0%	0.0%	0.0%
Infiltration, Lymphocytic .....	50.0%	0.0%	50.0%	40.0%	20.0%	30.0%
Vacuolation; hepatocellular .....	10.0%	0.0%	0.0%	10.0%	0.0%	0.0%
Vacuolation; hepatocellular; periportal .....	0.0%	10.0%	10.0%	80.0% **	10.0%	90.0% **
Infiltration, Eosinophilic .....	0.0%	0.0%	0.0%	10.0%	0.0%	0.0%
Pigmentation; brown; kupffer cell .....	0.0%	0.0%	0.0%	10.0%	0.0%	0.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

MALES						
	Group 1: Control (10)	Group 2: 30 µg/ 10 (10)	Group 3: 10 µg/ 10 (10)	Group 4: 30 µg/ 10 (10)	Group 5: 100 µg/ 10 (10)	Group 6: 30 µg/ 10 (10)
<b>LUNGS WITH BRONCHI;</b>						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	20.0%	30.0%	30.0%	30.0%	30.0%	40.0%
Ossification .....	0.0%	10.0%	0.0%	10.0%	0.0%	0.0%
Hemorrhage; acute .....	40.0%	20.1%	50.0%	30.0%	20.0%	10.0%
Hyperplasia; bronchial-associated lymphoid tissue .....	40.0%	60.0%	30.0%	60.0%	40.0%	30.0%
Infiltration; Eosinophilic; perivascular .....	20.0%	0.0%	10.0%	20.0%	30.0%	10.0%
Infiltration; foamy; macrophage; alveolar .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration; lymphohistiocytic .....	0.0%	0.0%	0.0%	10.0%	0.0%	10.0%
Infiltration; mixed .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Pigmentation; brown; macrophage .....	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%
LYMPH NODE, CERVICAL;						
Examined.....	(8)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Histiocytosis .....	100.0%	100.0%	90.0%	100.0%	100.0%	90.0%
Erythropagocytosis .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Pigmentation; brown; macrophage .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hemorrhage .....	0.0%	0.0%	10.0%	0.0%	0.0%	0.0%
Plasmacytosis .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Increased Cellularity; germinal center .....	100.0%	100.0%	100.0%	90.0%	100.0%	100.0%
LYMPH NODE, ILLIAC;						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Histiocytosis .....	100.0%	90.0%	100.0%	90.0%	100.0%	90.0%
Plasmacytosis .....	0.0%	50.0% *	70.0% **	90.0% ***	80.0% ***	60.0% *
Infiltration; Eosinophilic .....	10.0%	0.0%	0.0%	0.0%	10.0%	0.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

- - - - - MALES - - - - -						
	Group 1: Control	Group 2: 30 µg/ 10	Group 3: 30 µg/ 10	Group 4: 30 µg/ 10	Group 5: 100 µg/ 10	Group 6: 30 µg/ 10
Number of Animals on Study : Number of Animals Completed:	(10)	(10)	(10)	(10)	(10)	(10)
LYMPH NODE, ILLIAC; (continued)						
Hemorrhage; acute .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Inflammation .....	0.0%	50.0% *	0.0%	0.0%	50.0% *	40.0%
Increased Cellularity; germinal center .....	80.0%	90.0%	90.0%	100.0%	100.0%	100.0%
LYMPH NODE, MESENTERIC;						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Erythrophagocytosis .....	0.0%	0.0%	0.0%	10.0%	0.0%	0.0%
Histiocytosis .....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Infiltration, Eosinophilic .....	0.0%	0.0%	0.0%	0.0%	10.0%	0.0%
Increased Cellularity; germinal center .....	90.0%	100.0%	100.0%	100.0%	100.0%	100.0%
LYMPH NODE, RENAL;						
Examined.....	(0)	(0)	(0)	(0)	(1)	(0)
Within Normal Limits.....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Histiocytosis .....	0.0%	0.0%	0.0%	100.0%	0.0%	100.0%
Pigmentation; brown; macrophage .....	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%
Plasmacytosis .....	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Increased Cellularity; germinal center .....	0.0%	0.0%	0.0%	100.0%	0.0%	100.0%
MAMMARY GLANDS;						
Examined.....	(9)	(10)	(10)	(9)	(10)	(10)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	80.0%	60.0%
Inflammation; mixed; interstitium .....	0.0%	0.0%	0.0%	0.0%	20.0%	30.0%
Inflammation; mixed; interstitium; lymphatic .....	0.0%	0.0%	0.0%	0.0%	0.0%	10.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

MALES						
	Group 1: Control (10)	Group 2: 30 µg/ 10 (10)	Group 3: 10 µg/ 10 (10)	Group 4: 30 µg/ 10 (10)	Group 5: 100 µg/ 10 (10)	Group 6: 30 µg/ 10 (10)
<b>SKELETAL MUSCLE;</b>						
Examined.....	100.0%	100.0%	100.0%	100.0%	90.0%	100.0%
Within Normal Limits.....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration; lymphohistiocytic .....	0.0%	0.0%	0.0%	0.0%	10.0%	0.0%
Infiltration; mixed .....	0.0%	0.0%	0.0%	0.0%	10.0%	0.0%
Necrosis; myofiber .....	0.0%	0.0%	0.0%	0.0%	10.0%	0.0%
Infiltration; Lymphocytic .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>NERVE, SCIATIC;</b>						
Examined.....	100.0%	70.0%	100.0%	90.0%	30.0% **	100.0% **
Within Normal Limits.....	0.0%	30.0%	0.0%	10.0%	70.0% **	0.0%
Inflammation; perineurial .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Vacuolation .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>OPTIC NERVE, LEFT;</b>						
Examined.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Within Normal Limits.....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hemorrhage; acute .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Pigmentation; brown; macrophage .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>OPTIC NERVE, RIGHT;</b>						
Examined.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Within Normal Limits.....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Pigmentation; brown; macrophage .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hemorrhage; acute .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration; foamy; macrophage .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

MALES							
	Group 1: Control (10)	Group 2: 30 µg/ (10)	Group 3: 10 µg/ (10)	Group 4: 30 µg/ (10)	Group 5: 100 µg/ (10)	Group 6: 30 µg/ (10)	Group 7: 100 µg/ (10)
<b>Observations: Neo-Plastic and Non Neo-Plastic</b>							
<b>Removal Reasons: Main Study Animals</b>							
Number of Animals on Study :	10	10	10	10	10	10	10
Number of Animals Completed:	(10)	(10)	(10)	(10)	(10)	(10)	(10)
<b>OVARY, LEFT;</b>							
Examined.....	(-)	(-)	(-)	(-)	(-)	(-)	(-)
Within Normal Limits.....	-	-	-	-	-	-	-
<b>OVARY, RIGHT;</b>							
Examined.....	(-)	(-)	(-)	(-)	(-)	(-)	(-)
Within Normal Limits.....	-	-	-	-	-	-	-
<b>OVIDUCT, LEFT;</b>							
Examined.....	(-)	(-)	(-)	(-)	(-)	(-)	(-)
Within Normal Limits.....	-	-	-	-	-	-	-
<b>OVIDUCT, RIGHT;</b>							
Examined.....	(-)	(-)	(-)	(-)	(-)	(-)	(-)
Within Normal Limits.....	-	-	-	-	-	-	-
<b>PANCREAS;</b>							
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	90.0%	100.0%	100.0%	100.0%	90.0%	100.0%	100.0%
Atrophy; acinar cell .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hyperplasia; acinar cell .....	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration, Lymphocytic .....	0.0%	0.0%	0.0%	0.0%	10.0%	0.0%	0.0%
<b>PARATHYROID, LEFT;</b>							
Examined.....	(6)	(10)	(8)	(2)	(9)	(8)	(7)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Microscopic Findings by Incidence

MALES						
	Group 1: Control	Group 2: 30 µg/ 10	Group 3: 30 µg/ 10	Group 4: 30 µg/ 10	Group 5: 100 µg/ 10	Group 6: 30 µg/ 10
	(10)	(10)	(10)	(10)	(10)	(10)
Observations: Neo-Plastic and Non Neo-Plastic						
Removal Reasons: Main Study Animals						
Number of Animals on Study : Number of Animals Completed:	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
PARATHYROID, LEFT; (continued) Fibrosis; interstitial .....	(9)	(7)	(7)	(5)	(7)	(7)
PARATHYROID, RIGHT; Examined..... Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
PEYERS PATCHES; Examined..... Within Normal Limits.....	(8)	(6)	(9)	(9)	(10)	(10)
Mineralization..... Inflammation; Granulomatous; follicular Increased Cellularity; germinal center .....	12.5% 0.0% 0.0% 87.5%	16.7% 16.7% 0.0% 83.3%	0.0% 22.2% 11.1% 100.0%	0.0% 10.0% 0.0% 90.0%	0.0% 0.0% 0.0% 100.0%	0.0% 20.0% 0.0% 100.0%
PITUITARY GLAND; Examined..... Within Normal Limits..... Cyst; pars distalis .....	(10)	(10)	(10)	(10)	(10)	(10)
PROSTATE GLAND; Examined..... Within Normal Limits..... Infiltration; mixed .....	(10)	(9)	(10)	(10)	(9)	(10)
Inflammation; purulent .....	70.0% 0.0% 10.0% 20.0%	88.9% 0.0% 0.0% 0.0%	80.0% 10.0% 0.0% 10.0%	80.0% 10.0% 0.0% 10.0%	88.9% 0.0% 0.0% 11.1%	90.0% 0.0% 0.0% 0.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

MALES						
	Group 1: Control	Group 2: 30 µg/ 10	Group 3: 30 µg/ 10	Group 4: 30 µg/ 10	Group 5: 100 µg/ 10	Group 6: 30 µg/ 10
	(10)	(10)	(10)	(10)	(10)	(10)
Observations: Neo-Plastic and Non Neo-Plastic						
Removal Reasons: Main Study Animals						
Number of Animals on Study : Number of Animals Completed:	100.0% (10)	100.0% (10)	100.0% (10)	100.0% (10)	100.0% (10)	100.0% (10)
SALIVARY GLANDS, MANDIBULAR; Examined.....Within Normal Limits.....						
SALIVARY GLANDS, SUBLINGUAL; Examined.....Within Normal Limits.....						
SALIVARY GLANDS, PAROTIS; Examined.....Within Normal Limits.....Infiltration, Lymphocytic .....						
SEMINAL VESICLES; Examined.....Within Normal Limits.....Infiltration; surrounding tissue; fat .....						
SKIN; Examined.....Within Normal Limits.....Infiltration; mixed; surrounding tissue; fat .....						
SPINAL CORD; Examined.....						

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Microscopic Findings by Incidence

MALES						
	Group 1: Control (10)	Group 2: 30 µg/ 10 (10)	Group 3: 10 µg/ 10 (10)	Group 4: 30 µg/ 10 (10)	Group 5: 100 µg/ 10 (10)	Group 6: 300 µg/ 10 (10)
<b>Observations: Neo-Plastic and Non Neo-Plastic</b>						
Removal Reasons: Main Study Animals						
Number of Animals on Study : Number of Animals Completed:						
SPINAL CORD; (continued)						
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Cyst; keratinized .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SPLEEN;						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	10.0%	0.0%	50.0%	10.0%	20.0%	50.0%
Congestion .....	90.0%	100.0%	40.0%	90.0%	60.0%	50.0%
Hematopoiesis; increased .....	0.0%	0.0%	30.0%	0.0%	20.0%	0.0%
STOMACH, GLANDULAR;						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	10.0%	0.0%	50.0%	0.0%	0.0%	0.0%
Infiltration, Eosinophilic .....	90.0%	90.0%	40.0%	100.0%	100.0%	90.0%
Infiltration, Lymphocytic .						
Dilation; glandular .....	0.0%	0.0%	0.0%	0.0%	10.0%	0.0%
Cyst .....	0.0%	20.0%	10.0%	10.0%	0.0%	10.0%
Hyperplasia; chief cell .....	0.0%	0.0%	10.0%	0.0%	0.0%	0.0%
Hyperplasia; mucosa-associated lymphoid tissue .....	0.0%	0.0%	10.0%	0.0%	0.0%	10.0%
Infiltration, Neutrophilic; mucosa .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration; mixed .....	0.0%	0.0%	0.0%	0.0%	0.0%	10.0%
STOMACH, NONGLANDULAR;						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
TESTIS, LEFT;						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

MALES						
	Group 1: Control	Group 2: 30 µg/ 10	Group 3: 10 µg/ 10	Group 4: 30 µg/ 10	Group 5: 100 µg/ 10	Group 6: 30 µg/ 10
	Number of Animals on Study : Number of Animals Completed:	(10)	(10)	(10)	(10)	(10)
TESTIS, RIGHT;						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
THYMUS;						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	70.0%	30.0%	40.0%	50.0%	60.0%	50.0%
Cyst .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hemorrhage; acute .....	30.0%	70.0%	60.0%	50.0%	40.0%	50.0%
THYROID, LEFT;						
Examined.....	(10)	(10)	(10)	(9)	(10)	(10)
Within Normal Limits.....	90.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Cyst; keratinized .....	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%
THYROID, RIGHT;						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	90.0%	80.0%	100.0%	100.0%	100.0%	90.0%
Cyst; keratinized .....	10.0%	20.0%	0.0%	0.0%	0.0%	10.0%
TONGUE;						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	90.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Hemorrhage; acute .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration, lymphocytic .....	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%
TRACHEA;						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

MALES						
	Group 1: Control (10)	Group 2: 30 µg/ (10)	Group 3: 10 µg/ (10)	Group 4: 30 µg/ (10)	Group 5: 100 µg/ (10)	Group 6: 30 µg/ (10)
Observations: Neo-Plastic and Non Neo-Plastic						
Removal Reasons: Main Study Animals						
Number of Animals on Study : Number of Animals Completed:						
TRACHEA; (continued)						
Within Normal Limits.....	50.0%	100.0%	70.0%	80.0%	80.0%	100.0%
Infiltration; lymphohistiocytic .....	30.0%	0.0%	10.0%	0.0%	0.0%	0.0%
Infiltration; mixed .....	10.0%	0.0%	20.0%	20.0%	0.0%	0.0%
Pigmentation; brown; macrophage .....	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration, lymphocytic .....	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%
URINARY BLADDER;						
Examined.....	(10)	(9)	(10)	(9)	(10)	(10)
Within Normal Limits.....	100.0%	100.0%	90.0%	88.9%	100.0%	100.0%
Infiltration, Lymphocytic .....	0.0%	0.0%	10.0%	11.1%	0.0%	0.0%
UTERUS;						
Examined.....	(-)	(-)	(-)	(-)	(-)	(-)
Within Normal Limits.....	-	-	-	-	-	-
Dilation .....	-	-	-	-	-	-
VAGINA;						
Examined.....	(-)	(-)	(-)	(-)	(-)	(-)
Within Normal Limits.....	-	-	-	-	-	-
Keratinization; epithelial .....	-	-	-	-	-	-

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

- - - - - FEMALEs - - - - -						
	Number of Animals on Study : Number of Animals Completed:	Group 1: Control (10)	Group 2: 30 µg/ 10 (10)	Group 3: 10 µg/ 10 (10)	Group 4: 30 µg/ 10 (10)	Group 5: 100 µg/ 10 (10)
ADRENAL GLAND, LEFT;						
Examined.....		(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....		100.0%	80.0%	70.0%	90.0%	90.0%
Dilation; vascular .....		0.0%	20.0%	20.0%	10.0%	10.0%
Hyper trophy; cortical .....		0.0%	0.0%	10.0%	0.0%	0.0%
Vacuolation; cortical .....		0.0%	0.0%	0.0%	0.0%	0.0%
ADRENAL GLAND, RIGHT;						
Examined.....		(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....		90.0%	90.0%	80.0%	100.0%	80.0%
Dilation; vascular .....		10.0%	10.0%	10.0%	0.0%	20.0%
Hyper trophy; cortical .....		0.0%	0.0%	10.0%	0.0%	0.0%
Vacuolation; cortical .....		0.0%	0.0%	0.0%	0.0%	0.0%
AORTA ABDOMINALIS;						
Examined.....		(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....		100.0%	100.0%	100.0%	100.0%	100.0%
BONE, OS FEMORIS WITH JOINT;						
Examined.....		(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....		100.0%	90.0%	90.0%	40.0%	100.0%
Inflammation; mixed; surrounding tissue .....		0.0%	10.0%	10.0%	60.0% *	0.0%
BONE MARROW, OS FEMORIS WITH JOINT;						
Examined.....		(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....		100.0%	0.0%	0.0%	0.0%	0.0%
Increased Cellularity .....		0.0%	100.0% **	100.0% **	100.0% **	100.0% **

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

FEMALES						
	Group 1: Control 30 µg/ 10 (10)	Group 2: 30 µg/ 10 (10)	Group 3: 10 µg/ 10 (10)	Group 4: 30 µg/ 10 (10)	Group 5: 100 µg/ 10 (10)	Group 6: 30 µg/ 10 (10)
Observations: Neo-Plastic and Non Neo-Plastic						
Removal Reasons: Main Study Animals						
Number of Animals on Study : Number of Animals Completed:						
BONE, STERNUM; Examined..... Within Normal Limits..... Infiltration; mixed; surrounding tissue; muscle .....	100.0% (10) 0.0% 0.0%	100.0% (10) 0.0% 0.0%	90.0% (10) 10.0% 0.0%	100.0% (10) 0.0% 0.0%	90.0% (10) 10.0% 0.0%	100.0% (10) 0.0% 0.0%
BRAIN, BRAIN STEM; Examined..... Within Normal Limits.....	100.0% (10) 100.0% 100.0%	100.0% (10) 100.0% 100.0%	100.0% (10) 100.0% 100.0%	100.0% (10) 100.0% 100.0%	100.0% (10) 100.0% 100.0%	100.0% (10) 100.0% 100.0%
BRAIN, CEREBELLUM; Examined..... Within Normal Limits.....	100.0% (10) 100.0% 100.0%	100.0% (10) 100.0% 100.0%	100.0% (10) 100.0% 100.0%	100.0% (10) 100.0% 100.0%	100.0% (10) 100.0% 100.0%	100.0% (10) 100.0% 100.0%
BRAIN, CEREBRUM; Examined..... Within Normal Limits.....	100.0% (10) 100.0% 100.0%	100.0% (10) 100.0% 100.0%	100.0% (10) 100.0% 100.0%	100.0% (10) 100.0% 100.0%	100.0% (10) 100.0% 100.0%	100.0% (10) 100.0% 100.0%
CERVIX; Examined..... Within Normal Limits..... Keratinization; epithelial .....	80.0% (10) 40.0% 20.0%	60.0% (10) 30.0% 20.0%	70.0% (10) 10.0% 10.0%	90.0% (10) 10.0% 10.0%	90.0% (10) 10.0% 10.0%	70.0% (10) 30.0% 30.0%
EPIDIDYMIS, LEFT; Examined..... Within Normal Limits..... Infiltration, Lymphocytic .....	(-) - -	(-) - -	(-) - -	(-) - -	(-) - -	(-) - -

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Microscopic Findings by Incidence

FEMALES						
	Group 1: Control 10 (10)	Group 2: 30 µg/ 10 (10)	Group 3: 10 µg/ 10 (10)	Group 4: 30 µg/ 10 (10)	Group 5: 100 µg/ 10 (10)	Group 6: 30 µg/ 10 (10)
<b>OBSERVATIONS: NEO-PLASTIC AND NON NEO-PLASTIC</b>						
Removal Reasons: Main Study Animals						
Number of Animals on Study : Number of Animals Completed:						
EPIDIDYMIS, RIGHT;						
Examined.....	(-)	(-)	(-)	(-)	(-)	(-)
Within Normal Limits.....	-	-	-	-	-	-
Infiltration, Lymphocytic .....	-	-	-	-	-	-
Infiltration; mixed .....	-	-	-	-	-	-
ESOPHAGUS;						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
EYE, LEFT;						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	90.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Pigmentation; brown; macrophage .....	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%
EYE, RIGHT;						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits .....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
HARDERIAN GLAND, LEFT;						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	90.0%	70.0%	60.0%	70.0%	90.0%	60.0%
Infiltration, Lymphocytic .....	0.0%	20.0%	0.0%	10.0%	10.0%	10.0%
Infiltration; lymphohistiocytic .....	10.0%	10.0%	10.0%	10.0%	0.0%	0.0%
Infiltration; mixed .....	0.0%	0.0%	20.0%	10.0%	0.0%	0.0%
Pigmentation; brown; macrophage .....	0.0%	0.0%	0.0%	10.0%	0.0%	0.0%
Inflammation; granulomatous .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Inflammation; purulent .....	0.0%	0.0%	0.0%	0.0%	10.0%	0.0%
Inflammation, Chronic .....	0.0%	0.0%	10.0%	0.0%	0.0%	0.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Microscopic Findings by Incidence

- - - - - FEMALEs - - - - -						
	Number of Animals on Study : Number of Animals Completed:	Group 1: Control (10)	Group 2: 30 µg/ 10 (10)	Group 3: 10 µg/ 10 (10)	Group 4: 30 µg/ 10 (10)	Group 5: 100 µg/ 10 (10)
<b>HARDERIAN GLAND, RIGHT;</b>						
Examined.....	100.0%	100.0%	90.0%	100.0%	100.0%	100.0%
Within Normal Limits.....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration; Lymphocytic .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Necrosis .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration; lymphohistiocytic .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration; mixed .....	0.0%	0.0%	10.0%	0.0%	0.0%	30.0%
Inflammation; Chronic .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>HEART;</b>						
Examined.....	100.0%	80.0%	90.0%	90.0%	100.0%	90.0%
Within Normal Limits.....	0.0%	10.0%	0.0%	0.0%	0.0%	0.0%
Infiltration; Lymphohistiocytic .....	0.0%	0.0%	0.0%	10.0%	0.0%	0.0%
Infiltration; mixed .....	0.0%	0.0%	10.0%	0.0%	0.0%	0.0%
Infiltration; Lymphocytic .....	0.0%	0.0%	10.0%	0.0%	0.0%	10.0%
<b>INJECTION SITE I;</b>						
Examined.....	100.0% **	100.0% **	100.0% **	100.0% **	100.0% **	100.0% **
Within Normal Limits.....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Fibrosis; intramuscular / interstitial .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hemorrhage .....	0.0%	0.0%	0.0%	10.0%	0.0%	0.0%
Hemorrhage; subcutis .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Inflammation; granulomatous .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Inflammation; lymphocytic; inter- / perimuscular .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Inflammation; lymphohistiocytic .....	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Inflammation; lymphohistiocytic; dermis; subcutis .....	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Inflammation; neutrophilic; dermis; epidermis .....	0.0%	0.0%	0.0%	0.0%	0.0%	10.0%
Inflammation; plasmacytic; perivasculan .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Inflammation; vascular .....	0.0%	0.0%	0.0%	0.0%	0.0%	10.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

		FEMALES						
	Number of Animals on Study : Number of Animals Completed:	Group 1: Control (10)	Group 2: 30 µg/ (10)	Group 3: 10 µg/ (10)	Group 4: 30 µg/ (10)	Group 5: 100 µg/ (10)	Group 6: 30 µg/ (10)	Group 7: 100 µg/ (10)
<b>INJECTION SITE I;</b> (continued)								
Inflammation; mixed .....		10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Inflammation; mixed; subcutis .....		0.0%	100.0% **	100.0% **	100.0% **	100.0% **	100.0% **	100.0% **
Inflammation; mixed; intramuscular / interstitial .....		0.0%	100.0% **	100.0% **	100.0% **	100.0% **	100.0% **	100.0% **
Inflammation; myofiber .....		0.0%	100.0% **	100.0% **	100.0% **	100.0% **	100.0% **	100.0% **
Necrosis; demis; subcutis .....		0.0%	0.0%	10.0%	0.0%	10.0%	0.0%	0.0%
Ulceration; epidermis .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Degeneration; myofiber .....		0.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Regeneration; muscle .....		0.0%	90.0% **	90.0% **	100.0% **	100.0% **	90.0% **	100.0% **
Foreign material; hair .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Edema; subcutis .....		0.0%	100.0% **	90.0% **	100.0% **	100.0% **	100.0% **	100.0% **
Edema; intramuscular / interstitial .....		0.0%	100.0% **	80.0% **	100.0% **	100.0% **	100.0% **	100.0% **
Edema; inter- / perimuscular		0.0%	100.0% **	100.0% **	100.0% **	100.0% **	100.0% **	100.0% **
Hypokeratosis; epidermal .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hyperplasia; epidermal .....		0.0%	90.0% **	70.0% **	80.0% **	100.0% **	100.0% **	100.0% **
Scab; epidermal .....		0.0%	20.0%	0.0%	0.0%	0.0%	10.0%	10.0%
Pustule; epidermal .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	10.0%
<b>INJECTION SITE II;</b>								
Examined.....		(10)	(0)	(0)	(0)	(0)	(0)	(0)
Within Normal Limits.....		50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Degeneration; myofiber .....		10.0%	0.0%	0.0%	0.0%	100.0% **	0.0%	100.0% **
Regeneration; muscle .....		10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hyperplasia; epidermal .....		0.0%	0.0%	0.0%	0.0%	100.0% **	0.0%	90.0% **
Scab; epidermal .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Edema; subcutis .....		0.0%	0.0%	0.0%	0.0%	100.0% **	0.0%	100.0% **
Edema; inter- / perimuscular .....		0.0%	0.0%	0.0%	0.0%	100.0% **	0.0%	100.0% **
Edema; intramuscular / interstitial .....		0.0%	0.0%	0.0%	0.0%	100.0% **	0.0%	100.0% **
Necrosis; myofiber .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

FEMALES						
	Number of Animals on Study : Number of Animals Completed:	Group 1: Control (10)	Group 2: 30 µg/ 10 (10)	Group 3: 10 µg/ 10 (10)	Group 4: 30 µg/ 10 (10)	Group 5: 100 µg/ 10 (10)
<b>INJECTION SITE II; (continued)</b>						
Necrosis; dermis; subcutis .....		0.0%	0.0%	0.0%	0.0%	0.0%
Necrosis; traumatic; myofiber .....		0.0%	0.0%	0.0%	0.0%	0.0%
Fibrosis; subcutis .....		0.0%	0.0%	0.0%	0.0%	0.0%
Fibrosis; inter- / perimuscular .....		0.0%	0.0%	0.0%	0.0%	0.0%
Fibrosis; intramuscular / interstitial .....		0.0%	0.0%	0.0%	0.0%	100.0% **
Ulceration; epidermal .....		0.0%	0.0%	0.0%	0.0%	100.0% **
Hemorrhage .....		0.0%	0.0%	0.0%	0.0%	0.0%
Inflammation; lymphohistiocytic .....		0.0%	0.0%	0.0%	0.0%	0.0%
Inflammation; mixed .....		40.0%	0.0%	0.0%	0.0%	0.0%
Inflammation; mixed .....		10.0%	0.0%	0.0%	0.0%	0.0%
Inflammation; mixed; subcutis .....		0.0%	0.0%	0.0%	0.0%	100.0% **
Inflammation; mixed; inter- / perimuscular .....		0.0%	0.0%	0.0%	0.0%	100.0% **
Inflammation; mixed; intramuscular / interstitial .....		0.0%	0.0%	0.0%	0.0%	100.0% **
<b>INTESTINE, CECUM;</b>						
Examined.....		(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....		100.0%	100.0%	90.0%	80.0%	100.0%
Hyperplasia; mucosa-associated lymphoid tissue .....		0.0%	0.0%	10.0%	0.0%	0.0%
Infiltration, Eosinophilic; increased .....		0.0%	0.0%	0.0%	20.0%	0.0%
<b>INTESTINE, COLON;</b>						
Examined.....		(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....		100.0%	100.0%	80.0%	80.0%	70.0%
Hyperplasia; mucosa-associated lymphoid tissue .....		0.0%	0.0%	20.0%	10.0%	30.0%
Infiltration, Eosinophilic; increased .....		0.0%	0.0%	0.0%	20.0%	10.0%
<b>INTESTINE, DUODENUM;</b>						
Examined.....		(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....		100.0%	100.0%	100.0%	100.0%	100.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

		FEMALES						
		Group 1: Control	Group 2: 30 µg/ 10	Group 3: 30 µg/ 10	Group 4: 30 µg/ 10	Group 5: 100 µg/ 10	Group 6: 30 µg/ 10	Group 7: 100 µg/ 10
	Number of Animals on Study : Number of Animals Completed:	(10)	(10)	(10)	(10)	(10)	(10)	(10)
INTESTINE, ILEUM; Examined.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Within Normal Limits.....								
INTESTINE, JEJUNUM; Examined.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Within Normal Limits.....								
INTESTINE, RECTUM; Examined.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Within Normal Limits.....								
Infiltration, Eosinophilic increased .....	0.0%	0.0%	0.0%	0.0%	50.0% *	20.0% *	0.0%	50.0% *
Hyperplasia; mucosa-associated lymphoid tissue .....	10.0%	20.0%	10.0%	10.0%	0.0%	10.0%	10.0%	10.0%
KIDNEY, LEFT; Examined.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Within Normal Limits.....								
Congestion .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Basophilia; tubule .....	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%
Infiltration, Lymphocytic .....	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%
Mineralization .....	0.0%	10.0%	10.0%	10.0%	0.0%	0.0%	0.0%	10.0%
Cyst; tubular .....	0.0%	0.0%	0.0%	0.0%	0.0%	10.0%	0.0%	0.0%
Inflammation, Chronic; interstitial .....	0.0%	10.0%	10.0%	10.0%	0.0%	0.0%	0.0%	0.0%
Cast; hyaline; tubule .....	0.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
KIDNEY, RIGHT; Examined.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Within Normal Limits.....								
Congestion .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Basophilia; tubule .....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

		FEMALES						
		Group 1: Control	Group 2: 30 µg/ 10	Group 3: 30 µg/ 10	Group 4: 30 µg/ 10	Group 5: 100 µg/ 10	Group 6: 30 µg/ 10	Group 7: 100 µg/ 10
	Number of Animals on Study : Number of Animals Completed:	(10)	(10)	(10)	(10)	(10)	(10)	(10)
<b>KIDNEY, RIGHT; (continued)</b>								
Infiltration, Lymphocytic . . . . .		10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Inflammation; purulent; pelvis . . . . .		10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Cast; hyaline; tubule . . . . .		0.0%	10.0%	10.0%	0.0%	0.0%	0.0%	0.0%
Mineralization . . . . .		0.0%	10.0%	0.0%	0.0%	0.0%	0.0%	20.0%
Dilation; tubule . . . . .		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration, Neutrophilic; subcapsular . . . . .		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>LAGRIMAL GLAND, LEFT;</b>								
Examined.....		(10)	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
<b>LAGRIMAL GLAND, RIGHT;</b>								
Examined.....		(10)	(10)	(9)	(10)	(10)	(10)	(10)
Within Normal Limits.....		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
<b>LIVER;</b>								
Examined.....		(10)	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Congestion . . . . .		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Hematopoiesis; extramedullary . . . . .		30.0%	30.0%	10.0%	70.0%	50.0%	60.0%	50.0%
Infiltration; mixed . . . . .		0.0%	0.0%	0.0%	10.0%	0.0%	0.0%	0.0%
Necrosis . . . . .		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration, Neutrophilic . . . . .		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration, Lymphocytic . . . . .		70.0%	10.0% *	30.0%	40.0%	0.0%	10.0% *	20.0%
Vacuolation; hepatocellular . . . . .		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Vacuolation; hepatocellular; periportal . . . . .		0.0%	100.0% **	60.0% *	100.0% ***	100.0% ***	100.0% ***	100.0% ***
Infiltration, Eosinophilic . . . . .		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Pigmentation; brown; kupffer cell . . . . .		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Microscopic Findings by Incidence

FEMALES						
	Group 1: Control (10)	Group 2: 30 µg/ 10 (10)	Group 3: 10 µg/ 10 (10)	Group 4: 30 µg/ 10 (10)	Group 5: 100 µg/ 10 (10)	Group 6: 30 µg/ 10 (10)
<b>LUNGS WITH BRONCHI;</b>						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	80.0%	70.0%	50.0%	30.0%	30.0%	50.0%
Ossification .....	0.0%	10.0%	0.0%	0.0%	10.0%	0.0%
Hemorrhage; acute .....	0.0%	0.0%	20.0%	10.0%	10.0%	0.0%
Hyperplasia; bronchial-associated lymphoid tissue .....	10.0%	20.0%	40.0%	40.0%	30.0%	50.0%
Infiltration; Eosinophilic; perivascular .....	10.0%	0.0%	10.0%	40.0%	20.0%	0.0%
Infiltration; foamy; macrophage; alveolar .....	0.0%	0.0%	0.0%	0.0%	10.0%	0.0%
Infiltration; lymphohistiocytic .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration; mixed .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Pigmentation; brown; macrophage .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
LYMPH NODE, CERVICAL;						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Histiocytosis .....	90.0%	90.0%	100.0%	100.0%	100.0%	80.0%
Erythrophagocytosis .....	0.0%	0.0%	0.0%	0.0%	0.0%	10.0%
Pigmentation; brown; macrophage .....	0.0%	0.0%	0.0%	0.0%	20.0%	10.0%
Hemorrhage .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Plasmacytosis .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Increased Cellularity; germinal center .....	80.0%	100.0%	100.0%	90.0%	100.0%	100.0%
LYMPH NODE, ILLIAC;						
Examined.....	(10)	(10)	(10)	(10)	(9)	(10)
Within Normal Limits.....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Histiocytosis .....	90.0%	90.0%	60.0%	70.0%	100.0% **	100.0% **
Plasmacytosis .....	0.0%	30.0%	70.0% **	80.0% **	100.0% **	70.0% **
Infiltration; Eosinophilic .....	0.0%	0.0%	0.0%	0.0%	11.1%	0.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Microscopic Findings by Incidence

FEMALES						
	Group 1: Control 30 µg/ 10 (10)	Group 2: 30 µg/ 10 (10)	Group 3: 30 µg/ 10 (10)	Group 4: 30 µg/ 10 (10)	Group 5: 100 µg/ 10 (10)	Group 6: 30 µg/ 10 (10)
Number of Animals on Study : Number of Animals Completed:						
Lymph Node, Iliac; (continued)						
Hemorrhage; acute .....	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Inflammation .....	0.0%	60.0% *	30.0% **	0.0%	77.8% **	70.0% **
Increased Cellularity; germinal center .....	30.0%	80.0%	100.0% **	80.0%	100.0% **	100.0% **
Lymph Node, Mesenteric;						
Examined.....	(9)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Erythrophagocytosis .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Histiocytosis .....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Infiltration, Eosinophilic .....	0.0%	0.0%	0.0%	0.0%	10.0%	0.0%
Increased Cellularity; germinal center .....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Lymph Node, Renal;						
Examined.....	(0)	(0)	(0)	(0)	(0)	(0)
Within Normal Limits .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Histiocytosis .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Pigmentation; brown; macrophage .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Plasmacytosis .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Increased Cellularity; germinal center .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
MAMMARY GLANDS;						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits .....	100.0%	100.0%	70.0%	100.0%	90.0%	70.0%
Inflammation; mixed; interstitium .....	0.0%	0.0%	30.0%	0.0%	10.0%	30.0%
Inflammation; mixed; interstitium; lymphatic .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

		FEMALES						
		Group 1: Control	Group 2: 30 µg/ 10	Group 3: 30 µg/ 10	Group 4: 30 µg/ 10	Group 5: 100 µg/ 10	Group 6: 30 µg/ 10	Group 7: 100 µg/ 10
	Number of Animals on Study : Number of Animals Completed:	(10)	(10)	(10)	(10)	(10)	(10)	(10)
<b>SKELETAL MUSCLE;</b>								
Examined.....	90.0%	90.0%	100.0%	100.0%	100.0%	70.0%	100.0%	100.0%
Within Normal Limits.....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration; lymphohistiocytic .....	0.0%	10.0%	0.0%	0.0%	0.0%	20.0%	0.0%	0.0%
Infiltration; mixed .....	0.0%	0.0%	0.0%	0.0%	0.0%	10.0%	0.0%	0.0%
Necrosis; myofiber .....	0.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration, Lymphocytic .....	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>NERVE, SCIATIC;</b>								
Examined.....	100.0%	100.0%	80.0%	60.0%	10.0%	10.0%	10.0%	10.0%
Within Normal Limits.....	0.0%	0.0%	10.0%	40.0%	100.0% **	0.0%	0.0%	0.0%
Inflammation; perineurial .....	0.0%	0.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Vacuolation .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>OPTIC NERVE, LEFT;</b>								
Examined.....	100.0%	100.0%	90.0%	100.0%	10.0%	90.0%	10.0%	10.0%
Within Normal Limits.....	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hemorrhage; acute .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Pigmentation; brown; macrophage .....	0.0%	0.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>OPTIC NERVE, RIGHT;</b>								
Examined.....	100.0%	88.9%	90.0%	90.0%	10.0%	10.0%	90.0%	10.0%
Within Normal Limits.....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Pigmentation; brown; macrophage .....	0.0%	11.1%	0.0%	0.0%	0.0%	0.0%	10.0%	0.0%
Hemorrhage; acute .....	0.0%	0.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration; foamy; macrophage .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

FEMALES						
	Group 1: Control	Group 2: 30 µg/ 10	Group 3: 30 µg/ 10	Group 4: 30 µg/ 10	Group 5: 100 µg/ 10	Group 6: 30 µg/ 10
Number of Animals on Study : Number of Animals Completed:	(10) (10)	(10) (10)	(10) (10)	(10) (10)	(10) (10)	(10) (10)
OVARY, LEFT; Examined..... Within Normal Limits.....	100.0% 100.0%	100.0% 100.0%	100.0% 100.0%	100.0% 100.0%	100.0% 100.0%	100.0% 100.0%
OVARY, RIGHT; Examined..... Within Normal Limits.....	100.0% 100.0%	100.0% 100.0%	100.0% 100.0%	100.0% 100.0%	100.0% 100.0%	100.0% 100.0%
OVIDUCT, LEFT; Examined..... Within Normal Limits.....	100.0% 100.0%	100.0% 100.0%	100.0% 100.0%	100.0% 100.0%	100.0% 100.0%	100.0% 100.0%
OVIDUCT, RIGHT; Examined..... Within Normal Limits.....	100.0% 100.0%	100.0% 100.0%	100.0% 100.0%	100.0% 100.0%	100.0% 100.0%	100.0% 100.0%
PANCREAS; Examined..... Within Normal Limits..... Atrophy; acinar cell .....	90.0% 10.0%	100.0% 0.0%	90.0% 0.0%	90.0% 0.0%	100.0% 0.0%	100.0% 0.0%
Hyperplasia; acinar cell .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration, Lymphocytic .....	0.0%	0.0%	10.0%	0.0%	0.0%	0.0%
PARATHYROID, LEFT; Examined..... Within Normal Limits.....	100.0% 90.0%	100.0% 100.0%	100.0% 100.0%	100.0% 100.0%	100.0% 100.0%	100.0% 100.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

FEMALES						
	Group 1: Control	Group 2: 30 µg/ 10	Group 3: 30 µg/ 10	Group 4: 30 µg/ 10	Group 5: 100 µg/ 10	Group 6: 30 µg/ 10
Number of Animals on Study : Number of Animals Completed:	(10)	(10)	(10)	(10)	(10)	(10)
PARATHYROID, LEFT; (continued) Fibrosis; interstitial .....	0.0%	10.0%	0.0%	0.0%	14.3%	0.0%
PARATHYROID, RIGHT; Examined..... Within Normal Limits.....	(9)	(10)	(6)	(9)	(6)	(8)
PEYERS PATCHES; Examined..... Within Normal Limits.....	(10)	(6)	(8)	(8)	(7)	(9)
Mineralization .....	0.0%	0.0%	12.5%	0.0%	0.0%	0.0%
Inflammation; Granulomatous; follicular .....	0.0%	0.0%	0.0%	0.0%	0.0%	14.3%
Increased Cellularity; germinal center .....	100.0%	100.0%	87.5%	100.0%	100.0%	100.0%
PITUITARY GLAND; Examined..... Within Normal Limits..... Cyst; pars distalis .....	(10)	(10)	(10)	(10)	(10)	(9)
PROSTATE GLAND; Examined..... Within Normal Limits..... Infiltration; mixed .....	(-)	(-)	(-)	(-)	(-)	(-)
Inflammation; purulent .....	-	-	-	-	-	-
Infiltration, lymphocytic .....	-	-	-	-	-	-

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

		FEMALES						
		Group 1: Control	Group 2: 30 µg/ 10	Group 3: 30 µg/ 10	Group 4: 30 µg/ 10	Group 5: 100 µg/ 10	Group 6: 30 µg/ 10	Group 7: 100 µg/ 10
	Number of Animals on Study : Number of Animals Completed:	(10)	(10)	(10)	(10)	(10)	(10)	(10)
SALIVARY GLANDS, MANDIBULAR; Examined.....	100.0%	(10)	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
SALIVARY GLANDS, SUBLINGUAL; Examined.....	100.0%	(9)	(10)	(10)	(9)	(10)	(10)	(10)
Within Normal Limits.....		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
SALIVARY GLANDS, PAROTIS; Examined.....	100.0%	(10)	(10)	(10)	(10)	(10)	(9)	(10)
Within Normal Limits.....		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Infiltration, Lymphocytic .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SEMINAL VESICLES; Examined.....	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
Within Normal Limits.....	-	-	-	-	-	-	-	-
Infiltration; surrounding tissue; fat .....	-	-	-	-	-	-	-	-
SKIN; Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Infiltration; mixed; dermis; subcutis .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration; mixed; subcutaneous .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Necrosis; muscular .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration, Neutrophilic; muscular .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SPINAL CORD; Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

- - - - - FEMALEs - - - - -						
	Group 1: Control	Group 2: 30 µg/ 10	Group 3: 30 µg/ 10	Group 4: 30 µg/ 10	Group 5: 100 µg/ 10	Group 6: 30 µg/ 10
Number of Animals on Study : Number of Animals Completed:	(10)	(10)	(10)	(10)	(10)	(10)
SPINAL CORD; (continued)						
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Cyst; keratinized .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SPLEN;						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	0.0%	10.0%	60.0%	10.0%	30.0% *	30.0%
Congestion .....	100.0%	90.0%	30.0% **	90.0%	40.0% *	70.0%
Hematopoiesis; increased .....	0.0%	0.0%	20.0%	0.0%	70.0% **	0.0%
STOMACH, GLANDULAR;						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	0.0%	30.0%	50.0%	0.0%	0.0%	60.0%
Infiltration, Eosinophilic .....	100.0%	50.0% *	40.0% *	100.0%	100.0%	30.0% **
Infiltration, Lymphocytic .....	0.0%	0.0%	10.0%	0.0%	0.0%	0.0%
Dilation; glandular .....	0.0%	10.0%	20.0%	10.0%	0.0%	10.0%
Cyst .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hyperplasia; chief cell .....	0.0%	10.0%	0.0%	0.0%	0.0%	10.0%
Hyperplasia; mucosa-associated lymphoid tissue .....	0.0%	10.0%	0.0%	0.0%	10.0%	0.0%
Infiltration, Neutrophilic; mucosa .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration; mixed .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
STOMACH, NONGLANDULAR;						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
TESTIS, LEFT;						
Examined.....	(-)	(-)	(-)	(-)	(-)	(-)
Within Normal Limits.....	-	-	-	-	-	-

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Microscopic Findings by Incidence

FEMALES						
	Group 1: Control (10)	Group 2: 30 µg/ 10 (10)	Group 3: 10 µg/ 10 (10)	Group 4: 30 µg/ 10 (10)	Group 5: 100 µg/ 10 (10)	Group 6: 300 µg/ 10 (10)
<b>Observations: Neo-Plastic and Non Neo-Plastic</b>						
Removal Reasons: Main Study Animals						
Number of Animals on Study :						
Number of Animals Completed:						
TESTIS, RIGHT;						
Examined.....	(-)	(-)	(-)	(-)	(-)	(-)
Within Normal Limits.....	-	-	-	-	-	-
THYMUS;						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	30.0%	20.0%	80.0%	60.0%	50.0%	50.0%
Cyst .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hemorrhage; acute .....	70.0%	80.0%	20.0%	40.0%	50.0%	40.0%
THYROID, LEFT;						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	90.0%	70.0%	90.0%	90.0%	100.0%	100.0%
Cyst; keratinized .....	10.0%	30.0%	10.0%	0.0%	10.0%	0.0%
THYROID, RIGHT;						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Cyst; keratinized .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
TONGUE;						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	90.0%	100.0%	100.0%	90.0%	100.0%	100.0%
Hemorrhage; acute .....	0.0%	0.0%	0.0%	10.0%	0.0%	0.0%
Infiltration, lymphocytic .....	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%
TRACHEA;						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

		FEMALES						
		Group 1: Control	Group 2: 30 µg/ 10	Group 3: 30 µg/ 10	Group 4: 30 µg/ 10	Group 5: 100 µg/ 10	Group 6: 30 µg/ 10	Group 7: 100 µg/ 10
	Number of Animals on Study : Number of Animals Completed:	(10)	(10)	(10)	(10)	(10)	(10)	(10)
<b>TRACHEA; (continued)</b>								
Within Normal Limits.....	80.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	100.0%
Infiltration; lymphohistiocytic .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration; mixed .....	20.0%	0.0%	10.0%	30.0%	10.0%	0.0%	0.0%	0.0%
Pigmentation; brown; macrophage .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration, lymphocytic .....	0.0%	10.0%	0.0%	0.0%	0.0%	0.0%	10.0%	0.0%
<b>URINARY BLADDER;</b>								
Examined.....	(10)	(10)	(10)	(10)	(9)	(10)	(10)	(10)
Within Normal Limits.....	90.0%	100.0%	100.0%	100.0%	88.9%	100.0%	90.0%	90.0%
Infiltration, Lymphocytic .....	10.0%	0.0%	0.0%	0.0%	11.1%	0.0%	0.0%	10.0%
<b>UTERUS;</b>								
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	100.0%	70.0%	60.0%	80.0%	100.0%	100.0%	100.0%	90.0%
Dilation .....	0.0%	30.0%	40.0%	20.0%	0.0%	0.0%	0.0%	10.0%
<b>VAGINA;</b>								
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	70.0%	50.0%	50.0%	90.0%	80.0%	60.0%	70.0%	70.0%
Keratinization; epithelial .....	30.0%	50.0%	50.0%	10.0%	20.0%	40.0%	30.0%	30.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Microscopic Findings by Incidence

MALES						
	Group 1: Control 5 (5)	Group 2: 30 µg/ 5 (5)	Group 3: 10 µg/ 5 (5)	Group 4: 30 µg/ 5 (5)	Group 5: 100 µg/ 5 (5)	Group 6: 30 µg/ 5 (5)
<b>Observations: Neo-Plastic and Non Neo-Plastic</b>						
Removal Reasons: Recovery Period Animals						
Number of Animals on Study : Number of Animals Completed:						
ADRENAL GLAND, LEFT;						
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....	80.0%	40.0%	80.0%	40.0%	60.0%	80.0%
Dilation; vascular .....	20.0%	60.0%	20.0%	60.0%	40.0%	20.0%
Infiltration, Lymphocytic .....	0.0%	0.0%	0.0%	0.0%	20.0%	0.0%
ADRENAL GLAND, RIGHT;						
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....	80.0%	60.0%	100.0%	80.0%	60.0%	60.0%
Dilation; vascular .....	20.0%	40.0%	0.0%	0.0%	20.0%	40.0%
AORTA ABDOMINALIS;						
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
BONE, OS FEMORIS WITH JOINT;						
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	80.0%	100.0%
Infiltration, Lymphocytic; surrounding tissue .....	0.0%	0.0%	0.0%	0.0%	20.0%	0.0%
Infiltration; lymphohistiocytic; surrounding tissue .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
BONE MARROW, OS FEMORIS WITH JOINT;						
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
BONE, STERNUM;						
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

MALES							
	Group 1: Control	Group 2: 30 µg/ 5	Group 3: 10 µg/ 5	Group 4: 30 µg/ 5	Group 5: 100 µg/ 5	Group 6: 30 µg/ 5	Group 7: 100 µg/ 5
Number of Animals on Study : Number of Animals Completed:	(5)	(5)	(5)	(5)	(5)	(5)	(5)
BRAIN, BRAIN STEM; Examined.....Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
BRAIN, CEREBELLUM; Examined.....Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
BRAIN, CEREBRUM; Examined.....Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
CERVIX; Examined.....Within Normal Limits.....Keratinization; epithelial Cyst; keratinized .....	(-)	(-)	(-)	(-)	(-)	(-)	(-)
EPIDIDYMIS, LEFT; Examined.....Within Normal Limits.....Infiltration, Lymphocytic .....	(5)	(5)	(5)	(5)	(5)	(5)	(5)
EPIDIDYMIS, RIGHT; Examined.....Within Normal Limits.....Infiltration, Lymphocytic . Oligospermia .....	(5)	(5)	(5)	(5)	(5)	(5)	(5)

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

MALES						
	Group 1: Control 5 (5)	Group 2: 30 µg/ 5 (5)	Group 3: 10 µg/ 5 (5)	Group 4: 30 µg/ 5 (5)	Group 5: 100 µg/ 5 (5)	Group 6: 30 µg/ 5 (5)
Number of Animals on Study : Number of Animals Completed:	100.0% (5)	100.0% (5)	100.0% (5)	100.0% (5)	100.0% (5)	100.0% (5)
ESOPHAGUS;						
Examined.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Within Normal Limits.....						
EYE, LEFT;						
Examined.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Within Normal Limits.....						
EYE, RIGHT;						
Examined.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Within Normal Limits.....						
HARDERIAN GLAND, LEFT;						
Examined.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Within Normal Limits.....						
Infiltration, Lymphocytic .....	0.0%	0.0%	0.0%	0.0%	20.0%	0.0%
Pigmentation; brown; macrophage .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Inflammation, Chronic .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
HARDERIAN GLAND, RIGHT;						
Examined.....	100.0%	80.0%	100.0%	100.0%	100.0%	100.0%
Within Normal Limits.....						
Infiltration, Lymphocytic .....	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%
Infiltration; mixed .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Inflammation, Chronic .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
HEART;						
Examined.....	100.0%	60.0%	80.0%	80.0%	100.0%	100.0%
Within Normal Limits.....						
Infiltration; lymphohistiocytic .....	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Microscopic Findings by Incidence

MALES						
	Group 1: Control 5 (5)	Group 2: 30 µg/ 5 (5)	Group 3: 10 µg/ 5 (5)	Group 4: 30 µg/ 5 (5)	Group 5: 100 µg/ 5 (5)	Group 6: 30 µg/ 5 (5)
HEART; (continued) Infiltration, lymphocytic . . . . .	0.0%	20.0%	20.0%	20.0%	0.0%	0.0%
INJECTION SITE I; Examined.....	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....	100.0%	0.0%	0.0%	0.0%	0.0%	80.0%
Fibrosis; intramuscular / interstitial	0.0%	20.0%	60.0%	80.0% *	80.0% *	0.0%
Fibrosis; inter- / perimuscular .....	0.0%	100.0% **	100.0% **	100.0% **	100.0% **	100.0% **
Inflammation; lymphohistiocytic; intramuscular / interstitial .....	0.0%	40.0%	40.0%	80.0% *	80.0% *	20.0%
Inflammation; lymphohistiocytic; inter- / perimuscular .....	0.0%	100.0% **	80.0% *	100.0% **	100.0% **	60.0%
Mineralization; inter- / perimuscular .....	0.0%	40.0%	0.0%	0.0%	0.0%	100.0% **
Multinucleated Macrophages; inter- / perimuscular .....	0.0%	40.0%	0.0%	0.0%	0.0%	0.0%
INJECTION SITE II; Examined.....	(5)	(1)	(0)	(0)	(5)	(0)
Within Normal Limits.....	100.0%	100.0%	0.0%	0.0%	0.0%	0.0%
Fibrosis; inter- / perimuscular .....	0.0%	0.0%	0.0%	100.0% **	100.0% **	0.0%
Fibrosis; intramuscular / interstitial	0.0%	0.0%	0.0%	80.0% *	80.0% *	80.0% *
Fibrosis; dermis; subcutis .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Inflammation; lymphohistiocytic; inter- / perimuscular .....	0.0%	0.0%	0.0%	100.0% **	100.0% **	100.0% **
Inflammation; lymphohistiocytic; intramuscular / interstitial .....	0.0%	0.0%	0.0%	100.0% **	100.0% **	80.0% *
INTESTINE, CECUM; Examined.....	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....	80.0%	80.0%	100.0%	100.0%	100.0%	100.0%
Hyperplasia; mucosa-associated lymphoid tissue .....	20.0%	20.0%	0.0%	0.0%	0.0%	0.0%
INTESTINE, COLON; Examined.....	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....	100.0%	80.0%	20.0%	100.0%	60.0%	100.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

MALES						
	Group 1: Control 5 (5)	Group 2: 30 µg/ 5 (5)	Group 3: 10 µg/ 5 (5)	Group 4: 30 µg/ 5 (5)	Group 5: 100 µg/ 5 (5)	Group 6: 30 µg/ 5 (5)
Observations: Neo-Plastic and Non Neo-Plastic						
Removal Reasons: Recovery Period Animals						
Number of Animals on Study : Number of Animals Completed:						
INTESTINE, COLON; (continued)						
Hyperplasia; mucosa-associated lymphoid tissue . . . . .	0.0%	20.0% *	80.0% *	0.0%	40.0%	0.0%
Infiltration, Eosinophilic, increased . . . . .	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
INTESTINE, DUODENUM;						
Examined.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Within Normal Limits.....						
INTESTINE, ILEUM;						
Examined.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Within Normal Limits.....						
INTESTINE, JEJUNUM;						
Examined.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Within Normal Limits.....						
INTESTINE, RECTUM;						
Examined.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Within Normal Limits.....						
Infiltration, Eosinophilic, increased . . . . .	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hyperplasia; mucosa-associated lymphoid tissue . . . . .	20.0%	40.0%	40.0%	40.0%	40.0%	40.0%
Nematodiasis . . . . .	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
KIDNEY, LEFT;						
Examined.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Within Normal Limits.....						
Congestion . . . . .	20.0%	0.0%	20.0%	0.0%	0.0%	20.0%
Basophilia; tubule . . . . .	40.0%	0.0%	20.0%	20.0%	0.0%	20.0%
Infiltration, Lymphocytic . . . . .	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Cast; hyaline; tubule . . . . .						

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4)

Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

MALES						
	Group 1: Control 5 (5)	Group 2: 30 µg/ 5 (5)	Group 3: 10 µg/ 5 (5)	Group 4: 30 µg/ 5 (5)	Group 5: 100 µg/ 5 (5)	Group 6: 30 µg/ 5 (5)
Observations: Neo-Plastic and Non Neo-Plastic						Group 7: 100 µg/ 5 (5)
Removal Reasons: Recovery Period Animals						
Number of Animals on Study : Number of Animals Completed:	5 (5)	5 (5)	5 (5)	5 (5)	5 (5)	5 (5)
KIDNEY, LEFT; (continued)						
Degeneration; hyaline; tubule .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
KIDNEY, RIGHT;						
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Congestion .....	80.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Basophilia; tubule .....	0.0%	0.0%	20.0%	0.0%	0.0%	40.0%
Infiltration; Lymphocytic .....	20.0%	0.0%	0.0%	20.0%	0.0%	20.0%
Cast; hyaline; tubule .....	0.0%	0.0%	0.0%	0.0%	20.0%	0.0%
Mineralization .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Pyelonephritis .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Inflammation, Chronic; interstitial .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
LAGRIMAL GLAND, LEFT;						
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
LAGRIMAL GLAND, RIGHT;						
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
LIVER;						
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Congestion .....	100.0%	100.0%	80.0%	100.0%	80.0%	80.0%
Infiltration; mixed .....	0.0%	0.0%	0.0%	0.0%	0.0%	20.0%
Necrosis .....	0.0%	0.0%	0.0%	20.0%	0.0%	20.0%
Infiltration, Lymphocytic .....	80.0%	100.0%	100.0%	80.0%	40.0%	40.0%
Vacuolation; hepatocellular .....	0.0%	0.0%	0.0%	20.0%	0.0%	0.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

MALES						
	Group 1: Control (5)	Group 2: 30 µg/ (5)	Group 3: 10 µg/ (5)	Group 4: 30 µg/ (5)	Group 5: 100 µg/ (5)	Group 6: 30 µg/ (5)
<b>Number of Animals on Study : Number of Animals Completed:</b>						
LIVER; (continued) Vacuolation; hepatocellular; periportal .....	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%
LUNGS WITH BRONCHI;						
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....	20.0%	20.0%	60.0%	20.0%	40.0%	20.0%
Ossification .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hemorrhage; acute .....	0.0%	20.0%	0.0%	40.0%	20.0%	60.0%
Hyperplasia; bronchial-associated lymphoid tissue .....	60.0%	60.0%	40.0%	60.0%	40.0%	60.0%
Infiltration, Eosinophilic; perivascular .....	20.0%	20.0%	0.0%	0.0%	0.0%	0.0%
Infiltration; macrophage; alveolus .....	0.0%	20.0%	0.0%	20.0%	0.0%	0.0%
Infiltration; mixed .....	0.0%	0.0%	20.0%	0.0%	0.0%	0.0%
Pigmentation; brown; macrophage .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
LYMPH NODE, CERVICAL;						
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Histiocytosis .....	100.0%	100.0%	100.0%	60.0%	100.0%	100.0%
Pigmentation; brown; macrophage .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Increased Cellularity; germinal center .....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
LYMPH NODE, ILLIAC;						
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Histiocytosis .....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Plasmacytosis .....	0.0%	0.0%	0.0%	40.0%	60.0%	0.0%
Infiltration; macrophage .....	0.0%	0.0%	20.0%	20.0%	100.0% **	60.0%
Increased Cellularity; germinal center .....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

**HISTOPATHOLOGY REPORT**

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

		MALES						
		Group 1: Control	Group 2: 30 µg/ 5	Group 3: 10 µg/ 5	Group 4: 30 µg/ 5	Group 5: 100 µg/ 5	Group 6: 30 µg/ 5	Group 7: 100 µg/ 5
Observations:	Number of Animals on Study : Number of Animals Completed:	(5)	(5)	(5)	(5)	(5)	(5)	(5)
NEO-PLASTIC;								
Examined.....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Within Normal Limits.....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Erythrocytosis .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Histiocytosis .....		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Pigmentation; macrophage .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Increased Cellularity; germinal center .....		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
MAMMARY GLANDS;								
Examined.....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Within Normal Limits.....		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
SKELETAL MUSCLE;								
Examined.....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Within Normal Limits.....		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Infiltration; lymphohistiocytic .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration, Lymphocytic .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
NERVE, SCIATIC;								
Examined.....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Within Normal Limits.....		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Inflammation; perineurial .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
OPTIC NERVE, LEFT;								
Examined.....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Within Normal Limits.....		100.0%	80.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Pigmentation; brown; macrophage .....		0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

MALES							
	Group 1: Control (5)	Group 2: 30 µg/ (5)	Group 3: 10 µg/ (5)	Group 4: 30 µg/ (5)	Group 5: 100 µg/ (5)	Group 6: 30 µg/ (5)	Group 7: 100 µg/ (5)
Number of Animals on Study : Number of Animals Completed:							
OPTIC NERVE, RIGHT;							
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....	100.0%	80.0%	80.0%	80.0%	100.0%	100.0%	100.0%
Pigmentation; brown; macrophage .....	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hemorrhage; acute .....	0.0%	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%
Infiltration; foamy; macrophage .....	0.0%	0.0%	0.0%	20.0%	0.0%	0.0%	0.0%
OVARY, LEFT;							
Examined.....	(-)	(-)	(-)	(-)	(-)	(-)	(-)
Within Normal Limits.....	-	-	-	-	-	-	-
OVARY, RIGHT;							
Examined.....	(-)	(-)	(-)	(-)	(-)	(-)	(-)
Within Normal Limits.....	-	-	-	-	-	-	-
OVIDUCT, LEFT;							
Examined.....	(-)	(-)	(-)	(-)	(-)	(-)	(-)
Within Normal Limits.....	-	-	-	-	-	-	-
OVIDUCT, RIGHT;							
Examined.....	(-)	(-)	(-)	(-)	(-)	(-)	(-)
Within Normal Limits.....	-	-	-	-	-	-	-
PANCREAS;							
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Infiltration, Lymphocytic .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

		MALES						
		Group 1: Control	Group 2: 30 µg/ 5	Group 3: 10 µg/ 5	Group 4: 30 µg/ 5	Group 5: 100 µg/ 5	Group 6: 30 µg/ 5	Group 7: 100 µg/ 5
Observations: Neo-Plastic and Non Neo-Plastic								
Removal Reasons: Recovery Period Animals								
Number of Animals on Study :		5	5	5	5	5	5	5
Number of Animals Completed:		(5)	(5)	(5)	(5)	(5)	(5)	(5)
PARATHYROID, LEFT;								
Examined.....	Within Normal Limits.....	(2)	(2)	(3)	(5)	(5)	(4)	(4)
PARATHYROID, RIGHT;								
Examined.....	Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
PEYERS PATCHES;								
Examined.....	Within Normal Limits.....	(4)	(3)	(4)	(5)	(5)	(5)	(5)
Mineralization .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Inflammation, Granulomatous; follicular .....		25.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Increased Cellularity; germinal center .....		25.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
PITUITARY GLAND;								
Examined.....	Within Normal Limits.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)
Cyst; pars distalis .....		80.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Cyst; pars intermedia .....		0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%
PROSTATE GLAND;								
Examined.....	Within Normal Limits.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)
Inflammation; purulent .....		100.0%	80.0%	40.0%	20.0%	80.0%	40.0%	60.0%
Infiltration, Lymphocytic .....		0.0%	0.0%	0.0%	0.0%	20.0%	20.0%	0.0%
		0.0%	20.0%	60.0%	80.0% *	0.0%	40.0%	40.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

		MALES						
		Group 1: Control	Group 2: 30 µg/ 5	Group 3: 10 µg/ 5	Group 4: 30 µg/ 5	Group 5: 100 µg/ 5	Group 6: 30 µg/ 5	Group 7: 100 µg/ 5
Observations: Neo-Plastic and Non Neo-Plastic								
Removal Reasons: Recovery Period Animals								
Number of Animals on Study :								
Number of Animals Completed:								
SALIVARY GLANDS, MANDIBULAR; Examined.....Within Normal Limits.....		(5)	(5)	(5)	(5)	(5)	(5)	(5)
SALIVARY GLANDS, SUBLINGUAL; Examined.....Within Normal Limits.....		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
SALIVARY GLANDS, PAROTIS; Examined.....Within Normal Limits.....		(5)	(5)	(5)	(5)	(5)	(5)	(5)
SEMINAL VESICLES; Examined.....Within Normal Limits.....Infiltration, Lymphocytic .....		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
SKIN; Examined.....Within Normal Limits.....		(5)	(5)	(5)	(5)	(5)	(5)	(5)
SPINAL CORD; Examined.....Within Normal Limits.....		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
SPLAEN;		(5)	(5)	(5)	(5)	(5)	(5)	(5)
Fisher's Two-Tailed Exact Test Performed: * = 5% Significance Level ** = 1% Significance Level.		40.0%	20.0%	60.0%	60.0%	60.0%	60.0%	60.0%

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Microscopic Findings by Incidence

MALES						
	Group 1: Control (5)	Group 2: 30 µg/ (5)	Group 3: 10 µg/ (5)	Group 4: 30 µg/ (5)	Group 5: 100 µg/ (5)	Group 6: 30 µg/ (5)
Number of Animals on Study : Number of Animals Completed:	5 (5)	5 (5)	5 (5)	5 (5)	5 (5)	5 (5)
SPLEEN; (continued)						
Congestion .....	60.0%	80.0%	40.0%	40.0%	40.0%	40.0%
STOMACH, GLANDULAR;						
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....	0.0%	0.0%	0.0%	40.0%	20.0%	0.0%
Infiltration, Eosinophilic .....	100.0%	100.0%	100.0%	60.0%	80.0%	100.0%
Dilation; Glandular .....	0.0%	0.0%	20.0%	0.0%	20.0%	0.0%
Cyst .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hyperplasia; mucosa-associated lymphoid tissue .....	0.0%	0.0%	0.0%	0.0%	0.0%	20.0%
STOMACH, NONGLANDULAR;						
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
TESTIS, LEFT;						
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits .....	60.0%	100.0%	100.0%	80.0%	100.0%	100.0%
Spermatid Giant Cells .....	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dilation; tubular .....	20.0%	0.0%	0.0%	20.0%	0.0%	0.0%
TESTIS, RIGHT;						
Examined.....	(5)	(4)	(5)	(5)	(5)	(5)
Within Normal Limits .....	80.0%	100.0%	100.0%	80.0%	100.0%	100.0%
Dilation; tubular .....	20.0%	0.0%	0.0%	20.0%	0.0%	0.0%
Infiltration; lymphoplasmacytic .....	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Spermatocoele .....	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

MALES						
	Group 1: Control	Group 2: 30 µg/ 5	Group 3: 10 µg/ 5	Group 4: 30 µg/ 5	Group 5: 100 µg/ 5	Group 6: 30 µg/ 5
Number of Animals on Study : Number of Animals Completed:	(5)	(5)	(5)	(5)	(5)	(5)
THYMUS;						
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....	60.0%	80.0%	60.0%	80.0%	60.0%	40.0%
Hemorrhage; acute .....	40.0%	20.0%	40.0%	20.0%	40.0%	60.0%
THYROID, LEFT;						
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....	80.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Cyst; keratinized .....	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%
THYROID, RIGHT;						
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Cyst; keratinized .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
TONGUE;						
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....	100.0%	100.0%	80.0%	100.0%	100.0%	100.0%
Granuloma .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Granuloma; hair .....	0.0%	0.0%	20.0%	0.0%	0.0%	0.0%
TRACHEA;						
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....	100.0%	80.0%	100.0%	80.0%	100.0%	100.0%
Infiltration; lymphohistiocytic .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration, Lymphocytic .....	0.0%	20.0%	0.0%	20.0%	0.0%	0.0%
URINARY BLADDER;						
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

MALES						
	Group 1: Control	Group 2: 30 µg/	Group 3: 10 µg/	Group 4: 5 µg/	Group 5: 100 µg/	Group 6: 30 µg/
Number of Animals on Study :	5	5	5	5	5	5
Number of Animals Completed:	(5)	(5)	(5)	(5)	(5)	(5)
URINARY BLADDER; (continued)						
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Infiltration, Lymphocytic .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
UTERUS;						
Examined.....	(-)	(-)	(-)	(-)	(-)	(-)
Within Normal Limits.....	-	-	-	-	-	-
Dilation .....	-	-	-	-	-	-
VAGINA;						
Examined.....	(-)	(-)	(-)	(-)	(-)	(-)
Within Normal Limits.....	-	-	-	-	-	-
Keratinization; epithelial .....	-	-	-	-	-	-

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

		FEMALES						
		Group 1: Control	Group 2: 30 µg/ 5	Group 3: 10 µg/ 5	Group 4: 30 µg/ 5	Group 5: 100 µg/ 5	Group 6: 30 µg/ 5	Group 7: 100 µg/ 5
Observations: Neo-Plastic and Non Neo-Plastic								
Removal Reasons: Recovery Period Animals								
Number of Animals on Study :								
Number of Animals Completed:								
ADRENAL GLAND, LEFT;								
Examined.....		(5)	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....		40.0%	80.0%	40.0%	60.0%	100.0%	80.0%	80.0%
Dilation; vascular .....		60.0%	20.0%	60.0%	40.0%	0.0%	20.0%	20.0%
Infiltration, Lymphocytic .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
ADRENAL GLAND, RIGHT;								
Examined.....		(5)	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....		80.0%	80.0%	100.0%	60.0%	100.0%	100.0%	80.0%
Dilation; vascular .....		20.0%	20.0%	0.0%	40.0%	0.0%	0.0%	20.0%
AORTA ABDOMINALIS;								
Examined.....		(5)	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
BONE, OS FEMORIS WITH JOINT;								
Examined.....		(5)	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....		100.0%	100.0%	100.0%	100.0%	80.0%	100.0%	100.0%
Infiltration, Lymphocytic; surrounding tissue .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration; lymphohistiocytic; surrounding tissue .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
BONE MARROW, OS FEMORIS WITH JOINT;								
Examined.....		(5)	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
BONE, STERNUM;								
Examined.....		(5)	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

		FEMALES						
		Group 1: Control	Group 2: 30 µg/ 5	Group 3: 10 µg/ 5	Group 4: 30 µg/ 5	Group 5: 100 µg/ 5	Group 6: 30 µg/ 5	Group 7: 100 µg/ 5
Observations: Neo-Plastic and Non Neo-Plastic								
Removal Reasons: Recovery Period Animals								
Number of Animals on Study : Number of Animals Completed:		(5)	(5)	(5)	(5)	(5)	(5)	(5)
BRAIN, BRAIN STEM; Examined..... Within Normal Limits.....		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
BRAIN, CEREBELLUM; Examined..... Within Normal Limits.....		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
BRAIN, CEREBRUM; Examined..... Within Normal Limits.....		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
CERVIX; Examined..... Within Normal Limits..... Keratinization; epithelial Cyst; keratinized .....		80.0% 20.0% 0.0%	40.0% 60.0% 0.0%	60.0% 40.0% 0.0%	20.0% 80.0% 0.0%	40.0% 60.0% 0.0%	60.0% 40.0% 0.0%	60.0% 40.0% 0.0%
EPIDIDYMIS, LEFT; Examined..... Within Normal Limits..... Infiltration, Lymphocytic		(-)	(-)	(-)	(-)	(-)	(-)	(-)
EPIDIDYMIS, RIGHT; Examined..... Within Normal Limits..... Infiltration, Lymphocytic Oligospermia .....		(-)	(-)	(-)	(-)	(-)	(-)	(-)

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Microscopic Findings by Incidence

		FEMALES						
		Group 1: Control 5 (5)	Group 2: 30 µg/ 5 (5)	Group 3: 10 µg/ 5 (5)	Group 4: 30 µg/ 5 (5)	Group 5: 100 µg/ 5 (5)	Group 6: 30 µg/ 5 (5)	Group 7: 100 µg/ 5 (5)
<b>Observations: Neo-Plastic and Non Neo-Plastic</b>								
Removal Reasons: Recovery Period Animals	Number of Animals on Study : Number of Animals Completed:	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
ESOPHAGUS;								
Examined.....		(5)	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
EYE, LEFT;								
Examined.....		(5)	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
EYE, RIGHT;								
Examined.....		(5)	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
HARDERIAN GLAND, LEFT;								
Examined.....		(5)	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Infiltration, Lymphocytic .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Pigmentation; brown; macrophage .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Inflammation, Chronic .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
HARDERIAN GLAND, RIGHT;								
Examined.....		(5)	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....		80.0%	80.0%	80.0%	80.0%	100.0%	100.0%	80.0%
Infiltration, Lymphocytic .....		20.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration; mixed .....		0.0%	0.0%	20.0%	0.0%	0.0%	0.0%	20.0%
Inflammation, Chronic .....		0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%
HEART;								
Examined.....		(5)	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Infiltration; lymphohistiocytic .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

		FEMALES						
		Group 1: Control 5 (5)	Group 2: 30 µg/ 5 (5)	Group 3: 10 µg/ 5 (5)	Group 4: 30 µg/ 5 (5)	Group 5: 100 µg/ 5 (5)	Group 6: 30 µg/ 5 (5)	Group 7: 100 µg/ 5 (5)
Number of Animals on Study : Number of Animals Completed:								
HEART; (continued) Infiltration, lymphocytic .....		0.0%	0.0%	0.0%	0.0%	20.0%	0.0%	0.0%
INJECTION SITE I; Examined.....		(5)	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....		100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.0%
Fibrosis; intramuscular / interstitial		0.0%	60.0%	20.0%	80.0% *	20.0%	0.0%	80.0% *
Fibrosis; inter- / perimuscular .....		0.0%	100.0% **	100.0% *	100.0% **	100.0% **	80.0% *	80.0% *
Inflammation; lymphohistiocytic; intramuscular / interstitial .....		0.0%	80.0% *	20.0%	80.0% *	20.0%	0.0%	80.0% *
Inflammation; lymphohistiocytic; inter- / perimuscular .....		0.0%	80.0% *	60.0%	100.0% **	80.0% *	60.0%	80.0% *
Mineralization; inter- / perimuscular .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Multinucleated Macrophages; inter- / perimuscular .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
INJECTION SITE II; Examined.....		(5)	(1)	(0)	(0)	(5)	(0)	(5)
Within Normal Limits.....		100.0%	0.0%	0.0%	0.0%	20.0%	0.0%	20.0%
Fibrosis; inter- / perimuscular .....		0.0%	100.0%	0.0%	0.0%	80.0% *	0.0%	80.0% *
Fibrosis; intramuscular / interstitial		0.0%	0.0%	0.0%	0.0%	40.0%	0.0%	40.0%
Fibrosis; dermis; subcutis .....		0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Inflammation; lymphohistiocytic; inter- / perimuscular .....		0.0%	0.0%	0.0%	0.0%	60.0%	0.0%	80.0% *
Inflammation; lymphohistiocytic; intramuscular / interstitial .....		0.0%	0.0%	0.0%	0.0%	40.0%	0.0%	60.0%
INTESTINE, CECUM; Examined.....		(5)	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....		100.0%	80.0%	80.0%	20.0%	100.0%	100.0%	100.0%
Hyperplasia; mucosa-associated lymphoid tissue .....		0.0%	20.0%	20.0%	0.0%	0.0%	0.0%	0.0%
INTESTINE, COLON; Examined.....		(5)	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....		100.0%	100.0%	80.0%	100.0%	80.0%	80.0%	80.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

		FEMALES						
		Group 1: Control 5 (5)	Group 2: 30 µg/ 5 (5)	Group 3: 10 µg/ 5 (5)	Group 4: 30 µg/ 5 (5)	Group 5: 100 µg/ 5 (5)	Group 6: 30 µg/ 5 (5)	Group 7: 100 µg/ 5 (5)
<b>Observations: Neo-Plastic and Non Neo-Plastic</b>								
<b>Removal Reasons: Recovery Period Animals</b>								
Number of Animals on Study :								
Number of Animals Completed:								
INTESTINE, COLON; (continued)								
Hyperplasia; mucosa-associated lymphoid tissue . . . . .		0.0%	0.0%	20.0%	0.0%	0.0%	20.0%	0.0%
Infiltration, Eosinophilic, increased . . . . .		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.0%
INTESTINE, DUODENUM;								
Examined.....		(5)	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
INTESTINE, ILEUM;								
Examined.....		(5)	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
INTESTINE, JEJUNUM;								
Examined.....		(5)	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
INTESTINE, RECTUM;								
Examined.....		(5)	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....		60.0%	80.0%	100.0%	80.0%	100.0%	100.0%	60.0%
Infiltration, Eosinophilic, increased . . . . .		20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.0%
Hyperplasia; mucosa-associated lymphoid tissue . . . . .		0.0%	20.0%	0.0%	20.0%	0.0%	0.0%	0.0%
Nematodiasis .....		20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
KIDNEY, LEFT;								
Examined.....		(5)	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....		0.0%	0.0%	0.0%	20.0%	0.0%	0.0%	0.0%
Congestion .....		100.0%	100.0%	100.0%	80.0%	100.0%	100.0%	100.0%
Basophilia; tubule .....		20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration, Lymphocytic .....		0.0%	20.0%	0.0%	0.0%	20.0%	0.0%	0.0%
Cast; hyaline; tubule .....		20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Microscopic Findings by Incidence

FEMALES						
	Group 1: Control 5 (5)	Group 2: 30 µg/ 5 (5)	Group 3: 10 µg/ 5 (5)	Group 4: 30 µg/ 5 (5)	Group 5: 100 µg/ 5 (5)	Group 6: 30 µg/ 5 (5)
<b>KIDNEY, LEFT; (continued)</b>						
Degeneration; hyaline; tubule .....	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%
KIDNEY, RIGHT;						
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Congestion .....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Basophilia; tubule .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration, Lymphocytic .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Cast; hyaline; tubule .....	20.0%	0.0%	20.0%	0.0%	20.0%	0.0%
Mineralization .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Pyleonephritis .....	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%
Inflammation, Chronic; interstitial .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
LAGRINAL GLAND, LEFT;						
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
LAGRINAL GLAND, RIGHT;						
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
LIVER;						
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Congestion.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Infiltration; mixed .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Necrosis .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration, Lymphocytic .....	40.0%	60.0%	80.0%	40.0%	80.0%	0.0%
Vacuolation; hepatocellular .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

		FEMALES						
		Group 1: Control 5 (5)	Group 2: 30 µg/ 5 (5)	Group 3: 10 µg/ 5 (5)	Group 4: 30 µg/ 5 (5)	Group 5: 100 µg/ 5 (5)	Group 6: 30 µg/ 5 (5)	Group 7: 100 µg/ 5 (5)
Number of Animals on Study : Number of Animals Completed:								
LIVER; (continued) Vacuolation; hepatocellular; periportal .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
LUNGS WITH BRONCHI; Examined.....		(5)	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....		60.0%	20.0%	80.0%	40.0%	60.0%	100.0%	40.0%
Ossification .....		20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hemorrhage; acute .....		20.0%	40.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hyperplasia; bronchial-associated lymphoid tissue .....		20.0%	40.0%	0.0%	60.0%	20.0%	0.0%	20.0%
Infiltration, Eosinophilic; perivascular .....		0.0%	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%
Infiltration; macrophage; alveolus .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration; mixed .....		0.0%	0.0%	0.0%	0.0%	20.0%	0.0%	0.0%
Pigmentation; brown; macrophage .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.0%
LYMPH NODE, CERVICAL; Examined.....		(5)	(5)	(5)	(5)	(5)	(5)	(4)
Within Normal Limits.....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Histocytosis .....		100.0%	80.0%	100.0%	80.0%	100.0%	100.0%	100.0%
Pigmentation; brown; macrophage .....		0.0%	0.0%	0.0%	0.0%	20.0%	0.0%	0.0%
Increased Cellularity; germinal center .....		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
LYMPH NODE, ILLIAC; Examined.....		(5)	(5)	(5)	(5)	(5)	(5)	(4)
Within Normal Limits.....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Histocytosis .....		100.0%	100.0%	100.0%	60.0%	100.0%	100.0%	100.0%
Plasmacytosis .....		0.0%	60.0%	60.0%	60.0%	100.0% **	20.0% **	100.0% **
Infiltration; macrophage .....		0.0%	60.0%	0.0%	60.0%	100.0% **	100.0% **	100.0% **
Increased Cellularity; germinal center .....		80.0%	100.0%	100.0%	100.0%	100.0%	80.0%	100.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

		FEMALES						
		Group 1: Control	Group 2: 30 µg/ 5	Group 3: 10 µg/ 5	Group 4: 30 µg/ 5	Group 5: 100 µg/ 5	Group 6: 30 µg/ 5	Group 7: 100 µg/ 5
Observations:	Number of Animals on Study : Number of Animals Completed:	(5)	(5)	(5)	(5)	(5)	(5)	(5)
<b>LYMPH NODE, MESENTERIC;</b>								
Examined.....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Within Normal Limits.....	.....	.....	.....	.....	.....	.....	.....	.....
Erythrophagocytosis .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Histiocytosis .....	80.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Pigmentation; macrophage .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Increased Cellularity; germinat center .....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
<b>MAMMARY GLANDS;</b>								
Examined.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Within Normal Limits.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>SKELETAL MUSCLE;</b>								
Examined.....	100.0%	100.0%	80.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Within Normal Limits.....	.....	.....	.....	.....	.....	.....	.....	.....
Infiltration; lymphohistiocytic .....	0.0%	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration, Lymphocytic .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>NERVE, SCIATIC;</b>								
Examined.....	100.0%	100.0%	100.0%	100.0%	100.0%	80.0%	100.0%	80.0%
Within Normal Limits.....	.....	.....	.....	.....	.....	.....	.....	.....
Inflammation; perineurial .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>OPTIC NERVE, LEFT;</b>								
Examined.....	100.0%	100.0%	80.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Within Normal Limits.....	.....	.....	.....	.....	.....	.....	.....	.....
Pigmentation; brown; macrophage .....	0.0%	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

		FEMALES						
		Group 1: Control 5 (5)	Group 2: 30 µg/ 5 (5)	Group 3: 10 µg/ 5 (5)	Group 4: 30 µg/ 5 (5)	Group 5: 100 µg/ 5 (5)	Group 6: 30 µg/ 5 (5)	Group 7: 100 µg/ 5 (5)
<b>Observations: Neo-Plastic and Non Neo-Plastic</b>								
<b>Removal Reasons: Recovery Period Animals</b>								
	Number of Animals on Study : Number of Animals Completed:							
<b>OPTIC NERVE, RIGHT;</b>								
Examined.....	Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Pigmentation; brown; macrophage .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hemorrhage; acute .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration; foamy; macrophage .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>OVARY, LEFT;</b>								
Examined.....	Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
<b>OVARY, RIGHT;</b>								
Examined.....	Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
<b>OVIDUCT, LEFT;</b>								
Examined.....	Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
<b>OVIDUCT, RIGHT;</b>								
Examined.....	Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
<b>PANCREAS;</b>								
Examined.....	Within Normal Limits.....	100.0%	100.0%	100.0%	80.0%	100.0%	100.0%	100.0%
Infiltration, Lymphocytic .....		0.0%	0.0%	0.0%	20.0%	0.0%	0.0%	0.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

FEMALES						
	Group 1: Control 5 (5)	Group 2: 30 µg/ 5 (5)	Group 3: 10 µg/ 5 (5)	Group 4: 30 µg/ 5 (5)	Group 5: 100 µg/ 5 (5)	Group 6: 30 µg/ 5 (5)
Number of Animals on Study : Number of Animals Completed:	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
PARATHYROID, LEFT;						
Examined.....	(4)	(5)	(1)	(4)	(3)	(4)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
PARATHYROID, RIGHT;						
Examined.....	(3)	(5)	(4)	(2)	(4)	(4)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
PEYERS PATCHES;						
Examined.....	(5)	(5)	(5)	(5)	(4)	(4)
Within Normal Limits.....	0.0%	0.0%	0.0%	40.0%	0.0%	0.0%
Mineralization .....	0.0%	0.0%	20.0%	0.0%	25.0%	0.0%
Inflammation, Granulomatous; follicular .....	0.0%	0.0%	20.0%	20.0%	25.0%	0.0%
Increased Cellularity; germinal center .....	100.0%	100.0%	100.0%	60.0%	100.0%	80.0%
PITUITARY GLAND;						
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....	100.0%	100.0%	80.0%	100.0%	100.0%	100.0%
Cyst; pars distalis .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Cyst; pars intermedia .....	0.0%	0.0%	20.0%	0.0%	0.0%	0.0%
PROSTATE GLAND;						
Examined.....	(-)	(-)	(-)	(-)	(-)	(-)
Within Normal Limits.....	-	-	-	-	-	-
Inflammation; purulent .....	-	-	-	-	-	-
Infiltration, Lymphocytic .....	-	-	-	-	-	-

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

		FEMALES						
		Group 1: Control	Group 2: 30 µg/ 5	Group 3: 10 µg/ 5	Group 4: 30 µg/ 5	Group 5: 100 µg/ 5	Group 6: 30 µg/ 5	Group 7: 100 µg/ 5
Observations:	Number of Animals on Study : Number of Animals Completed:	(5)	(5)	(5)	(5)	(5)	(5)	(5)
SALIVARY GLANDS, MANDIBULAR; Examined.....Within Normal Limits.....	100.0%.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)
SALIVARY GLANDS, SUBLINGUAL; Examined.....Within Normal Limits.....	100.0%.....	(5)	(5)	(5)	(5)	(5)	(5)	(4)
SALIVARY GLANDS, PAROTIS; Examined.....Within Normal Limits.....	100.0%.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)
SEMINAL VESICLES; Examined.....Within Normal Limits.....Infiltration, Lymphocytic .....	100.0%.....	(5)	(5)	(5)	(5)	(5)	(5)	100.0%
SKIN; Examined.....Within Normal Limits.....Infiltration, Lymphocytic .....	100.0%.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)
SPINAL CORD; Examined.....Within Normal Limits.....	100.0%.....	(5)	(5)	(5)	(5)	(5)	(5)	100.0%
SPLEEN; Examined.....Within Normal Limits.....	60.0%.....	(5)	(5)	(5)	(5)	(5)	(5)	40.0%

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

FEMALES						
	Group 1: Control (5)	Group 2: 30 µg/ (5)	Group 3: 10 µg/ (5)	Group 4: 30 µg/ (5)	Group 5: 100 µg/ (5)	Group 6: 30 µg/ (5)
Number of Animals on Study : Number of Animals Completed:	5 (5)	5 (5)	5 (5)	5 (5)	5 (5)	5 (5)
SPLEEN; (continued)						
Congestion .....	40.0%	60.0%	80.0%	60.0%	40.0%	100.0%
STOMACH, GLANDULAR;						
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....	20.0%	0.0%	20.0%	0.0%	0.0%	20.0%
Infiltration, Eosinophilic .....	80.0%	100.0%	80.0%	100.0%	100.0%	80.0%
Dilation; Glandular .....	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Cyst .....	20.0%	0.0%	20.0%	0.0%	0.0%	20.0%
Hyperplasia; mucosa-associated lymphoid tissue .....	0.0%	0.0%	20.0%	0.0%	0.0%	0.0%
STOMACH, NONGLANDULAR;						
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)
Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
TESTIS, LEFT;						
Examined.....	(-)	(-)	(-)	(-)	(-)	(-)
Within Normal Limits .....	-	-	-	-	-	-
Spermatid Giant Cells .....	-	-	-	-	-	-
Dilation; tubular .....	-	-	-	-	-	-
TESTIS, RIGHT;						
Examined.....	(-)	(-)	(-)	(-)	(-)	(-)
Within Normal Limits .....	-	-	-	-	-	-
Dilation; tubular .....	-	-	-	-	-	-
Infiltration; lymphoplasmacytic .....	-	-	-	-	-	-
Spermatocoele .....	-	-	-	-	-	-

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Incidence

		FEMALES						
		Group 1: Control	Group 2: 30 µg/ 5	Group 3: 10 µg/ 5	Group 4: 30 µg/ 5	Group 5: 100 µg/ 5	Group 6: 30 µg/ 5	Group 7: 100 µg/ 5
<b>Observations: Neo-Plastic and Non Neo-Plastic</b>								
<b>Removal Reasons: Recovery Period Animals</b>								
Number of Animals on Study :	Number of Animals Completed:	(5)	(5)	(5)	(5)	(5)	(5)	(5)
THYMUS;								
Examined.....	Within Normal Limits.....	80.0%	60.0%	80.0%	60.0%	100.0%	60.0%	(5)
Hemorrhage; acute .....		20.0%	40.0%	20.0%	40.0%	0.0%	40.0%	20.0%
THYROID, LEFT;								
Examined.....	Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	(5)
Cyst; keratinized .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
THYROID, RIGHT;								
Examined.....	Within Normal Limits.....	100.0%	80.0%	100.0%	100.0%	100.0%	80.0%	(5)
Cyst; keratinized .....		0.0%	20.0%	0.0%	0.0%	0.0%	20.0%	0.0%
TONGUE;								
Examined.....	Within Normal Limits.....	100.0%	100.0%	100.0%	100.0%	100.0%	80.0%	(5)
Granuloma .....		0.0%	0.0%	0.0%	0.0%	0.0%	20.0%	0.0%
Granuloma; hair .....		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
TRACHEA;								
Examined.....	Within Normal Limits.....	100.0%	80.0%	80.0%	100.0%	100.0%	80.0%	(5)
Infiltration; lymphohistiocytic .....		0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infiltration, Lymphocytic .....		0.0%	0.0%	20.0%	0.0%	0.0%	0.0%	20.0%
URINARY BLADDER;								
Examined.....		(5)	(5)	(5)	(5)	(5)	(5)	(5)

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Microscopic Findings by Incidence

FEMALES						
	Group 1: Control 5 (5)	Group 2: 30 µg/ 5 (5)	Group 3: 10 µg/ 5 (5)	Group 4: 30 µg/ 5 (5)	Group 5: 100 µg/ 5 (5)	Group 6: 30 µg/ 5 (5)
Number of Animals on Study : Number of Animals Completed:	80.0% 20.0%	100.0% 0.0%	100.0% 0.0%	100.0% 0.0%	100.0% 0.0%	100.0% 0.0%
URINARY BLADDER; (continued)						
Within Normal Limits.....	100.0% 0.0%	100.0% 0.0%	80.0% 20.0%	100.0% 0.0%	80.0% 20.0%	100.0% 0.0%
Infiltration, Lymphocytic .....						
UTERUS;						
Examined.....	100.0% 0.0%	100.0% 0.0%	80.0% 20.0%	100.0% 0.0%	80.0% 20.0%	100.0% 0.0%
Within Normal Limits.....						
Dilation .....						
VAGINA;						
Examined.....	80.0% 20.0%	40.0% 60.0%	60.0% 40.0%	20.0% 80.0%	20.0% 80.0%	20.0% 80.0%
Within Normal Limits.....						
Keratinization; epithelial .....						

Fisher's Two-Tailed Exact Test Performed: \* = 5% Significance Level \*\* = 1% Significance Level.

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
Microscopic Findings by Severity

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Observations: Neo-Plastic and Non Neo-Plastic.....										MALES .....										FEMALES .....																	
Removal Reasons: Main Study Animals			Group 1: Control		Group 2: 30 µg/		Group 3: 10 µg/		Group 4: 30 µg/		Group 5: 100 µg/		Group 6: 300 µg/		Group 7: 1000 µg/		Group 1: Control		Group 2: 30 µg/		Group 3: 100 µg/		Group 4: 300 µg/		Group 5: 1000 µg/		Group 6: 30 µg/		Group 7: 100 µg/								
Number of Animals on Study :	10	10	10	10	10	10	10	10	10	10	10	10	10	10	Number of Animals Completed:	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)
ADRENAL GLAND, LEFT;																																					
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)									
Within Normal Limits.....	9	9	6	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9								
Dilation; vascular .....	(1)	(1)	(4)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)								
minimal .....	1	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1								
Hypertrophy; cortical .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)								
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
Vacuolation; cortical .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)								
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
ADRENAL GLAND, RIGHT;																																					
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)									
Within Normal Limits.....	9	9	7	10	8	10	8	10	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9								
Dilation; vascular .....	(1)	(1)	(3)	(0)	(2)	(0)	(2)	(0)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)								
minimal .....	1	1	3	0	2	0	2	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1								
Hypertrophy; cortical .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)								
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
Vacuolation; cortical .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)								
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
AORTA ABDOMINALIS;																																					
Examined.....	(10)	(9)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)									
Within Normal Limits.....	10	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10									
Not Examined: NOT PRESENT .....	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
BONE, OS FEMORIS WITH JOINT;																																					
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)									
Within Normal Limits.....	10	10	10	10	10	6	10	8	10	9	10	9	10	9	10	9	10	9	10	9	10	9	10	9	10	9	10	9	10								
Inflammation; mixed; surrounding tissue .....	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)							
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
Inflammation; mixed; surrounding tissue .....	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)							
focal .....	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
mild .....	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
moderate .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Severity

Observations: Neo-Plastic and Non Neo-Plastic.....										MALES .....										FEMALES .....																	
Removal Reasons: Main Study Animals										Group 1: Control		Group 2: 30 µg/ day		Group 3: 10 µg/ day		Group 4: 30 µg/ day		Group 5: 100 µg/ day		Group 6: 300 µg/ day		Group 7: 1000 µg/ day		Group 1: Control		Group 2: 30 µg/ day		Group 3: 100 µg/ day		Group 4: 300 µg/ day		Group 5: 1000 µg/ day		Group 6: 3000 µg/ day		Group 7: 10000 µg/ day	
Number of Animals on Study :										(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)									
Number of Animals Completed:										(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)									
BONE MARROW, OS FEMORIS WITH JOINT;																																					
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)									
Within Normal Limits.....	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
Increased Cellularity.....	(0)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)									
minimal .....	0	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10									
BONE, STERNUM;																																					
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)									
Within Normal Limits.....	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
Not Examined: NO SECTION .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
Infiltration; mixed; surrounding tissue;																																					
muscle; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)									
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
Infiltration; mixed; surrounding tissue;																																					
muscle; multifocal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)									
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
BRAIN, BRAIN STEM;																																					
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)									
Within Normal Limits.....	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10									
BRAIN, CEREBELLUM;																																					
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)									
Within Normal Limits.....	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10									
CERVIX;																																					
Examined.....	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)									
Within Normal Limits.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
Not Examined: NOT PRESENT .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
Keratinization; epithelial .....	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)									
minimal .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Severity

Observations: Neo-Plastic and Non Neo-Plastic.....										MALES .....										FEMALES .....																												
Removal Reasons: Main Study Animals			Group 1: Control			Group 2: 30 µg/			Group 3: 10 µg/			Group 4: 30 µg/			Group 5: 100 µg/			Group 6: 300 µg/			Group 7: 1000 µg/			Group 1: Control			Group 2: 30 µg/			Group 3: 100 µg/			Group 4: 300 µg/			Group 5: 1000 µg/												
Number of Animals on Study :	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	Number of Animals Completed:	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	CERVIX; (continued)	mild .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EPIDIDYMIS, LEFT;																																																
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)																
Within Normal Limits.....	3	2	1	7	3	4	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0														
Infiltration, Lymphocytic; focal .....	(0)	(0)	(0)	(0)	(1)	(0)	(1)	(0)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)														
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0														
Infiltration, Lymphocytic; multifocal .....	(7)	(8)	(9)	(3)	(6)	(6)	(6)	(6)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)														
minimal .....	7	8	9	3	6	6	6	6	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8														
EPIDIDYMIS, RIGHT;																																																
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)																
Within Normal Limits.....	3	1	3	4	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0													
Infiltration, Lymphocytic; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)														
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0													
Infiltration, Lymphocytic; multifocal .....	(7)	(9)	(7)	(5)	(8)	(8)	(8)	(8)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)													
minimal .....	7	9	7	5	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9													
Infiltration; mixed; multifocal .....	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)													
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0													
ESOPHAGUS;																																																
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)																
Within Normal Limits.....	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10																
EYE, LEFT;																																																
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)																
Within Normal Limits.....	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10																
Pigmentation; brown; macrophage; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)													
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
EYE, RIGHT;																																																
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)																
Within Normal Limits.....	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10																

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Severity

Observations: Neo-Plastic and Non Neo-Plastic										MALES										FEMALES																		
Removal Reasons: Main Study Animals			Group 1: Control			Group 2: 30 µg/			Group 3: 10 µg/			Group 4: 30 µg/			Group 5: 100 µg/			Group 6: 300 µg/			Group 7: 1000 µg/			Group 1: Control			Group 2: 30 µg/			Group 3: 100 µg/			Group 4: 300 µg/			Group 5: 1000 µg/		
Number of Animals on Study	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10					
Number of Animals Completed:	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)						
HARDERIAN GLAND, LEFT;																																						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)						
Within Normal Limits.....	9	10	10	9	9	9	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9			
Infiltration, Lymphocytic; focal .....	(0)	(0)	(0)	(1)	(1)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
minimal .....	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Infiltration, Lymphocytic; multifocal .....	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
minimal .....	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Infiltration; Lymphohistiocytic; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Infiltration; lymphohistiocytic; multifocal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Infiltration; mixed; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Infiltration; mixed; multifocal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Pigmentation; brown; macrophage; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Inflammation; granulomatous; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Inflammation; purulent; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Inflammation; chronic; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
HARDERIAN GLAND, RIGHT;																																						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)						
Within Normal Limits.....	8	10	9	10	8	7	7	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10					
Infiltration, Lymphocytic; focal .....	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
minimal .....	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Infiltration, Lymphocytic; multifocal .....	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
minimal .....	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(0)	(0)	(0)	(0)	(0)	(0)		
Necrosis; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
Microscopic Findings by Severity

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Severity

Observations: Neo-Plastic and Non Neo-Plastic		MALES							FEMALES						
Removal Reasons: Main Study Animals	Number of Animals on Study:	Group 1: Control	Group 2: 30 µg/	Group 3: 10 µg/	Group 4: 30 µg/	Group 5: 100 µg/	Group 6: 300 µg/	Group 7: 1000 µg/	Group 1: Control	Group 2: 30 µg/	Group 3: 100 µg/	Group 4: 300 µg/	Group 5: 1000 µg/	Group 6: 30 µg/	Group 7: 100 µg/
	Number of Animals Completed:	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)
INJECTION SITE II; (continued)															
Hemorrhage; focal .....		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(1)	(0)	(0)	(0)	(1)	(0)
mild .....		0	0	0	0	0	0	0	1	1	0	0	0	1	0
moderate .....		0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hemorrhage; subcutis; focal .....		(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
mild .....		0	0	1	0	0	0	0	0	0	0	0	0	0	0
Inflammation; granulomatous; focal .....		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(1)	(0)	(0)	(0)	(0)	(0)
minimal .....		0	0	0	0	0	0	0	0	1	0	0	0	0	0
Inflammation; lymphocytic; inter- / perimuscular; focal .....		(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
moderate .....		0	0	0	0	1	0	0	0	0	0	0	0	0	0
Inflammation; lymphohistiocytic; focal .....		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)
minimal .....		2	0	0	0	0	0	0	0	1	0	0	0	0	0
Inflammation; lymphohistiocytic; multifocal .....		(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)
minimal .....		4	0	0	0	0	0	0	0	2	0	0	0	0	0
Inflammation; lymphohistiocytic; dermis; subcutis; multifocal .....		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(1)	(0)	(0)	(0)	(0)	(0)
mild .....		0	0	0	0	0	0	0	1	0	0	0	0	0	0
Inflammation; neutrophilic; dermis; epidermis; focal .....		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
mild .....		0	0	0	0	0	0	0	0	0	0	0	0	0	1
Inflammation; plasmacytic; perivascular; multifocal .....		(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
moderate .....		0	0	0	1	0	0	0	0	0	0	0	0	0	0
Inflammation; vascular; multifocal .....		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)
moderate .....		0	0	0	0	0	0	0	0	0	0	0	0	1	0
Inflammation; mixed; focal .....		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)
minimal .....		0	0	0	0	0	0	0	0	1	0	0	0	0	0
Inflammation; mixed; subcutis .....		(0)	(9)	(10)	(10)	(10)	(9)	(10)	(0)	(0)	(10)	(0)	(10)	(10)	(10)
mild .....		0	0	1	2	0	0	0	0	0	0	0	0	0	0
moderate .....		0	9	10	7	8	9	9	0	10	10	10	10	10	10
Inflammation; mixed; subcutis; focal .....		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
moderate .....		0	1	0	0	0	0	0	0	0	0	0	0	0	0

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Severity

Observations: Neo-Plastic and Non Neo-Plastic.....										MALES .....										FEMALES .....											
		Group 1: Control		Group 2: 30 µg/		Group 3: 10 µg/		Group 4: 30 µg/		Group 5: 100 µg/		Group 6: 300 µg/		Group 7: 1000 µg/		Control		Group 1: 30 µg/		Group 2: 100 µg/		Group 3: 300 µg/		Group 4: 1000 µg/		Group 5: 30 µg/		Group 6: 100 µg/		Group 7: 300 µg/	
Removal Reasons: Main Study Animals		10		10		10		10		10		10		10		10		10		10		10		10		10		10			
Number of Animals on Study :		(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)		
Number of Animals Completed:																															
INJECTION SITE I; (continued)																															
Inflammation; mixed; intramuscular / interstitial .....																															
minimal .....		(0)	(9)	(10)	(10)	(10)	(10)	(5)	(4)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
mild .....		0	1	0	1	0	1	3	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
moderate .....		0	4	2	9	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Inflammation; mixed; intramuscular / interstitial; multifocal .....																															
moderate .....		(0)	(0)	(0)	(0)	(0)	(0)	(4)	(5)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Inflammation; mixed; inter / perimuscular .....																															
minimal .....		0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mild .....		0	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
moderate .....		0	7	10	6	8	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Inflammation; mixed; inter / perimuscular; multifocal .....																															
moderate .....		(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Necrosis; myofiber; focal .....																															
minimal .....		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mild .....		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
moderate .....		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Necrosis; myofiber; multifocal .....																															
minimal .....		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Necrosis; dermis; subcutis; multifocal .....																															
mild .....		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
moderate .....		0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ulceration; epidermis; focal .....																															
minimal .....		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mild .....		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
moderate .....		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ulceration; epidermis; multifocal .....																															
minimal .....		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mild .....		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Degeneration; myofiber .....																															
minimal .....		0	2	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mild .....		0	7	9	8	9	8	9	7	9	8	9	8	9	8	9	8	9	8	9	8	9	8	9	8	9	8	9	8	9	8

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Severity

Observations: Neo-Plastic and Non Neo-Plastic		MALES						FEMALES							
Removal Reasons: Main Study Animals	Number of Animals on Study	Group 1: Control	Group 2: 30 µg/	Group 3: 10 µg/	Group 4: 30 µg/	Group 5: 100 µg/	Group 6: 300 µg/	Group 7: 1000 µg/	Group 1: Control	Group 2: 30 µg/	Group 3: 100 µg/	Group 4: 300 µg/	Group 5: 1000 µg/	Group 6: 3000 µg/	Group 7: 10000 µg/
Number of Animals Completed:	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	
INJECTION SITE I; (continued)															
moderate .....	0	0	0	0	0	1	0	0	0	0	0	0	5	0	
Degeneration; myofiber; multifocal .....	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
minimal .....	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
Regeneration; muscle; multifocal .....	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
minimal .....	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
Foreign Material; hair; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	
minimal .....	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
Edema; subcutis .....	(0)	(6)	(10)	(9)	(8)	(9)	(10)	(10)	(0)	(10)	(9)	(10)	(10)	(10)	
mild .....	0	1	4	1	0	1	0	0	1	0	1	4	2	0	
moderate .....	0	5	9	4	7	6	7	0	10	6	6	8	5	7	
marked .....	0	0	0	1	0	3	2	0	0	2	0	0	5	1	
Edema; intramuscular / interstitial ....	(0)	(2)	(7)	(8)	(8)	(9)	(10)	(0)	(10)	(8)	(9)	(10)	(10)	(10)	
minimal .....	0	1	6	2	1	1	0	0	8	1	2	1	0	0	
mild .....	0	1	1	6	7	8	10	0	2	7	7	9	9	10	
Edema; inter- / perimuscular .....	(0)	(7)	(10)	(8)	(10)	(10)	(10)	(0)	(10)	(10)	(10)	(10)	(10)	(11)	
minimal .....	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
mild .....	0	2	5	3	0	2	0	0	1	0	1	2	1	0	
moderate .....	0	4	5	6	8	6	6	0	9	8	8	6	8	6	
marked .....	0	1	0	1	0	2	4	0	0	1	1	2	1	5	
Hyperkeratosis; epidermal; focal .....	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
moderate .....	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
Hyperplasia; epidermal .....	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
mild .....	0	2	0	0	0	0	0	0	0	0	0	0	0	0	
moderate .....	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
Hyperplasia; epidermal; widespread .....	(0)	(4)	(9)	(9)	(10)	(9)	(9)	(0)	(9)	(7)	(8)	(10)	(10)	(10)	
mild .....	0	2	5	3	0	2	0	0	3	7	1	0	1	0	
moderate .....	0	4	7	4	7	9	7	0	9	4	1	9	10	9	
Hyperplasia; epidermal; focal .....	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
mild .....	0	2	0	0	0	0	0	0	0	0	0	0	0	0	
Scab; epidermal; focal .....	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(1)	(1)	(1)	
minimal .....	0	0	1	0	0	0	0	0	1	0	0	0	0	0	
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Scab; epidermal; multifocal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

## Microscopic Findings by Severity

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Severity

Observations: Neo-Plastic and Non Neo-Plastic		MALES							FEMALES							
		Group 1: Control			Group 2: 30 µg/ (10)			Group 3: 10 µg/ (10)			Group 4: 30 µg/ (10)			Group 5: 100 µg/ (10)		
Removal Reasons: Main Study Animals	Number of Animals on Study : Number of Animals Completed:	Control	30 µg/ (10)	10 µg/ (10)	10 µg/ (10)	100 µg/ (10)	100 µg/ (10)	100 µg/ (10)	Control	30 µg/ (10)	10 µg/ (10)	10 µg/ (10)	100 µg/ (10)	100 µg/ (10)	1000 µg/ (10)	
INJECTION SITE II; (continued)																
minimal	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
mild	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	
moderate	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
Necrosis; myofiber; focal	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
minimal	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
Necrosis; myofiber; multifocal	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	
minimal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Necrosis; dermis; subcutis; focal	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
moderate	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
Necrosis; traumatic; myofiber; focal	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
minimal	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
Fibrosis; subcutis	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
mild	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Fibrosis; inter- / perimuscular	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
mild	0	2	0	0	0	0	0	0	0	0	0	0	0	10	0	
Fibrosis; inter- / perimuscular; focal	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
mild	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
Fibrosis; intramuscular / interstitial	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
mild	0	2	0	0	0	0	0	0	0	0	0	0	0	10	0	
Fibrosis; intramuscular / interstitial; focal	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
mild	0	1	0	0	0	0	0	0	0	0	(0)	(0)	(0)	0	0	
Ulceration; epidermal; focal	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	0	0	
mild	0	1	0	0	0	0	0	0	0	0	(0)	(0)	(0)	0	0	
Hemorrhage; focal	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	1	0	
mild	0	0	0	0	0	0	0	0	0	0	(0)	(0)	(0)	2	0	
Inflammation; lymphohistiocytic; focal	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	0	0	
minimal	2	0	0	0	0	0	0	0	0	0	(0)	(0)	(0)	0	0	
mild	1	0	0	0	0	0	0	0	0	0	(0)	(0)	(0)	0	0	
Inflammation; lymphohistiocytic; multifocal	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	0	
minimal	1	0	0	0	0	0	0	0	0	0	(0)	(0)	(0)	2	0	
Inflammation; mixed; focal	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	0	0	
mild	1	0	0	0	0	0	0	0	0	0	(0)	(0)	(0)	0	0	

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Severity

Observations: Neo-Plastic and Non Neo-Plastic										MALES										FEMALES																																					
Removal Reasons: Main Study Animals			Group 1: Control			Group 2: 30 µg/			Group 3: 10 µg/			Group 4: 30 µg/			Group 5: 100 µg/			Group 6: 300 µg/			Group 7: 1000 µg/			Group 1: Control			Group 2: 30 µg/			Group 3: 100 µg/			Group 4: 300 µg/			Group 5: 1000 µg/																					
Number of Animals on Study:	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	Number of Animals Completed:	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	Number of Animals Completed:	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)
INJECTION SITE II; (continued)																																																									
Inflammation; mixed; multifocal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)																								
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
moderate .....	0	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)																								
Inflammation; mixed; subcutis .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
Inflammation; mixed; subcutis; focal .....	0	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)																								
mild .....	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
Inflammation; mixed; inter- / perimuscular .....	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)																								
minimal .....	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
moderate .....	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
Inflammation; mixed; inter- / perimuscular; focal .....	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)																								
mild .....	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
Inflammation; mixed; intramuscular / interstitial .....	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)																								
mild .....	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
moderate .....	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
Inflammation; mixed; intramuscular / interstitial; multifocal .....	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)																								
minimal .....	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
moderate .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
INTESTINE, CECUM;																																																									
Examined .....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)																									
Within Normal Limits .....	10	10	8	7	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	8	8	10	9	9	9	9	9	9	9	9	9																								
Hyperplasia; mucosa-associated lymphoid tissue .....	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)																						
mild .....	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0																						
Infiltration, Eosinophilic; increased .....	(0)	(0)	(0)	(1)	(1)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)																						
minimal .....	0	0	0	1	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																						
INTESTINE, COLON;																																																									
Examined .....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)																								

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(b) (4) Microscopic Findings by Severity

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Severity

Observations: Neo-Plastic and Non Neo-Plastic		MALES							FEMALES						
		Group 1: Control	Group 2: 30 µg/	Group 3: 10 µg/	Group 4: 30 µg/	Group 5: 100 µg/	Group 6: 300 µg/	Group 7: 1000 µg/	Group 1: Control	Group 2: 30 µg/	Group 3: 100 µg/	Group 4: 300 µg/	Group 5: 1000 µg/	Group 6: 30 µg/	Group 7: 100 µg/
Number of Animals on Study:	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Animals Completed:	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)
KIDNEY, LEFT; (continued)															
Within Normal Limits.....	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Congestion.....	(9)	(10)	(10)	(10)	(10)	(10)	(10)	(9)	(10)	(10)	(10)	(10)	(10)	(10)	(10)
mild .....	2	4	5	4	3	1	1	3	5	5	5	5	5	8	5
moderate .....	7	6	5	6	7	9	8	7	5	5	7	5	2	5	5
Basophilia; tubule; focal .....	(1)	(1)	(0)	(1)	(1)	(2)	(1)	(1)	(0)	(0)	(1)	(1)	(1)	(0)	(0)
minimal .....	0	1	0	1	1	1	1	1	0	0	1	1	0	0	0
mild .....	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Basophilia; tubule; multifocal .....	(0)	(0)	(0)	(1)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
minimal .....	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
Infiltration, Lymphocytic; focal .....	(1)	(0)	(0)	(0)	(0)	(0)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(0)
minimal .....	1	0	0	0	0	0	1	1	0	1	0	1	0	1	0
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Infiltration, Lymphocytic; multifocal .....	(1)	(1)	(3)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
minimal .....	1	1	3	2	0	0	1	0	0	1	0	0	0	0	0
Mineralization; focal .....	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(1)	(1)	(1)	(1)	(0)	(0)	(0)
minimal .....	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
mild .....	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
Mineralization; multifocal .....	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)
minimal .....	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Cyst; tubular; single .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Inflammation, Chronic; interstitial; focal .....	(0)	(0)	(0)	(1)	(0)	(1)	(0)	(1)	(0)	(1)	(1)	(1)	(0)	(0)	(0)
minimal .....	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cast; hyaline; tubule; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
minimal .....	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Cast; hyaline; tubule; multifocal .....	(0)	(0)	(0)	(1)	(0)	(1)	(0)	(1)	(0)	(1)	(1)	(1)	(0)	(0)	(0)
minimal .....	0	0	0	1	0	1	0	1	0	1	0	0	0	0	0
KIDNEY, RIGHT;															
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Congestion .....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Severity

Observations: Neo-Plastic and Non Neo-Plastic.....										MALES .....										FEMALES .....									
Removal Reasons: Main Study Animals		Group 1: Control		Group 2: 30 µg/ (10)		Group 3: 10 µg/ (10)		Group 4: 30 µg/ (10)		Group 5: 100 µg/ (10)		Group 6: 300 µg/ (10)		Group 7: 1000 µg/ (10)		Group 1: Control		Group 2: 30 µg/ (10)		Group 3: 100 µg/ (10)		Group 4: 300 µg/ (10)		Group 5: 1000 µg/ (10)		Group 6: 30 µg/ (10)		Group 7: 100 µg/ (10)	
Number of Animals on Study :	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10		
Number of Animals Completed:	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)		
KIDNEY, RIGHT; (continued)																													
mild .....	3	4	6	4	4	1	2	3	6	6	4	7	4	3	6	8	6	6	8	6	6	8	6	6	6	6	6		
moderate .....	7	6	4	6	6	9	8	7	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
Basophilia; tubule; focal .....	(0)	(0)	(1)	(1)	(1)	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
minimal .....	0	0	0	0	0	0	0	0	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
mild .....	0	0	0	0	0	0	0	0	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
Infiltration, lymphocytic; focal .....	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
minimal .....	0	0	1	0	0	0	0	0	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
Infiltration, lymphocytic; multifocal .....	(0)	(1)	(2)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
minimal .....	0	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Inflammation; purulent; pelvis .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Cast; hyaline; tubule; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Mineralization; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Mineralization; multifocal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Dilation; tubule; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
mild .....	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Infiltration, Neutrophilic; subcapsular; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
minimal .....	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
LACRIMAL GLAND, LEFT;																													
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)		
Within Normal Limits.....	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10		
LACRIMAL GLAND, RIGHT;																													
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)		
Within Normal Limits.....	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10		
Not Examined: NOT PRESENT .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Severity

Observations: Neo-Plastic and Non Neo-Plastic										MALES										FEMALES																		
Removal Reasons: Main Study Animals			Group 1: Control			Group 2: 30 µg/			Group 3: 10 µg/			Group 4: 30 µg/			Group 5: 100 µg/			Group 6: 300 µg/			Group 7: 1000 µg/			Group 1: Control			Group 2: 30 µg/			Group 3: 100 µg/			Group 4: 300 µg/			Group 5: 1000 µg/		
	Number of Animals on Study	Number of Animals Completed:	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)						
LIVER;																																						
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)							
Within Normal Limits.....	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Congestion .....	(10)	(9)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)							
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
mild .....	3	5	3	4	3	4	3	4	3	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2					
moderate .....	7	4	7	6	7	6	7	6	7	6	8	5	8	5	8	5	8	5	8	5	8	5	8	5	8	5	8	5	8	5	8	5	8					
Hematopoiesis; extramedullary; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)					
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Hematopoiesis; extramedullary; multifocal .....	(2)	(4)	(2)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)					
minimal .....	2	4	2	1	1	0	2	1	0	2	1	0	2	1	0	2	1	0	2	1	0	2	1	0	2	1	0	2	1	0	2	1	0					
Infiltration; mixed; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)					
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Infiltration; mixed; multifocal .....	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)					
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Necrosis; focal .....	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)					
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Infiltration, Neutrophilic; focal .....	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)					
minimal .....	1	0	1	0	1	0	0	1	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0					
Infiltration, Lymphocytic; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)					
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Infiltration, Lymphocytic; multifocal .....	(5)	(5)	(5)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)					
minimal .....	5	3	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0				
Vacuolation; hepatocellular; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)					
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Vacuolation; hepatocellular; multifocal .....	(1)	(1)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)					
minimal .....	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1					
Vacuolation; hepatocellular; periportal .....	(0)	(1)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)					
minimal .....	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0				
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Infiltration, Eosinophilic; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Severity

Observations: Neo-Plastic and Non Neo-Plastic										MALES										FEMALES												
Removal Reasons: Main Study Animals			Group 1: Control		Group 2: 30 µg/ day		Group 3: 100 µg/ day		Group 4: 300 µg/ day		Group 5: 1000 µg/ day		Group 6: 3000 µg/ day		Group 7: 10000 µg/ day		Control		Group 1: Control		Group 2: 30 µg/ day		Group 3: 100 µg/ day		Group 4: 300 µg/ day		Group 5: 1000 µg/ day		Group 6: 3000 µg/ day		Group 7: 10000 µg/ day	
Number of Animals on Study:	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10					
Number of Animals Completed:	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)					
LIVER; (continued)																																
minimal .....	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Pigmentation; brown; kupffer cell .....	(0)	(0)	(0)	(0)	(0)	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)					
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
LUNGS WITH BRONCHI;																																
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)					
Within Normal Limits.....	2	3	2	3	2	4	3	4	5	8	7	5	7	5	3	3	5	3	5	3	5	3	5	2	5	2	5					
Ossification; focal .....	(0)	(1)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)					
minimal .....	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Hemorrhage; acute; focal .....	(1)	(0)	(4)	(0)	(2)	(1)	(2)	(1)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)					
minimal .....	1	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
mild .....	0	0	3	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Hemorrhage; acute; multifocal .....	(3)	(2)	(1)	(3)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)					
minimal .....	1	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
mild .....	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Hyperplasia; bronchial-associated lymphoid tissue .....	(4)	(6)	(3)	(6)	(4)	(3)	(4)	(3)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)					
minimal .....	4	6	3	6	4	3	4	3	2	1	2	1	2	1	2	1	2	1	2	3	4	3	4	3	5	4	4					
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Infiltration, Eosinophilic; perivascular ; focal .....	(0)	(0)	(1)	(0)	(0)	(0)	(1)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)					
minimal .....	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Infiltration, Eosinophilic; perivascular ; multifocal .....	(2)	(0)	(0)	(2)	(3)	(0)	(1)	(0)	(1)	(1)	(0)	(1)	(1)	(0)	(1)	(0)	(1)	(0)	(1)	(4)	(2)	(0)	(6)	(0)	(6)	(0)	(6)					
minimal .....	2	0	0	1	3	0	3	0	1	1	1	1	1	1	1	1	1	1	2	1	1	2	1	0	0	0	0	0				
mild .....	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Infiltration; foamy; macrophage; alveolus ; multifocal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Infiltration; lymphohistiocytic; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				
mild .....	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Infiltration; mixed; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Pigmentation; brown; macrophage; focal .....	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Severity

Observations: Neo-Plastic and Non Neo-Plastic.....										MALES .....										FEMALES .....										
Removal Reasons: Main Study Animals			Group 1: Control		Group 2: 30 µg/		Group 3: 10 µg/		Group 4: 30 µg/		Group 5: 100 µg/		Group 6: 300 µg/		Group 7: 1000 µg/		Group 1: Control		Group 2: 30 µg/		Group 3: 100 µg/		Group 4: 300 µg/		Group 5: 1000 µg/		Group 6: 30 µg/		Group 7: 100 µg/	
Number of Animals on Study :			10	10	10	10	10	10	10	10	10	10	10	10	Number of Animals Completed:			(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)
LYMPH NODE, ILLIAC; (continued)			(1)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
Infiltration, Eosinophilic .....			1	0	0	0	1	0	0	0	0	0	0	0				0	0	0	1	0	0	0	0	0	0			
minimal .....			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
Hemorrhage; acute .....			0	0	0	0	0	0	0	0	0	0	0	0				1	0	1	1	0	0	0	0	0	0			
mild .....			(0)	(5)	(0)	(0)	(5)	(4)	(9)	(0)	(0)	(6)	(3)	(0)				0	0	0	0	0	0	(7)	(7)	(6)				
Inflammation .....			0	4	0	0	0	1	1	1	1	0	1	1				0	0	2	2	0	0	3	3	5	1			
minimal .....			(0)	(1)	(0)	(0)	(0)	(3)	(1)	(7)	(0)	(0)	(0)	(0)				0	0	0	0	0	0	0	0	0	0			
mild .....			0	0	0	0	0	2	2	1	0	0	0	0				0	0	0	0	0	0	0	0	0	0			
moderate .....			0	0	0	0	2	2	1	0	0	0	0	0				0	0	0	0	0	0	0	0	0	0			
Increased Cellularity; germinal center .....			(8)	(9)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(8)	(10)			1	1	2	0	0	0	0	0	0	(10)				
minimal .....			4	3	0	1	1	0	0	0	0	0	3	1			6	7	4	6	10	0	0	0	0	0	0			
mild .....			5	6	9	7	8	8	8	0	2	2	0	1			2	1	2	3	0	0	0	0	0	0	0			
moderate .....			0	1	3	0	2	2	2	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0			
LYMPH NODE, MESENTERIC;																														
Examined.....			(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(9)	(10)			0	0	0	0	0	0	0	0	0	0	(10)			
Within Normal Limits.....			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0			
Not Examined: NOT PRESENT .....			(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			0	0	0	0	0	0	0	0	0	0	(0)			
Erythrophagocytosis .....			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			0	0	0	0	0	0	0	0	0	0	(0)			
minimal .....			0	0	0	0	1	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0			
Histiocytosis .....			(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(9)	(10)			0	0	0	0	0	0	0	0	0	0	(10)			
minimal .....			5	0	1	0	1	0	0	0	0	0	0	0			2	0	0	0	1	0	0	0	0	0	0			
mild .....			5	10	9	8	9	9	9	9	9	9	6	6			10	10	9	9	9	9	9	9	9	9	9			
moderate .....			0	0	0	0	2	0	1	1	1	1	0	2			0	0	0	0	0	0	0	1	1	1				
Infiltration, Eosinophilic .....			(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			0	0	0	0	0	0	0	0	0	0	(0)			
minimal .....			0	0	0	0	1	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0			
Increased Cellularity; germinal center .....			(9)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(9)	(10)			1	0	1	0	0	0	0	0	0	0	(9)			
minimal .....			1	0	0	0	1	0	0	1	0	0	1	0			9	9	9	10	9	10	9	10	9	10	9			
mild .....			8	10	10	9	10	9	10	9	10	9	9	9			0	0	0	0	0	0	0	0	0	0	0			
LYMPH NODE, RENAL;																	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
Examined.....			(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			0	0	0	0	0	0	0	0	0	0	(0)			
Within Normal Limits.....			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	(0)			
Histiocytosis .....			(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			0	0	0	0	0	0	0	0	0	0	(0)			
minimal .....			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	(0)			

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
Microscopic Findings by Severity

Observations: Neo-Plastic and Non Neo-Plastic										
MALES										
Removal Reasons: Main Study Animals	Group 1: Control			Group 2: 30 µg/			Group 3: 10 µg/			Group 4: 30 µg/
Number of Animals on Study :	10			10			10			10
Number of Animals Completed:	(10)			(10)			(10)			(10)
LYMPH NODE, RENAL; (continued)										
mild .....	0	0	0	0	1	0	0	0	0	0
Pigmentation; brown; macrophage; focal .....	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)
minimal .....	0	0	0	1	0	0	0	0	0	0
Plasmacytosis .....	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)
mild .....	0	0	0	0	0	1	0	0	0	0
Increased Cellularity; germinal center .....	(0)	(0)	(0)	(1)	(0)	(1)	(0)	(0)	(0)	(0)
minimal .....	0	0	0	1	0	0	0	0	0	0
mild .....	0	0	0	0	1	0	0	0	0	0
MAMMARY GLANDS;										
Examined.....	(9)	(10)	(9)	(10)	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	9	10	9	8	6	10	10	7	10	9
Not Examined: NOT PRESENT .....	1	0	1	0	0	0	0	0	0	0
Inflammation; mixed; interstitium .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)
minimal .....	0	0	0	0	0	0	0	0	1	0
Inflammation; mixed; interstitium; focal	(0)	(0)	(0)	(2)	(3)	(0)	(0)	(2)	(0)	(3)
mild .....	0	0	0	1	2	0	0	2	0	1
moderate .....	0	0	0	1	1	0	0	0	0	2
Inflammation; mixed; interstitium;	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)
multifocal .....	0	0	0	0	0	0	0	1	0	0
minimal .....	0	0	0	0	0	0	0	0	0	0
Inflammation; mixed; interstitium;	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)
lymphatic; focal .....	0	0	0	0	1	0	0	0	0	0
moderate .....	0	0	0	0	0	0	0	0	0	0
SKELETAL MUSCLE;										
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)
Within Normal Limits.....	10	10	9	5	5	9	10	7	10	10
Infiltration; lymphohistiocytic; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)
minimal .....	0	0	0	0	0	0	0	0	1	0
Infiltration; mixed; focal .....	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(1)	(2)	(0)
minimal .....	0	0	0	0	1	0	0	1	2	0
Infiltration; mixed; multifocal	minimal .....	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)
minimal .....	0	0	0	1	0	0	0	0	0	0

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
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Observations: Neo-Plastic and Non Neo-Plastic										MALES										FEMALES											
Removal Reasons: Main Study Animals			Group 1: Control		Group 2: 30 µg/		Group 3: 10 µg/		Group 4: 30 µg/		Group 5: 100 µg/		Group 6: 300 µg/		Group 7: 1000 µg/		Group 1: Control		Group 2: 30 µg/		Group 3: 100 µg/		Group 4: 300 µg/		Group 5: 1000 µg/		Group 6: 30 µg/		Group 7: 100 µg/		
Number of Animals on Study:			10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
Number of Animals Completed:			(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)		
SKELETAL MUSCLE; (continued)																															
Necrosis; myofiber; focal .....			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
minimal .....			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Necrosis; myofiber; multifocal .....			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
minimal .....			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Infiltration, lymphocytic; focal .....			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
minimal .....			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NERVE, SCIATIC;																															
Examined.....			(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	
Within Normal Limits.....			10	7	10	9	3	10	0	0	10	0	0	10	0	0	10	0	0	8	6	0	10	0	0	10	0	0	0	0	
Inflammation; perineurial .....			(0)	(3)	(0)	(1)	(7)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(4)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
minimal .....			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1	0	0	1	1	0	
mild .....			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
moderate .....			0	2	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
marked .....			0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Vacuolation; multifocal .....			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
minimal .....			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
OPTIC NERVE, LEFT;																															
Examined.....			(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	
Within Normal Limits.....			10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
Not Examined: NOT PRESENT .....			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
Hemorrhage; acute; focal .....			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
minimal .....			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
field .....			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Pigmentation; brown; macrophage; focal .....			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
minimal .....			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
OPTIC NERVE, RIGHT;																															
Examined.....			(10)	(7)	(10)	(9)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	
Within Normal Limits.....			10	7	10	9	10	9	10	9	10	9	10	9	10	9	10	9	10	9	10	9	10	9	10	9	10	9	10	9	
Not Examined: NOT PRESENT .....			0	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Pigmentation; brown; macrophage; focal .....			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
minimal .....			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

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 Microscopic Findings by Severity

Observations: Neo-Plastic and Non Neo-Plastic.....										MALES .....										FEMALES .....																	
Removal Reasons: Main Study Animals										Group 1: Control		Group 2: 30 µg/		Group 3: 10 µg/		Group 4: 30 µg/		Group 5: 100 µg/		Group 6: 300 µg/		Group 7: 1000 µg/		Group 1: Control		Group 2: 30 µg/		Group 3: 100 µg/		Group 4: 300 µg/		Group 5: 1000 µg/		Group 6: 30 µg/		Group 7: 100 µg/	
Number of Animals on Study :										10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10					
Number of Animals Completed:										(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)						
OPTIC NERVE, RIGHT; (continued)										(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)							
Hemorrhage; acute; focal .....										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
mild .....										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
Infiltration; foamy; macrophage .....										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
mild .....										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
OVARY, LEFT;										(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)							
Examined.....										-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
Within Normal Limits.....										-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
Not Examined: NOT PRESENT .....										-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
OVARY, RIGHT;										(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)							
Examined.....										-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
Within Normal Limits.....										-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
PANCREAS;										(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)							
Examined.....										(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)								
Within Normal Limits.....										9	10	10	9	10	9	9	10	9	9	10	9	9	10	9	9	10	10	10	10	10							
Not Examined: NOT PRESENT .....										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
Atrophy; acinar cell; focal .....										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
minimal .....										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
Hyperplasia; acinar cell; focal .....										1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
mild .....										1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
Infiltration, lymphocytic; focal .....										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
minimal .....										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							

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(b) (4) study No.: 38166 Repeat-Dose Toxicity Study  
Microscopic Findings by Severity

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Severity

Observations: Neo-Plastic and Non Neo-Plastic										MALES										FEMALES																											
Removal Reasons: Main Study Animals		Group 1: Control		Group 2: 30 µg/ day		Group 3: 10 µg/ day		Group 4: 30 µg/ day		Group 5: 100 µg/ day		Group 6: 300 µg/ day		Group 7: 1000 µg/ day		Group 1: Control		Group 2: 30 µg/ day		Group 3: 100 µg/ day		Group 4: 300 µg/ day		Group 5: 1000 µg/ day		Group 6: 3000 µg/ day		Group 7: 10000 µg/ day																			
Number of Animals on Study		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	Number of Animals Completed:		(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)
<b>PITUITARY GLAND; (continued)</b>																																															
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																				
Cyst; pars distalis; single .....	(0)	1	0	(0)	0	0	(0)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																				
minimal .....	0	0	0	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)																				
<b>PROSTATE GLAND;</b>																																															
Examined.....	(10)	(9)	(10)	(9)	(8)	(8)	(9)	(10)	(9)	(10)	(9)	(10)	(9)	(10)	(9)	(10)	(9)	(10)	(9)	(10)	(9)	(10)	(9)	(10)	(9)	(10)	(9)																				
Within Normal Limits.....	7	8	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																				
Not Examined: NO SECTION .....	0	1	(0)	(1)	0	0	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)																				
Infiltration; mixed .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																				
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																				
Infiltration; focal .....	(0)	(0)	(1)	(1)	(1)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)																				
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																				
Inflammation; purulent; focal .....	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)																				
mild .....	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																				
Infiltration, Lymphocytic; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)																				
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																				
Infiltration, Lymphocytic; multifocal .....	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)																				
mild .....	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																				
<b>SALIVARY GLANDS, MANDIBULAR;</b>																																															
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)																					
Within Normal Limits.....	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10																					
<b>SALIVARY GLANDS, SUBLINGUAL;</b>																																															
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)																					
Within Normal Limits.....	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10																					
Not Examined: NOT PRESENT .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																				
<b>SALIVARY GLANDS, PAROTIS;</b>																																															
Examined.....	(10)	(9)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)																					
Within Normal Limits.....	10	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10																					
Not Examined: NOT PRESENT .....	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																				
Infiltration, Lymphocytic; multifocal .....	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)																				
mild .....	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																				

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Severity

Observations: Neo-Plastic and Non Neo-Plastic.....										MALES .....										FEMALES .....									
		Group 1: Control		Group 2: 30 µg/ day		Group 3: 10 µg/ day		Group 4: 30 µg/ day		Group 5: 100 µg/ day		Group 6: 300 µg/ day		Group 7: 1000 µg/ day		Group 1: Control		Group 2: 30 µg/ day		Group 3: 100 µg/ day		Group 4: 300 µg/ day		Group 5: 1000 µg/ day		Group 6: 3000 µg/ day		Group 7: 10000 µg/ day	
Removal Reasons: Main Study Animals		Number of Animals on Study:		Number of Animals Completed:		(10)		(10)		(10)		(10)		(10)		(10)		(10)		(10)		(10)		(10)		(10)			
SEMINAL VESICLES;																													
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)				
Within Normal Limits.....	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10				
Infiltration; mixed; surrounding tissue; fat; focal.....	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				
moderate .....	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
SKIN;																													
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)				
Within Normal Limits.....	10	10	10	10	10	9	10	9	10	9	10	9	10	10	10	10	10	10	10	10	10	10	10	10	10				
Infiltration; mixed; dermis; subtis .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
moderate .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Infiltration; mixed; dermis; subtis; focal.....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
moderate .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Infiltration; mixed; subcutaneous; focal.....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Necrosis; muscular; multifocal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Infiltration; Neutrophilic; muscular; multifocal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
SPINAL CORD;																													
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)				
Within Normal Limits.....	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10				
Cyst; keratinized; single .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
SPLLEN;																													
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)				

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Severity

Observations: Neo-Plastic and Non Neo-Plastic										MALES										FEMALES																					
Removal Reasons: Main Study Animals										Group 1: Control		Group 2: 30 µg/		Group 3: 10 µg/		Group 4: 30 µg/		Group 5: 100 µg/		Group 6: 300 µg/		Group 7: 1000 µg/		Group 1: Control		Group 2: 30 µg/		Group 3: 100 µg/		Group 4: 300 µg/		Group 5: 1000 µg/		Group 6: 3000 µg/		Group 7: 10000 µg/					
Number of Animals on Study										10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10										
Number of Animals Completed:										(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)											
SPLIVEN; (continued)																																									
Within Normal Limits.....	1	0	5	1	2	5	5	0	1	6	1	6	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3									
Congestion .....	(9)	(10)	(4)	(9)	(6)	(5)	(4)	(4)	(9)	(10)	(10)	(10)	(10)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)									
minimal .....	9	9	4	9	6	4	4	4	7	6	6	6	6	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2								
mild .....	0	1	0	0	0	1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
Hematopoiesis; increased .....	(0)	(0)	(3)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)								
minimal .....	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
mild .....	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
STOMACH, GLANDULAR;																																									
Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)										
Within Normal Limits.....	1	0	5	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
Infiltration, Eosinophilic .....	(9)	(9)	(4)	(10)	(7)	(5)	(9)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)									
minimal .....	4	9	4	2	7	5	9	7	5	9	7	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4							
mild .....	4	0	0	8	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
moderate .....	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
Infiltration, Lymphocytic; focal .....	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)							
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
Dilation; glandular; focal .....	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)						
minimal .....	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
Dilation; glandular; multifocal .....	(0)	(2)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)						
minimal .....	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
cyst; single .....	(1)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)					
minimal .....	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
mild .....	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Hyperplasia; chief cell .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Hyperplasia; chief cell; multifocal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hyperplasia; mucosa-associated lymphoid tissue .....	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
minimal .....	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
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Observations: Neo-Plastic and Non Neo-Plastic.....										MALES .....										FEMALES .....												
Removal Reasons: Main Study Animals			Group 1: Control		Group 2: 30 µg/		Group 3: 10 µg/		Group 4: 30 µg/		Group 5: 100 µg/		Group 6: 300 µg/		Group 7: 1000 µg/		Control		Group 1: 30 µg/		Group 2: 100 µg/		Group 3: 300 µg/		Group 4: 1000 µg/		Group 5: 30 µg/		Group 6: 100 µg/		Group 7: 300 µg/	
Number of Animals on Study :			10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10		
Number of Animals Completed:			(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)			
STOMACH, GLANDULAR; (continued)			(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
Infiltration, Neutrophilic; mucosa; focal			0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
minimal .....			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
Infiltration; mixed; focal .....			0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
mild .....			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
STOMACH, NONGLANDULAR;																																
Examined.....			(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)			
Within Normal Limits.....			10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10		
TESTIS, LEFT;																																
Examined.....			(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)		
Within Normal Limits.....			10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10		
TESTIS, RIGHT;																																
Examined.....			(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)		
Within Normal Limits.....			10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10		
THYMUS;																																
Examined.....			(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)		
Within Normal Limits.....			7	3	4	5	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
Cyst; focal .....			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
mild .....			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hemorrhage; acute; focal .....			(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	
minimal .....			2	1	2	1	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	
mild .....			0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	
Hemorrhage; acute; multifocal .....			(1)	(5)	(4)	(3)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	
minimal .....			1	4	4	3	2	3	2	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
mild .....			0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
THYROID, LEFT;																																
Examined.....			(10)	(10)	(9)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	
Within Normal Limits.....			9	10	9	10	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Not Examined: NOT PRESENT .....			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cyst; keratinized; single .....			(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	

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Observations: Neo-Plastic and Non Neo-Plastic.....										MALES .....										FEMALES .....																													
Removal Reasons: Main Study Animals		Group 1: Control			Group 2: 30 µg/ day			Group 3: 10 µg/ day			Group 4: 30 µg/ day			Group 5: 100 µg/ day			Group 6: 300 µg/ day			Group 7: 1000 µg/ day			Group 1: Control		Group 2: 30 µg/ day			Group 3: 100 µg/ day			Group 4: 300 µg/ day			Group 5: 1000 µg/ day			Group 6: 3000 µg/ day												
Number of Animals on Study :	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	Number of Animals Completed:	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	Number of Animals Completed:	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	Number of Animals Completed:	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)
THYROID, LEFT; (continued)	minimal .....	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																	
THYROID, RIGHT;	Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)																			
Within Normal Limits.....	9	8	10	10	10	10	10	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10																			
Not Examined: NOT PRESENT .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																		
Cyst; keratinized; multiple .....	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)																		
minimal .....	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																		
Cyst; keratinized; single .....	(1)	(1)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)																		
minimal .....	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																		
TONGUE;	Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)																			
Within Normal Limits.....	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10																			
Hemorrhage; acute; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)																		
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																		
Infiltration, Lymphocytic; focal .....	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)																		
minimal .....	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																		
TRACHEA;	Examined.....	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)																			
Within Normal Limits.....	5	10	7	8	8	10	10	8	10	10	10	10	10	10	10	10	10	10	10	10	9	7	9	9	10	10	10	10	10	10	10																		
Infiltration; lymphohistiocytic; focal .....	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)																		
minimal .....	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																		
Infiltration; lymphohistiocytic; multifocal .....	(2)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)																		
minimal .....	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																		
Infiltration; mixed .....	(1)	(0)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)																		
minimal .....	1	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																		
Pigmentation; brown; macrophage; focal .....	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)																		
minimal .....	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																		
Infiltration, lymphocytic; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)																		
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																		
Infiltration, lymphocytic; multifocal .....	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)																		

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Severity

Observations: Neo-Plastic and Non Neo-Plastic.....							MALES .....							FEMALES .....													
Removal Reasons: Main Study Animals		Group 1: Control		Group 2: 30 µg/ day		Group 3: 10 µg/ day		Group 4: 30 µg/ day		Group 5: 100 µg/ day		Group 6: 300 µg/ day		Group 7: 1000 µg/ day		Group 1: Control		Group 2: 30 µg/ day		Group 3: 100 µg/ day		Group 4: 300 µg/ day		Group 5: 1000 µg/ day		Group 6: 3000 µg/ day	
Number of Animals on Study:	(10)	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Number of Animals Completed:	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	
TRACHEA; (continued)	minimal .....	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
URINARY BLADDER;																											
Examined.....	(10)	(9)	(10)	(9)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	
Within Normal Limits.....	10	9	9	8	10	10	10	10	10	10	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
Not Examined: INSUFFICIENT TISSUE TO EVALUATE .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Not Examined: NOT PRESENT Infiltration, Lymphocytic; focal .....	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
minimal .....	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
UTERUS;																											
Examined.....	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	
Within Normal Limits.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dilation.....	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	
mild .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VAGINA;																											
Examined.....	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	
Within Normal Limits.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Keratinization; epithelial .....	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	
minimal .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
mild .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Severity

Observations: Neo-Plastic and Non Neo-Plastic.....								MALES .....								FEMALES .....									
Removal Reasons: Recovery Period Animals		Group 1: Control		Group 2: 30 µg/ 5		Group 3: 10 µg/ 5		Group 4: 30 µg/ 5		Group 5: 100 µg/ 5		Group 6: 300 µg/ 5		Group 7: 1000 µg/ 5		Group 1: Control		Group 2: 30 µg/ 5		Group 3: 100 µg/ 5		Group 4: 300 µg/ 5		Group 5: 1000 µg/ 5	
Number of Animals on Study :	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
Number of Animals Completed:	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	
ADRENAL GLAND, LEFT;																									
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	
Within Normal Limits.....	4	2	4	2	3	4	3	2	4	3	2	4	2	3	2	3	2	3	5	5	4	4	4	4	
Dilation; vascular .....	(1)	(3)	(1)	(3)	(2)	(1)	(2)	(2)	(3)	(1)	(3)	(1)	(3)	(2)	(2)	(2)	(2)	(2)	(0)	(0)	(1)	(1)	(1)	(1)	
minimal .....	1	3	1	3	2	1	2	1	2	3	1	3	2	0	0	0	0	0	0	0	0	1	1	1	
Infiltration, lymphocytic; focal .....	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
minimal .....	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ADRENAL GLAND, RIGHT;																									
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	
Within Normal Limits.....	4	3	5	5	4	3	3	4	4	3	4	4	5	3	3	5	5	5	5	5	5	5	4	4	
Dilation; vascular .....	(1)	(2)	(0)	(0)	(1)	(2)	(1)	(2)	(2)	(1)	(1)	(1)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(1)	
minimal .....	1	2	0	0	1	2	1	2	2	1	1	0	2	0	0	2	0	0	0	0	0	0	0	0	
AORTA ABDOMINALIS;																									
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	
Within Normal Limits.....	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
BONE, OS FEMORIS WITH JOINT;																									
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	
Within Normal Limits.....	5	5	5	5	4	5	5	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5	5	5	
Infiltration, lymphocytic; surrounding tissue; focal .....	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
minimal .....	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Infiltration; lymphohistiocytic; surrounding tissue; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
BONE MARROW, OS FEMORIS WITH JOINT;																									
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	
Within Normal Limits.....	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
BONE, STERNUM;																									
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	
Within Normal Limits.....	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Severity

Observations: Neo-Plastic and Non Neo-Plastic										MALES										FEMALES									
		Group 1: Control		Group 2: 30 µg/5		Group 3: 10 µg/5		Group 4: 30 µg/5		Group 5: 100 µg/5		Group 6: 300 µg/5		Group 7: 1000 µg/5		Group 1: Control		Group 2: 30 µg/5		Group 3: 100 µg/5		Group 4: 300 µg/5		Group 5: 1000 µg/5		Group 6: 30 µg/5		Group 7: 100 µg/5	
Removal Reasons: Recovery Period Animals		Examinined.....		Within Normal Limits.....		Examinined.....		Within Normal Limits.....		Examinined.....		Within Normal Limits.....		Examinined.....		Within Normal Limits.....		Examinined.....		Within Normal Limits.....		Examinined.....		Within Normal Limits.....		Examinined.....		Within Normal Limits.....	
Number of Animals on Study :	Number of Animals Completed:	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
BRAIN, BRAIN STEM;	Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	
Within Normal Limits.....		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
BRAIN, CEREBELLUM;	Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	
Within Normal Limits.....		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
BRAIN, CEREBRUM;	Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	
Within Normal Limits.....		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
CERVIX;	Examined.....	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	
Within Normal Limits.....		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Keratinization; epithelial .....		(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	
minimal .....		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
mild .....		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyst; keratinized .....		(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)		
moderate .....		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
EPIDIDYMIS, LEFT;	Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	
Within Normal Limits.....		1	0	1	1	2	1	3	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Infiltration, lymphocytic; focal .....		(0)	(1)	(0)	(1)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
minimal .....		0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Infiltration, lymphocytic; multifocal .....		(4)	(4)	(4)	(4)	(3)	(3)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	
minimal .....		4	4	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
mild .....		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
EPIDIDYMIS, RIGHT;	Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	
Within Normal Limits.....		2	1	0	1	2	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Infiltration, lymphocytic; multifocal .....		(3)	(4)	(5)	(4)	(4)	(5)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	
minimal .....		3	4	5	4	5	4	3	5	3	5	3	5	3	5	3	5	3	5	3	5	3	5	3	5	3	5	3	

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Severity

Observations: Neo-Plastic and Non Neo-Plastic.....										MALES .....										FEMALES .....										
Removal Reasons: Recovery Period Animals			Group 1: Control		Group 2: 30 µg/5		Group 3: 10 µg/5		Group 4: 30 µg/5		Group 5: 100 µg/5		Group 6: 300 µg/5		Group 7: 1000 µg/5		Group 1: Control		Group 2: 30 µg/5		Group 3: 100 µg/5		Group 4: 300 µg/5		Group 5: 1000 µg/5		Group 6: 30 µg/5		Group 7: 100 µg/5	
Number of Animals on Study :			(5)		(5)		(5)		(5)		(5)		(5)		(5)		(5)		(5)		(5)		(5)		(5)		(5)			
Number of Animals Completed:	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)			
EPIIDYMIS, RIGHT; (continued)			(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				
Oligospermia .....			0	0	0	1	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-				
ESOPHAGUS;			(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)				
Examined.....			Within Normal Limits.....		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5				
EYE, LEFT;			(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)				
Examined.....			Within Normal Limits.....		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5				
EYE, RIGHT;			(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)				
Examined.....			Within Normal Limits.....		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5				
HARDERIAN GLAND, LEFT;			(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)				
Examined.....			Within Normal Limits.....		5	5	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	5	4				
Infiltration, Lymphocytic; focal .....			(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				
minimal .....			0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
mild .....			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1				
Infiltration, Lymphocytic; multifocal .....			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				
minimal .....			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Pigmentation; brown; macrophage; focal .....			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				
mild .....			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Inflammation, Chronic; focal .....			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				
mild .....			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
HARDERIAN GLAND, RIGHT;			(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)				
Examined.....			Within Normal Limits.....		5	4	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4				
Infiltration, Lymphocytic; focal .....			(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)				
minimal .....			0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1				
Infiltration; mixed; focal .....			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
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Observations: Neo-Plastic and Non Neo-Plastic.....										MALES .....										FEMALES .....									
		Group 1: Control		Group 2: 30 µg/5		Group 3: 10 µg/5		Group 4: 30 µg/5		Group 5: 100 µg/5		Group 6: 300 µg/5		Group 7: 1000 µg/5		Group 1: Control		Group 2: 30 µg/5		Group 3: 100 µg/5		Group 4: 300 µg/5		Group 5: 1000 µg/5		Group 6: 30 µg/5		Group 7: 100 µg/5	
Removal Reasons: Recovery Period Animals		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Number of Animals on Study :		(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	
Number of Animals Completed:		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>HARDERIAN GLAND, RIGHT; (continued)</b>																													
minimal .....		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	
mild .....		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Inflammation, Chronic; focal .....		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
mild .....		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>HEART;</b>																													
Examined.....		(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	
Within Normal Limits.....		5	3	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
Infiltration; lymphohistiocytic; focal .....		(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
minimal .....		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Infiltration, lymphocytic; focal .....		(0)	(0)	(1)	(1)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
minimal .....		0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Infiltration, lymphocytic; multifocal .....		(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
minimal .....		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>INJECTION SITE I;</b>																													
Examined.....		(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	
Within Normal Limits.....		5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Fibrosis; intramuscular / interstitial .....		(0)	(1)	(0)	(2)	(1)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
minimal .....		0	1	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Fibrosis; intramuscular / interstitial;		(0)	(0)	(3)	(2)	(3)	(0)	(0)	(4)	(0)	(0)	(3)	(0)	(0)	(3)	(1)	(1)	(3)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
multifocal .....		0	0	3	2	3	0	0	4	0	4	0	3	0	0	3	1	3	1	3	1	3	1	3	1	3	1	3	
minimal .....		0	0	(5)	(5)	(5)	(1)	(1)	(5)	(0)	(0)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	
Fibrosis; inter- / perimuscular .....		0	1	1	0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
minimal .....		0	4	4	5	3	0	4	0	4	0	4	0	4	0	4	1	1	1	1	1	1	1	1	1	1	1	1	
Inflammation; lymphohistiocytic;		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
intramuscular / interstitial;		(0)	(2)	(2)	(5)	(5)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
multifocal .....		0	2	2	5	3	0	1	0	2	0	0	1	0	0	0	1	0	2	0	0	1	0	2	0	1	0	2	
minimal .....		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
mild .....		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Severity

Observations: Neo-Plastic and Non Neo-Plastic.....										MALES .....										FEMALES .....											
Removal Reasons: Recovery Period Animals		Group 1: Control		Group 2: 30 µg/5		Group 3: 10 µg/5		Group 4: 30 µg/5		Group 5: 100 µg/5		Group 6: 300 µg/5		Group 7: 1000 µg/5		Group 1: Control		Group 2: 30 µg/5		Group 3: 100 µg/5		Group 4: 300 µg/5		Group 5: 1000 µg/5		Group 6: 30 µg/5		Group 7: 100 µg/5			
Number of Animals on Study:	(5)	Number of Animals Completed:	(5)	Number of Animals on Study:	(5)	Number of Animals Completed:	(5)	Number of Animals on Study:	(5)	Number of Animals Completed:	(5)	Number of Animals on Study:	(5)	Number of Animals Completed:	(5)	Number of Animals on Study:	(5)	Number of Animals Completed:	(5)	Number of Animals on Study:	(5)	Number of Animals Completed:	(5)	Number of Animals on Study:	(5)	Number of Animals Completed:	(5)	Number of Animals on Study:	(5)	Number of Animals Completed:	(5)
<b>INJECTION SITE II; (continued)</b>																															
Inflammation; lymphohistiocytic; inter- / perimuscular .....	(0)	(3)	(2)	(4)	(3)	(0)	(3)	(0)	(0)	(3)	(0)	(0)	(4)	(1)	(1)	(0)	(0)	(1)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
minimal .....	0	1	2	1	2	0	0	0	0	0	0	0	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0		
mild .....	0	2	0	3	1	0	3	1	0	3	0	0	2	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0		
Inflammation; lymphohistiocytic; inter- / perimuscular; multifocal .....	(0)	(2)	(2)	(1)	(2)	(1)	(1)	(2)	(0)	(0)	(1)	(0)	(0)	(2)	(0)	(0)	(4)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
minimal .....	0	2	2	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
mild .....	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Mineralization; inter- / perimuscular; multifocal .....	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
minimal .....	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
mild .....	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Multinucleated Macrophages; inter- / perimuscular; multifocal .....	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
minimal .....	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>INJECTION SITE III;</b>																															
Examined.....	(5)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
Within Normal Limits.....	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Fibrosis; inter- / perimuscular .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Fibrosis; inter- / perimuscular; multifocal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Fibrosis; intramuscular / interstitial .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Fibrosis; intramuscular / interstitial; multifocal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Fibrosis; dermis; subcutis; multifocal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Severity

Observations: Neo-Plastic and Non Neo-Plastic.....										MALES .....										FEMALES .....											
Removal Reasons: Recovery Period Animals		Group 1: Control		Group 2: 30 µg/5		Group 3: 10 µg/5		Group 4: 30 µg/5		Group 5: 100 µg/5		Group 6: 300 µg/5		Group 7: 1000 µg/5		Group 1: Control		Group 2: 30 µg/5		Group 3: 100 µg/5		Group 4: 300 µg/5		Group 5: 1000 µg/5		Group 6: 30 µg/5		Group 7: 100 µg/5			
Number of Animals on Study:	(5)	Number of Animals Completed:	(5)	Number of Animals on Study:	(5)	Number of Animals Completed:	(5)	Number of Animals on Study:	(5)	Number of Animals Completed:	(5)	Number of Animals on Study:	(5)	Number of Animals Completed:	(5)	Number of Animals on Study:	(5)	Number of Animals Completed:	(5)	Number of Animals on Study:	(5)	Number of Animals Completed:	(5)	Number of Animals on Study:	(5)	Number of Animals Completed:	(5)	Number of Animals on Study:	(5)	Number of Animals Completed:	(5)
<b>INJECTION SITE II; (continued)</b>																															
Inflammation; lymphohistiocytic; inter- / perimuscular .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Inflammation; lymphohistiocytic; inter- / perimuscular; multifocal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
moderate .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Inflammation; lymphohistiocytic; intramuscular / interstitial; multifocal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>INTESTINE, CECUM;</b>																															
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)		
Within Normal Limits.....	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
Hyperplasia; mucosa-associated lymphoid tissue .....	(1)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
mild .....	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
moderate .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>INTESTINE, COLON;</b>																															
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)		
Within Normal Limits.....	5	4	1	5	3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
Hyperplasia; mucosa-associated lymphoid tissue .....	(0)	(1)	(4)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
minimal .....	0	1	3	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
mild .....	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
moderate .....	0	0	0	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
Infiltration, Eosinophilic, increased .....	(0)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Severity

Observations: Neo-Plastic and Non Neo-Plastic.....										MALES .....										FEMALES .....											
Removal Reasons: Recovery Period Animals		Group 1: Control		Group 2: 30 µg/5		Group 3: 10 µg/5		Group 4: 30 µg/5		Group 5: 100 µg/5		Group 6: 300 µg/5		Group 7: 1000 µg/5		Group 1: Control		Group 2: 30 µg/5		Group 3: 100 µg/5		Group 4: 300 µg/5		Group 5: 1000 µg/5		Group 6: 30 µg/5		Group 7: 100 µg/5			
Number of Animals on Study :	(5)	Number of Animals Completed:	(5)	Number of Animals on Study :	(5)	Number of Animals Completed:	(5)	Number of Animals on Study :	(5)	Number of Animals Completed:	(5)	Number of Animals on Study :	(5)	Number of Animals Completed:	(5)	Number of Animals on Study :	(5)	Number of Animals Completed:	(5)	Number of Animals on Study :	(5)	Number of Animals Completed:	(5)	Number of Animals on Study :	(5)	Number of Animals Completed:	(5)	Number of Animals on Study :	(5)	Number of Animals Completed:	(5)
INTESTINE, DUODENUM;																															
Examined.....	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)		
Within Normal Limits.....																															
INTESTINE, ILEUM;																															
Examined.....	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)		
Within Normal Limits.....																															
INTESTINE, JEJUNUM;																															
Examined.....	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)		
Within Normal Limits.....																															
INTESTINE, RECTUM;																															
Examined.....	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)		
Within Normal Limits.....																															
Infiltration, Eosinophilic; increased.....	(0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)		
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(1)		
Hyperplasia; mucosa-associated lymphoid tissue .....	(1)	1	(2)	2	(0)	(0)	(2)	(1)	(1)	(2)	(0)	(0)	(1)	(1)	(0)	(1)	(0)	(1)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
minimal .....	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
mild .....	1	1	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0		
moderate .....	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Nematodiasis .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
KIDNEY, LEFT;																															
Examined.....	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)		
Within Normal Limits.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Congestion .....	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	5	(5)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)		
mild .....	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0		
moderate .....	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4		
Basophilia; tubule; focal .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)		
minimal .....	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Infiltration, Lymphocytic; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Severity

Observations: Neo-Plastic and Non Neo-Plastic										MALES										FEMALES									
		Group 1: Control		Group 2: 30 µg/5		Group 3: 10 µg/5		Group 4: 30 µg/5		Group 5: 100 µg/5		Group 6: 300 µg/5		Group 7: 1000 µg/5		Group 1: Control		Group 2: 30 µg/5		Group 3: 100 µg/5		Group 4: 300 µg/5		Group 5: 1000 µg/5		Group 6: 30 µg/5		Group 7: 100 µg/5	
Removal Reasons: Recovery Period Animals		Number of Animals on Study:	Number of Animals Completed:	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	
KIDNEY, LEFT; (continued)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
minimal				(2)	(0)	(1)	(1)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
Infiltration, Lymphocytic; multifocal				2	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
minimal				(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
Cast; hyaline; tubule; focal				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
minimal				(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
Cast; hyaline; tubule; multifocal				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
mild				(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
Degeneration; hyaline; tubule; focal				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
minimal				(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
KIDNEY, RIGHT;																													
Examined.....				(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	
Within Normal Limits.....				1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Congestion .....				(4)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	
mild .....				1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
moderate .....				3	5	4	5	5	5	5	5	5	5	5	5	5	5	4	4	5	5	5	4	5	5	5	5	3	
Basophilia; tubule; focal .....				(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
minimal .....				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Basophilia; tubule; multifocal .....				(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
moderate .....				0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Infiltration, Lymphocytic; focal .....				(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
minimal .....				1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Infiltration, Lymphocytic; multifocal .....				(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
minimal .....				0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
Cast; hyaline; tubule; focal .....				(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
minimal .....				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Mineralization; focal .....				(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
Pyelonephritis .....				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
minimal .....				(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
Inflammation, Chronic; interstitial; multifocal .....				(0)	(0)	(1)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
moderate .....				0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Severity

Observations: Neo-Plastic and Non Neo-Plastic.....										MALES .....										FEMALES .....										
Removal Reasons: Recovery Period Animals		Group 1: Control		Group 2: 30 µg/5		Group 3: 10 µg/5		Group 4: 30 µg/5		Group 5: 100 µg/5		Group 6: 300 µg/5		Group 7: 1000 µg/5		Group 1: Control		Group 2: 30 µg/5		Group 3: 100 µg/5		Group 4: 300 µg/5		Group 5: 1000 µg/5		Group 6: 30 µg/5		Group 7: 100 µg/5		
Number of Animals on Study :		(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	Number of Animals Completed:		(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
LACRIMAL GLAND, LEFT;	Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	Within Normal Limits.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	
LACRIMAL GLAND, RIGHT;	Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	Within Normal Limits.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	
LIVER;	Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	Congestion .....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	
	mild .....	2	1	0	0	0	0	0	0	0	0	0	0	moderate .....	3	4	5	5	3	5	4	3	2	5	4	4	2	(1)	(0)	
	Infiltration; mixed; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Infiltration; mixed; multifocal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(1)	
	mild .....	0	0	0	0	0	0	0	0	0	0	0	0	Necrosis; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	marked .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(0)	
	Infiltration; lymphocytic; multifocal .....	(4)	(5)	(5)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	minimal .....	4	5	4	4	2	2	3	3	4	2	2	4	0	(0)	(0)	
	Vacuolation; hepatocellular; multifocal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	mild .....	0	1	0	0	0	0	0	0	0	0	0	0	0	0	(0)	
	Vacuolation; hepatocellular; periportal .....	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	minimal .....	1	0	0	0	0	0	0	0	0	0	0	0	0	0	(0)	
LUNGS WITH BRONCHI;	Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	Within Normal Limits.....	1	2	1	2	3	1	4	2	3	5	2	(5)	(5)	(5)	(5)	
	Ossification; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(0)	
	Hemorrhage; acute; focal .....	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)																	

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Severity

Observations: Neo-Plastic and Non Neo-Plastic										MALES										FEMALES									
		Group 1: Control		Group 2: 30 µg/5		Group 3: 10 µg/5		Group 4: 30 µg/5		Group 5: 100 µg/5		Group 6: 300 µg/5		Group 7: 1000 µg/5		Group 1: Control		Group 2: 30 µg/5		Group 3: 100 µg/5		Group 4: 300 µg/5		Group 5: 1000 µg/5		Group 6: 30 µg/5		Group 7: 100 µg/5	
Removal Reasons: Recovery Period Animals		Number of Animals on Study:		Number of Animals Completed:																									
LUNGS WITH BRONCHI; (continued)																													
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
mild .....	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
moderate .....	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Hemorrhage; acute; multifocal .....	(0)	(0)	(0)	(0)	(2)	(1)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(1)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
minimal .....	0	0	0	0	2	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Hyperplasia; bronchial-associated lymphoid tissue .....	(3)	(3)	(2)	(3)	(2)	(3)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(2)	(0)	(3)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
minimal .....	3	3	2	2	2	2	3	1	1	1	2	2	0	3	1	0	0	0	0	0	0	0	0	0	0	0			
mild .....	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Infiltration, Eosinophilic; perivascular ; multifocal .....	(1)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
minimal .....	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0			
Infiltration; macrophage; alveolus; focal .....	(0)	(1)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
minimal .....	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Infiltration; mixed; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Infiltration; mixed; multifocal .....	(0)	(0)	(1)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
minimal .....	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Pigmentation; brown; macrophage; multifocal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
LYMPH NODE, CERVICAL;																													
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)			
Within Normal Limits.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Not Examined: NOT PRESENT .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Histiocytosis .....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)			
minimal .....	5	5	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3			
mild .....	0	0	1	2	1	2	1	2	1	2	0	2	0	3	4	1	3	0	1	1	0	0	0	0	0	0			
Pigmentation; brown; macrophage .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Increased Cellularity; germinal center .....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)			
minimal .....	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Severity

Observations: Neo-Plastic and Non Neo-Plastic.....										MALES .....										FEMALES .....									
Removal Reasons: Recovery Period Animals		Group 1: Control		Group 2: 30 µg/5		Group 3: 10 µg/5		Group 4: 30 µg/5		Group 5: 100 µg/5		Group 6: 300 µg/5		Group 7: 1000 µg/5		Group 1: Control		Group 2: 30 µg/5		Group 3: 100 µg/5		Group 4: 300 µg/5		Group 5: 1000 µg/5		Group 6: 30 µg/5		Group 7: 100 µg/5	
Number of Animals on Study:		(5)		(5)		(5)		(5)		(5)		(5)		(5)		(5)		(5)		(5)		(5)		(5)		(5)			
<b>LYMPH NODE, CERVICAL; (continued)</b>																													
mild .....	4	3	5	5	3	3	5	5	3	5	5	5	4	4	5	4	4	4	4	4	4	4	4	4	4				
moderate .....	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0				
<b>LYMPH NODE, ILLIC;</b>																													
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)				
Within Normal Limits.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Not Examined: NOT PRESENT .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1				
Histiocytosis .....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(4)				
minimal .....	3	2	3	1	2	3	2	3	2	3	2	1	2	4	5	4	4	2	1	3	3	3	3	3					
mild .....	2	3	3	2	3	2	3	2	3	2	1	0	1	1	1	1	1	1	4	2	1	1	1	1					
moderate .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Plasmacytosis .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)				
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Infiltration; macrophage; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Infiltration; macrophage; multifocal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)				
minimal .....	0	0	1	1	0	1	0	0	2	4	0	3	0	3	0	2	2	4	0	0	0	0	0	0	0				
mild .....	0	0	0	0	0	0	0	0	5	1	0	0	0	0	0	0	1	2	0	3	0	0	0	0	0				
moderate .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0				
Increased Cellularity; germinal center .....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(4)					
minimal .....	1	3	1	3	1	4	1	4	1	4	1	4	1	4	2	3	3	4	3	1	0	3	0	0	0				
mild .....	4	1	4	1	4	1	4	1	4	1	4	1	4	2	3	3	4	3	1	3	0	0	0	0	0				
moderate .....	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0				
<b>LYMPH NODE, MESENTERIC;</b>																													
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)				
Within Normal Limits.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Erythrophagocytosis .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0				
Histiocytosis .....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)				
minimal .....	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
mild .....	2	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	4	5	4	5	4	4	4	4				
Pigmentation; macrophage .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Severity

Observations: Neo-Plastic and Non Neo-Plastic		MALES						FEMALES							
		Group 1: Control	Group 2: 30 µg/5	Group 3: 10 µg/5	Group 4: 30 µg/5	Group 5: 100 µg/5	Group 6: 300 µg/5	Group 7: 1000 µg/5	Group 1: Control	Group 2: 30 µg/5	Group 3: 100 µg/5	Group 4: 300 µg/5	Group 5: 1000 µg/5	Group 6: Control	Group 7: (5)
Removal Reasons: Recovery Period Animals	Number of Animals on Study :	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Number of Animals Completed:	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	
LYMPH NODE, MESENTERIC; (continued)															
mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Increased Cellularity; germinal center .....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(4)	(5)	(3)	
minimal .....	0	0	0	0	0	0	0	0	0	0	0	1	1	0	
mild .....	5	5	5	5	5	2	5	5	5	5	5	3	4	3	
moderate .....	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
MAMMARY GLANDS;															
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	
Within Normal Limits.....	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
SKELETAL MUSCLE;															
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	
Within Normal Limits.....	5	5	5	5	5	5	5	5	5	4	5	5	5	4	
Infiltration; lymphohistiocytic; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	
minimal .....	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
Infiltration, lymphocytic; focal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
NERVE, SCIATIC;															
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	
Within Normal Limits.....	5	5	5	5	5	3	5	5	5	5	5	4	4	4	
Not Examined: NOT PRESENT .....	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
Inflammation; perineurial .....	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(1)	(0)	(1)	
minimal .....	0	0	0	0	0	0	2	0	0	0	0	0	0	1	
mild .....	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
OPTIC NERVE, LEFT;															
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	
Within Normal Limits.....	5	5	5	5	5	3	5	5	5	5	5	4	4	4	
Not Examined: INSUFFICIENT TISSUE TO EVALUATE .....	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
Pigmentation; brown; macrophage; focal .....	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	
minimal .....	0	1	0	0	0	0	0	0	0	1	0	0	0	0	

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Microscopic Findings by Severity

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Observations: Neo-Plastic and Non Neo-Plastic.....										MALES .....										FEMALES .....									
		Group 1: Control		Group 2: 30 µg/5		Group 3: 10 µg/5		Group 4: 30 µg/5		Group 5: 100 µg/5		Group 6: 300 µg/5		Group 7: 1000 µg/5		Group 1: Control		Group 2: 30 µg/5		Group 3: 100 µg/5		Group 4: 300 µg/5		Group 5: 1000 µg/5		Group 6: 30 µg/5		Group 7: 100 µg/5	
Removal Reasons: Recovery Period Animals		Number of Animals on Study:		Number of Animals Completed:																									
OPTIC NERVE, RIGHT;		(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)			
Examined.....	Within Normal Limits.....	5	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5			
Pigmentation; brown; macrophage; focal .....		(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
minimal .....		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Hemorrhage; acute; focal .....		(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
mild .....		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Infiltration; foamy; macrophage .....		(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
mild .....		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
OVARY, LEFT;		(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)			
Examined.....	Within Normal Limits.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
OVARY, RIGHT;		(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)			
Examined.....	Within Normal Limits.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
OVIDUCT, LEFT;		(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)			
Examined.....	Within Normal Limits.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
OVIDUCT, RIGHT;		(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)			
Examined.....	Within Normal Limits.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Not Examined: NOT PRESENT .....		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
PANCREAS;		(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)			
Examined.....	Within Normal Limits.....	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5			
Infiltration, Lymphocytic; focal .....		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
minimal .....		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
PARATHYROID, LEFT;		(2)	(2)	(3)	(3)	(5)	(5)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)			
Examined.....																													

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Severity

Observations: Neo-Plastic and Non Neo-Plastic.....										MALES .....										FEMALES .....															
Removal Reasons: Recovery Period Animals			Group 1: Control			Group 2: 30 µg/5			Group 3: 10 µg/5			Group 4: 30 µg/5			Group 5: 100 µg/5			Group 6: Control			Group 7: 30 µg/5			Group 8: 100 µg/5			Group 9: 300 µg/5			Group 10: 500 µg/5					
Number of Animals on Study :	5	5	Number of Animals Completed:	(5)	(5)	Number of Animals on Study :	5	5	Number of Animals Completed:	(5)	(5)	Number of Animals on Study :	5	5	Number of Animals Completed:	(5)	(5)	Number of Animals on Study :	5	5	Number of Animals Completed:	(5)	(5)	Number of Animals on Study :	5	5	Number of Animals Completed:	(5)	(5)	Number of Animals on Study :	5	5	Number of Animals Completed:	(5)	(5)
PARATHYROID, LEFT; (continued)			Within Normal Limits.....	2	2	Within Normal Limits.....	3	3	Within Normal Limits.....	2	0	Within Normal Limits.....	3	4	Within Normal Limits.....	3	4	Within Normal Limits.....	3	4	Within Normal Limits.....	3	4	Within Normal Limits.....	3	4	Within Normal Limits.....	3	4	Within Normal Limits.....	3	4	Within Normal Limits.....	3	4
PARATHYROID, RIGHT;			Not Examined: NOT PRESENT .....	3	3	Not Examined: NOT PRESENT .....	3	3	Not Examined: NOT PRESENT .....	0	0	Not Examined: NO SECTION .....	0	0	Not Examined: NOT PRESENT .....	1	2	Not Examined: NOT PRESENT .....	1	2	Not Examined: NOT PRESENT .....	1	2	Not Examined: NOT PRESENT .....	1	2	Not Examined: NOT PRESENT .....	1	2	Not Examined: NOT PRESENT .....	1	2	Not Examined: NOT PRESENT .....	1	2
PEYERS PATCHES;			Examined.....	(4)	(3)	Examined.....	(4)	(3)	Examined.....	(0)	(0)	Examined.....	(0)	(0)	Examined.....	(0)	(0)	Examined.....	(0)	(0)	Examined.....	(0)	(0)	Examined.....	(0)	(0)	Examined.....	(0)	(0)	Examined.....	(0)	(0)	Examined.....	(0)	(0)
Inflammation, Granulomatous; follicular;			Within Normal Limits.....	0	0	Within Normal Limits.....	2	1	Within Normal Limits.....	0	0	Within Normal Limits.....	0	0	Within Normal Limits.....	0	0	Within Normal Limits.....	0	0	Within Normal Limits.....	0	0	Within Normal Limits.....	0	0	Within Normal Limits.....	0	0	Within Normal Limits.....	0	0	Within Normal Limits.....	0	0
multifocal .....			Not Examined: NOT PRESENT .....	1	1	Not Examined: NOT PRESENT .....	1	1	Not Examined: NOT PRESENT .....	0	0	Not Examined: NOT PRESENT .....	0	0	Not Examined: NOT PRESENT .....	0	0	Not Examined: NOT PRESENT .....	0	0	Not Examined: NOT PRESENT .....	0	0	Not Examined: NOT PRESENT .....	0	0	Not Examined: NOT PRESENT .....	0	0	Not Examined: NOT PRESENT .....	0	0	Not Examined: NOT PRESENT .....	0	0
mineralization; focal .....			Mineralization; focal .....	(1)	(0)	Mineralization; focal .....	(0)	(0)	Mineralization; focal .....	(0)	(0)	Mineralization; focal .....	(0)	(0)	Mineralization; focal .....	(0)	(0)	Mineralization; focal .....	(0)	(0)	Mineralization; focal .....	(0)	(0)	Mineralization; focal .....	(0)	(0)	Mineralization; focal .....	(0)	(0)	Mineralization; focal .....	(0)	(0)	Mineralization; focal .....	(0)	(0)
mineral .....			Mineralization; multifocal .....	(0)	(0)	Mineralization; multifocal .....	(0)	(0)	Mineralization; multifocal .....	0	0	Mineralization; multifocal .....	0	0	Mineralization; multifocal .....	0	0	Mineralization; multifocal .....	0	0	Mineralization; multifocal .....	0	0	Mineralization; multifocal .....	0	0	Mineralization; multifocal .....	0	0	Mineralization; multifocal .....	0	0	Mineralization; multifocal .....	0	0
mild .....			Inflammation, Granulomatous; follicular;	(1)	(0)	Inflammation, Granulomatous; follicular;	(1)	(0)	Inflammation, Granulomatous; follicular;	(1)	(0)	Inflammation, Granulomatous; follicular;	(1)	(0)	Inflammation, Granulomatous; follicular;	(1)	(0)	Inflammation, Granulomatous; follicular;	(1)	(0)	Inflammation, Granulomatous; follicular;	(1)	(0)	Inflammation, Granulomatous; follicular;	(1)	(0)	Inflammation, Granulomatous; follicular;	(1)	(0)	Inflammation, Granulomatous; follicular;	(1)	(0)	Inflammation, Granulomatous; follicular;	(1)	(0)
mild .....			mild .....	1	0	mild .....	0	0	mild .....	0	0	mild .....	0	0	mild .....	0	0	mild .....	0	0	mild .....	0	0	mild .....	0	0	mild .....	0	0	mild .....	0	0	mild .....	0	0
moderate .....			moderate .....	4	1	moderate .....	3	4	moderate .....	2	1	moderate .....	3	4	moderate .....	2	1	moderate .....	2	1	moderate .....	2	1	moderate .....	2	1	moderate .....	2	1	moderate .....	2	1	moderate .....	2	1
PITUITARY GLAND;			Examined.....	(5)	(5)	Examined.....	(5)	(5)	Examined.....	(5)	(5)	Examined.....	(5)	(5)	Examined.....	(5)	(5)	Examined.....	(5)	(5)	Examined.....	(5)	(5)	Examined.....	(5)	(5)	Examined.....	(5)	(5)	Examined.....	(5)	(5)	Examined.....	(5)	(5)
Within Normal Limits.....			Within Normal Limits.....	4	4	Within Normal Limits.....	1	1	Within Normal Limits.....	0	0	Within Normal Limits.....	0	0	Within Normal Limits.....	0	0	Within Normal Limits.....	0	0	Within Normal Limits.....	0	0	Within Normal Limits.....	0	0	Within Normal Limits.....	0	0	Within Normal Limits.....	0	0	Within Normal Limits.....	0	0
Cyst; pars distalis; few .....			Cyst; pars distalis; few .....	(0)	(0)	Cyst; pars distalis; few .....	(0)	(0)	Cyst; pars distalis; few .....	(0)	(0)	Cyst; pars distalis; few .....	(0)	(0)	Cyst; pars distalis; few .....	(0)	(0)	Cyst; pars distalis; few .....	(0)	(0)	Cyst; pars distalis; few .....	(0)	(0)	Cyst; pars distalis; few .....	(0)	(0)	Cyst; pars distalis; few .....	(0)	(0)	Cyst; pars distalis; few .....	(0)	(0)	Cyst; pars distalis; few .....	(0)	(0)
mild .....			mild .....	0	1	mild .....	0	0	mild .....	0	0	mild .....	0	0	mild .....	0	0	mild .....	0	0	mild .....	0	0	mild .....	0	0	mild .....	0	0	mild .....	0	0	mild .....	0	0
Cyst; pars intermedia .....			Cyst; pars intermedia .....	(1)	(0)	Cyst; pars intermedia .....	(0)	(0)	Cyst; pars intermedia .....	(0)	(0)	Cyst; pars intermedia .....	(0)	(0)	Cyst; pars intermedia .....	(0)	(0)	Cyst; pars intermedia .....	(0)	(0)	Cyst; pars intermedia .....	(0)	(0)	Cyst; pars intermedia .....	(0)	(0)	Cyst; pars intermedia .....	(0)	(0)	Cyst; pars intermedia .....	(0)	(0)	Cyst; pars intermedia .....	(0)	(0)

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Severity

Observations: Neo-Plastic and Non Neo-Plastic.....										MALES .....										FEMALES .....											
Removal Reasons: Recovery Period Animals		Group 1: Control		Group 2: 30 µg/5		Group 3: 10 µg/5		Group 4: 30 µg/5		Group 5: 100 µg/5		Group 6: 300 µg/5		Group 7: 1000 µg/5		Group 1: Control		Group 2: 30 µg/5		Group 3: 100 µg/5		Group 4: 300 µg/5		Group 5: 1000 µg/5		Group 6: 30 µg/5		Group 7: 100 µg/5			
Number of Animals on Study :	(5)	Number of Animals Completed:	(5)	Number of Animals on Study :	(5)	Number of Animals Completed:	(5)	Number of Animals on Study :	(5)	Number of Animals Completed:	(5)	Number of Animals on Study :	(5)	Number of Animals Completed:	(5)	Number of Animals on Study :	(5)	Number of Animals Completed:	(5)	Number of Animals on Study :	(5)	Number of Animals Completed:	(5)	Number of Animals on Study :	(5)	Number of Animals Completed:	(5)	Number of Animals on Study :	(5)	Number of Animals Completed:	(5)
PITUITARY GLAND; (continued)		minimal .....	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0			
PROSTATE GLAND;		Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)			
Within Normal Limits.....		Within Normal Limits.....	5	4	2	1	4	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Inflammation; purulent; focal .....		Inflammation; purulent; focal .....	(0)	(0)	(0)	(0)	(1)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
minimal .....		minimal .....	0	0	0	0	1	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Infiltration, lymphocytic; widespread .....		Infiltration, lymphocytic; widespread .....	(0)	(0)	(0)	(0)	(1)	(1)	(0)	(0)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)			
mild .....		mild .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Infiltration, lymphocytic; focal .....		Infiltration, lymphocytic; focal .....	(0)	(1)	(2)	(1)	(1)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
minimal .....		minimal .....	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
mild .....		mild .....	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
moderate .....		moderate .....	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Infiltration, lymphocytic; multifocal .....		Infiltration, lymphocytic; multifocal .....	(0)	(1)	(2)	(0)	(1)	(1)	(0)	(0)	(2)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)			
minimal .....		minimal .....	0	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
mild .....		mild .....	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SALIVARY GLANDS, MANDIBULAR;		Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)			
Within Normal Limits.....		Within Normal Limits.....	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5			
SALIVARY GLANDS, SUBLINGUAL;		Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)			
Within Normal Limits.....		Within Normal Limits.....	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5			
Not Examined: NOT PRESENT .....		Not Examined: NOT PRESENT .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
SALIVARY GLANDS, PAROTIS;		Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(4)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)			
Within Normal Limits.....		Within Normal Limits.....	5	5	5	5	5	5	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5			
Not Examined: NOT PRESENT .....		Not Examined: NOT PRESENT .....	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
SEMINAL VESICLES;		Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)			
Within Normal Limits.....		Within Normal Limits.....	5	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5			

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Severity

		MALES							FEMALES							
Observations: Neo-Plastic and Non Neo-Plastic		Group 1: Control			Group 2: 30 µg/5		Group 3: 10 µg/5		Group 4: 30 µg/5		Group 5: 100 µg/5		Group 6: 300 µg/5		Group 7: 1000 µg/5	
Removal Reasons: Recovery Period Animals		Control	30 µg/5	10 µg/5	30 µg/5	100 µg/5	30 µg/5	100 µg/5	30 µg/5	100 µg/5	30 µg/5	100 µg/5	30 µg/5	100 µg/5	30 µg/5	100 µg/5
Number of Animals on Study:	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Number of Animals Completed:	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
SEMINAL VESICLES; (continued)		(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Infiltration, lymphocytic; focal .....	minimal .....	0	1	0	0	0	0	0	0	0	-	-	-	-	-	-
SKIN;		(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
Examined.....	Within Normal Limits.....	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
SPINAL CORD;		(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
Examined.....	Within Normal Limits.....	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
SPLICE;		(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
Examined.....	Within Normal Limits.....	2	1	3	3	3	3	3	3	3	2	1	2	3	0	2
Congestion .....	minimal .....	(3)	(4)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(3)	(4)	(3)	(2)	(5)	(3)
mild .....	1	3	1	2	2	2	2	2	2	2	2	2	2	2	4	3
STOMACH, GLANDULAR;		2	1	0	0	0	0	0	0	0	1	2	1	0	1	0
Examined.....	Within Normal Limits.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
Infiltration, Eosinophilic .....	minimal .....	0	0	2	1	1	0	0	0	0	0	0	0	0	0	2
mild .....	4	3	2	2	3	3	3	5	4	5	4	5	5	4	1	(3)
Dilation; glandular; focal .....	minimal .....	1	2	3	1	1	0	0	0	0	0	0	0	0	0	2
Dilation; glandular; multifocal .....	minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyst; single .....	minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hyperplasia; mucosa-associated lymphoid tissue .....	mild .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study  
 Microscopic Findings by Severity

Observations: Neo-Plastic and Non Neo-Plastic										MALES										FEMALES									
Removal Reasons: Recovery Period Animals		Group 1: Control		Group 2: 30 µg/5		Group 3: 10 µg/5		Group 4: 30 µg/5		Group 5: 100 µg/5		Group 6: 300 µg/5		Group 7: 1000 µg/5		Group 1: Control		Group 2: 30 µg/5		Group 3: 100 µg/5		Group 4: 300 µg/5		Group 5: 1000 µg/5		Group 6: 30 µg/5		Group 7: 100 µg/5	
Number of Animals on Study:	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
Number of Animals Completed:	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)		
STOMACH, NONGLANDULAR;																													
Examined; Within Normal Limits.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)		
TESTIS, LEFT;																													
Examined; Within Normal Limits.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)		
Spermatid Giant Cells; single.....	3	5	5	4	5	5	5	5	5	5	5	5	5	5	5	-	-	-	-	-	-	-	-	-	-	-	-		
minimal.....	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
Dilation; tubular.....	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-			
mild.....	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
TESTIS, RIGHT;																													
Examined; Within Normal Limits.....	(5)	(4)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)		
Not Examined; NOT PRESENT.....	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-			
Dilation; tubular.....	(1)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
moderate.....	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-			
Infiltration; lymphoplasmacytic; focal.....	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				
moderate.....	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-			
Spermatocoele; single.....	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				
minimal.....	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-			
THYMUS;																													
Examined; Within Normal Limits.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)		
Hemorrhage; acute; focal.....	3	4	3	4	3	2	3	2	3	4	3	4	3	4	3	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
minimal.....	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
Hemorrhage; acute; multifocal.....	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
minimal.....	(1)	(1)	(2)	(1)	(2)	(1)	(1)	(2)	(1)	(1)	(2)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)			
mild.....	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
THYROID, LEFT;																													
Examined; Within Normal Limits.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)		
Within Normal Limits.....	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	(4)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)		

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Observations: Neo-Plastic and Non Neo-Plastic.....										MALES .....										FEMALES .....									
Removal Reasons: Recovery Period Animals		Group 1: Control		Group 2: 30 µg/5		Group 3: 10 µg/5		Group 4: 30 µg/5		Group 5: 100 µg/5		Group 6: 300 µg/5		Group 7: 1000 µg/5		Group 1: Control		Group 2: 30 µg/5		Group 3: 100 µg/5		Group 4: 300 µg/5		Group 5: 1000 µg/5					
Number of Animals on Study :	Number of Animals Completed:	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)				
THYROID, LEFT; (continued)																													
Not Examined: NOT PRESENT .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Cyst; keratinized; single .....	(1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
minimal .....	1																												
THYROID, RIGHT;																													
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)					
Within Normal Limits.....	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	5	5					
Cyst; keratinized; multiple .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)					
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Cyst; keratinized; single .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)					
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
TONGUE;																													
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)					
Within Normal Limits.....	5	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	5	5					
Granuloma; single .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)					
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0					
Granuloma; hair; single .....	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)					
minimal .....	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
TRACHEA;																													
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)					
Within Normal Limits.....	5	4	5	4	5	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4					
Infiltration; lymphohistiocytic; multifocal .....	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)					
minimal .....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0					
Infiltration; lymphocytic; focal .....	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)					
minimal .....	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0					
Infiltration; lymphocytic; multifocal .....	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)					
minimal .....	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0					
URINARY BLADDER;																													
Examined.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)					
Within Normal Limits.....	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5					

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		MALES							FEMALES										
		Group 1: Control			Group 2: 30 µg/5			Group 3: 10 µg/5			Group 4: 30 µg/5			Group 5: 100 µg/5			Group 6: 30 µg/5		
Observations: Neo-Plastic and Non Neo-Plastic	Number of Animals on Study:	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Number of Animals Completed:	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
URINARY BLADDER; (continued)																			
Infiltration, lymphocytic; focal	minimal	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
UTERUS;																			
Examined.....	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
Within Normal Limits.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dilation .....	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
mild .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
moderate .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VAGINA;																			
Examined.....	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
Within Normal Limits.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Keratinization; epithelial	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
minimal .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
mild .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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### Tabulated Animal Data

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Tabulated Animal Data

SEX: MALE	GROUP 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
REMOVAL REASON T T T T T T T T T T T T T T T T	
ANIMAL NUMBER 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5	
EPIDIDYMIS, RIGHT; Infestation, Lymphocytic	+ + N + + N + + N + + + + + + + + + +
Infestation; mixed	1 1 . . 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Oligospermia . . . . .	. . . . .
ESOPHAGUS; . . . . .	N N N N N N N N N N N N N N N N N N N N
EYE, LEFT; . . . . .	N N N N N N N N N N N N N N N N N N N N
EYE, RIGHT; . . . . .	N N N N N N N N N N N N N N N N N N N N
HARDERTIAN GLAND, LEFT; Infestation, Lymphocytic	N N N N N + N N N N N N N N N N N N N N
Infestation; lymphohistiocytic	. . . . .
HARDERTIAN GLAND, RIGHT; Infestation, Lymphocytic	N N N N N + N N + N N N N N N N N N N N
Infestation; mixed	. . . . .
Necrosis . . . . .	. . . . .
Infestation; lymphohistiocytic	. . . . .
Infestation; mixed	. . . . .
Inflammation, Chronic . . . . .	. . . . .
HEART; . . . . .	N N N N N N N N N N N N N N N N N N N N
Hemorrhage . . . . .	+ N N N + + + + + + + + + + + + + + + +
Hyperkeratosis; epidermal	1 . . . 1 1 1 1 1 1
INJECTION SITE I; . . . . .	

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## Tabulated Animal Data

SEX: MALE	REMOVAL REASON	ANIMAL	NUMBER
Hemorrhage	GROUP 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Inflammation; lymphohistiocytic	T T		
myofiber; mixed		2	
myofiber; Degeneration			2
myofiber; Necrosis			
myofiber; Necrosis; traumatic			
muscle; Regeneration			
subcutis; Edema			
subcutis; Fibrosis			
subcutis; Inflammation; mixed			
inter- / perimuscular; Edema			
inter- / perimuscular; Fibrosis			
inter- / perimuscular; Inflammation; mixed			
inter- / perimuscular; Inflammation;			
lymphohistiocytic			
intramuscular / interstitial; Edema			
intramuscular / interstitial; Fibrosis			
intramuscular / interstitial; Inflammation;			
lymphohistiocytic			
intramuscular / interstitial; Inflammation;			
mixed			
dermis; subcutis; Necrosis			
INTESTINE, CECUM;	N N N N N N N N + N N N N		
Infiltration, Eosinophilic; increased			
mucosa-associated lymphoid tissue; Hyperplasia			2
INTESTINE, COLON;	N N N N + N N N N N N N N		
Infiltration, Eosinophilic; increased			3
mucosa-associated lymphoid tissue; Hyperplasia			

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## Tabulated Animal Data

SEX: MALE	GROUP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	REMOVAL REASON	T T T T T T T T T T T T T T T T T T T T
ANIMAL	NUMBER	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5	LACRIMAL GLAND, RIGHT	N N
LIVER; .....	.....	.....	.....	.....
Congestion .....	.....	.....	+	+
Hematopoesis; extramedullary .....	.....	.....	3 3 3 2 2 3 3 3 2 3 2 3 3 3 2	+
Infiltration; mixed .....	.....	.....	1 .....	+
Necrosis .....	.....	.....	2 .....	+
Infiltration; Neutrophilic .....	.....	.....	2 .....	+
Infiltration; Lymphocytic .....	.....	.....	1 1 .....	+
Vacuolation; hepatocellular .....	.....	.....	2 .....	+
Infiltration; Eosinophilic peripرتal; Vacuolation; hepatocellular .....	.....	.....	.....	1
Kupffer cell; Pigmentation; brown .....	.....	.....	.....	+
LUNGS WITH BRONCHI; .....	.....	.....	+	+
Ossification .....	.....	.....	N + N + + + + + + + + + + + + + + + +	+
Hemorrhage; acute .....	.....	.....	.....	+
Infiltration; lymphohistiocytic .....	.....	.....	1 .....	+
bronchial-associated lymphoid tissue; .....	.....	.....	2 .....	+
Hyperplasia .....	.....	.....	.....	+
perivascular; Infiltration; Eosinophilic .....	.....	.....	1 .....	+
macrophage; alveolus; Infiltration .....	.....	.....	1 .....	+
macrophage; Pigmentation; brown .....	.....	.....	1 .....	+
LYMPH NODE, CERVICAL; .....	.....	.....	+	+
Histocytosis .....	.....	.....	1 1 1 .....	+
Hemorrhage .....	.....	.....	1 1 1 1 .....	+
Plasmacytosis .....	.....	.....	.....	+
germinal center; Increased Cellularity .....	.....	.....	2 1 2 1 .....	+
.....	.....	.....	1 1 2 2 3 3 2 2 2 .....	+

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Tabulated Animal Data

SEX: MALE	REMOVAL REASON	ANIMAL	NUMBER	GROUP
Histiocytosis .....	T T T T T T T T T T T T T T T T	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 1 1 2 2 2 2 2 1 1 2 1 1 2	+ + + + + + + + + + + + + + + +
Plasmacytosis .....	.....	.....	.....	.....
Infiltration, Eosinophilic	.....	.....	.....	.....
Inflammation .....	.....	.....	.....	.....
Infiltration; macrophage germinal center; Increased Cellularity .....	.....	2 2 1 1 2 1 . 2 . 1 2 2 2 1 2	2 2 1 1 2 1 . 2 . 1 2 2 2 1 2	+ + + + + + + + + + + + + + + +
LYMPH NODE, ILLIAC; Histiocytosis .....	.....	.....	.....	.....
Erythrophagocytosis .....	.....	.....	.....	.....
Histiocytosis .....	.....	.....	.....	.....
Infiltration, Eosinophilic	.....	.....	.....	.....
germinal center; Increased Cellularity .....	.....	2 2 1 2 . 2 2 2 2 2 2 2 2 2	2 2 1 2 . 2 2 2 2 2 2 2 2 2	+ + + + + + + + + + + + + + + +
LYMPH NODE, MESENTERIC; Histiocytosis .....	.....	.....	.....	.....
Plasmacytosis .....	.....	.....	.....	.....
macrophage; Pigmentation; brown germinal center; Increased Cellularity .....	.....	.....	.....	.....
MAMMARY GLANDS; interstitium; Inflammation; mixed interstitium; lymphatic; Inflammation; mixed .....	.....	N N N N X N N N N N N N N N	.....	.....
SKELETAL MUSCLE; Infiltration; mixed .....	.....	N N N N N N N N N N N N N N	.....	.....
myofiber; Necrosis .....	.....	.....	.....	.....
NERVE, SCIATIC; perineural; Inflammation .....	.....	N N N N N N N N N N N N N N	.....	.....

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SEX: MALE	GROUP 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	REMOVAL REASON T T T T T T T T T T T T T T T T
	ANIMAL . . . . .	NUMBER . . . . .
	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5	
OPTIC NERVE, LEFT; .....	N N	
macrophage; Pigmentation; brown		
OPTIC NERVE, RIGHT; .....	N N	
Hemorrhage; acute .....		
macrophage; Pigmentation; brown		
macrophage; Infiltration; foamy		
PANCREAS; .....	N + N	
Infiltration, Lymphocytic .....		
acinar cell; Hyperplasia .....	2 . . . . .	
PARATHYROID, LEFT; .....	N X N X X N X N N X N X N X N X N X N X	
PARATHYROID, RIGHT; .....	N N N X N N N N N N N N N N N N N N N N N N	
PEYERS PATCHES; .....	+ + + N X + + X + + + + + + + + + + + + + +	
Mineralization .....		
Inflammation, Granulomatous; follicular		
germinal center; Increased Cellularity .....	3 3 3 3 . 3 3 3 3 . 3 3 3 3 . 3 3 3 3 . 3 3 3 3 . 3	
PITUITARY GLAND; .....	N N N N N N N N N N N N N N + N N N N N N N N	
pars distalis; Cyst .....		
pars intermedia; Cyst .....		
PROSTATE GLAND; .....	N N N N + + N N N N N N N N N N N N N N N N	
Infiltration; mixed .....		
Inflammation; purulent .....		

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SEX : MALE	URINARY BLADDER;.....	N N N N N N N N N N N N N N N N
	Infiltration, Lymphocytic .....	.
GROUP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.
REMOVAL REASON	T T T T T T T T T T T T T T T T	.
ANIMAL	• • • • • • • •	.
NUMBER	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5	.

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SEX: MALE	REMOVAL REASON	GROUP
ADRENAL GLAND, LEFT; Dilatation; vacuolar . . . . .	T T T T T T T T T T T T	2 2 2 2 2 2 2 2 2 2 2 2
Vacuolation; cortical . . . . .	· · · · ·	N N N N N N + N + N + N
Infiltration, lymphocytic . . . . .	· · · · ·	· · · · ·
ADRENAL GLAND, RIGHT; Dilatation; vacuolar . . . . .	N N + N N N N N N + N N N	N N + N N N N N N + N N N
Vacuolation; cortical . . . . .	· · · · ·	· · · · ·
AORTA ABDOMINALIS; . . . . .	N N N X N N N N N N N N N	N N N N N N N N N N N N N
BONE, OS FEMORIS WITH JOINT; surrounding tissue; Inflammation; mixed . . . . .	N N N N N N N N N N N N N N	N N N N N N N N N N N N N N
surrounding tissue; Infiltration, Lymphocytic . . . . .	· · · · ·	· · · · ·
BONE MARROW, OS FEMORIS WITH JOINT; Increased Cellularity . . . . .	+ + + + + + + + + + N N N N	+ + + + + + + + + + N N N N
surrounding tissue; muscle; Infiltration; mixed . . . . .	· · · · ·	· · · · ·
BRAIN, BRAIN STEM; . . . . .	N N N N N N N N N N N N N N	N N N N N N N N N N N N N N
BRAIN, CEREBELLUM; . . . . .	N N N N N N N N N N N N N N	N N N N N N N N N N N N N N
BRAIN, CEREBRUM; . . . . .	N N N N N N N N N N N N N N	N N N N N N N N N N N N N N
EPIDIDYMIS, LEFT; Infiltration, lymphocytic . . . . .	+ + + + N + N + + + + + + +	1 1 1 1 1 . 1 . 1 1 1 1 1 1 1

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SEX: MALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
EPIDIDYMIS, RIGHT; Infiltration, lymphocytic .	Infestation, mixed .	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 1 1 1 1 1 . 1 1 1 1 . 1 1 1	+ + + + + + N + + + + + + + +
Oligospermia .				.
ESOPHAGUS; .....				N N N N N N N N N N N N N N N
EYE, LEFT; .....				N N N N N N N N N N N N N N N
EYE, RIGHT; .....				N N N N N N N N N N N N N N N
HARDERIAN GLAND, LEFT; Infiltration, lymphocytic .	Infiltration, lymphocytic .	3 3 3 3 3 3 3 3 3 4 4 4 4 4	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5	N N N N N N N N N N N N N N N
	Infiltration; lymphohistiocytic .....			.
	Necrosis .....			.
	Infiltration; lymphohistiocytic .....			.
	Infiltration; mixed .....			.
	Inflammation, Chronic .....			.
HEART; .....	Infiltration; lymphohistiocytic .....	+	N N N N N N N N + N N N	
	Infestation, mixed .....			.
	Infiltration, lymphocytic .			.
				.
INJECTION SITE I; .....	Hemorrhage .....	+	+ + + + + + + + + + + + +	
	Inflammation; lymphohistiocytic .....			.
	Hyperkeratosis; epidermal .....			3 . . . . .

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### Tabulated Animal Data

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Tabulated Animal Data

SEX: MALE	GROUP	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
REMOVAL REASON	T T T T T T T T T T T T T T T T	
ANIMAL	• • • • • • • • • • • • • • • •	
NUMBER	3 3 3 3 3 3 3 3 4 4 4 4 4 4 4	
	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5	
INTESTINE, DUODENUM;	N N N N N N N N N N N N N N N N	
INTESTINE, ILEUM;	N N N N N N N N N N N N N N N N	
INTESTINE, JEJUNUM;	N N N N N N N N N N N N N N N N	
INTESTINE, RECTUM;	N N N N N N N N + N + N + N +	
Infiltration, Eosinophilic increased.	. . . . . . . . . . . . . . . .	
mucosa-associated lymphoid tissue; Hyperplasia ..	. . . . . . . . . . . . . . . .	
KIDNEY, LEFT;	+ + + + + + + + + + + + + + + +	
Congestion .....	3 3 3 2 2 3 3 2 3 3 3 3 3 3	
Infiltration, Lymphocytic .....	. . . . . . . . . . . . . . . .	
Mineralization .....	. . . . . . . . . . . . . . . .	
Inflammation, Chronic; interstitial .....	. . . . . . . . . . . . . . . .	
tubule; Basophilia .....	. . . . . . . . . . . . . . . .	
tubule; cast; hyaline .....	. . . . . . . . . . . . . . . .	
KIDNEY, RIGHT;	+ + + + + + + + + + + + + + + +	
Congestion .....	3 3 3 2 2 3 3 3 2 3 3 3 3	
Infiltration, Lymphocytic .....	. . . . . . . . . . . . . . . .	
Mineralization .....	. . . . . . . . . . . . . . . .	
Inflammation, Chronic; interstitial .....	. . . . . . . . . . . . . . . .	
tubule; Basophilia .....	. . . . . . . . . . . . . . . .	
tubule; cast; hyaline .....	. . . . . . . . . . . . . . . .	
tubule; Dilation .....	. . . . . . . . . . . . . . . .	
subcapsular; Infiltration, Neutrophilic .....	. . . . . . . . . . . . . . . .	
LAGRIMAL GLAND, LEFT;	N N N N N N N N N N N N N N N N	

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## Tabulated Animal Data

SEX: MALE	REMOVAL GROUP	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	REASON	T T T T T T T T T T T T T T T T T T T T
ANIMAL NUMBER	3 3 3 3 3 3 3 3 4 4 4 4 4 4 4	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5		
LACRIMAL GLAND, RIGHT;	.....	.....	N N N N N N N N N N N N N N N N N N N N	
LIVER;	.....	.....	+	+
Congestion	.....	.....	+	+
Hematopoiesis; extramedullary	.....	.....	3 3 2 2 3 .	3 2 2 3 3 3 3 2
Infiltration; mixed	.....	.....	. 1 1 1 1	.. . . .
Necrosis	.....	.....	.....	.....
Infiltration, Neutrophilic	.....	.....	.....	.....
Infiltration, Lymphocytic	.....	.....	.....	.....
Vacuolation; hepatocellular	.....	.....	.....	.....
Infiltration, Eosinophilic	.....	.....	.....	.....
periporal; Vacuolation; hepatocellular	.....	.....	1	.....
kupffer cell; Pigmentation; brown	.....	.....	.....	.....
LLUNGS WITH BRONCHI;	.....	.....	+	+
Ossification	.....	.....	+	+
Hemorrhage; acute	.....	.....	1	.....
Infiltration; lymphohistiocytic	.....	.....	2 1	.....
Infiltration; mixed	.....	.....	.....	3 .
bronchial-associated lymphoid tissue;	.....	.....	.....	.....
Hyperplasia	.....	.....	1 . 1 1 .	1 1 1 .
perivascular; Infiltration, Eosinophilic	.....	.....	.....	.....
macrophage; alveolus; infiltration	.....	.....	.....	.....
macrophage; Pigmentation; brown	.....	.....	.....	.....
LYMPH NODE, CERVICAL;	.....	.....	+	+
Histocytosis	.....	.....	1 2 1 2 1 1 1 2 1 1 1 1 1 1	.....
Hemorrhage	.....	.....	.....	.....
Plasmacytosis	.....	.....	.....	.....
germinal center; Increased Cellularity	.....	.....	2 2 2 2 1 1 2 1 2 2 2 2 2 3 1	.....

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 Tabulated Animal Data

SEX: MALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
	Histocytosis	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 1 2 1 1 2 2 2 1 2 1 1 2 2	
	Plasmacytosis	T T T T T T T T T T T T T T T T	2 2 1 1 . . . . . . . . . . . .	
	Infiltration, Eosinophilic			
	Inflammation			
	Infiltration; macrophage			
	germinal center; Increased Cellularity			
	LYMPH NODE, ILLIAC;			
	Histiocytosis			
	Plasmacytosis			
	Infiltration, Eosinophilic			
	germinal center; Increased Cellularity			
	LYMPH NODE, MESENTERIC;			
	Erythrophagocytosis			
	Histiocytosis			
	Plasmacytosis			
	Infiltration, Eosinophilic			
	germinal center; Increased Cellularity			
	LYMPH NODE, RENAL;			
	Histiocytosis			
	Plasmacytosis			
	macrophage; Pigmentation; brown			
	germinal center; Increased Cellularity			
	MAMMARY GLANDS;			
	interstitium; Inflammation; mixed			
	interstitium; lymphatic; Inflammation; mixed			
	SKELETAL MUSCLE;			
	Infiltration; mixed			
	myofiber; Necrosis			
	NERVE, SCIATIC;			
	perineurial; Inflammation			

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SEX: MALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
	T T T T T T T T T T T T	2 2 2 2 2 2 2 2 2 2 2 2	3 3 3 3 3 3 3 3 3 3 3 4 4 4 4 4	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5
OPTIC NERVE, LEFT;	Pigmentation; brown	N N N N N N N N N N + N		
macrophage				
OPTIC NERVE, RIGHT;	Pigmentation; brown	N N N X N N N N X X N N N N +		
Hemorrhage; acute				
macrophage				
macrophage; Infiltration; foamy				
PANCREAS;	Infiltration, Lymphocytic .	N N N N N N N N N N N N		
acinar cell; Hyperplasia .				
PARATHYROID, LEFT;		N N N N N N N N X X N N N		
PARATHYROID, RIGHT;		N X N X N N N X N N X N X N N		
PEYERS PATCHES;		+ X + + X + X X + X + + X +		
Mineralization			2	
Inflammation, Granulomatous; follicular				
germinal center; Increased Cellularity			3 . 2 . 2 . 3 . . 2 . 2 . 3 . 2	
PITUITARY GLAND;		N N + N N N N N N N N + N		
pars distalis; Cyst			1 . . . . . . . . . . . . . . . . . .	2 .
pars intermedia; Cyst				
PROSTATE GLAND;		N N N + X N N N N N N + N		
Infiltration; mixed			2	
Inflammation; purulent				
Infiltration, Lymphocytic				

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Tabulated Animal Data

SEX: MALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
SALIVARY GLANDS, MANDIBULAR; .....	N	2	2	2
SALIVARY GLANDS, SUBLINGUAL; .....	N	2	2	2
SALIVARY GLANDS, PAROTIS; .....	N	2	2	2
Infiltration, Lymphocytic .....	N	3	3	3
SEMINAL VESICLES; .....	N	3	3	3
Infiltration, Lymphocytic .....	N	3	3	3
surrounding tissue; fat; Infiltration; mixed .....	N	4	4	4
SKIN; .....	N	4	4	4
Necrosis; muscular .....	N	5	5	5
Infiltration, Neutrophilic; muscular .....	N	5	5	5
subcutaneous; Infiltration; mixed .....	N	5	5	5
SPINAL CORD; .....	N	5	5	5
SPILEN; .....	+	6	6	6
Congestion .....	1	6	6	6
Hematopoiesis; increased .....	1	6	6	6
STOMACH, GLANDULAR; .....	+	7	7	7
Infiltration, Eosinophilic .....	1	7	7	7
Infiltration, Lymphocytic .....	1	7	7	7
Dilation; glandular .....	1	7	7	7
Cyst .....	1	7	7	7
Infiltration; mixed .....	1	7	7	7
mucosa-associated lymphoid tissue; Hyperplasia .....	1	7	7	7
mucosa; Infiltration, Neutrophilic .....	1	7	7	7

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Tabulated Animal Data

SEX: MALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
STOMACH, NONGLANDULAR; .....	N	2	3	1
TESTIS, LEFT; .....	N	2	3	2
Spermatid Giant Cells .....	N	2	3	3
Dilation; tubular .....	N	2	3	4
TESTIS, RIGHT; .....	N	2	3	5
Dilation; tubular .....	N	2	3	6
Infiltration; Lymphoplasmacytic .....	N	2	3	7
Spermatocoele .....	N	2	3	8
THYMUS; .....	+	2	3	9
Hemorrhage; acute .....	N	2	3	10
THYROID, LEFT; .....	N	2	3	11
Cyst; keratinized .....	N	2	3	12
THYROID, RIGHT; .....	N	2	3	13
Cyst; keratinized .....	N	2	3	14
TONGUE; .....	N	2	3	15
Infiltration, Lymphocytic .....	N	2	3	16
Granuloma; hair .....	N	2	3	17
TRACHEA; .....	N	2	3	18
Infiltration; lymphohistiocytic .....	N	2	3	19
Infiltration; mixed .....	N	2	3	20
Infiltration, Lymphocytic .....	N	2	3	21
macrophage; Pigmentation; brown .....	N	2	3	22

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Tabulated Animal Data

SEX: MALE  
 URINARY BLADDER; .....  
 Infiltration. Lymphocytic .....  
 GROUP 2 2 2 2 2 2 2 2 2 2 2 2 2  
 REMOVAL REASON T T T T T T T T T T T T  
 ANIMAL . . . . .  
 NUMBER 3 3 3 3 3 3 3 3 4 4 4 4 4  
 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5

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Tabulated Animal Data

SEX: MALE	REMOVAL REASON	GROUP
ADRENAL GLAND, LEFT; Dilatation; vacuolar . . . . .	N N + N + N + N + N N N	3 3 3 3 3 3 3 3 3 3 3 3
Vacuolation; cortical . . . . .	. . 1 . 1 . 1 . 1 . . . .	T T T T T T T T T T T T
Infiltration, lymphocytic . . . . .	. . . . .	
ADRENAL GLAND, RIGHT; Dilatation; vacuolar . . . . .	N + + N N N N N N N N N	6 6 6 6 6 6 6 6 7 7 7 7
Vacuolation; cortical . . . . .	. 1 1 1 . . . . .	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5
AORTA ABDOMINALIS; . . . . .	N N N N N N N N N N N N N	
BONE, OS FEMORIS WITH JOINT; surrounding tissue; Inflammation; mixed . . . . .	N N N N N N N N N N N N N	
surrounding tissue; Infiltration, Lymphocytic . . . . .	. . . . .	
BONE MARROW, OS FEMORIS WITH JOINT; Increased Cellularity . . . . .	+ + + + + + + + + + N N N	
surrounding tissue; muscle; Infiltration; mixed . . . . .	1 1 1 1 1 1 1 1 1 1 . . . .	
BRAIN, BRAIN STEM; . . . . .	N N N N N N N N N N N N N	
BRAIN, CEREBELLUM; . . . . .	N N N N N N N N N N N N N	
BRAIN, CEREBRUM; . . . . .	N N N N N N N N N N N N N	
EPIDIDYMIS, LEFT; Infiltration, lymphocytic . . . . .	+ + + N + + + + + + + + +	
	1 1 1 1 . 1 1 1 1 2 1 1 . 1	

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Tabulated Animal Data

SEX: MALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
EPIDIDYMIS, RIGHT; Infiltration, lymphocytic .	Infestation, mixed .	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 1 . 1 1 1 . 1 1 1 1 1 1	+
Oligospermia .				.
ESOPHAGUS; .....				N N N N N N N N N N N N N N N N
EYE, LEFT; .....				N N N N N N N N N N N N N N N N
EYE, RIGHT; .....				N N N N N N N N N N N N N N N N
HARDERIAN GLAND, LEFT; Infiltration, lymphocytic .	Infiltration, lymphocytic .	3	1 1 1 . 1 1 1 . 1 1 1 1 1 1	+
Oligospermia .				.
HEART; Infiltration; lymphohistiocytic .....	Infiltration; lymphohistiocytic .....	3	1 1 1 . 1 1 1 . 1 1 1 1 1 1	+
Necrosis .....				.
Inflammation; mixed .....				.
Inflammation, Chronic .....				.
INJECTION SITE I; Hemorrhage .....	Hemorrhage .....	3	1 1 1 . 1 1 1 . 1 1 1 1 1 1	+
Inflammation; hyperkeratosis; epidermal .....				.

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Tabulated Animal Data

SEX: MALE	GROUP	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
REMOVAL REASON	T T T T T T T T T T T T T T T	
ANIMAL	• • • • • • • • • • • • •	
NUMBER	6 6 6 6 6 6 6 6 6 7 7 7 7 7	
	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5	
INTESTINE, DUODENUM;	.....	N N N N N N N N N N N N N N N N
INTESTINE, ILEUM;	.....	N N N N N N N N N N N N N N N N
INTESTINE, JEJUNUM;	.....	N N N N N N N N N N N N N N N N
INTESTINE, RECTUM;	.....	N N + N N + N N + N N + N N +
Infiltration, Eosinophilic increased.	.....	.....
mucosa-associated lymphoid tissue; Hyperplasia ..	.. . . . . . . . . . . . . . . . .	.....
KIDNEY, LEFT;	.....	+ + + + + + + + + + + + + + +
Congestion .....	.....	3 3 2 2 3 2 3 2 3 3 3 3 3 3
Infiltration, Lymphocytic .....	.....	1 . . 1 . . . 1 . . . 1 . . . 1 .
Mineralization .....	.....	.....
Inflammation, Chronic; interstitial .....	.....	.....
tubule; Basophilia .....	.....	.....
tubule; cast; hyaline .....	.....	.....
KIDNEY, RIGHT;	.....	+ + + + + + + + + + + + + + +
Congestion .....	.....	3 3 2 2 3 2 2 3 3 3 3 2
Infiltration, Lymphocytic .....	.....	1 . . 1 . . . 1 . . . 1 . . . 1 .
Mineralization .....	.....	.....
Inflammation, Chronic; interstitial .....	.....	.....
tubule; Basophilia .....	.....	.....
tubule; cast; hyaline .....	.....	.....
tubule; dilation .....	.....	.....
subcapsular; Infiltration, Neutrophilic .....	.....	.....
LAGRIMAL GLAND, LEFT;	.....	N N N N N N N N N N N N N N N N

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Tabulated Animal Data

SEX: MALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER	LACRIMAL GLAND, RIGHT;	LIVER;	LUNGS WITH BRONCHI;	LYMPH NODE, CERVICAL;
	Congestion .....	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	.....	.....	.....	+ + + + + + + + + + + + + + +	+ N + + + + + + + + + + + + + +	+ + + + + + + + + + + + + + + + +
	Hematopoiesis; extramedullary .....	3 3 3 2 3 3 3 2 2 .	.....	.....	.....	3 3 3 3 3 3 3 2 2 .	3 3 3 3	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Infiltration; mixed .....	.....	.....	.....	.....	.....	.....	.....
	Necrosis .....	.....	.....	.....	.....	.....	.....	.....
	Infiltration, Neutrophilic .....	.....	.....	.....	.....	.....	.....	.....
	Infiltration, Lymphocytic .....	1 1 1 1 .	.....	.....	.....	.....	.....	.....
	Vacuolation; hepatocellular .....	.....	.....	.....	.....	.....	.....	.....
	Infiltration, Eosinophilic .....	.....	.....	.....	.....	.....	.....	.....
	periportal; vacuolation; hepatocellular .....	.....	.....	.....	.....	.....	.....	.....
	Kupffer cell; Pigmentation; brown .....	.....	.....	.....	.....	.....	.....	.....
	LUNGS WITH BRONCHI; .....	.....	.....	.....	.....	.....	.....	.....
	Ossification .....	.....	.....	.....	.....	.....	.....	.....
	Hemorrhage; acute .....	.....	.....	.....	.....	.....	.....	.....
	Infiltration; lymphohistiocytic .....	.....	.....	.....	.....	.....	.....	.....
	Infiltration; mixed .....	.....	.....	.....	.....	.....	.....	.....
	bronchial-associated lymphoid tissue; .....	.....	.....	.....	.....	.....	.....	.....
	Hyperplasia .....	1 .	.....	.....	.....	1 .	.....	.....
	perivascular; Infiltration; Eosinophilic .....	.....	.....	.....	.....	.....	.....	.....
	macrophage; alveolus; Infiltration .....	.....	.....	.....	.....	.....	.....	.....
	macrophage; Pigmentation; brown .....	.....	.....	.....	.....	.....	.....	.....
	LYMPH NODE, CERVICAL; .....	.....	.....	.....	.....	.....	.....	.....
	Histiocytosis .....	2 1 1 1 1 1 .	.....	.....	.....	1 2 1 1 1 1 2 1	.....	.....
	Hemorrhage .....	.....	.....	.....	.....	.....	.....	.....
	Plasmacytosis .....	.....	.....	.....	.....	.....	.....	.....
	germinal center; Increased Cellularity .....	2 2 2 2 1 1 2 2 2 2 2	.....	.....	.....	.....	.....	.....

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Tabulated Animal Data

SEX: MALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
	Histocytosis	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 2 1 1 1 2 2 1 1 2 2 1 1 2 2	
	Plasmacytosis	T T T T T T T T T T T T T T T T	2 2 2 2 . 1 . 2 2 . . . . . . . .	
	Infiltration, Eosinophilic		. . . . . . . . . . . . . . . .	
	Inflammation		. . . . . . . . . . . . . . . .	
	Infiltration; macrophage		. . . . . . . . . . . . . . . .	
	germinal center; Increased Cellularity	2 . 3 3 3 2 2 2 2 2 2 2 2 2 1		
	LYMPH NODE, ILLIAC;		+ + + + + + + + + + + + + + + + + +	
	Histiocytosis		1 . . . . . . . . . . . . . . . . . .	
	Plasmacytosis		2 . . . . . . . . . . . . . . . . . .	
	Infiltration, Eosinophilic		2 . . . . . . . . . . . . . . . . . .	
	germinal center; Increased Cellularity	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
	LYMPH NODE, MESENTERIC;		+ + + + + + + + + + + + + + + + + +	
	Erythrophagocytosis		2 2 2 2 1 2 2 2 2 2 2 1 2 2	
	Histiocytosis			
	Plasmacytosis			
	Infiltration, Eosinophilic			
	germinal center; Increased Cellularity	2 2 2 2 2 2 2 2 2 2 2 2 2 2		
	LYMPH NODE, RENAL;			
	Histiocytosis			
	Plasmacytosis			
	macrophage; Pigmentation; brown			
	germinal center; Increased Cellularity	2 2 2 2 2 2 2 2 2 2 2 2 2 2		
	MAMMARY GLANDS;		N N N N N N N N N N N N N N N N	
	interstitium; Inflammation; mixed			
	interstitium; lymphatic; Inflammation; mixed	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
	SKELETAL MUSCLE;		N N N N N N N N N N N N N N N N	
	Infiltration; mixed			
	myofiber; Necrosis			
	NERVE, SCIATIC;		N N N N N N N N N N N N N N N N	
	perineural; Inflammation	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		

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Tabulated Animal Data

SEX: MALE	GROUP 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
	REMOVAL REASON T T T T T T T T T T T T
ANIMAL . . . . .	ANIMAL . . . . .
NUMBER 6 6 6 6 6 6 6 6 6 7 7 7 7 7	NUMBER 6 6 6 6 6 6 6 6 6 7 7 7 7 7
1 2 3 4 5 6 7 8 9 0 1 2 3 4 5	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5
OPTIC NERVE, LEFT; .....	N N N N N N N N N N N N N N N N
macrophage; Pigmentation; brown .....	..... . . . . . . . . . . . . . . . . . .
OPTIC NERVE, RIGHT; .....	N N N N N N N N N N N N N N N N +
Hemorrhage; acute .....	..... . . . . . . . . . . . . . . . . . .
macrophage; Pigmentation; brown .....	..... . . . . . . . . . . . . . . . . . .
macrophage; Infiltration; foamy .....	..... . . . . . . . . . . . . . . . . . .
PANCREAS; .....	N N N N N N N N N N N N N N N N
Infiltration, Lymphocytic .....	..... . . . . . . . . . . . . . . . . . .
acinar cell; Hyperplasia .....	..... . . . . . . . . . . . . . . . . . .
PARATHYROID, LEFT; .....	N X N X N N N N N X N X N N N
PARATHYROID, RIGHT; .....	N N N N N X N N X X N X N N N
PEYERS PATCHES; .....	+ + + X + + + + + + + + + + + X
Mineralization .....	..... . . . . 1 . . . . . . . . . . . .
Inflammation, Granulomatous; follicular .....	..... . . . . 2 . . . . . . . . . . . .
germinal center; Increased Cellularity .....	3 2 2 3 . 3 3 3 3 3 3 3 2 .
PITUITARY GLAND; .....	N N N N N N N N N N N N N N N N
pars distalis; Cyst .....	..... . . . . . . . . . . . . . . . . . .
pars intermedia; Cyst .....	..... . . . . . . . . . . . . . . . . . .
PROSTATE GLAND; .....	N + N + N N N N N + + N +
Infiltration; mixed .....	..... . . . . . . . . . . . . . . . . . .
Inflammation; purulent .....	..... . . . . . . . . . . . . . . . . . .
Infiltration, Lymphocytic .....	..... . . . . . . . . . . . . . . . . . .

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### Tabulated Animal Data

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 Tabulated Animal Data

SEX: MALE	GROUP 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
	REMOVAL REASON T T T T T T T T T T T T T T
TESTIS, LEFT; Spermatid Giant Cells	ANIMAL 6 6 6 6 6 6 6 6 6 7 7 7 7 7
Dilation; tubular	NUMBER 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5
TESTIS, RIGHT; Dilatation; tubular	
Infiltration; Lymphoplasmacytic	
Spermatocoele	
THYMUS; Hemorrhage; acute	N N N N + + + N N + + + N + N N
THYROID, LEFT; Cyst; keratinized	1 . . 1 1 1 . . 1 1 2 . 1 .
THYROID, RIGHT; Cyst; keratinized	N N N N N N N N N N N N N N N N
TONGUE; Infiltration, Lymphocytic	N N N N N N N N N N N N N N + N
Granuloma; hair	
TRACHEA; Infiltration; lymphohistiocytic	N N + N N N N + N N N N N
Infiltration; mixed	1 . . . . . . . . . . . . . . . .
Infiltration, Lymphocytic	
macrophage; Pigmentation; brown	

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Tabulated Animal Data

SEX: MALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
	Dilatation; vacuolar	4 4 4 4 4 4 4 4 4 4 4 4 4 4	9 9 9 9 9 9 9 9 0 0 0 0 0 0	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5
	Vacuolation; cortical	T T T T T T T T T T T T T T	· · · · · · · · · · · · · ·	· · · · · · · · · · · · · ·
	Infiltration, lymphocytic			
ADRENAL GLAND, RIGHT;	Dilatation; vacuolar	N N N N N N N N N N N N N N	· · · · · · · · · · · · · ·	· · · · · · · · · · · · · ·
	Vacuolation; cortical			
AORTA ABDOMINALIS;	· · · · · · · · · · · · · ·	N N N N N N N N N N N N N N	· · · · · · · · · · · · · ·	· · · · · · · · · · · · · ·
BONE, OS FEMORIS WITH JOINT;	surrounding tissue; Inflammation; mixed	N N N N N N N N N N N N N N	· · · · · · · · · · · · · ·	· · · · · · · · · · · · · ·
	surrounding tissue; Infiltration, Lymphocytic			
BONE MARROW, OS FEMORIS WITH JOINT;	Increased Cellularity	+ + + + + + + + + + + + + +	1 1 1 1 1 1 1 1 1 1 1 1 1	· · · · · · · · · · · · · ·
BONE, STERNUM;	surrounding tissue; muscle; Infiltration; mixed	N N N N N N N N N N N N N N	· · · · · · · · · · · · · ·	· · · · · · · · · · · · · ·
BRAIN, BRAIN STEM;	· · · · · · · · · · · · · ·	N N N N N N N N N N N N N N	· · · · · · · · · · · · · ·	· · · · · · · · · · · · · ·
BRAIN, CEREBELLUM;	· · · · · · · · · · · · · ·	N N N N N N N N N N N N N N	· · · · · · · · · · · · · ·	· · · · · · · · · · · · · ·
BRAIN, CEREBRUM;	· · · · · · · · · · · · · ·	N N N N N N N N N N N N N N	· · · · · · · · · · · · · ·	· · · · · · · · · · · · · ·
EPIDIDYMIS, LEFT;	Infiltration, lymphocytic	N N N + N + N + N + N +	· · · · 1 . 1 1 . . 1 1 1 . 1	· · · · · · · · · · · · · ·

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Tabulated Animal Data

SEX: MALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
EPIDIDYMIS, RIGHT; Infiltration, lymphocytic .	T	4	9 9 9 9 9 9 9 9 0 0 0 0 0 0	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5
Infiltration; mixed .	T	4	1 1 1 1 1 1	.
Oligospermia .	T	4	1 1 1 1 1 1	.
ESOPHAGUS; .....	N	4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N
EYE, LEFT; .....	N	4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N
EYE, RIGHT; .....	N	4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N
HARDERIAN GLAND, LEFT; Infiltration, lymphocytic .	T	4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N
Infiltration; lymphohistiocytic .	N	4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N
HARDERIAN GLAND, RIGHT; Infiltration, lymphocytic .	T	4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N
Necrosis .....	N	4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N
Infiltration; lymphohistiocytic .....	N	4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N
Infiltration; mixed .....	N	4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N
Inflammation, Chronic .....	N	4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N
HEART; .....	N	4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N
Infiltration; lymphohistiocytic .....	N	4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N
Infiltration; mixed .....	N	4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N
Infiltration, Lymphocytic .....	N	4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N
INFECTION SITE I; .....	+ + + + + + + + + + + + + + + +	4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.
Hemorrhage .....	+	4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.
Inflammation; lymphohistiocytic .....	+	4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.
Hyperkeratosis; epidermal .....	+	4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.

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#### Tabulated Animal Data

SEX : MALE	GROUP 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	REMOVAL REASON T T T T T T T T T T T T T T T T
	ANIMAL . . . . . 1 1 1 1 1 1
	NUMBER 9 9 9 9 9 9 9 9 9 0 0 0 0 0 0 0 0
	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5
INJECTION SITE I; (Continued)	
Hyperplasia; epidermal .....	3 3 2 2 2 2 . 2 3 3 . . . . .
Scab; epidermal .....	. . . . .
myofiber; Necrosis .....	. . . . .
muscle; Degeneration .....	2 2 2 2 2 2 . 2 2 1 . . . . .
dermis; subcutis; Necrosis .....	. . . . .
subcutis; Hemorrhage .....	. . . . .
subcutis; Inflammation; mixed .....	4 . . . . .
subcutis; Edema .....	3 3 3 3 2 3 4 . . . . .
intramuscular / interstitial; Fibrosis .....	3 3 3 2 2 2 . 2 4 3 . . . . .
intramuscular / interstitial; Inflammation;	2 2 2 2 2 2 . 2 2 2 2 . 1 1 1 1
lymphohistiocytic .....	. . . . .
intramuscular / interstitial; Inflammation;	. . . . .
mixed .....	. . . . .
intramuscular / interstitial; Edema .....	3 3 3 3 3 2 3 3 3 . . . . .
inter- / perimuscular; Fibrosis .....	2 1 1 2 2 2 . . 2 2 . . . . .
inter- / perimuscular; Inflammation; lymphocytic .....	2 2 2 2 2 2 . 2 2 2 2 2 2 2 2 2
inter- / perimuscular; Inflammation; mixed .....	4 . . . . .
inter- / perimuscular; Inflammation;	4 3 4 3 3 3 2 3 4 3 . . . . .
lymphohistiocytic .....	. . . . .
inter- / perimuscular; Mineralization .....	. . . . .
inter- / perimuscular; Edema .....	3 3 3 2 2 3 . # 4 3 . . . . .
Macrophages .....	. . . . .
epidermis; Ulceration .....	. . . . .
perivascular; Inflammation; plasmacytic .....	3 . . . . .
INJECTION SITE II;	
Hyperplasia; epidermal .....	. . . . .
Scab; epidermal .....	. . . . .
ulceration; epidermal .....	. . . . .

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Tabulated Animal Data

SEX: MALE	GROUP 4	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	REMOVAL REASON	T T T T T T T T T T T T T T T T
	ANIMAL	· · · · · · · 1 1 1 1 1 1
	NUMBER	9 9 9 9 9 9 9 9 0 0 0 0 0 0 0 0
		1 2 3 4 5 6 7 8 9 0 1 2 3 4 5
INTESTINE, DUODENUM;	.....	N N N N N N N N N N N N N N N N
INTESTINE, ILEUM;	.....	N N N N N N N N N N N N N N N N
INTESTINE, JEJUNUM;	.....	N N N N N N N N N N N N N N N N
INTESTINE, RECTUM;	.....	N N N N N + N N N N N N N N N N
Infiltration, Eosinophilic increased.	.....	..... 1 .. 2 .. . . . . . . . . . .
mucosa-associated lymphoid tissue; Hyperplasia ..	.....	..... . . . . . . . . . . . . . . . .
KIDNEY, LEFT;	.....	+ + + + + + + + + + + + + + + + + +
Congestion .....	.....	2 2 3 2 2 3 3 3 3 3 3 3 3 3 3 3
Infiltration, Lymphocytic .....	.....	1 .. . . . . . . . . . . . . . . . .
Mineralization .....	.....	..... 1 .. 1 .. 1 .. 1 ..
Inflammation, Chronic; interstitial .....	.....	..... . . . . . . . . . . . . . . . .
tubule; Basophilia .....	.....	..... 1 .. . . . . . . . . . . . . . .
tubule; cast; hyaline .....	.....	..... . . . . . . . . . . . . . . . .
KIDNEY, RIGHT;	.....	+ + + + + + + + + + + + + + + + + +
Congestion .....	.....	2 2 3 2 2 3 3 3 3 3 3 3 3 3 3 3
Infiltration, Lymphocytic .....	.....	..... . . . . . . . . . . . . . . . .
Mineralization .....	.....	..... . . . . . . . . . . . . . . . .
Inflammation, Chronic; interstitial .....	.....	..... . . . . . . . . . . . . . . . .
tubule; Basophilia .....	.....	..... 1 .. . . . . . . . . . . . . . .
tubule; cast; hyaline .....	.....	..... . . . . . . . . . . . . . . . .
tubule; dilation .....	.....	..... . . . . . . . . . . . . . . . .
subcapsular; Infiltration, Neutrophilic .....	.....	..... . . . . . . . . . . . . . . . .
LAGRIMAL GLAND, LEFT;	.....	N N N N N N N N N N N N N N N N

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Tabulated Animal Data

SEX: MALE	GROUP 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	REMOVAL REASON T T T T T T T T T T T T T T T T
ANIMAL . . . . .	. . . . .	1 1 1 1 1 1 1
NUMBER 9 9 9 9 9 9 9 9 9 0 0 0 0 0 0	0 0 0 0 0 0 0 0	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5
LACRIMAL GLAND, RIGHT; .....	.....	N N N N N N N N N N N N N N N N
LIVER; .....	.....	++ + + + + + + + + + + + + + + + + + + +
Congestion .....	.....	2 2 3 2 3 3 3 3 2 3 3 3 3 3 3 3
Hematopoiesis; extramedullary .....	.....	.. . . . 1 1 1 . . . . .
Infiltration; mixed .....	.....	.. . . . . . . . .
Necrosis .....	.....	2 . . . . . . . . .
Infiltration, Neutrophilic .....	.....	2 . . . . . . . . .
Infiltration, Lymphocytic .....	.....	1 . 1 . . . . .
Vacuolation; hepatocellular .....	.....	2 . . . . . . . .
Infiltration, Eosinophilic .....	.....	1 . . . . . . . .
periporal; Vacuolation; hepatocellular .....	.....	.. . . . . . . .
Kupffer cell; Pigmentation; brown .....	.....	.. . . . . . . .
LUNGS WITH BRONCHI; .....	.....	+ N + + + N + + + + + + + + + + + + +
Ossification .....	.....	1 . . . . . . . . .
Hemorrhage; acute .....	.....	1 1 1 . . . . .
Infiltration; lymphohistiocytic .....	.....	.. . . . 2 . . . .
Infiltration; mixed .....	.....	.. . . . . . . .
bronchial-associated lymphoid tissue;	.....	.. . . . . . . .
Hyperplasia .....	.....	1 . 1 1 . 1 1 2 1 . 1
perivascular; Infiltration, Eosinophilic .....	.....	.. . . . 2 . . . .
macrophage; alveolar; Infiltration .....	.....	.. . . . . . . .
macrophage; Pigmentation; brown .....	.....	.. . . . . . . .
LYMPH NODE, CERVICAL; .....	.....	+ + + + + + + + + + + + + + + + + + +
Histiocytosis .....	.....	1 1 1 1 1 1 2 1 2 1 2 . . 1 2
Hemorrhage .....	.....	.. . . . . . . .
Plasmacytosis .....	.....	.. . . . . . . .
germinal center; Increased Cellularity .....	.....	1 1 1 1 2 1 1 1 2 2 2 2 2

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Tabulated Animal Data

SEX: MALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
Histiocytosis .....	T T T T T T T T T T T T	4 4 4 4 4 4 4 4 4 4 4 4	9 9 9 9 9 9 9 9 0 0 0 0 0	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5
Plasmacytosis .....	.....	1 2 1 2 2 2 2 2 1 · 1 1 1 2 2	3 2 2 . 3 3 3 3 3 1 . 1	.....
Infiltration, Eosinophilic	.....	.....	.....	.....
Inflammation .....	.....	.....	.....	.....
Infiltration; macrophage	.....	.....	.....	.....
germinal center; Increased Cellularity .....	.....	2 2 2 1 2 2 2 2 2 2 1 3 1 1	.....	.....
LYMPH NODE, ILLIAC;	.....	.....	.....	.....
Histiocytosis .....	.....	1 · .. · .. · .. · .. · ..	2 2 3 2 2 3 2 2 1 2 2 2	.....
Plasmacytosis .....	.....	.....	.....	.....
Infiltration, Eosinophilic	.....	.....	.....	.....
germinal center; Increased Cellularity .....	.....	2 2 2 2 2 2 1 2 2 2 2 2	.....	.....
LYMPH NODE, MESENTERIC;	.....	.....	.....	.....
Erythrophagocytosis	.....	1 · .. · .. · .. · ..	.....	.....
Histiocytosis .....	.....	.....	.....	.....
Plasmacytosis .....	.....	.....	.....	.....
Infiltration, Eosinophilic	.....	.....	.....	.....
germinal center; Increased Cellularity .....	.....	.....	.....	.....
LYMPH NODE, RENAL;	.....	.....	.....	.....
Histiocytosis .....	.....	.....	.....	.....
Plasmacytosis .....	.....	.....	.....	.....
macrophage; Pigmentation; brown	.....	.....	.....	.....
germinal center; Increased Cellularity .....	.....	.....	.....	.....
MAMMARY GLANDS;	.....	.....	.....	.....
interstitium; Inflammation; mixed	.....	.....	.....	.....
interstitium; lymphatic; Inflammation; mixed	.....	.....	.....	.....
SKELETAL MUSCLE;	.....	.....	.....	.....
Infiltration; mixed	.....	.....	.....	.....
myofiber; Necrosis .....	.....	.....	.....	.....
NERVE, SCIATIC;	.....	.....	.....	.....
perineural; Inflammation .....	.....	.....	.....	.....

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Tabulated Animal Data

SEX: MALE	GROUP 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	REMOVAL REASON T T T T T T T T T T T T T T
ANIMAL . . . . .	. . . . . 1 1 1 1 1 1
NUMBER 9 9 9 9 9 9 9 9 9 0 0 0 0 0 0	0 0 0 0 0 0 0 0
	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5
OPTIC NERVE, LEFT; macrophage; Pigmentation; brown	N N N N N N N N N N N N N N N N
OPTIC NERVE, RIGHT; Hemorrhage; acute	N N X N N N N N N N N N N +
macrophage; Pigmentation; brown	. . . . . . . . . . . . . . . .
macrophage; Infiltration; foamy	. . . . . . . . . . . . . . . .
PANCREAS; Infiltration, Lymphocytic	N N N N N N N N N N N N N N
acinar cell; Hyperplasia	. . . . . . . . . . . . . . . .
PARATHYROID, LEFT;	X X X X X X X X N N N N N N
PARATHYROID, RIGHT;	N N X X X N X N X N X X N X N N
PEYERS PATCHES; Mineralization	+ + + + + + + + + + + + + + +
Inflammation, Granulomatous; follicular	. . . . . 2 . . . . . . . . .
germinal center; Increased Cellularity	3 3 3 3 3 2 3 3 . 3 3 3 2 .
PITUITARY GLAND; pars distalis; Cyst	N N N N N N N N N N N N N N N N
pars intermedia; Oyst	. . . . . . . . . . . . . . . .
PROSTATE GLAND; Infiltration; mixed	N N + N N N + N N N + + +
Inflammation; purulent	. . . . . 2 . . . . . . . . .
Infiltration, Lymphocytic	. . . . . 2 1 2 1 . . . . .

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Tabulated Animal Data

SEX: MALE	REMOVAL REASON	GROUP 4	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
		ANIMAL	· · · · · · · · 1 1 1 1 1 1
		NUMBER	9 9 9 9 9 9 9 9 0 0 0 0 0 0 0 0
			1 2 3 4 5 6 7 8 9 0 1 2 3 4 5
SALIVARY GLANDS, MANDIBULAR;		N	N N N N N N N N N N N N N N N N
SALIVARY GLANDS, SUBLINGUAL;		N	N N N N N N N N N N N N N N N N
SALIVARY GLANDS, PAROTIS;	Infiltration, Lymphocytic	N	N N N N N N N N N N N N N N N N
SEMINAL VESICLES;	Infiltration, Lymphocytic	N	N N N N N N N N N N N N N N N N
SKIN; Necrosis; muscular	surrounding tissue; fat; Infiltration; mixed	N	N N N N N N N N N N N N N N N N
SPINAL CORD;		N	N N N N N N N N N N N N N N N N
SPILEN; Congestion		+ + + + N + + + + + + N + + N	
Hematopoiesis; increased		1 1 1 1 . 1 1 1 1 . 1 1 . . . . .	
STOMACH, GLANDULAR; Infiltration, Eosinophilic		+ + + + + + + + + + N + N + +	
Infiltration, Lymphocytic		2 2 1 2 2 1 2 2 . 1 . 1 2 . . .	
Dilation; glandular		. . . . . 2 . . . . .	
Cyst		. . . . . 1 . . . . .	
Infiltration; mixed	mucosa-associated lymphoid tissue; Hyperplasia	. . . . . . . . . . . . . . . . .	
mucosa; Infiltration, Neutrophilic		. . . . . . . . . . . . . . . . .	

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Tabulated Animal Data

SEX: MALE	GROUP 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	REMOVAL REASON T T T T T T T T T T T T T T
TESTIS, LEFT; Spermatid Giant Cells	ANIMAL . . . . . 1 1 1 1 1 1
Dilation; tubular	NUMBER 9 9 9 9 9 9 9 0 0 0 0 0 0
	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5
TESTIS, RIGHT; Dilatation; tubular	N N N N N N N N N N + N N
Infiltration; Lymphoplasmacytic	. . . . . 2 . . . . .
Spermatocoele	. . . . . 3 . . . . .
THYMUS; Hemorrhage; acute	+ N N + N + + N N + N N + N N N
	1 . . 1 1 . . 2 . . 1 .
THYROID, LEFT; Cyst; keratinized	N N X N N N N N N N N N N N N
	. . . . . . . . . . . .
THYROID, RIGHT; Cyst; keratinized	N N N N N N N N N N N N N N
	. . . . . . . . . . . .
TONGUE; Infiltration, Lymphocytic	N N N N N N N N N N N N N N
Granuloma; hair	. . . . . . . . . . . .
TRACHEA; Infiltration; lymphohistiocytic	N N N N + N N N + + N N N N
Infiltration; mixed	. . . . . . . . . . . .
Infiltration, Lymphocytic	. . . . . 1 . . . 1 . . .
macrophage; Pigmentation; brown	. . . . . 1 . . . 1 . . .

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Tabulated Animal Data

SEX: MALE  
 GROUP 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4  
 REMOVAL REASON T T T T T T T T T T T T T T  
 ANIMAL . . . . . 1 1 1 1 1 1  
 NUMBER 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9  
 1 2 3 4 5 6 7 8 9 0 1 2 3 3 4 5

URINARY BLADDER; ..... N + N N X N N N N N N

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Tabulated Animal Data

SEX: MALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
ADRENAL GLAND, LEFT; Dilatation; vacuolar . . . . .	T T T T T T T T T T T T	5 5 5 5 5 5 5 5 5 5 5 5	N + N N N N N N N N N N + N +	
Vacuolation; cortical . . . . .		1 . . . . .	1 . . . . .	1 . . . . .
Infiltration, lymphocytic . . . . .		1 . . . . .	1 . . . . .	1 . . . . .
ADRENAL GLAND, RIGHT; Dilatation; vacuolar . . . . .	+ N N N N + N N N N N N + N	1 . . . . .	1 . . . . .	1 . . . . .
Vacuolation; cortical . . . . .		1 . . . . .	1 . . . . .	1 . . . . .
AORTA ABDOMINALIS; . . . . .	N N N N N N N N N N N N N N N N			
BONE, OS FEMORIS WITH JOINT; surrounding tissue; Inflammation; mixed . . . . .	+ N N N + N + N N + N N N N	3 . . . . .	2 . . . . .	2 . . . . .
surrounding tissue; Infiltration, Lymphocytic . . . . .		1 . . . . .	1 . . . . .	1 . . . . .
BONE MARROW, OS FEMORIS WITH JOINT; Increased Cellularity . . . . .	+ + + + + + + + + + N N N N	1 . . . . .	1 . . . . .	1 . . . . .
surrounding tissue; muscle; Infiltration; mixed . . . . .		1 . . . . .	2 . . . . .	2 . . . . .
BRAIN, BRAIN STEM; . . . . .	N N N N N N N N N N N N N N N N			
BRAIN, CEREBELLUM; . . . . .	N N N N N N N N N N N N N N N N			
BRAIN, CEREBRUM; . . . . .	N N N N N N N N N N N N N N N N			
EPIDIDYMIS, LEFT; Infiltration, lymphocytic . . . . .	N + + + + N + N N + + N + N	1 . . . . .	1 . . . . .	1 . . . . .

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Tabulated Animal Data

SEX: MALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
EPIDIDYMIS, RIGHT; Infiltration, lymphocytic .	T	5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Infiltration; mixed .	T	5	2 2 2 2 2 2 2 2 2 3 3 3 3 3	2 2 2 2 2 2 2 2 2 3 3 3 3 3
Oligospermia .	T	5	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5
ESOPHAGUS; .....	N	N	N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N
EYE, LEFT; .....	N	N	N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N
EYE, RIGHT; .....	N	N	N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N
HARDERIAN GLAND, LEFT; Infiltration, lymphocytic .	N	N	N N N + N N N N N N N N N N	N N N N N N N N N N N N N N N N
Infiltration; lymphohistiocytic .	N	N	N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N
Infiltration; lymphohistiocytic .....	N	N	N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N
HARDERIAN GLAND, RIGHT; Infiltration, lymphocytic .	+ N	N	N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N
Necrosis .....	1	1	1 .. . . . . . . . . . . . . . . .	1 .. . . . . . . . . . . . . . . . .
Infiltration; lymphohistiocytic .....	1	1	1 .. . . . . . . . . . . . . . . .	1 .. . . . . . . . . . . . . . . . .
Infiltration; mixed .....	1	1	1 .. . . . . . . . . . . . . . . .	1 .. . . . . . . . . . . . . . . . .
Inflammation, Chronic .....	1	1	1 .. . . . . . . . . . . . . . . .	1 .. . . . . . . . . . . . . . . . .
HEART; .....	N	N	N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N
Infiltration; lymphohistiocytic .....	N	N	N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N
Infiltration; mixed .....	N	N	N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N
Infiltration, Lymphocytic .....	N	N	N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N
INFECTION SITE I; .....	+	+	+ + + + + + + + + + + + + + + +	+ + + + + + + + + + + + + + + +
Hemorrhage .....	+	+	.. . . . . . . . . . . . . . . . .	.. . . . . . . . . . . . . . . . . .
Inflammation; lymphohistiocytic .....	+	+	.. . . . . . . . . . . . . . . . .	.. . . . . . . . . . . . . . . . . .
Hyperkeratosis; epidermal .....	+	+	.. . . . . . . . . . . . . . . . .	.. . . . . . . . . . . . . . . . . .

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**(b) (4)** Study No.: 38166 Repeat-Dose Toxicity Study

Tabulated Animal Data

SEX: MALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
	T	5	1	1
	T	5	1	2
	T	5	2	2
	T	5	2	3
	T	5	3	3
	T	5	3	4
	T	5	4	5
	T	5	5	6
	T	5	5	7
	T	5	5	8
	T	5	5	9
	T	5	5	0
	T	5	1	2
	T	5	2	3
	T	5	3	4
	T	5	4	5
	T	5	5	6
	T	5	5	7
	T	5	5	8
	T	5	5	9
	T	5	5	0
	T	5	1	1
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	T	5	5	6
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	T	5	5	9
	T	5	5	0
	T	5	1	1
	T	5	2	2

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Tabulated Animal Data

SEX: MALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
Hemorrhage		5 5 5 5 5 5 5 5 5 5 5 5 5 5		
Inflammation; lymphohistiocytic				
myofiber; mixed		2 2 2 2 2 2 2 2 2 2 2 2 2 2		
myofiber; Degeneration				
myofiber; Necrosis				
myofiber; Necrotic				
muscle; traumatic				
muscle; Regeneration				
subcutis; Edema		4 2 2 4 4 3 2 3 3 3 . . .		
subcutis; Fibrosis				
subcutis; Inflammation; mixed		3 3 2 3 3 3 3 3 3 . . .		
inter- / perimuscular; Edema		4 3 3 3 4 3 3 3 3 . . .		
inter- / perimuscular; Fibrosis		2 2 2 2 2 2 2 2 2 1 2 2 1		
inter- / perimuscular; Inflammation; mixed		3 3 3 3 3 3 3 3 3 . . .		
inter- / perimuscular; Inflammation;				
lymphohistiocytic				
intramuscular / interstitial; Edema		2 2 2 2 2 2 2 2 2 1 2 1 .		
intramuscular / interstitial; Fibrosis				
intramuscular / interstitial; Inflammation;				
lymphohistiocytic				
intramuscular / interstitial; Inflammation;				
mixed		2 3 2 3 3 2 2 2 3 3 . . .		
dermis; subcutis; Necrosis				
INTESTINE, CECUM;		+ + N N + N N N N N N N N		
Infiltration, Eosinophilic increased		1 1 . . 1 . . . . .		
mucosa-associated lymphoid tissue; Hyperplasia		. . . . .		
INTESTINE, COLON;		+ + N N + N N N N N N + N N +		
Infiltration, Eosinophilic increased		1 1 . . 1 . . . . .		
mucosa-associated lymphoid tissue; Hyperplasia		2 . . . . . 2 . . . . . 2 . . . . .		

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Study No.: 38166 Repeat-Dose Toxicity Study

Tabulated Animal Data

SEX: MALE	GROUP 5	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
	REMOVAL REASON	T T T T T T T T T T T T T T T T
	ANIMAL	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	NUMBER	2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3
		1 2 3 4 5 6 7 8 9 0 1 2 3 4 5
INTESTINE, DUODENUM;	.....	N N N N N N N N N N N N N N N N
INTESTINE, ILEUM;	.....	N N N N N N N N N N N N N N N N
INTESTINE, JEJUNUM;	.....	N N N N N N N N N N N N N N N N
INTESTINE, RECTUM;	.....	+ + N N N + N N + N N + + N N
Infiltration, Eosinophilic increased .....	1 1 .. 1 .. .. .. .. .. .. .. .. ..	..
mucosa-associated lymphoid tissue; Hyperplasia ..	.. .. .. .. .. .. .. .. .. .. .. .. ..	..
KIDNEY, LEFT;	.....	+ + + + + + + + + + + + + + + +
Congestion .....	2 2 3 3 2 3 3 3 3 3 3 3 3 3 3	..
Infiltration, Lymphocytic .....	.. .. .. .. .. .. .. .. .. .. .. ..	..
Mineralization .....	.. .. .. .. .. .. .. .. .. .. .. ..	..
Inflammation, Chronic; interstitial .....	.. .. .. .. .. .. .. .. .. .. .. ..	..
tubule; Basophilia .....	1 .. .. .. .. .. .. .. .. .. .. ..	..
tubule; cast; hyaline .....	1 .. .. .. .. .. .. .. .. .. .. ..	..
KIDNEY, RIGHT;	.....	+ + + + + + + + + + + + + + + +
Congestion .....	2 2 3 3 2 3 3 3 2 3 3 3 3 3 3	..
Infiltration, Lymphocytic .....	.. .. 1 .. .. .. .. .. .. .. .. ..	..
Mineralization .....	.. .. .. .. .. .. .. .. .. .. .. ..	..
Inflammation, Chronic; interstitial .....	.. .. .. .. .. .. .. .. .. .. .. ..	..
tubule; Basophilia .....	1 .. .. .. .. .. .. .. .. .. .. ..	..
tubule; cast; hyaline .....	.. .. .. .. .. .. .. .. .. .. .. ..	..
tubule; dilation .....	.. .. .. .. .. .. .. .. .. .. .. ..	..
subcapsular; Infiltration, Neutrophilic .....	1 .. .. .. .. .. .. .. .. .. .. ..	..
LAGRIMAL GLAND, LEFT;	.....	N N N N N N N N N N N N N N N N

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## Tabulated Animal Data

SEX: MALE	LACRIMAL GLAND, RIGHT; .....	N N N N N N N N N N N N N N N N
	REMOVAL REASON T T T T T T T T T T T T T T T T	GROUP 5
	ANIMAL 1	
	NUMBER 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3	
	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5	
LIVER; .....	+	+
Congestion .....	+	+
Hematopoiesis; extramedullary .....	+	3 3 3 3 2 2 3 2 3 3 3 3 3 3
Infiltration; mixed .....	.....	.....
Necrosis .....	.....	.....
Infiltration; Neutrophilic .....	.....	.....
Infiltration; Lymphocytic .....	.....	.....
Vacuolation; hepatocellular .....	.....	.....
Infiltration; Eosinophilic .....	.....	.....
periportal; Vacuolation; hepatocellular .....	.....	.....
kupffer cell; Pigmentation; brown .....	.....	.....
LUNGS WITH BRONCHI; .....	.....	N N + + + + N + N + + + N
Ossification .....	.....	.....
Hemorrhage; acute .....	.....	.....
Infiltration; lymphohistiocytic .....	.....	.....
bronchial-associated lymphoid tissue; .....	.....	.....
Infiltration; mixed .....	.....	.....
Hyperplasia .....	.....	.....
perivascular; Infiltration; Eosinophilic .....	.....	.....
macrophage; alveolus; Infiltration .....	.....	.....
macrophage; Pigmentation; brown .....	.....	.....
LYMPH NODE, CERVICAL; .....	+	+
Histiocytosis .....	+	+
Hemorrhage .....	2 1 1 1 2 2 2 1 1 2 1	1 2 1 1 2 2 2 1 1 2 1
Plasmacytosis .....	.....	.....
germinal center; Increased Cellularity .....	.....	2 1 2 2 2 1 2 2 2 1 2 1 2 1

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Tabulated Animal Data

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Tabulated Animal Data

SEX: MALE	REMOVAL REASON	GROUP 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
		T T T T T T T T T T T T T T T T
	ANIMAL	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	NUMBER	2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3
		1 2 3 4 5 6 7 8 9 0 1 2 3 4 5
OPTIC NERVE, LEFT; macrophage; Pigmentation; brown		N N N N N N N N N N N N N N N N
OPTIC NERVE, RIGHT; Hemorrhage; acute		N N N N N N N N N N N N N N N N
macrophage; Pigmentation; brown		.
macrophage; Infiltration; foamy		.
PANCREAS; Infiltration, Lymphocytic		+ N N N N N N N N N N N N N N N N
acinar cell; Hyperplasia		1 .. . . . . . . . . . . . . . .
PARATHYROID, LEFT;		N N X N N N N N N N N N N
PARATHYROID, RIGHT;		N N X N N N N X N X N N N N X
PEYERS PATCHES; Mineralization		+ + + + + N + + + + + + + + +
Inflammation, Granulomatous		.
germinal center; Increased Cellularity		3 3 3 2 3 3 . 3 3 3 3 3 3 3
PITUITARY GLAND; pars distalis; Cyst		N N N N N N N N N N N N N N N N
pars intermedia; Cyst		.
PROSTATE GLAND; Infiltration; mixed		N N N N N + N X N N N + N N
Infiltration; purulent		.
Infiltration; Lymphocytic		1 .. . . . . . . . . . . . . .

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Tabulated Animal Data

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Tabulated Animal Data

SEX: MALE	REMOVAL REASON	GROUP 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
TESTIS, LEFT;	Spermatid Giant Cells	N N
Dilation; tubular		N N
TESTIS, RIGHT;	Dilation; tubular	N N
Infiltration; Lymphoplasmacytic		N N
Spermatocoele		N N
THYMUS;	Hemorrhage; acute	+ + N N + + N N N N + N N + N N + N N +
THYROID, LEFT;	Cyst; keratinized	1 2 . . 2 1 . . . . 1 . . 1
TONGUE;	Infiltration, Lymphocytic	N N
TRACHEA;	Granuloma; hair	N N
		+ N N N N + N N N N N N N N N N N N N N N
		Infiltration; lymphohistiocytic
		Infiltration; mixed
		Infiltration; Lymphocytic
		macrophage; Pigmentation; brown

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Study No.: 38166 Repeat-Dose Toxicity Study

Tabulated Animal Data

SEX: MALE	GROUP	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
REMOVAL REASON	T T T T T T T T T T T T T T T T	
ANIMAL	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
NUMBER	2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3	
	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5	

URINARY BLADDER; Infiltration, lymphocytic . . . . .	N N N N N N N N N N N N N N N N . . . . .

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Tabulated Animal Data

SEX: MALE	REMOVAL REASON	GROUP	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
	Dilatation; vacuolar	.	.. .
	Vacuolation; cortical	1	1 .
	Infiltration, lymphocytic	.	.. .
ADRENAL GLAND, RIGHT;	Dilatation; vacuolar	N N N N N N N N N N + N N N N N N N N	+ .
	Vacuolation; cortical	.	.. .
AORTA ABDOMINALIS;	.....	N N N N N N N N N N N N N N N N N N N N	.....
BONE, OS FEMORIS WITH JOINT; surrounding tissue; Inflammation; mixed	.....	N N N N N N N N N N N N N N N N N N N N	.....
	surrounding tissue; Infiltration, Lymphocytic	.	.. .
BONE MARROW, OS FEMORIS WITH JOINT; Increased Cellularity	.....	+ + + + + + + + + + N N N N N N N N	.....
BONE, STERNUM; .....	surrounding tissue; muscle; Infiltration; mixed	1 1	.....
BRAIN, BRAIN STEM; .....	.....	N N N N N N N N N N N N N N N N N N N N	.....
BRAIN, CEREBELLUM; .....	.....	N N N N N N N N N N N N N N N N N N N N	.....
BRAIN, CEREBRUM; .....	.....	N N N N N N N N N N N N N N N N N N N N	.....
EPIDIDYMIS, LEFT; .....	Infiltration, lymphocytic	N N + + + + + + + + + + + + + + + + + +	.....
	.....	.. 1	.....

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SEX: MALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
EPIDIDYMIS, RIGHT; Infiltration, lymphocytic .	N	6	1	1
Infiltration; mixed .	N	6	1	1
Oligospermia .	N	6	1	1
ESOPHAGUS; .....	N	5	5	5
EYE, LEFT; .....	N	5	5	5
EYE, RIGHT; .....	N	5	5	5
HARDERIAN GLAND, LEFT; Infiltration, lymphocytic .	N	5	5	5
Infiltration; lymphohistiocytic .	N	5	5	5
HARDERIAN GLAND, RIGHT; Infiltration, lymphocytic .	+ N	5	5	5
Necrosis .....	+	5	5	5
Infiltration; lymphohistiocytic .....	1	5	5	5
Infiltration; mixed .....	1	5	5	5
Inflammation, Chronic .....	1	5	5	5
HEART; .....	N	5	5	5
Infiltration; lymphohistiocytic .....	1	5	5	5
Infiltration; mixed .....	1	5	5	5
Infiltration, lymphocytic .....	1	5	5	5
INJECTION SITE I; .....	+ + +	5	5	5
Hemorrhage .....	+	5	5	5
Inflammation; lymphohistiocytic .....	1	5	5	5
Hyperkeratosis; epidermal .....	1	5	5	5

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SEX: MALE	REMOVAL REASON	GROUP
	T T T T T T T T T T T T	6 6 6 6 6 6 6 6 6 6 6 6
		ANIMAL 1 1 1 1 1 1 1 1 1 1 1 1
		NUMBER 5 5 5 5 5 5 5 6 6 6 6 6
		1 2 3 4 5 6 7 8 9 0 1 2 3 4 5

## INJECTION SITE I; (Continued)

Hyperplasia; epidermal ..... 3 3 3 3 . 3 3 3 3 3 . . . . .  
 Scab; epidermal ..... 2 . . . . .  
 myofiber; Necrosis ..... 1 . . . . .  
 myofiber; Degeneration ..... 2 2 . 3 . 2 2 2 2 2 . . . . .  
 muscle; Regeneration ..... . . . . .  
 dermis; subcutis; Necrosis ..... . . . . .  
 subcutis; Hemorrhage ..... . . . . .  
 subcutis; Inflammation; mixed ..... 3 3 3 . 3 3 3 3 . . . . .  
 subcutis; Edema ..... 3 3 3 4 . 3 4 3 4 3 . . . . .  
 intramuscular / interstitial; Fibrosis ..... 2 2 2 . 2 2 3 2 2 . . . . .  
 intramuscular / interstitial; Inflammation;  
 lymphohistiocytic ..... . . . . .  
 intramuscular / interstitial; Inflammation;  
 mixed ..... . . . . .  
 intramuscular / interstitial; Edema ..... 3 2 2 3 . 3 3 3 2 2 . . . . .  
 inter- / perimuscular; Fibrosis ..... 2 2 2 2 . 1 2 2 2 2 . . . . .  
 inter- / perimuscular; Inflammation; lymphocytic ..... 2 2 2 2 . 2 2 3 2 1 . . . . .  
 inter- / perimuscular; Inflammation; mixed ..... 3 3 3 . 3 3 3 3 . . . . .  
 inter- / perimuscular; Inflammation; ..... 3 3 3 . 3 3 3 3 . . . . .  
 lymphohistiocytic ..... . . . . .  
 inter- / perimuscular; Mineralization ..... . . . . .  
 inter- / perimuscular; Edema ..... 3 3 3 # . 2 3 2 4 3 . . . . .  
 inter- / perimuscular; Multinucleated  
 Macrophages ..... . . . . .  
 epidermis; Ulceration ..... 2 . . . . .  
 perivascular; Inflammation; plasmacytic ..... . . . . .

## INJECTION SITE II; . . . . .

Hyperplasia; epidermal ..... . . . . .  
 Scab; epidermal ..... . . . . .  
 Ulceration; epidermal ..... . . . . .

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Tabulated Animal Data

SEX : MALE	GROUP	6	6	6	6	6	6	6	6	6	6	6	6
	REMOVAL REASON	T	T	T	T	T	T	T	T	T	T	T	T
Hemorrhage	ANIMAL	1	1	1	1	1	1	1	1	1	1	1	1
Inflammation; lymphohistiocytic	NUMBER	5	5	5	5	5	5	5	5	5	5	5	5
Inflammation; mixed myofiber; Degeneration		1	2	3	4	5	6	7	8	9	0	1	2
myofiber; Necrosis		3	4	5	6	7	8	9	0	1	2	3	4
myofiber; Necrosis; traumatic muscle; Regeneration		4	5	6	7	8	9	0	1	2	3	4	5
subcutis; Edema		5	6	7	8	9	0	1	2	3	4	5	6
subcutis; Fibrosis		6	7	8	9	0	1	2	3	4	5	6	7
subcutis; Inflammation; mixed inter- / perimuscular; Edema		7	8	9	0	1	2	3	4	5	6	7	8
inter- / perimuscular; Fibrosis		8	9	0	1	2	3	4	5	6	7	8	9
inter- / perimuscular; Inflammation; mixed		9	0	1	2	3	4	5	6	7	8	9	0
inter- / perimuscular; Inflammation;		0	1	2	3	4	5	6	7	8	9	0	1
lymphohistiocytic		1	2	3	4	5	6	7	8	9	0	1	2
intramuscular / interstitial; Edema		2	3	4	5	6	7	8	9	0	1	2	3
intramuscular / interstitial; Fibrosis		3	4	5	6	7	8	9	0	1	2	3	4
intramuscular / interstitial; Inflammation;		4	5	6	7	8	9	0	1	2	3	4	5
lymphohistiocytic		5	6	7	8	9	0	1	2	3	4	5	6
intramuscular / interstitial; Inflammation; mixed		6	7	8	9	0	1	2	3	4	5	6	7
dermis; subcutis; Necrosis		7	8	9	0	1	2	3	4	5	6	7	8
INTESTINE, CECUM;		8	9	0	1	2	3	4	5	6	7	8	9
Infiltation, Eosinophilic; increased		9	0	1	2	3	4	5	6	7	8	9	0
mucosa-associated lymphoid tissue; Hyperplasia		0	1	2	3	4	5	6	7	8	9	0	1
INTESTINE, COLON;		1	2	3	4	5	6	7	8	9	0	1	2
Infiltation, Eosinophilic; increased		2	3	4	5	6	7	8	9	0	1	2	3
mucosa-associated lymphoid tissue; Hyperplasia		3	4	5	6	7	8	9	0	1	2	3	4

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SEX: MALE	LACRIMAL GLAND, RIGHT;	.....	N N N N N N N N N N N N N N N N
	REMOVAL REASON	T T T T T T T T T T T T T T T T	
	ANIMAL	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	NUMBER	5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6	
		1 2 3 4 5 6 7 8 9 0 1 2 3 4 5	
	LIVER;	.....	+
	Congestion .....	.....	+
	Hematopoiesis; extramedullary .....	.....	+
	Infiltration; mixed .....	.....	+
	Necrosis .....	.....	+
	Infiltration; Neutrophilic .....	.....	+
	Infiltration; Lymphocytic .....	.....	+
	Vacuolation; hepatocellular .....	.....	+
	Infiltration; Eosinophilic .....	.....	+
	Infiltration; Vacuolation; hepatocellular .....	.....	+
	kupffer cell; Pigmentation; brown .....	.....	+
	LUNGS WITH BRONCHI;	.....	+
	Ossification .....	.....	+
	Hemorrhage; acute .....	.....	+
	Infiltration; lymphohistiocytic .....	.....	+
	Infiltration; mixed .....	.....	+
	bronchial-associated lymphoid tissue;	.....	+
	Hyperplasia .....	.....	+
	perivascular; Infiltration; Eosinophilic .....	.....	+
	macrophage; alveolar; Infiltration .....	.....	+
	macrophage; Pigmentation; brown .....	.....	+
	LYMPH NODE, CERVICAL;	.....	+
	Histiocytosis .....	.....	+
	Hemorrhage .....	.....	+
	Plasmacytosis .....	.....	+
	germinal center; Increased Cellularity .....	.....	+

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SEX: MALE	REMOVAL REASON	GROUP	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Histiocytosis	.....	1	2 2 2 2 2 1 2 2 1 2 . 2 1 1
Plasmacytosis	.....	1	. 1 1 1 . 2 . 3 . . . .
Infiltration, Eosinophilic	.....	1	. . . . . . . . . .
Inflammation	.....	1	. 3 . 2 3 1 . . . .
Infiltration; macrophage germinal center; Increased Cellularity	.....	2	2 2 . . . . . . . . 1 2 . 1 .
LYMPH NODE, ILLIAC;	.....	+	++ + + + + + + + + + + + + + + + + + + +
Histiocytosis	.....	1	2 2 2 2 2 1 2 2 1 2 . 2 1 1
Plasmacytosis	.....	1	. 1 1 1 . 2 . 3 . . . .
Infiltration, Eosinophilic	.....	1	. . . . . . . . . .
Infiltration; macrophage germinal center; Increased Cellularity	.....	2	2 2 . . . . . . . . 1 2 . 1 .
LYMPH NODE, MESENTERIC;	.....	+	++ + + + + + + + + + + + + + + + + + + +
Erythrophagocytosis	.....	1	. . . . . . . . . .
Histiocytosis	.....	3	2 2 2 2 2 2 2 2 2 2 1 1
Infiltration, Eosinophilic	.....	1	. . . . . . . . . .
germinal center; Increased Cellularity	.....	2	2 2 1 2 2 2 2 2 2 1 2 3 1 2
LYMPH NODE, RENAL;	.....	..	.. .. .. .. .. .. .. .. .. .. .. .. .. .. .. ..
Histiocytosis	.....	..	.. .. .. .. .. .. .. .. .. .. .. .. .. .. .. ..
Plasmacytosis	.....	..	.. .. .. .. .. .. .. .. .. .. .. .. .. .. .. ..
macrophage; Pigmentation; brown germinal center; Increased Cellularity	.....	..	.. .. .. .. .. .. .. .. .. .. .. .. .. .. .. ..
MAMMARY GLANDS;	.....	+ N	N N N N N + + N N N N N N N N N N N N N
interstitium; Inflammation; mixed	.....	3	2 . . . . 2 . . . . 3 . . . .
interstitium; lymphatic; Inflammation; mixed	.....	..	.. .. .. .. .. .. .. .. .. .. .. .. .. .. .. ..
SKELETAL MUSCLE;	.....	N	N N
Infiltration; mixed	.....	..	.. .. .. .. .. .. .. .. .. .. .. .. .. .. .. ..
myofiber; Necrosis	.....	..	.. .. .. .. .. .. .. .. .. .. .. .. .. .. .. ..
NERVE, SCIATIC;	.....	N	N N
perineurial; Inflammation	.....	..	.. .. .. .. .. .. .. .. .. .. .. .. .. .. .. ..

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SEX : MALE	GROUP 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
	REMOVAL REASON T T T T T T T T T T T T T T T T
	ANIMAL 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	NUMBER 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6
	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5

URINARY BLADDER; ..... N N N N N N N N N N N N N N N N  
Infiltration, Lymphocytic ..... . . . . .

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SEX: MALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
Hemorrhage		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		
Inflammation; lymphohistiocytic				
myofiber; mixed		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
myofiber; Degeneration				
myofiber; Necrosis				
myofiber; Necrotic				
muscle; traumatic				
muscle; Regeneration				
subcutis; Edema		4 3 3 4 3 4 3 3 #		
subcutis; Fibrosis		2		
subcutis; Inflammation; mixed		3 3 3 3 3 3 3 3		
inter- / perimuscular; Edema		4 4 3 3 4 3 4 2		
inter- / perimuscular; Fibrosis		2 2 2 2 2 2 2 2 1 2		
inter- / perimuscular; Inflammation; mixed		3 3 3 3 3 3 3 3 3		
inter- / perimuscular; Inflammation;				
lymphohistiocytic				
intramuscular / interstitial; Edema		2 2 2 2 2 2 2 2 1		
intramuscular / interstitial; Fibrosis		2 2 2 2 2 2 2 2 1 1		
intramuscular / interstitial; Inflammation;				
lymphohistiocytic				
intramuscular / interstitial; Inflammation;				
mixed		2 2 3 3 3 3 2 3 3 2		
dermis; subcutis; Necrosis				
INTESTINE, CECUM;		N N N N N N N N N N N N N N		
Infiltration, Eosinophilic increased				
mucosa-associated lymphoid tissue; Hyperplasia				
INTESTINE, COLON;		N N N N N N N N N N N N N N		
Infiltration, Eosinophilic increased				
mucosa-associated lymphoid tissue; Hyperplasia				

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SEX: MALE	REMOVAL REASON	GROUP	7	7	7	7	7	7	7	7	7	7	7	7	7	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	Congestion		+	+	+	+	+	+	+	+	+	+	+	+	+	3	3	3	3	3	3	2	2	3	3	3	3	3	3	
	Hematopoiesis; extramedullary															1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Infiltration; mixed																													
	Necrosis															1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
LACRIMAL GLAND, RIGHT;																														
LIVER,																														
	Congestion																													
	Hematopoiesis; extramedullary																													
	Infiltration; mixed																													
	Necrosis																													
	Infiltration, Neutrophilic																													
	Infiltration, Lymphocytic																													
	Vacuolation; hepatocellular																													
	Infiltration, Eosinophilic																													
	periorbital; vacuolation; hepatocellular																													
	Kupffer cell; pigmentation; brown																													
LUNGS WITH BRONCHI;																														
	Ossification																													
	Hemorrhage; acute																													
	Infiltration; lymphohistiocytic																													
	Infiltration; mixed																													
	bronchial-associated lymphoid tissue;																													
	Hyperplasia																													
	perivascular; infiltration; eosinophilic																													
	macrophage; alveolar; infiltration																													
	macrophage; pigmentation; brown																													
LYMPH NODE, CERVICAL;																														
	Histiocytosis																													
	Hemorrhage																													
	Plasmacytosis																													
	germinal center; increased cellularity																													
	2	2	2	3	3	1	3	.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	

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SEX: MALE	REMOVAL REASON	GROUP 7	7	7	7	7	7	7	7	7	7	7	7	7	7
		ANIMAL	1	1	1	1	1	1	1	1	1	1	1	1	1
		NUMBER	8	8	8	8	8	8	8	9	9	9	9	9	9
			1	2	3	4	5	6	7	8	9	0	1	2	3
SALIVARY GLANDS, MANDIBULAR;		N	N	N	N	N	N	N	N	N	N	N	N	N	N
SALIVARY GLANDS, SUBLINGUAL;		N	N	N	N	N	N	N	N	N	N	N	N	N	N
SALIVARY GLANDS, PAROTIS; Infiltration, Lymphocytic .		N	N	N	N	N	N	N	N	N	N	N	N	N	N
SEMINAL VESICLES; Infiltration, Lymphocytic .		N	N	N	N	N	N	N	N	N	N	N	N	N	N
SKIN; Necrosis; muscular .		N	N	N	N	N	N	N	N	N	N	N	N	N	N
Infiltration, Neutrophilic; muscular .		.	.	.	.	.	.	.	.	.	.	.	.	.	.
subcutaneous; Infiltration; mixed .		.	.	.	.	.	.	.	.	.	.	.	.	.	.
SPINAL CORD; .		N	N	N	N	N	N	N	N	N	N	N	N	N	N
SPILEN; Congestion .		N	N	+ N	+ N	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ +
Hematopoiesis; increased .		.	1	.	1	.	1	.	1	.	1	.	1	.	1
STOMACH, GLANDULAR; Infiltration, Eosinophilic .		+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration, Lymphocytic .		1	1	1	1	1	1	1	1	1	1	1	1	1	1
Dilation; glandular .		.	.	.	.	.	.	.	.	.	.	.	.	.	.
Cyst .		2	.	.	.	.	.	.	.	.	.	.	.	.	.
Infiltration; mixed .		.	.	.	.	.	.	.	.	.	.	.	.	.	.
mucosa-associated lymphoid tissue; Hyperplasia .		2	.	.	.	.	.	.	.	.	.	.	.	.	.
mucosa; Infiltration, Neutrophilic .		2	.	.	.	.	.	.	.	.	.	.	.	.	.

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SEX: MALE  
 GROUP 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7  
 REMOVAL REASON T T T T T T T T T T T T T T  
 ANIMAL 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  
 NUMBER 8 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9  
 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5

URINARY BLADDER; .....  
 Infiltration, Lymphocytic .....  
 N

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SEX: FEMALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
ADRENAL GLAND, LEFT; Dilation; vascular Hypertrophy; cortical	T T T T T T T T T T T T	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N N N N N N N N N N + N + +	
ADRENAL GLAND, RIGHT; Dilation; vascular Hypertrophy; cortical	T T T T T T T T T T T T	1 1 1 1 2 2 2 2 2 2 2 2 2 3	N N N N N + N N N + N N N N	
AORTA ABDOMINALIS;		6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	N N N N N N N N N N N N N N	
BONE, OS FEMORIS WITH JOINT; surrounding tissue; Inflammation; mixed surrounding tissue; infiltration; lymphohistiocytic			N N N N N N N N N N N N N N	
BONE MARROW, OS FEMORIS WITH JOINT; Increased Cellularity			N N N N N N N N N N N N N N	
BONE, STERNUM; surrounding tissue; muscle; Infiltration; mixed			N N N N N N N N N N N N N N	
BRAIN, BRAIN STEM;			N N N N N N N N N N N N N N	
BRAIN, CEREBELLUM;			N N N N N N N N N N N N N N	
BRAIN, CEREBRUM;			N N N N N N N N N N N N N N	
CERVIX; Keratinization; epithelial Cyst; keratinized			+ N + N N N N N N + N N N 2 . 2 . . . . . . . . . . . . . .	

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#### Tabulated Animal Data

SEX: FEMALE	GROUP 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
REMOVAL REASON	T T T T T T T T T T T T T T T T T T
ANIMAL	1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
NUMBER	1 1 1 2 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
INJECTION SITE II; (Continued)	
subcutis; Edema	.....
subcutis; Inflammation; mixed	.....
inter- / perimuscular; Edema	.....
inter- / perimuscular; Fibrosis	.....
inter- / perimuscular; Inflammation; mixed	.....
inter- / perimuscular; Inflammation;	.....
Lymphocytic	.....
intramuscular / interstitial; Edema	.....
intramuscular / interstitial; Fibrosis	.....
intramuscular / interstitial; Inflammation;	.....
Lymphocytic	.....
intramuscular / interstitial; Inflammation;	.....
mixed	.....
dermis; subcutis; Fibrosis	.....
INTESTINE, CECUM;	N N N N N N N N N N N N N N N N
Infiltration, Eosinophilic; increased	.....
mucosa-associated lymphoid tissue; Hyperplasia	.....
INTESTINE, COLON;	N N N N N N N N N N N N N N N N
Infiltration, Eosinophilic; increased	.....
mucosa-associated lymphoid tissue; Hyperplasia	.....
INTESTINE, DUODENUM;	N N N N N N N N N N N N N N N N
INTESTINE, ILEUM;	N N N N N N N N N N N N N N N N
INTESTINE, JEJUNUM.	N N N N N N N N N N N N N N N N

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SEX: FEMALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
	Infiltration, Eosinophilic; increased . . . . .	1 1	N N N N + N N N N + N + N N	
	Nematodiasis . . . . .	T T	. .	1 .
	mucosa-associated lymphoid tissue; Hyperplasia . . . . .	1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 3	1 .	
	KIDNEY, LEFT; . . . . .	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	
	Congestion . . . . .			
	Infiltration, Lymphocytic . . . . .			
	Mineralization . . . . .			
	Cyst; tubular . . . . .			
	Inflammation, Chronic; interstitial . . . . .			
	tubule; Basophilia . . . . .			
	tube; Cast; Hyaline . . . . .			
	tubule; Degeneration; hyaline . . . . .			
	KIDNEY, RIGHT; . . . . .			
	Congestion . . . . .			
	Infiltration, Lymphocytic . . . . .			
	Mineralization . . . . .			
	Pyelonephritis . . . . .			
	tubule; Basophilia . . . . .			
	tube; Cast; Hyaline . . . . .			
	pelvis; Inflammation; purulent . . . . .			
	LACRIMAL GLAND, LEFT; . . . . .			
	LACRIMAL GLAND, RIGHT; . . . . .			
	LIVER; . . . . .			
	Congestion . . . . .			
	Hematopoiesis; extramedullary . . . . .			

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Tabulated Animal Data

SEX: FEMALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
	Infiltration, lymphocytic periportal; vacuolation; hepatocellular	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	Ossification	N + N N N + N N N + N N N +		
	Hemorrhage; acute			
	Infiltration; mixed bronchial-associated lymphoid tissue;			
	Hyperplasia			
	perivascular; infiltration, Eosinophilic macrophage; aleveous; infiltration; foamy macrophage; Pigmentation; brown			
	LIVER; (Continued)			
	Infiltration; mixed			
	Infiltration, lymphocytic			
	periportal; vacuolation			
	LUNGS WITH BRONCHI;			
	Ossification			
	Hemorrhage; acute			
	Infiltration; mixed bronchial-associated lymphoid tissue;			
	Hyperplasia			
	perivascular; infiltration, Eosinophilic macrophage; aleveous; infiltration; foamy macrophage; Pigmentation; brown			
	LYMPH NODE, CERVICAL;			
	Histiocytosis			
	Erythropagocytosis			
	macrophage; Pigmentation; brown			
	germinal center; Increased Cellularity			
	LYMPH NODE, ILLIAC;			
	Histiocytosis			
	Plasmacytosis			
	Infiltration, Eosinophilic			
	Hemorrhage; acute			
	Inflammation			
	Infiltration; macrophage			
	germinal center; Increased Cellularity			

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Tabulated Animal Data

SEX: FEMALE	GROUP 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	REMOVAL REASON T T T T T T T T T T T T T T T T
ANIMAL . . . . .	NUMBER 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3
	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
LYMPH NODE, MESENTERIC; Erythrophagocytosis	+ + + + + + X + + + + + + + + + + + + + + +
Histiocytosis .....	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1 1 2 .
Infiltration; Eosinophilic .....	. . . . .
macrophage; Pigmentation .....	. . . . .
germinal center; Increased Cellularity .....	2 2
MAMMARY GLANDS; interstitium; Inflammation; mixed	N N
SKELETAL MUSCLE; Infiltration; lymphohistiocytic	N N N N N N + N N N N N N N N N N N N N N N
Infiltration; mixed .....	. . . . .
Infiltration; Lymphocytic .....	. . . . .
myofiber; Necrosis .....	. . . . .
NERVE, SCIATIC; .....	N N
Vasculature .....	. . . . .
perineural; Inflammation .....	. . . . .
OPTIC NERVE, LEFT; .....	N N
Hemorrhage; acute .....	. . . . .
macrophage; Pigmentation; brown	. . . . .
OPTIC NERVE, RIGHT; .....	N N
Hemorrhage; acute .....	. . . . .
macrophage; Pigmentation; brown	. . . . .
macrophage; Infiltration; foamy	. . . . .

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Tabulated Animal Data

SEX: FEMALE	REMOVAL REASON	GROUP 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	ANIMAL	T T T T T T T T T T T T T T T T T T T T
	NUMBER	1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3
		6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
OVARY, LEFT;	.....	N N
OVARY, RIGHT;	.....	N N
OVIDUCT, LEFT;	.....	N N
OVIDUCT, RIGHT;	.....	N N
PANCREAS;	.....	N N + N
Infiltration, Lymphocytic acinar cell; Atrophy	.....	.....
PARATHYROID, LEFT; Fibrosis; interstitial	.....	N N N N N N N N N N N N N N N N X
PARATHYROID, RIGHT;	.....	N N N X N N N N N N N N N X X
PEYERS PATCHES;	.....	+ + + + + + + + + + + + + + + + + + + +
Mineralization	.....	.....
Inflammation, Granulomatous; follicular germinal center; Increased Cellularity	.....	.....
PITUITARY GLAND;	.....	N N
pars distalis; Cyst pars intermedia; Cyst	.....	.....
SALIVARY GLANDS, MANDIBULAR;	.....	N N
SALIVARY GLANDS, SUBLINGUAL;	.....	N N N N N X N N N N N N N N N N N N N N N N

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SEX: FEMALE	REMOVAL REASON	GROUP
ADRENAL GLAND, LEFT; Dilatation; vascular	T T T T T T T T T T	2 2 2 2 2 2 2 2 2 2
Hypertrophy; cortical		+ N + N N N N N N N + N N N N
		1 . 1 . . . . . . . . . .
ADRENAL GLAND, RIGHT; Dilatation; vascular	N + N N N N N N N + N N N N	4 4 4 5 5 5 5 5 5 5 6
Hypertrophy; cortical	. 1 . . . . . . . . . .	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
AORTA ABDOMINALIS;	N N N N N N N N N N N N N N	
BONE, OS FEMORIS WITH JOINT; surrounding tissue; Inflammation; mixed	+ N N N N N N N N N N N N	
surrounding tissue; Infiltration; lymphohistiocytic	1 . . . . . . . . . . . .	
BONE MARROW, OS FEMORIS WITH JOINT; Increased Cellularity	+ + + + + + + + + + N N N N	
	1 1 1 1 1 1 1 1 1 1 . . . .	
BONE, STERNUM; surrounding tissue; muscle; Infiltration; mixed	N N N N N N N N N N N N N N	
BRAIN, BRAIN STEM;	N N N N N N N N N N N N N N	
BRAIN, CEREBELLUM;	N N N N N N N N N N N N N N	
BRAIN, CEREBRUM;	N N N N N N N N N N N N N N	
CERVIX; Keratinization; epithelial Cyst; keratinized	+ N N + + N N N N + N + + 2 . . 2 2 2 . . . . 1 . 2 2 . . . . . .	

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Tabulated Animal Data

SEX: FEMALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
	T T T T T T T T T T T T	2 2 2 2 2 2 2 2 2 2 2 2	4 4 4 5 5 5 5 5 5 5 5 6	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
ESOPHAGUS; .....	.....	N N N N N N N N N N N N N N	.....	.....
EYE, LEFT; .....	macrophage; Pigmentation; brown	N N N N N N N N N N N N N N	.....	.....
EYE, RIGHT; .....	.....	N N N N N N N N N N N N N N	.....	.....
HARDERIAN GLAND, LEFT; .....	Infiltration, Lymphocytic .....	+ N N N N + N N N + N N N N	1	.....
	Infiltration; lymphohistiocytic .....	.....	2	.....
	Infiltration; mixed .....	.....	.....	.....
	Inflammation; granulomatous	.....	.....	.....
	Inflammation; purulent .....	.....	.....	.....
	Inflammation, Chronic .....	.....	.....	.....
	macrophage; Pigmentation; brown	.....	.....	.....
HARDERIAN GLAND, RIGHT; .....	.....	N N N N N N N N N N N N + N N N	.....	.....
	Infiltration, Lymphocytic .....	.....	1	.....
	Infiltration; mixed .....	.....	.....	2
	Inflammation, Chronic .....	.....	.....	.....
HEART; .....	.....	N N N + N N N N N N N N N N	.....	.....
	Infiltration; lymphohistiocytic .....	.....	1	.....
	Infiltration; mixed .....	.....	.....	.....
	Infiltration, Lymphocytic .....	.....	1	.....
INFECTION SITE I; .....	.....	+ + + + + + + + + + + + + +	.....	.....
	Hemorrhage .....	.....	.....	.....
	Inflammation; granulomatous .....	.....	.....	.....
	Inflammation; lymphohistiocytic .....	.....	.....	.....
	Inflammation; mixed .....	.....	.....	.....
	Inflammation; vascular .....	.....	.....	.....

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SEX: FEMALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
	Foreign material; hair	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4 4 4 5 5 5 5 5 5 5 5 5 5 6	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
	Hyperplasia; epidermal	3 3 3 . 3 3 3 3 3		
	Scab; epidermal	. 2 . 1 .		
	Pustule; epidermal	. . . . .		
	myofiber; Necrosis	. . . . .		
	myofiber; Degeneration	2 2 2 2 2 2 2 2 . 2 .		
	dermis; subcutis; Inflammation;			
	Lymphohistiocytic			
	dermis; epidermis; Inflammation; neutrophilic	3 3 3 3 3 3 3 3 3		
	subcutis; Inflammation; mixed	3 3 3 3 3 3 3 3 3		
	subcutis; Edema	3 3 3 3 3 3 3 3 3		
	intramuscular / interstitial; Fibrosis	2 2 2 2 2 2 2 2 1 1 . 1		
	intramuscular / interstitial; Inflammation;			
	Lymphohistiocytic			
	intramuscular / interstitial; Inflammation;	2 2 2 2 2 3 2 2 2 3 .		
	mixed	2 1 1 2 1 1 1 1 1 .		
	intramuscular / interstitial; Edema	2 2 2 2 2 2 2 2 2 2 2 1		
	inter- / perimuscular; Fibrosis	3 3 3 3 3 3 3 3 3		
	inter- / perimuscular; Inflammation; mixed			
	inter- / perimuscular; Inflammation;			
	Lymphohistiocytic			
	inter- / perimuscular; Edema	3 3 3 2 3 3 3 3 3 3 .		
	epidermis; Ulceration	. . . . . 3 . . . .		
	INJECTION SITE II;			
	Hyperplasia; epidermal			+
	Inflammation; Lymphohistiocytic			
	Inflammation; mixed			
	myofiber; Degeneration			
	myofiber; Necrosis			
	muscle; Regeneration			

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Tabulated Animal Data

SEX: FEMALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
subcutis; Edema .....	T	2	4	4
subcutis; Inflammation; mixed .....	T	2	4	5
inter- / perimuscular; Edema .....	T	2	5	5
inter- / perimuscular; Fibrosis .....	T	2	5	5
inter- / perimuscular; Inflammation; mixed .....	T	2	5	6
inter- / perimuscular; Inflammation; lymphohistiocytic .....	T	2	6	7
intramuscular / interstitial; Edema .....	T	2	7	8
intramuscular / interstitial; Fibrosis .....	T	2	8	9
intramuscular / interstitial; Inflammation; lymphohistiocytic .....	T	2	9	0
intramuscular / interstitial; Inflammation; mixed .....	T	2	9	1
dermis; subcutis; Fibrosis .....	T	2	9	2
INTESTINE, CECUM; Eosinophilic; increased .....	N	N	N	N
Infiltration, Eosinophilic; increased .....	N	N	N	N
mucosa-associated lymphoid tissue; Hyperplasia .....	N	N	N	N
INTESTINE, COLON; Eosinophilic; increased .....	N	N	N	N
Infiltration, Eosinophilic; increased .....	N	N	N	N
mucosa-associated lymphoid tissue; Hyperplasia .....	N	N	N	N
INTESTINE, DUODENUM; .....	N	N	N	N
INTESTINE, ILEUM; .....	N	N	N	N
INTESTINE, JEJUNUM; .....	N	N	N	N

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Tabulated Animal Data

SEX: FEMALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
	Infiltration, Eosinophilic; increased . . . . .	2 2 2 2 2 2 2 2 2 2 2 2 2	N N N N N N + N + N N N N	
	Nematodiasis . . . . .	T T T T T T T T T T T T	. . . . .	
	mucosa-associated lymphoid tissue; Hyperplasia . . . . .	4 4 4 5 5 5 5 5 5 5 5 6	. . . . .	
		6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	. . . . .	
KIDNEY, LEFT; . . . . .		+ + + + + + + + + + + + + +		
Congestion . . . . .		3 3 2 3 3 2 2 3 2 3 3 3		
Infiltration, Lymphocytic . . . . .		. . . . .		
Mineralization . . . . .		1 . . . . .		
Cyst; tubular . . . . .		2 . . . . .		
Inflammation, Chronic; interstitial . . . . .		1 . . . . .		
tubule; Basophilia . . . . .		1 . . . . .		
tubule; Cast; Hyaline . . . . .		1 . . . . .		
tubule; Degeneration; hyaline . . . . .		1 . . . . .		
KIDNEY, RIGHT; . . . . .		+ + + + + + + + + + + + + +		
Congestion . . . . .		3 3 2 3 3 2 2 2 2 3 3 3 2 3		
Infiltration, Lymphocytic . . . . .		. . . . .		
Mineralization . . . . .		2 . . . . .		
Pyelonephritis . . . . .		1 . . . . .		
tubule; Basophilia . . . . .		1 . . . . .		
tubule; Cast; Hyaline . . . . .		1 . . . . .		
pelvis; Inflammation; purulent . . . . .		1 . . . . .		
LAGRINAL GLAND, LEFT; . . . . .		N N N N N N N N N N N N N N		
LAGRINAL GLAND, RIGHT; . . . . .		N N N N N N N N N N N N N N		
LIVER; . . . . .		+ + + + + + + + + + + + + +		
Congestion . . . . .		2 2 2 2 3 3 3 2 2 2 2 3 3 3		
Hematopoiesis; extramedullary . . . . .		. . . . . 1 1 1 . . . . .		

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SEX: FEMALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
	Infiltration, Lymphocytic periorbital; Vacuolation; hepatocellular	2 2 2 2 2 2 2 2 2 2 2 2 2 2	4 4 4 5 5 5 5 5 5 5 5 5 6	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
	Ossification	+ N + N N N + N N + + N +		
	Hemorrhage; acute	. . . . . 1 . . . . . 1 . . . . .		
	Infiltration; mixed bronchial-associated lymphoid tissue;	. . . . . . . . . . . . . . . . .		
	Hyperplasia	1 . 1 . . . . . 1 . . . . .		
	perivascular; infiltration, Eosinophilic macrophage; alveolar; Infiltration; foamy macrophage; Pigmentation; brown	. . . . . . . . . . . . . . . . .		
	LYMPH NODE, CERVICAL;	+ + + + + + + + + + + + + +		
	Histiocytosis	1 2 1 1 1 . 2 1 1 2 2 2 1 2 .		
	Erythrophagocytosis	. . . . . . . . . . . . . . . . .		
	macrophage; Pigmentation; brown	. . . . . . . . . . . . . . . . .		
	germinal center; Increased Cellularity	2 2 2 1 2 2 2 2 2 2 2 2 2 2 2		
	LYMPH NODE, ILLIAC;	+ + + + + + + + + + + + + +		
	Histiocytosis	2 2 . 1 1 1 1 1 1 1 1 1 2 1		
	Plasmacytosis	1 . . . . 2 . 1 . 2 1 1		
	Infiltration, Eosinophilic	. . . . . . . . . . . . . . . . .		
	Hemorrhage; acute	. . . . . . . . . . . . . . . . .		
	Inflammation	. . . 1 2 2 . 2 2 2 . . . . .		
	Infiltration; macrophage	. . . . . 1 1 1 . . . . . . . . .		
	germinal center; Increased Cellularity	. . 2 3 2 2 2 2 2 1 2 2 1 2 1		

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SEX: FEMALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
	T T T T T T T T T T T T	2 2 2 2 2 2 2 2 2 2 2 2	4 4 4 5 5 5 5 5 5 5 5 6	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
LYMPH NODE, MESENTERIC;	Erythrophagocytosis	+	+	+
Histiocytosis	.....	.....	3	1
Infiltration, Eosinophilic	.....	.....	2	2
macrophage; Pigmentation	.....	.....	2	2
germinal center; Increased Cellularity	.....	2	2	2
MAMMARY GLANDS;	.....	N	N	N
interstitium; Inflammation	mixed	.....	.....	.....
SKELETAL MUSCLE;	.....	N	N	N
Infiltration; lymphohistiocytic	.....	+ N	N	N
Infiltration; mixed	.....	.....	1	.....
Infiltration, Lymphocytic	.....	.....	.....	.....
myofiber; Necrosis	.....	.....	.....	.....
NERVE, SCIATIC;	.....	N	N	N
Vacuolation	.....	.....	.....	.....
perineural; Inflammation	.....	.....	.....	.....
OPTIC NERVE, LEFT;	.....	N	N	N
Hemorrhage; acute	.....	+ N	N	N
macrophage; Pigmentation	brown	2	1	.....
.....	.....	.....	.....	.....
OPTIC NERVE, RIGHT;	.....	N	N	N
Hemorrhage; acute	.....	2	.....	.....
macrophage; Pigmentation	brown	.....	.....	.....
macrophage; Infiltration	foamy	.....	.....	.....

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Tabulated Animal Data

SEX: FEMALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
OVARY, LEFT; .....	N	N	N	N
OVARY, RIGHT; .....	N	N	N	N
OVIDUCT, LEFT; .....	N	N	N	N
OVIDUCT, RIGHT; .....	N	N	N	N
PANCREAS; .....	N	N	N	N
Infiltration, Lymphocytic .	.	.	.	.
acinar cell; Atrophy .....	.	.	.	.
PARATHYROID, LEFT; .	N	N	N	N
Fibrosis; interstitial .....	+	N	N	N
PARATHYROID, RIGHT; .....	N	N	N	N
PEYERS PATCHES; .....	+ X	X	+	+
Mineralization .....	.	.	.	.
Inflammation, Granulomatous; follicular .	.	.	.	.
germinal center; Increased Cellularity .....	2	.	2	3
PITUITARY GLAND; .....	N +	N	N	N
pars distalis; Cyst .....	1	.	.	.
pars intermedia; Cyst .....	.	.	.	.
SALIVARY GLANDS, MANDIBULAR; .....	N	N	N	N
SALIVARY GLANDS, SUBLINGUAL; .....	N	N	N	N

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Tabulated Animal Data

SEX: FEMALE	REMOVAL REASON	GROUP 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
		T T T T T T T T T T T T T T T T
	ANIMAL	• • • • • • • • • • • • • • • •
	NUMBER	4 4 4 5 5 5 5 5 5 5 5 5 5 5 6
		6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
SALIVARY GLANDS, PAROTIS; .....	.....	N N N N N N N N N N N N N N N N
SKIN; .....dermis; subcutis; Infiltration; mixed .....	.....	N N N N N N N N N N N N N N N N
SPINAL CORD; .....	.....	N N N N N N N N N N N N N N N N
SPLAEN; .....	.....	+ + + + + + + + + + + + + + + +
Congestion .....	.....	1 1 2 2 1 1 2 1 1 . 1 1 . 2
Hematopoiesis; increased .....	.....	. . . . . . . . . . . . . . . .
STOMACH, GLANDULAR; .....	.....	+ + N N + + N + + + + + + + + +
Infiltration, Eosinophilic .....	.....	. 1 . 1 1 1 . 1 . 1 1 1 1
Infiltration, Lymphocytic .....	.....	. . . . . . . . . . . . . . . .
Dilation; glandular .....	1	. . . . . . . . . . . . . . . .
Cyst .....	.....	. . . . . . . . . . . . . . . .
chief cell; Hyperplasia .....	.....	. . . . . . . . . . . . . . . .
mucosa-associated lymphoid tissue; Hyperplasia .....	.....	. . . . . . . . . . . . . . . .
STOMACH, NONGLANDULAR; .....	.....	N N N N N N N N N N N N N N N N
THYMUS; .....	.....	+ + N + + N + + N + + N + +
Cyst .....	.....	. . . . . . . . . . . . . . . .
Hemorrhage; acute .....	1	1 1 2 . 2 2 . 1 1 1 . 1 . 1
THYROID, LEFT; .....	.....	N N + N N + N N N + N N N N
Cyst; keratinized .....	.....	. . 1 . 1 . . . . 1 . . . .
THYROID, RIGHT; .....	.....	N N N N N N N N + N N N N
Cyst; keratinized .....	.....	. . . . . 1 . . . . . . . .

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SEX: FEMALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
	T T T T T T T T T T T T	2 2 2 2 2 2 2 2 2 2 2 2	4 4 4 5 5 5 5 5 5 5 5 6	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
TONGUE;	.....	N N N N N N N N N N N N N N	.....	.....
Hemorrhage; acute .....	.....	.....	.....	.....
Infiltration, Lymphocytic .....	.....	.....	.....	.....
Granuloma .....	.....	.....	.....	.....
TRACHEA;	.....	N N N N N N N + N N N N + N	.....	.....
Infiltration; Lymphohistiocytic .....	.....	.....	.....	.....
Infiltration; mixed .....	.....	.....	.....	.....
Infiltration, Lymphocytic .....	.....	.....	.....	.....
URINARY BLADDER;	.....	N N N N N N N N N N N N	.....	.....
Infiltration, Lymphocytic .....	.....	.....	.....	.....
UTERUS;	.....	+ N N + + N N N N N N N N	.....	.....
Dilation .....	.....	2 . . . 2 2 . . . . . . .	.....	.....
VAGINA;	.....	+ N N + + + N N N N + N + +	.....	.....
Keratinization; epithelial .....	.....	2 . . 2 2 2 1 . . . 1 . 2 1	.....	.....

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Tabulated Animal Data

SEX: FEMALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
ADRENAL GLAND, LEFT;	Dilation; vascular	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	N N + N + N N N N N + +	
	Hypertrophy; cortical	T T T T T T T T T T T T T T	. . 1 . . . . . . . . . . .	1 1 1
ADRENAL GLAND, RIGHT;	Dilation; vascular	7 7 7 7 8 8 8 8 8 8 8 8 8 9	N N + N + N N N N N N N N	
	Hypertrophy; cortical	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	. . . . . . . . . . . . . .	
AORTA ABDOMINALIS;		N N N N N N N N N N N N N N		
BONE, OS FEMORIS WITH JOINT;	surrounding tissue; Inflammation; mixed	N N N + N N N N N N N N		
	surrounding tissue; Infiltration; lymphohistiocytic	. . . . . . . . . . . . . .		
BONE MARROW, OS FEMORIS WITH JOINT;	Increased Cellularity	+ + + + + + + + + + N N N N		
		1 1 1 1 1 1 1 1 1 1 . . . .		
BONE, STERNUM;	surrounding tissue; muscle; Infiltration; mixed	N N N N N N + N N N N N N		
		. . . . . . . . . . . . . .		
BRAIN, BRAIN STEM;		N N N N N N N N N N N N N N		
BRAIN, CEREBELLUM;		N N N N N N N N N N N N N N		
BRAIN, CEREBRUM;		N N N N N N N N N N N N N N		
CERVIX;	Keratinization; epithelial Cyst; keratinized	N N + N N + N + + N N N		
		. . . 2 . . . 2 . . . 2 . . .		

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Tabulated Animal Data

SEX: FEMALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
		3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	7 7 7 7 8 8 8 8 8 8 8 8 8 9	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
ESOPHAGUS; .....	.....	N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N	+ N + N N N N + N N N N N N N N
EYE, LEFT; .....	macrophage; Pigmentation; brown .....	N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N	.....
EYE, RIGHT; .....	.....	N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N	.....
HARDERIAN GLAND, LEFT; .....	Infiltration, Lymphocytic .....	.....	.....	.....
	Infiltration; lymphohistiocytic .....	.....	1	.....
	Infiltration; mixed .....	.....	1	2
	Inflammation; granulomatous .....	.....	.....	.....
	Inflammation; purulent .....	.....	.....	.....
	Inflammation, Chronic .....	2	.....	.....
	macrophage; Pigmentation; brown .....	.....	.....	.....
HARDERIAN GLAND, RIGHT; .....	Infiltration, Lymphocytic .....	N N N N N N N N + N + N N N N	N N N N N N N N + N + N N N N	.....
	Infiltration; mixed .....	.....	.....	.....
	Inflammation, Chronic .....	.....	1	1
HEART; .....	Infiltration; lymphohistiocytic .....	N N N + N N N N N N N N N N	N N N + N N N N N N N N N N	.....
	Infiltration; mixed .....	.....	.....	.....
	Infiltration, Lymphocytic .....	.....	1	.....
INFECTION SITE I; .....	.....	+ + + + + + + + + + + + + + +	+ + + + + + + + + + + + + + +	+
	Hemorrhage .....	.....	.....	.....
	Inflammation; granulomatous .....	.....	.....	.....
	Inflammation; lymphohistiocytic .....	.....	.....	.....
	Inflammation; mixed .....	.....	.....	.....
	Inflammation; vascular .....	.....	.....	.....

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Tabulated Animal Data

SEX: FEMALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
	Foreign material; hair	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		
	Hyperplasia; epidermal	3 2 2 3 3		
	Scab; epidermal	3 3 2 3 3		
	Pustule; epidermal	3 3 3 3 3		
	myofiber; Necrosis	3 3 4 3 3		
	myofiber; Degeneration	2 2 2 2 2		
	dermis; subcutis; Inflammation;	2 2 2 2 2		
	Lymphohistiocytic	2 2 2 2 2		
	dermis; epidermis; Inflammation; neutrophilic	2 2 2 2 2		
	subcutis; Inflammation; mixed	2 2 2 2 2		
	subcutis; Edema	2 2 2 2 2		
	intramuscular / interstitial; Fibrosis	2 2 2 2 2		
	intramuscular / interstitial; Inflammation;	2 2 2 2 2		
	Lymphohistiocytic	2 2 2 2 2		
	intramuscular / interstitial; Inflammation;	2 2 2 2 2		
	mixed	2 2 2 2 2		
	intramuscular / interstitial; Edema	2 2 2 2 2		
	inter- / perimuscular; Fibrosis	2 2 2 2 2		
	inter- / perimuscular; Inflammation; mixed	2 2 2 2 2		
	inter- / perimuscular; Inflammation;	2 2 2 2 2		
	Lymphohistiocytic	2 2 2 2 2		
	inter- / perimuscular; Edema	2 2 2 2 2		
	epidermis; Ulceration	2 2 2 2 2		
	INJECTION SITE II;	2 2 2 2 2		
	Hyperplasia; epidermal	2 2 2 2 2		
	Inflammation; Lymphohistiocytic	2 2 2 2 2		
	Inflammation; mixed	2 2 2 2 2		
	myofiber; Degeneration	2 2 2 2 2		
	myofiber; Necrosis	2 2 2 2 2		
	muscle; Regeneration	2 2 2 2 2		

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## Tabulated Animal Data

SEX: FEMALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
subcutis; Edema .....	T	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	7 7 7 7 8 8 8 8 8 8 8 8 8 9	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
subcutis; Inflammation; mixed .....	T	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	7 7 7 7 8 8 8 8 8 8 8 8 8 9	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
inter- / perimuscular; Edema .....	T	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	7 7 7 7 8 8 8 8 8 8 8 8 8 9	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
inter- / perimuscular; Fibrosis .....	T	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	7 7 7 7 8 8 8 8 8 8 8 8 8 9	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
inter- / perimuscular; Inflammation; mixed .....	T	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	7 7 7 7 8 8 8 8 8 8 8 8 8 9	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
inter- / perimuscular; Inflammation; lymphohistiocytic .....	T	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	7 7 7 7 8 8 8 8 8 8 8 8 8 9	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
intramuscular / interstitial; Edema .....	T	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	7 7 7 7 8 8 8 8 8 8 8 8 8 9	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
intramuscular / interstitial; Fibrosis .....	T	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	7 7 7 7 8 8 8 8 8 8 8 8 8 9	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
intramuscular / interstitial; Inflammation; lymphohistiocytic .....	T	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	7 7 7 7 8 8 8 8 8 8 8 8 8 9	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
intramuscular / interstitial; Inflammation; mixed .....	T	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	7 7 7 7 8 8 8 8 8 8 8 8 8 9	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
dermis; subcutis; Fibrosis .....	T	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	7 7 7 7 8 8 8 8 8 8 8 8 8 9	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
INTESTINE, CECUM; Infiltration, Eosinophilic; increased .....	N	N N N N N + N N N N N N N +		
mucosa-associated lymphoid tissue; Hyperplasia .....	N	N N N N N + N N N N N N N +		
INTESTINE, COLON; Infiltration, Eosinophilic; increased .....	N	N N N N N + N N N N N N N +		
mucosa-associated lymphoid tissue; Hyperplasia .....	N	N N N N N + N N N N N N N +		
INTESTINE, DUODENUM; .....	N	N N N N N N N N N N N N N N		
INTESTINE, ILEUM; .....	N	N N N N N N N N N N N N N N		
INTESTINE, JEJUNUM; .....	N	N N N N N N N N N N N N N N		

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Tabulated Animal Data

SEX: FEMALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
	Infiltration, Eosinophilic; increased . . . . .	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		N N N N N N N + N N N N
	Nematodiasis . . . . .	T T T T T T T T T T T T		. . . . .
	mucosa-associated lymphoid tissue; Hyperplasia . . . . .			. . . . .
KIDNEY, LEFT; . . . . .				+ + + + + + + + + + + + + + +
Congestion . . . . .				2 2 3 3 2 3 3 3 2 2 3 3 3 3
Infiltration, Lymphocytic . . . . .				. 1 . . . . .
Mineralization . . . . .				. . 2 . . . . .
Cyst; tubular . . . . .				. . . . .
Inflammation, Chronic; interstitial . . . . .				. . . . .
tubule; Basophilia . . . . .				. . . . .
tubule; Cast; Hyaline . . . . .				. . . . .
tubule; Degeneration; hyaline . . . . .				. . . . .
KIDNEY, RIGHT; . . . . .				+ + + + + + + + + + + + + + +
Congestion . . . . .				2 2 2 3 3 3 2 2 3 3 3 3 3
Infiltration, Lymphocytic . . . . .				. . . . .
Mineralization . . . . .				. . . . .
Pyelonephritis . . . . .				. . . . .
tubule; Basophilia . . . . .				. . . . .
tubule; Cast; Hyaline . . . . .				. . 1 . . .
pelvis; Inflammation; purulent . . . . .				. . . . .
LACRIMAL GLAND, LEFT; . . . . .				N N N N N N N N N N N N N N
LACRIMAL GLAND, RIGHT; . . . . .				N N N X N N N N N N N N N N
LIVER; . . . . .				+ + + + + + + + + + + + + + +
Congestion . . . . .				2 2 2 2 3 2 2 3 2 3 2 3 2
Hematopoiesis; extramedullary . . . . .				1 . . . . .

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Tabulated Animal Data

SEX: FEMALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
	Infiltration; lymphocytic periorbital; vacuolation; hepatocellular	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	7 7 7 8 8 8 8 8 8 8 8 8 9	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
	Ossification	+ N N N + + N + N N + N N		
	Hemorrhage; acute	1 . . . . . . . . . . . . . . . . .	1 . 2 1 . . 1 . 1 . . . . . . . . .	
	Infiltration; mixed bronchial-associated lymphoid tissue;	. . . . . . . . . . . . . . . . . . . .	. . . . . . . . . . . . . . . . . . . .	
	Hyperplasia	. . . . . . . . . . . . . . . . . . .	. . . . . . . . . . . . . . . . . . .	
	perivascular; infiltration Eosinophilic macrophage; aleveous; infiltration; foamy macrophage; Pigmentation; brown	. . . . . . . . . . . . . . . . . . . .	. . . . . . . . . . . . . . . . . . . .	
	LYMPH NODE, CERVICAL;	+ + + + + + + + + + + + + + +		
	Histiocytosis	1 1 2 1 2 1 2 1 1 2 2 1 2 2 2		
	Erythrophagocytosis	. . . . . . . . . . . . . . . . . . .		
	macrophage; Pigmentation; brown	. . . . . . . . . . . . . . . . . . .		
	germinal center; Increased Cellularity	2 2 2 2 2 2 2 2 2 2 3 2		
	LYMPH NODE, ILLIAC;	+ + + + + + + + + + + + + + +		
	Histiocytosis	1 . . 2 ; . 2 2 1 2 1 1 2 1		
	Plasmacytosis	2 1 2 2 . . 2 2 1 . 1 2		
	Infiltration, Eosinophilic	. . . . . . . . . . . . . . . . .		
	Hemorrhage; acute	. . . . . . . . . . . . . . . . .		
	Inflammation	. 1 . . 2 . . . 2 . . . . .		
	Infiltration; macrophage	. . . . . . . . . . . . . . . . .		
	germinal center; Increased Cellularity	3 2 1 2 2 2 2 3 2 2 1 3 2 2		

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### Tabulated Animal Data

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Tabulated Animal Data

#### Tabulated Animal Data

SEX: FEMALE	GROUP 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
	REMOVAL REASON T T T T T T T T T T T T T T
ANIMAL	.. . .. . .. . .. . .. . .. . .. . .. . ..
NUMBER	7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 9
	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
OVARY, LEFT;	..... N N N N N N N N N N N N N N N N
OVARY, RIGHT;	..... N N N N N N N N N N N N N N N N
OVIDUCT, LEFT;	..... N N N N N N N N N N N N N N N N
OVIDUCT, RIGHT;	..... N N N N N N N N N N N N N N N N
PANCREAS;	..... N N N N N + N N N N N N N N N N
Infiltration, Lymphocytic	..... .
acinar cell; Atrophy	..... 1 .
PARATHYROID, LEFT;	..... N N N X N N N X X X X X X X X X X
Fibrosis; interstitial	..... .
PARATHYROID, RIGHT;	..... N X N N X N X N X N X N X N N N N
PEVERS PATCHES;	..... + X + N + X + + + + + + + + + + +
Mineralization,	..... .
Granulomatous; follicular	..... .
germinal center; Increased Cellularity	..... 3 . 3 3 . 3 . 3 3 2 3 3 2 3 3 3 3
PITUITARY GLAND;	..... N N N N N N N N N + N N N N N
pars distalis; Cyst	..... .
pars intermedia; Cyst	..... 1 .
SALIVARY GLANDS, MANDIBULAR;	..... N N N N N N N N N N N N N N N N N N
SALIVARY GLANDS, SUBLINGUAL;	..... N N N N N N N N N N N N N N N N N N

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Tabulated Animal Data

SEX: FEMALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
SALIVARY GLANDS, PAROTIS; .....	N	N N N N N N N N N N N N N N N N		
SKIN; .....dermis; subcutis; Infiltration; mixed .....	N	N N N N N N N N N N N N N N N N		
SPINAL CORD; .....Cyst; keratinized .....	N	N N N N N N N N N N N N N N N N		
SPLAEN; .....Congestion .....	N	N N + + N N + + N + + N +		
Hematopoiesis; increased .....	..	.. . 1 .. 1 2 .. 2 1 .. 2		
STOMACH, GLANDULAR; .....	N	+ + N N + N + N N + + + +		
Infiltration, Eosinophilic .....	1	1 .. 1 .. 1 1 .. 1 1 .. 1		
Infiltration, Lymphocytic .....	..	.. .. 1 .. .. .. .. .. .. ..		
Dilation; glandular .....	1	1 .. .. .. .. .. .. .. .. ..		
Cyst .....	..	.. .. .. .. .. .. .. .. .. ..		
chief cell; Hyperplasia .....	..	.. .. .. .. .. .. .. .. .. ..		
mucosa-associated lymphoid tissue; Hyperplasia ..	..	.. .. .. .. .. .. .. .. .. ..		
STOMACH, NONGLANDULAR; .....	N	N N N N N N N N N N N N N N N N		
THYMUS; .....	N	N N N N + N N + + N N N N		
Cyst .....	..	.. .. .. .. .. .. .. .. .. ..		
Hemorrhage; acute .....	1	1 .. .. 1 1 .. .. .. .. ..		
THYROID, LEFT; .....	N	N N N N N N N N + N N N N X		
Cyst; keratinized .....	..	.. .. .. .. .. .. .. .. .. ..		
THYROID, RIGHT; .....	N	N N N N N N N N N N N N N N		
Cyst; keratinized .....	..	.. .. .. .. .. .. .. .. .. ..		

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Tabulated Animal Data

SEX: FEMALE	GROUP	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
REMOVAL REASON	T T T T T T T T T T T T T T T	
ANIMAL	· · · · · · · · · · · · · · ·	
NUMBER	7 7 7 7 8 8 8 8 8 8 8 8 8 9	
TONGUE;		N N N N N N N N N N N N N N N
Hemorrhage; acute		· · · · · · · · · · · · · · ·
Infiltration, Lymphocytic		· · · · · · · · · · · · · · ·
Granuloma		· · · · · · · · · · · · · · ·
TRACHEA;		N + N N N N N N N N N N + N
Infiltration; Lymphohistiocytic		· · · · · · · · · · · · · · ·
Infiltration; mixed		· 1 · · · · · · · · · · · · ·
Infiltration, Lymphocytic		· · · · · · · · · · · · · · ·
URINARY BLADDER;		N N N N N N N N N N N N N
Infiltration, Lymphocytic		· · · · · · · · · · · · · · ·
UTERUS;		+ N N + N N + N N + N N N
Dilation		2 . . 2 . . 2 . . 2 . . 2 . .
VAGINA;		N + N N + N + + N N N
Keratinization; epithelial		· 1 . 2 . . 1 2 . . 2 1 2 . .

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Tabulated Animal Data

SEX: FEMALE	REMOVAL REASON	GROUP 4
		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
ADRENAL GLAND, LEFT;	Dilation; vascular	N N N N N N N N + + N N + N
	Hypertrophy; cortical	• • • • • 1 1 • • 1 •
ADRENAL GLAND, RIGHT;	Dilation; vascular	N N N N N N N N N N + +
	Hypertrophy; cortical	• • • • • 1 1 • • •
AORTA ABDOMINALIS;		N N N N N N N N N N N N
BONE, OS FEMORIS WITH JOINT;	surrounding tissue; Inflammation; mixed	N N N N N N N N N N N N
	surrounding tissue; Infiltration; lymphohistiocytic	• • • • • • • • •
BONE MARROW, OS FEMORIS WITH JOINT;	Increased Cellularity	+ + + + + + + + N N N N
		1 1 1 1 1 1 1 1 • • •
BONE, STERNUM;	surrounding tissue; muscle; Infiltration; mixed	N N N N N N N N N N N N
		• • • • • • • • •
BRAIN, BRAIN STEM;		N N N N N N N N N N N N
BRAIN, CEREBELLUM;		N N N N N N N N N N N N
BRAIN, CEREBRUM;		N N N N N N N N N N N N
CERVIX;	Keratinization; epithelial Cyst; keratinized	+ N N N N N N N N + N + +
		2 • • • 2 2 1 2 • • •

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Tabulated Animal Data

SEX: FEMALE	GROUP 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	REMOVAL REASON T T T T T T T T T T T T T T
ANIMAL 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
NUMBER 0 0 0 1 1 1 1 1 1 1 1 1 1 1 2	
6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	
ESOPHAGUS; .....	N N N N N N N N N N N N N N N N
EYE, LEFT; .....	N N N N N N N N N N N N N N N N
macrophage; Pigmentation; brown .....	..... . . . . . . . . . . . . . . . .
EYE, RIGHT; .....	N N N N N N N N N N N N N N N N
HARDERIAN GLAND, LEFT; .....	N N + N N + N N N + N + N N N
Infiltration, Lymphocytic .....	..... 1 . . . . . . . . . . . . . . . .
Infiltration; lymphohistiocytic .....	..... 2 . . . . . . . . . . . . . . . .
Infiltration; mixed .....	..... 2 . . . . . . . . . . . . . . . .
Inflammation; granulomatous .....	..... . . . . . . . . . . . . . . . .
Inflammation; purulent .....	..... . . . . . . . . . . . . . . . .
Inflammation, Chronic .....	..... . . . . . . . . . . . . . . . .
macrophage; Pigmentation; brown .....	..... 2 . . . . . . . . . . . . . . . .
HARDERIAN GLAND, RIGHT; .....	N N N N N N N N N N N N N N N N
Infiltration, Lymphocytic .....	..... . . . . . . . . . . . . . . . .
Infiltration; mixed .....	..... . . . . . . . . . . . . . . . .
Inflammation, Chronic .....	..... . . . . . . . . . . . . . . . .
HEART; .....	N N N N + N N N N N N N N N N N
Infiltration; lymphohistiocytic .....	..... . . . . . . . . . . . . . . . .
Infiltration; mixed .....	..... 1 . . . . . . . . . . . . . . . .
Infiltration, Lymphocytic .....	..... . . . . . . . . . . . . . . . .
INFECTION SITE I; .....	+ + + + + + + + + + + + + + + +
Hemorrhage .....	..... 3 . . . . . . . . . . . . . . . .
Inflammation; granulomatous .....	..... . . . . . . . . . . . . . . . .
Inflammation; lymphohistiocytic .....	..... . . . . . . . . . . . . . . . .
Inflammation; mixed .....	..... . . . . . . . . . . . . . . . .
Inflammation; vascular .....	..... . . . . . . . . . . . . . . . .

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Tabulated Animal Data

SEX: FEMALE	GROUP 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	REMOVAL REASON T T T T T T T T T T T T T T T T
	ANIMAL 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	NUMBER 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1	
	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	
<hr/>		
INJECTION SITE I; (Continued)		
Foreign Material; hair .....	.....	.....
Hyperplasia; epidermal .....	2 ..	2 2 2 2 2 2
Scab; epidermal .....	.....	.....
Pustule; epidermal .....	.....	.....
myofiber; Necrosis .....	.....	.....
myofiber; Degeneration .....	2 1 2 2 2 2 2 1	.....
dermis; subcutis; Inflammation;	.....	.....
Lymphohistiocytic .....	.....	.....
dermis; epidermis; Inflammation; neutrophilic .....	.....	.....
subcutis; Inflammation; mixed .....	3 3 3	3 3 3 3 3 3
subcutis; Edema .....	3 2 3	2 3 2 3 3 3
intramuscular / interstitial; Fibrosis .....	2 2 2	2 2 2 2 2 2 2
intramuscular / interstitial; Inflammation;	.....	.....
Lymphohistiocytic .....	.....	.....
intramuscular / interstitial; Inflammation;	.....	.....
mixed .....	3 2 2	3 3 3 3 2 3
intramuscular / interstitial; Edema .....	2 1 2	2 2 1 2 2 2
inter- / perimysial; Fibrosis .....	2 2 2	2 2 2 2 2 2 2 2 1
inter- / perimysial; Inflammation; mixed .....	3 3 4	3 3 3 3 3 3
Lymphohistiocytic .....	.....	.....
inter- / perimysial; Inflammation;	.....	.....
epidermis; Ulceration .....	3 3 4	3 3 3 3 3 3
<hr/>		
INJECTION SITE II; .....	.....	.....
Hyperplasia; epidermal .....	.....	.....
Inflammation; lymphohistiocytic .....	.....	.....
Inflammation; mixed .....	.....	.....
myofiber; Degeneration .....	.....	.....
muscle; Regeneration .....	.....	.....

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Study No.: 38166 Repeat-Dose Toxicity Study

### Tabulated Animal Data

SEX: FEMALE  
 GROUP 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4  
 REMOVAL REASON T T T T T T T T T T T T T T T  
 ANIMAL 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  
 NUMBER 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1  
 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

INJECTION SITE III: (Continued)

subcutis; Edema	.....	(containing)
subcutis; Inflammation; mixed	.....	
inter- / perimuscular; Edema	.....	
inter- / perimuscular; Fibrosis	.....	
inter- / perimuscular; Inflammation; mixed	.....	
inter- / perimuscular; Inflammation;	.....	
lymphohistiocytic	.....	
intramuscular / interstitial; Edema	.....	
intramuscular / interstitial; Fibrosis	.....	
intramuscular / interstitial; Inflammation	.....	
lymphohistiocytic	.....	
intramuscular / interstitial; Inflammation;	.....	
mixed	.....	

INTESTINE, CECUM; ..... N + N N N N N + N N N + N  
Infiltration, Eosinophilic; increased ..... 1 ..... .  
mucosa-associated lymphoid tissue; Hyperplasia ..... .

INTESTINE, COLON; .... increased ..... N + N N N N N + N N N N  
INTESTINE, Eosinophilic; increased ..... 1 ..... 1 ..... 1 ..... 1  
mucosa-associated lymphoid tissue; Hyperplasia .....

INTESTINE, DUODENUM; ..... N N N N N N N N N N N N N N N

INTESTINE, ILEUM; ..... N N N N N N N N N N N N N N N N

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### Tabulated Animal Data

SEX: FEMALE	GROUP	4	4	4	4	4	4	4	4	4
	REMOVAL REASON	T	T	T	T	T	T	T	T	T
	ANIMAL NUMBER	1	1	1	1	1	1	1	1	1
		0	0	0	1	1	1	1	1	1
		6	7	8	9	0	1	2	3	4
KIDNEY, LEFT;										
Congestion .....	+ + + + + + + + + +	N	N	N	N	N	N	N	N	N
Infiltration, Eosinophilic; increased .....	1	1	.	1	.	1	.	1	.	1
Nematodiasis .....	.	.	.	.	.	.	.	.	.	.
mucosa-associated lymphoid tissue; Hyperplasia .....	.	.	.	.	.	.	.	.	2	.
KIDNEY, RIGHT;										
Congestion .....	+ + + + + + + + + +	N	N	N	N	N	N	N	N	N
Infiltration, Lymphocytic .....	3	2	2	3	3	3	2	3	3	3
Mineralization .....	.	.	.	.	.	.	.	.	.	.
Cyst; tubular .....	1	.	.	.	.	.	.	.	.	.
Inflammation, Chronic; interstitial										
tubule; Basophilia .....	.	.	.	.	.	.	.	.	1	.
tubule; Cast; hyaline .....	.	.	.	.	.	.	.	.	1	.
tubule; Degeneration; hyaline .....	.	.	.	.	.	.	.	.	1	.
KIDNEY, RIGHT;										
Congestion .....	+ + + + + + + + + +	N	N	N	N	N	N	N	N	N
Infiltration, Lymphocytic .....	3	2	2	3	3	3	2	3	3	3
Mineralization .....	.	.	.	.	.	.	.	.	.	.
Pyelonephritis .....	.	.	.	.	.	.	.	.	.	.
tubule; Basophilia .....	.	.	.	.	.	.	.	.	1	.
tubule; Cast; hyaline .....	.	.	.	.	.	.	.	.	1	.
pelvis; Inflammation; purulent									.	.
LACRIMAL GLAND, LEFT;										
LACRIMAL GLAND, RIGHT;										
LIVER;										
Hematopoeisis; extramedullary .....	+ + + + + + + + + +	N	N	N	N	N	N	N	N	N
Congestion .....	2	3	3	2	2	3	2	3	3	3

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Tabulated Animal Data

SEX: FEMALE	GROUP 4	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	REMOVAL REASON	T T T T T T T T T T T T T T T T
	ANIMAL	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	NUMBER	0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 2
		6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
LIVER; (Continued)		
Infiltration; mixed	.....	1 .....
Infiltration, lymphocytic	.....	1 1 1 1 .....
periportal; vacuolation; hepatocellular	.....	1 2 2 2 2 2 2 2 2 1 .....
LUNGS WITH BRONCHI;	.....	N + N + + + + + N + N +
Ossification	.....	.....
Hemorrhage; acute	.....	.....
Infiltration; mixed	.....	.....
bronchial-associated lymphoid tissue;	.....	.....
Hyperplasia	.....	.....
perivascular; infiltration, Eosinophilic	.....	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
macrophage; alveolar; infiltration; foamy	.....	2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1
macrophage; Pigmentation; brown	.....	.....
LYMPH NODE, CERVICAL;	.....	++ + + + + + + + + + + + + + + + + +
Histiocytosis	.....	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1
Erythrophagocytosis	.....	.....
macrophage; Pigmentation; brown	.....	.....
germinal center; Increased Cellularity	.....	1 1 2 1 1 1 2 1 1 2 3 2 2 2
LYMPH NODE, ILLIAC;	.....	++ + + + + + + + + + + + + + + + + +
Histiocytosis	.....	2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1
Plasmacytosis	.....	2 3 3 3 3 3 3 3 1 1 1
Infiltration, Eosinophilic	.....	.....
Hemorrhage; acute	.....	.....
Inflammation	.....	.....
Infiltration; macrophage	.....	.....
germinal center; Increased Cellularity	.....	2 1 1 2 2 3 2 2 2 1 2

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 Tabulated Animal Data

SEX: FEMALE	GROUP 4	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	REMOVAL REASON	T T T T T T T T T T T T T T T T
	ANIMAL	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	NUMBER	0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2
		6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
OVARY, LEFT;	.....	N N N N N N N N N N N N N N N N
OVARY, RIGHT;	.....	N N N N N N N N N N N N N N N N
OVIDUCT, LEFT;	.....	N N N N N N N N N N N N N N N N
OVIDUCT, RIGHT;	.....	N N N N N N N N N N N N N N N N
PANCREAS;	.....	N N N N + N N N N + N N N N
Infiltration, Lymphocytic .	.....	.....
acinar cell; Atrophy .....	.....	.....
PARATHYROID, LEFT;	.....	X N N N N N N N N N N X N
Fibrosis; interstitial .....	.....	.....
PARATHYROID, RIGHT;	.....	N N N N X N N N N N N N X
PEYERS PATCHES;	.....	+ + + X + + + X + N N + + +
Mineralization .....	.....	.....
Inflammation, Granulomatous; follicular	.....	.....
germinal center; Increased Cellularity .....	3 3 3 . 2 3 3 3 . 2 .	3 3 3
PITUITARY GLAND;	.....	N N N N N N N N N N N N N N N N
pars distalis; Cyst .....	.....	.....
pars intermedia; Cyst .....	.....	.....
SALIVARY GLANDS, MANDIBULAR;	.....	N N N N N N N N N N N N N N N N
SALIVARY GLANDS, SUBLINGUAL;	.....	N N N N N N N X N N N N N

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Tabulated Animal Data

SEX: FEMALE	GROUP 4	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	REMOVAL REASON	T T T T T T T T T T T T T T T T
	ANIMAL	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	NUMBER	0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 2
		6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
SALIVARY GLANDS, PAROTIS; .....	N N N N N N N N N N N N N N N N	
SKIN; .....dermis; subcutis; Infiltration; mixed .....	N N N N N N N N N N N N N N N N	
SPINAL CORD; .....	N N N N N N N N N N N N N N N N	
SPLAEN; .....	+ + + + + N + + N + + N + + N	
Congestion .....	1 1 2 1 1 1 . 1 1 1 . 1 2 1 .	
Hematopoiesis; increased .....	. . . . . . . . . . . . . . . .	
STOMACH, GLANDULAR; .....	+ + + + + + + + + + + + + + + +	
Infiltration, Eosinophilic .....	2 2 1 2 1 2 1 2 1 2 1 1 1 1	
Infiltration, Lymphocytic .....	. . . . . . . . . . . . . . . .	
Dilation; glandular .....	1 . . . . . . . . . . . . . . .	
Cyst .....	. . . . . . . . . . . . . . . .	
chief cell; Hyperplasia .....	. . . . . . . . . . . . . . . .	
mucosa-associated lymphoid tissue; Hyperplasia .....	. . . . . . . . . . . . . . . .	
STOMACH, NONGLANDULAR; .....	N N N N N N N N N N N N N N N N	
THYMUS; .....	N N + + N N + + N N +	
Cyst .....	. . . . . . . . . . . . . . . .	
Hemorrhage; acute .....	. . . 1 1 2 . . . 1 1 . . 1	
THYROID, LEFT; .....	N N N N N N N N N N N N N N N N	
Cyst; keratinized .....	. . . . . . . . . . . . . . . .	
THYROID, RIGHT; .....	N N N N N N N N N N N N N N N N	
Cyst; keratinized .....	. . . . . . . . . . . . . . . .	

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Tabulated Animal Data

SEX: FEMALE	GROUP 4	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	REMOVAL REASON	T T T T T T T T T T T T T T T T
	ANIMAL	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	NUMBER	0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 2
		6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
TONGUE;		N N N N N N N + N N N N N N N N
Hemorrhage; acute		· · · · · · · · · · · · · · · ·
Infiltration, Lymphocytic		· · · · · · · · · · · · · · · ·
Granuloma		· · · · · · · · · · · · · · · ·
TRACHEA;		N + N N N + N N N + N N N N N N
Infiltration; Lymphohistiocytic		· · · · · · · · · · · · · · · ·
Infiltration; mixed		· · · · · · · · · · · · · · · ·
Infiltration, Lymphocytic		· · · · · · · · · · · · · · · ·
URINARY BLADDER;		N N N N N N N N N N N N N N N N
Infiltration, Lymphocytic		· · · · · · · · · · · · · · · ·
UTERUS;		+ N N + N N N N N N N N N N N N
Dilation		2 · · 2 · · · · · · · · · · ·
VAGINA;		+ N N N N N N N N + N + + +
Keratinization; epithelial		2 · · · · · · · · · · · · · · · ·

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## Tabulated Animal Data

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Tabulated Animal Data

SEX: FEMALE	REMOVAL REASON	GROUP 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
		T T T T T T T T T T T T T T T T
	ANIMAL 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	NUMBER 3 3 3 3 4 4 4 4 4 4 4 4 4 4 5	
	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	
ESOPHAGUS; .....	.....	N N N N N N N N N N N N N N N N
EYE, LEFT; .....	macrophage; Pigmentation; brown .....	N N N N N N N N N N N N N N N N
EYE, RIGHT; .....	.....	N N N N N N N N N N N N N N N N
HARDERIAN GLAND, LEFT; .....	Infiltration, Lymphocytic .....	N N N N N N N N + N N N N +
	Infiltration; lymphohistiocytic .....	..... 1 .....
	Infiltration; mixed .....	.....
	Inflammation; granulomatous .....	.....
	Inflammation; purulent .....	.....
	Inflammation, Chronic .....	..... 2 .....
	macrophage; Pigmentation; brown .....	..... 2 .....
HARDERIAN GLAND, RIGHT; .....	.....	N N N N N N N N N N N N N N N N
	Infiltration, Lymphocytic .....	.....
	Infiltration; mixed .....	.....
	Inflammation, Chronic .....	.....
HEART; .....	.....	N N N N N N N N N N N N N N N N +
	Infiltration; lymphohistiocytic .....	.....
	Infiltration; mixed .....	.....
	Infiltration, Lymphocytic .....	..... 1 .....
INFECTION SITE I; .....	.....	+ + + + + + + + + + + + + + + +
	Hemorrhage .....	.....
	Inflammation; granulomatous .....	.....
	Inflammation; lymphohistiocytic .....	.....
	Inflammation; mixed .....	.....
	Inflammation; vascular .....	.....

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Tabulated Animal Data

SEX: FEMALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
subcutis; Edema .....	.....	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
subcutis; Inflammation; mixed .....	.....	3 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
inter- / perimuscular; Edema .....	.....	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
inter- / perimuscular; Fibrosis .....	.....	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
inter- / perimuscular; Inflammation; mixed .....	.....	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
inter- / perimuscular; Inflammation; lymphohistiocytic .....	.....	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2
intramuscular / interstitial; Edema .....	.....	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
intramuscular / interstitial; Fibrosis .....	.....	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
intramuscular / interstitial; Inflammation; lymphohistiocytic .....	.....	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2
intramuscular / interstitial; Inflammation; mixed .....	.....	2 2 2 3 2 3 3 2 2 2 3 2 2 2 3 2 2 3	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2
dermis; subcutis; Fibrosis .....	.....	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2
INTESTINE, CECUM; Eosinophilic; increased .....	.....	N + N N N N + N N N N N N N N N	.....	.....
INfiltration, Eosinophilic; increased .....	.....	1 .....	1 .....	1 .....
mucosa-associated lymphoid tissue; Hyperplasia .....	.....	.....	.....	.....
INTESTINE, COLON; Eosinophilic; increased .....	.....	N + N N N N N N N N N N N N N N	.....	.....
Infiltration, Eosinophilic; increased .....	.....	1 .....	1 .....	1 .....
mucosa-associated lymphoid tissue; Hyperplasia .....	.....	.....	.....	.....
INTESTINE, DUODENUM; .....	.....	N N N N N N N N N N N N N N N N	.....	.....
INTESTINE, ILEUM; .....	.....	N N N N N N N N N N N N N N N N	.....	.....
INTESTINE, JEJUNUM; .....	.....	N N N N N N N N N N N N N N N N	.....	.....

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Tabulated Animal Data

SEX: FEMALE	REMOVAL REASON	GROUP	5	5	5	5	5	5	5	5	5	5	5	5	5	N + N N + N N N N N N N N N N N N
	Infiltration, Eosinophilic; increased . . . . .		1	..	1	..	..	..	..	..	..	..	..	..	..	.
	Nematodiasis . . . . .		..	..	..	..	..	..	..	..	..	..	..	..	..	.
	mucosa-associated lymphoid tissue; Hyperplasia .. . . . .		2	..	..	..	..	..	..	..	..	..	..	..	..	.
KIDNEY, LEFT; .. . . . .			++	++	++	++	++	++	++	++	++	++	++	++	++	.
Congestion .. . . . .			2	3	3	2	3	3	3	2	3	3	2	3	3	.
Infiltration, Lymphocytic .. . . . .			..	..	..	..	..	..	..	..	..	..	..	..	..	.
Mineralization .. . . . .			..	..	..	..	..	..	..	..	..	..	..	..	..	.
Cyst; tubular .. . . . .			..	..	..	..	..	..	..	..	..	..	..	..	..	.
Inflammation, Chronic; interstitial .. . . . .			..	..	..	..	..	..	..	..	..	..	..	..	..	.
tubule; Basophilia .. . . . .			..	..	..	..	..	..	..	..	..	..	..	..	..	.
tubule; Cast; Hyaline .. . . . .			..	..	..	..	..	..	..	..	..	..	..	..	..	.
tubule; Degeneration; hyaline .. . . . .			..	..	..	..	..	..	..	..	..	..	..	..	..	.
KIDNEY, RIGHT; .. . . . .			++	++	++	++	++	++	++	++	++	++	++	++	++	.
Congestion .. . . . .			2	3	2	2	3	3	2	3	2	3	3	2	3	.
Infiltration, Lymphocytic .. . . . .			..	..	..	..	..	..	..	..	..	..	..	..	..	.
Mineralization .. . . . .			..	..	..	..	..	..	..	..	..	..	..	..	..	.
Pyelonephritis .. . . . .			..	..	..	..	..	..	..	..	..	..	..	..	..	.
tubule; Basophilia .. . . . .			..	..	..	..	..	..	..	..	..	..	..	..	..	.
tubule; Cast; Hyaline .. . . . .			..	..	..	..	..	..	..	..	..	..	..	..	..	.
tubule; Inflammation; purulent .. . . . .			..	..	..	..	..	..	..	..	..	..	..	..	..	.
LACRIMAL GLAND, LEFT; .. . . . .			..	..	..	..	..	..	..	..	..	..	..	..	..	.
LACRIMAL GLAND, RIGHT; .. . . . .			..	..	..	..	..	..	..	..	..	..	..	..	..	.
LIVER; .. . . . .			++	++	++	++	++	++	++	++	++	++	++	++	++	.
Congestion .. . . . .			3	2	2	3	3	2	3	3	3	2	3	3	2	.
Hematopoiesis; extramedullary .. . . . .			1	..	1	..	1	..	1	..	1	..	1	..	..	.

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 Tabulated Animal Data

SEX: FEMALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
	T T T T T T T T T T T T	5 5 5 5 5 5 5 5 5 5 5 5	1 1 1 1 1 1 1 1 1 1 1 1	3 3 3 4 4 4 4 4 4 4 4 5
				6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
LYMPH NODE, MESENTERIC; Erythrophagocytosis	.....	+	+	+
Histiocytosis	.....	.....	2	2
Infiltration, Eosinophilic	.....	.....	1	..
macrophage; Pigmentation	.....	.....	2	2
germinal center; Increased Cellularity	.....	.....	2	2
MAMMARY GLANDS; Interstitium; Inflammation mixed	.....	N N N + N N N N N N N N N N	.....	.....
SKELETAL MUSCLE; Infiltration; lymphohistiocytic	.....	+ N N N N + N N N N N N N	1	..
Infiltration; mixed	.....	.....	1	..
Infiltration, Lymphocytic	.....	.....	1	..
myofiber; Necrosis	.....	.....	1	..
NERVE, SCIATIC; Vacuolation	.....	+ + + + + + + + + + N + N N N	.....	.....
perineural; Inflammation	.....	3 3 3 3 2 3 2 3 1 . 2 .	.....	.....
OPTIC NERVE, LEFT; Hemorrhage; acute	.....	N N N N N N N N N N N N N N	.....	.....
macrophage; Pigmentation; brown	.....	.....	.....	.....
macrophage; Infiltration; foamy	.....	.....	.....	.....
OPTIC NERVE, RIGHT; Hemorrhage; acute	.....	N N N N N N N N N N N N N N	.....	.....
macrophage; Pigmentation; brown	.....	.....	.....	.....
macrophage; Infiltration; foamy	.....	.....	.....	.....

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Tabulated Animal Data

SEX: FEMALE	REMOVAL REASON	GROUP 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
		T T T T T T T T T T T T T T T T
ANIMAL 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
NUMBER 3 3 3 4 4 4 4 4 4 4 4 4 4 4 5		
6 7 8 9 0 1 2 3 4 5 6 7 8 9 0		
OVARY, LEFT; .....	.....	N N N N N N N N N N N N N N N N
OVARY, RIGHT; .....	.....	N N N N N N N N N N N N N N N N
OVIDUCT, LEFT; .....	.....	N N N N N N N X N N N N N N
OVIDUCT, RIGHT; .....	.....	N N N N N N N N N N X N X N
PANCREAS; .....	.....	N N N N N N N N N N N N N N N N
Infiltration, Lymphocytic .	.	.
acinar cell; Atrophy .....	.....	.....
PARATHYROID, LEFT; .....	.....	N N + X N N N X X N N N N X N X
Fibrosis; interstitial .....	.....	.....
PARATHYROID, RIGHT; .....	.....	N N N X N X X X N X N X X X
PEYERS PATCHES; .....	.....	+ X + + + X + + + + + + X +
Mineralization .....	.....	.....
Inflammation, Granulomatous; follicular	.....	.....
germinal center; Increased Cellularity .....	.....	2 . 3 3 3 3 . 3 3 3 3 . 3
PITUITARY GLAND; .....	.....	N N N N N N N N N N N N N N N N
pars distalis; Cyst .....	.....	.....
pars intermedia; Cyst .....	.....	.....
SALIVARY GLANDS, MANDIBULAR; .....	.....	N N N N N N N N N N N N N N N N
SALIVARY GLANDS, SUBLINGUAL; .....	.....	N N N N N N N N N N N N N N N N

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Tabulated Animal Data

SEX: FEMALE	REMOVAL REASON	GROUP 5 5 5 5 5 5 5 5 5 5 5 5 5 5
SKIN; dermis; subcutis; Infiltration; mixed .	ANIMAL 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N N N N N N N N N N N N N N N N
	NUMBER 3 3 3 4 4 4 4 4 4 4 4 4 4 4 5	N N N N + + + + + + + + + + + + + +
	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	. . . . . . . . . . . . . . . . . . . .
SALIVARY GLANDS, PAROTIS; .....		
SPINAL CORD; Cyst; keratinized .....		
SPLAEN; Congestion .....		+ + N + + + N N + + N N + N
Hematopoiesis; increased .....		. 1 . . 1 1 . . 1 1 . . 1 . . 1 .
STOMACH, GLANDULAR; .....		2 1 . 1 2 2 1 . . 1 . . 1 . . 1 . .
Infiltration, Eosinophilic .....		
Infiltration, Lymphocytic .....		
Dilation; glandular .....		
Cyst .....		
chief cell; Hyperplasia .....		
mucosa-associated lymphoid tissue; Hyperplasia ..		
STOMACH, NONGLANDULAR; .....		
THYMUS; .....		N N N N N N N N N N N N N N N N
Cyst .....		+ N N + + + N N + N N N N N N
Hemorrhage; acute .....		. . . . . . . . . . . . . . . . . . . .
THYROID, LEFT; Cyst; keratinized .....		1 . . 1 1 . . 1 . . 1 . . 1 . . 1 . .
THYROID, RIGHT; Cyst; keratinized .....		N N N N N + N N N N N N N N N N
		. . . . . . . . . . . . . . . . . . . .
		N N N N N N N N N N N N N N N N
		. . . . . . . . . . . . . . . . . . . .

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Tabulated Animal Data

SEX: FEMALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
		5 5 5 5 5 5 5 5 5 5 5 5 5 5	1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
	Hemorrhage; acute .....	N N N N N N N N N N N N N N N		
	Infiltration, Lymphocytic .....	· · · · · · · · · · · · · · ·		
	Granuloma .....	· · · · · · · · · · · · · · ·		
	TONGUE; .....	N + N N N N N N N N N N N N N		
	Hemorrhage; acute .....	· · · · · · · · · · · · · · ·		
	Infiltration; Lymphohistiocytic .....	· · · · · · · · · · · · · · ·		
	Infiltration; mixed .....	· · · · · · · · · · · · · · ·		
	Infiltration, Lymphocytic .....	· · · · · · · · · · · · · · ·		
	TRACHEA; .....	N N + N N N N N N N N N N N		
	Infiltration; Lymphohistiocytic .....	· · · · · · · · · · · · · · ·		
	Infiltration; mixed .....	· · · · · · · · · · · · · · ·		
	Infiltration, Lymphocytic .....	· · · · · · · · · · · · · · ·		
	URINARY BLADDER; .....	N N + N N X N N N N N N N		
	Infiltration, Lymphocytic .....	· · · · · · · · · · · · · · ·		
	UTERUS; .....	N N N N N N N N N N + N N N		
	Dilation .....	· · · · · · · · · · · · · · ·		
	VAGINA; .....	N N N N + + N N N N + + +		
	Keratinization; epithelial .....	· · · · · 1 1 . . . 2 2 2		

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SEX: FEMALE	REMOVAL REASON	GROUP
		6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
ADRENAL GLAND, LEFT; Dilation; vascular Hyper trophy; cortical		N N N N + N N N N N + N N N . . . . 1 . . . . 1 . . . .
ADRENAL GLAND, RIGHT; Dilation; vascular Hyper trophy; cortical		N N N N N N N N N N N N N N . . . . . . . . . . . . . .
AORTA ABDOMINALIS;		N N N N N N N N N N N N N N . . . . . . . . . . . . . .
BONE, OS FEMORIS WITH JOINT; surrounding tissue; Inflammation; mixed; surrounding tissue; Infiltration; lymphohistiocytic		N N N N N N N N N N N N N N . . . . . . . . . . . . . .
BONE MARROW, OS FEMORIS WITH JOINT; Increased Cellularity		+ + + + + + + + + + N N N N 1 1 1 1 1 1 1 1 1 1 . . . .
BONE, STERNUM; surrounding tissue; muscle; Infiltration; mixed		N N N N N N N N N N N N N N . . . . . . . . . . . . . .
BRAIN, BRAIN STEM;		N N N N N N N N N N N N N N . . . . . . . . . . . . . .
BRAIN, CEREBELLUM;		N N N N N N N N N N N N N N . . . . . . . . . . . . . .
BRAIN, CEREBRUM;		N N N N N N N N N N N N N N . . . . . . . . . . . . . .
CERVIX; Keratinization; epithelial Cyst; keratinized		N N N + + N N N N + + N N N . . . 2 2 . . . . 2 2 2 . . . . . . . 3 . . . . . . . .

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SEX: FEMALE	REMOVAL REASON	GROUP 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
		T T
	ANIMAL 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	NUMBER 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 8	
	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	
ESOPHAGUS; .....	.....	N N
EYE, LEFT; .....	.....	N N
macrophage; Pigmentation; brown .....	.....	.....
EYE, RIGHT; .....	.....	N N
HARDERIAN GLAND, LEFT; .....	.....	N + N + + N N N N N N N N N N N N N N N N
Infiltration, Lymphocytic .....	.....	.....
Infiltration; lymphohistiocytic .....	.....	.....
Infiltration; mixed .....	.....	.....
Inflammation; granulomatous .....	.....	.....
Inflammation; purulent .....	.....	.....
Inflammation, Chronic .....	.....	.....
macrophage; Pigmentation; brown .....	.....	.....
HARDERIAN GLAND, RIGHT; .....	.....	N N N N N N N N N N N N N N N N +
Infiltration, Lymphocytic .....	.....	.....
Infiltration; mixed .....	.....	.....
Inflammation, Chronic .....	.....	.....
HEART; .....	.....	N N N N + N N N N N N N N N N N
Infiltration; lymphohistiocytic .....	.....	.....
Infiltration; mixed .....	.....	.....
Infiltration, Lymphocytic .....	.....	.....
INFECTION SITE I; .....	.....	+ + + + + + + + + + + + + + + + + + + +
Hemorrhage .....	.....	.....
Inflammation; granulomatous .....	.....	.....
Inflammation; lymphohistiocytic .....	.....	.....
Inflammation; mixed .....	.....	.....
Inflammation; vascular .....	.....	.....
		3 . . . .

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SEX: FEMALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
	Foreign material; hair	6 6 6 6 6 6 6 6 6 6 6 6 6 6	1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 6 6 7 7 7 7 7 7 7 7 7 8
	Hyperplasia; epidermal	3 3 3 3 3 3 3 3 3 3 3 3 3		
	Scab; epidermal	.....		
	Pustule; epidermal	.....		
	myofiber; Necrosis	.....		
	myofiber; Degeneration	2 2 2 3 . 2 3 3 3 3		
	dermis; subcutis; Inflammation;	.....		
	Lymphohistiocytic	.....		
	dermis; epidermis; Inflammation; neutrophilic	3 3 3 3 3 3 3 3 3		
	subcutis; Inflammation; mixed	.....		
	subcutis; Edema	3 3 4 3 3 4 4 4 3		
	intramuscular / interstitial; Fibrosis	2 2 2 2 2 2 2 2 2		
	intramuscular / interstitial; Inflammation;	.....		
	Lymphohistiocytic	.....		
	intramuscular / interstitial; Inflammation;	3 2 2 3 3 2 3 3 3		
	mixed	.....		
	intramuscular / interstitial; Edema	2 2 2 2 2 2 2 2 1		
	inter- / perimuscular; Fibrosis	2 2 2 2 2 2 2 2 1 1		
	inter- / perimuscular; Inflammation; mixed	3 3 3 4 3 3 3 3		
	inter- / perimuscular; Inflammation;	.....		
	Lymphohistiocytic	.....		
	inter- / perimuscular; Edema	3 3 4 3 2 3 3 3 3		
	epidermis; Ulceration	.....		
	.....	3 .....		
	INJECTION SITE II;	.....		
	Hyperplasia; epidermal	.....		
	Inflammation; Lymphohistiocytic	.....		
	Inflammation; mixed	.....		
	myofiber; Degeneration	.....		
	myofiber; Necrosis	.....		
	muscle; Regeneration	.....		

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SEX: FEMALE	REMOVAL REASON	GROUP	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
subcutis; Edema		T T T T T T T T T T T T T T T T	
subcutis; Inflammation; mixed			
inter- / perimuscular; Edema			
inter- / perimuscular; Fibrosis			
inter- / perimuscular; Inflammation; mixed			
inter- / perimuscular; Inflammation;			
lymphohistiocytic			
intramuscular / interstitial; Edema			
intramuscular / interstitial; Fibrosis			
intramuscular / interstitial; Inflammation;			
lymphohistiocytic			
intramuscular / interstitial; Inflammation;			
mixed			
dermis; subcutis; Fibrosis			
INTESTINE, CECUM;		N N N N N N N N N N N N N N N N	
Infiltration, Eosinophilic; increased			
mucosa-associated lymphoid tissue; Hyperplasia			
INTESTINE, COLON;		N N N N + N N + + N N + N N N	
Infiltration, Eosinophilic; increased			
mucosa-associated lymphoid tissue; Hyperplasia			
INTESTINE, DUODENUM;		N N N N N N N N N N N N N N N	
INTESTINE, ILEUM;		N N N N N N N N N N N N N N N	
INTESTINE, JEJUNUM;		N N N N N N N N N N N N N N N	

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Tabulated Animal Data

SEX: FEMALE	REMOVAL REASON	GROUP 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
	Infiltration, Eosinophilic; increased . . . . .	N N + N N N N N N N N N N N N N N
Nematodiasis . . . . .	. . . . .	. . . . .
mucosa-associated lymphoid tissue; Hyperplasia . . . . .	. . . . .	. . . . .
KIDNEY, LEFT; . . . . .	+ + + + + + + + + + + + + + + + + + + +	
Congestion . . . . .	2 2 2 3 2 2 3 2 3 3 3 3 3 3	
Infiltration, Lymphocytic . . . . .	. . . . .	
Mineralization . . . . .	. . . . .	
Cyst; tubular . . . . .	. . . . .	
Inflammation, Chronic; interstitial . . . . .	. . . . .	
tubule; Basophilia . . . . .	. . . . .	
tubule; Cast; Hyaline . . . . .	. . . . .	
tubule; Degeneration; hyaline . . . . .	. . . . .	
KIDNEY, RIGHT; . . . . .	+ + + + + + + + + + + + + + + + + + + +	
Congestion . . . . .	2 2 2 3 2 2 3 2 3 3 3 3 3 3	
Infiltration, Lymphocytic . . . . .	. . . . .	
Mineralization . . . . .	. . . . .	
Pyelonephritis . . . . .	. . . . .	
tubule; Basophilia . . . . .	. . . . .	
tubule; Cast; Hyaline . . . . .	. . . . .	
pelvis; Inflammation; purulent . . . . .	. . . . .	
LACRIMAL GLAND, LEFT; . . . . .	N N N N N N N N N N N N N N N N	
LACRIMAL GLAND, RIGHT; . . . . .	N N N N N N N N N N N N N N N N	
LIVER; . . . . .	+ + + + + + + + + + + + + + + + + + + +	
Congestion . . . . .	2 3 2 2 2 2 3 2 3 3 2 3 3	
Hematopoiesis; extramedullary . . . . .	1 1 1 1 . . 1 . . 1 . . . .	

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SEX: FEMALE	REMOVAL REASON	GROUP 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
		T T
ANIMAL 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
NUMBER 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 8		
6 7 8 9 0 1 2 3 4 5 6 7 8 9 0		
OVARY, LEFT; .....	.....	N N N N N X N N N N N N N N N N
OVARY, RIGHT; .....	.....	N N N N N N N N N N N N N N N N
OVIDUCT, LEFT; .....	.....	N N N N N N N N N N N N N N N N
OVIDUCT, RIGHT; .....	.....	N N N N N N N N N N N N N N N N
PANCREAS; .....	.....	N N N N N N N N N N N N N N N N
Infiltration, Lymphocytic .....	.....	.....
acinar cell; Atrophy .....	.....	.....
PARATHYROID, LEFT; .....	.....	N N N N N N N N N N N N N N N N
Fibrosis; interstitial .....	.....	.....
PARATHYROID, RIGHT; .....	.....	X X N N N N N N N N N N N N N N
PEYERS PATCHES; .....	.....	+ + X + + X + + + + + + + + + +
Mineralization .....	.....	1 .. . . . . . . . . . . . . . . . . . .
Inflammation, Granulomatous; follicular .....	.....	.....
germinal center; Increased Cellularity .....	.....	3 3 . 3 3 . 2 . 1 2 3 3 . 3 . 3
PITUITARY GLAND; .....	.....	N N N N + N N N N N N N N N N N N N N
pars distalis; Cyst .....	.....	1 .. . . . . . . . . . . . . . . . . . .
pars intermedia; Cyst .....	.....	.....
SALIVARY GLANDS, MANDIBULAR; .....	.....	N N N N N N N N N N N N N N N N N N
SALIVARY GLANDS, SUBLINGUAL; .....	.....	N N N N N N N N N N N N N N N N N N

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Tabulated Animal Data

SEX: FEMALE	REMOVAL REASON	GROUP 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
SKIN; dermis; subcutis; Infiltration; mixed .		ANIMAL 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
NUMBER 6 6 6 7 7 7 7 7 7 7 7 7 7 7 8		
6 7 8 9 0 1 2 3 4 5 6 7 8 9 0		
SALIVARY GLANDS, PAROTIS; .....	N N N N X N N N N N N N N N N N N N N N N N	
SPINAL CORD; Cyst; keratinized .....	N N	
SPLAEN; Congestion .....	+ + N + + N N + + + + + + + + + + + + +	
Hematopoiesis; increased .....	1 1 2 . 1 1 . . 1 1 1 1 1 2 1	
STOMACH, GLANDULAR; Infiltration, Eosinophilic .....	N N + N N N + + + + N + + + + + + + + +	
Infiltration, Lymphocytic .....	. 1 . . 1 1 1 . 1 1 1	
Dilation; glandular .....	. .	
Cyst .....	1 .	
chief cell; Hyperplasia .....	. .	
mucosa-associated lymphoid tissue; Hyperplasia .....	2 .	
STOMACH, NONGLANDULAR; .....	N N	
THYMUS; Cyst .....	+ N + N N + N N + + + N N + N + N + N	
Hemorrhage; acute .....	. 2 .	
THYROID, LEFT; Cyst; keratinized .....	N N	
THYROID, RIGHT; Cyst; keratinized .....	N X N N N N + N N N N N + N . . . . . . . . . .	

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SEX: FEMALE	GROUP 6	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
	REMOVAL REASON	T T T T T T T T T T T T T T T T
	ANIMAL	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	NUMBER	6 6 6 7 7 7 7 7 7 7 7 7 7 7 8
		6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
TONGUE;		N N N N N N N N N N N N + N
Hemorrhage; acute		· · · · · · · · · · · · · · · ·
Infiltration, Lymphocytic		· · · · · · · · · · · · · · · ·
Granuloma		· · · · · · · · · · · · · · · ·
TRACHEA;		N N N N N + N N N N N N N N
Infiltration; Lymphohistiocytic		· · · · · · · · · · · · · · · ·
Infiltration; mixed		· · · · · · · · · · · · · · · ·
Infiltration, Lymphocytic		· · · · · · · · · · · · · · · ·
URINARY BLADDER;		N N N N N N N N N N N N N N
Infiltration, Lymphocytic		· · · · · · · · · · · · · · · ·
UTERUS;		N N N N N N N N N N N N N N
Dilation		· · · · · · · · · · · · · · · ·
VAGINA;		N + N + + N N N N + + N N N
Keratinization; epithelial		· 1 . 2 2 . . . 2 2 2 . . .

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SEX: FEMALE	REMOVAL REASON	GROUP 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
		T T T T T T T T T T T T T T T T
	ANIMAL	1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2
	NUMBER	9 9 9 0 0 0 0 0 0 0 0 0 0 0 0 1
		6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
ESOPHAGUS; .....	.....	N N N N N N N N N N N N N N N N
EYE, LEFT; .....	macrophage; Pigmentation; brown .....	N N N N N N N N N N N N N N N N
EYE, RIGHT; .....	.....	N N N N N N N N N N N N N N N N
HARDERIAN GLAND, LEFT; .....	Infiltration, Lymphocytic .....	N N N N N N N N + N N N N
	Infiltration; lymphohistiocytic .....	.....
	Infiltration; mixed .....	.....
	Inflammation; granulomatous .....	.....
	Inflammation; purulent .....	.....
	Inflammation, Chronic .....	.....
	macrophage; Pigmentation; brown .....	.....
HARDERIAN GLAND, RIGHT; .....	.....	N N N + + N N N N + + N N N N
	Infiltration, Lymphocytic .....	.....
	Infiltration; mixed .....	.....
	Inflammation, Chronic .....	.....
HEART; .....	.....	N N N N N N N N N N N N N N N N
	Infiltration; lymphohistiocytic .....	.....
	Infiltration; mixed .....	.....
	Infiltration, Lymphocytic .....	.....
INFECTION SITE I; .....	.....	+ + + + + + + + + + + + + + + +
	Hemorrhage .....	.....
	Inflammation; granulomatous .....	.....
	Inflammation; lymphohistiocytic .....	.....
	Inflammation; mixed .....	.....
	Inflammation; vascular .....	.....

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### Tabulated Animal Data

GROUP 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7  
 REMOVAL REASON T T T T T T T T T T T T T T T T  
 ANIMAL 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2  
 NUMBER 9 9 9 0 0 0 0 0 0 0 0 0 0 0 0 0 1  
 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

---

INJECTION SITE I; (Continued)  
 Foreign Material; hair .....  
 Hyperplasia; epidermal .....  
 Scab; epidermal .....  
 Postule; epidermal .....  
 myofiber; Necrosis .....  
 myofiber; Degeneration .....  
 dermis; subcutis; Inflammation;  
 lymphohistiocytic .....  
 dermis; epidermis; Inflammation; neutrophilic .....  
 subcutis; Inflammation; mixed .....  
 subcutis; Edema .....  
 intramuscular / interstitial; Fibrosis .....  
 intramuscular / interstitial; Inflammation;  
 lymphohistiocytic .....  
 intramuscular / interstitial; Inflammation;  
 mixed .....  
 intramuscular / interstitial; Edema .....  
 inter- / perimuscular; Fibrosis .....  
 inter- / perimuscular; Inflammation; mixed .....  
 inter- / perimuscular; Inflammation;  
 lymphohistiocytic .....  
 inter- / perimuscular; Edema .....  
 epidermis; Ulceration .....  
 INJECTION SITE II; .....  
 Hyperplasia; epidermal .....  
 Inflammation; lymphohistiocytic .....  
 Inflammation; mixed .....  
 myofiber; Degeneration .....  
 muscle; Regeneration .....  
 1

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SEX: FEMALE	REMOVAL REASON T T T T T T T T T T T T T T	GROUP 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
subcutis; Edema .....	.....	4 3 3 2 4 3 1 1 3 4 .. . . . .
subcutis; Inflammation; mixed .....	.....	3 3 3 3 3 2 2 3 3 .. . . .
inter- / perimuscular; Edema .....	.....	4 3 3 3 4 4 2 2 3 4 .. . . .
inter- / perimuscular; Fibrosis .....	.....	2 2 2 2 2 2 2 2 1 1 .. . . .
inter- / perimuscular; Inflammation; mixed .....	.....	3 3 3 3 3 3 3 3 3 .. . . .
inter- / perimuscular; Inflammation; lymphohistiocytic .....	.....	.. . . . . . . . . . . . . . . .
intramuscular / interstitial; Edema .....	.....	2 2 2 2 2 1 1 2 2 .. . . .
intramuscular / interstitial; Fibrosis .....	.....	2 2 2 2 2 2 2 2 2 1 .. . .
intramuscular / interstitial; Inflammation; lymphohistiocytic .....	.....	.. . . . . . . . . . . . . . . .
intramuscular / interstitial; Inflammation; mixed .....	.....	2 2 3 2 2 2 2 2 2 .. . . .
dermis; subcutis; Fibrosis .....	.....	.. . . . . . . . . . . . . . . .
INTESTINE, CECUM; Eosinophilic; increased .....	.....	N N + N N N N N N N N N N N N
Infiltration, Eosinophilic tissue; Hyperplasia .. . . . .	.....	.. . . . . . . . . . . . . . . .
INTESTINE, COLON; Eosinophilic; increased .....	.....	N N + N N N N N N N N N N N N
Infiltration, Eosinophilic tissue; Hyperplasia .. . . . .	.....	.. . . . . . . . . . . . . . . .
INTESTINE, DUODENUM; .. . . . .	.....	N N N N N N N N N N N N N N
INTESTINE, ILEUM; .. . . . .	.....	N N N N N N N N N N N N N N
INTESTINE, JEJUNUM; .. . . . .	.....	N N N N N N N N N N N N N N

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SEX: FEMALE	REMOVAL REASON	GROUP	ANIMAL	NUMBER
	Hemorrhage; acute .....	7 7 7 7 7 7 7	1 1 1 2 2 2 2	9 9 9 0 0 0 0
	Infiltration, Lymphocytic .....	7 7 7 7 7 7 7	2 2 2 2 2 2 2	0 0 0 0 0 0 0
	Granuloma .....	7 7 7 7 7 7 7	2 2 2 2 2 2 2	0 1
		6 7 8 9 0 1 2 3	4 5 6 7 8 9 0	
TONGUE;		N N N N N N N N N N N N N N		
	Hemorrhage; acute .....	.. . . . . . . . . . . .		
	Infiltration, Lymphocytic .....	.. . . . . . . . . . . .		
	Granuloma .....	.. . . . . . . . . . . .		
TRACHEA;		N N N N N N N N N N + N N		
	Infiltration; Lymphohistiocytic .....	.. . . . . . . . . . . .		
	Infiltration; mixed .....	.. . . . . . . . . . . .		
	Infiltration, Lymphocytic .....	.. . . . . . . . . . . .		
URINARY BLADDER;		N N N + N N N N N N N N		
	Infiltration, Lymphocytic .....	.. . . . . . . . . . . .		
UTERUS;		N N + N N N N N N N N N N		
	Dilation .....	.. . . . . . . . . . . .		
VAGINA;	Keratinization; epithelial .....	N N + + N N N + N N + +		
		.. . . 2 1 . . . 2 . . 1 2		

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Tabulated Animal Data

Key Page

Group Code	Description
1	Group 1: Control
2	Group 2: 30 µg BNT162a1
3	Group 3: 10 µg BNT162a1
4	Group 4: 30 µg BNT162b1
5	Group 5: 100 µg BNT162b1
6	Group 6: 30 µg BNT162c1
7	Group 7: 100 µg BNT162b2

Removal Reason Code	Description
Term	Killed Terminal

Tissue Result Code	Description
N	Normal
.	Not Recorded
+	Tissue Observation Present
X	Not Examined

Grade Code	Description
.	not recorded
1	minimal
2	mild
3	moderate
4	marked
#	duplicate
P	present - no grade or classification

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## Individual Animal Data

Animal:	1	Group:	1 - Group 1	Sex:	Male
		Dose:	Group 1: Control		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : Dilatation; vascular, minimal  
 EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal  
 EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal  
 INJECTION SITE I : Inflammation; lymphohistiocytic, multifocal, minimal  
 INJECTION SITE II : Inflammation; lymphohistiocytic, focal, mild  
 KIDNEY, LEFT : Congestion; mild  
 KIDNEY, RIGHT : Congestion; mild  
 LIVER : Congestion; moderate  
 LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
 LYMPH NODE, CERVICAL : Histiocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
 LYMPH NODE, ILIAC : Histiocytosis; mild  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
 SPLEEN : Congestion; minimal  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
 THYMUS : Hemorrhage; acute, focal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	2	Group:	1 - Group 1	Sex:	Male
		Dose:	Group 1: Control		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

NJECTION SITE II : Inflammation; mixed, focal, mild

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal

LYMPH NODE, ILIAC : Histiocytosis; mild

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PANCREAS : acinar cell: Hyperplasia; focal, mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild

TRACHEA : Infiltration; lymphohistiocytic, multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

PARATHYROID, LEFT - Not Present

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	3	Group:	1 - Group 1	Sex:	Male
		Dose:	Group 1: Control		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal  
 NTTEST NE, RECTUM : mucosa-associated lymphoid tissue; Hyperplasia; mild  
 K DNEY, LEFT : Congestion; moderate  
 K DNEY, RIGHT : Congestion; moderate  
 LIVER : Congestion; moderate  
 LIVER : Infiltration, Lymphocytic; multifocal, minimal  
 LUNGS WITH BRONCHI : Hemorrhage; acute, focal, minimal  
 LUNGS WITH BRONCHI : perivascular; Infiltration, Eosinophilic; multifocal, minimal  
 LYMPH NODE, CERVICAL : Histiocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
 LYMPH NODE, ILIAC : Histiocytosis; minimal  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; minimal  
 LYMPH NODE, MESENTERIC : Histiocytosis; minimal  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; minimal  
 PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
 SPLEEN : Congestion; minimal  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	4	Group:	1 - Group 1	Sex:	Male
		Dose:	Group 1: Control		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

K DNEY, RIGHT : Congestion; moderate

LIVER : Congestion; mild

LIVER : Vacuolation; hepatocellular, multifocal, mild

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal

LYMPH NODE, ILIAC : Histiocytosis; minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity; minimal

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

PARATHYROID, LEFT - Not Present

PARATHYROID, RIGHT - Not Present

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	5	Group:	1 - Group 1	Sex:	Male
		Dose:	Group 1: Control		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; moderate

LIVER : Congestion; mild

LIVER : Infiltration; mixed, multifocal, mild

LUNGS WITH BRONCHI : perivascular; Infiltration, Eosinophilic; multifocal, minimal

LUNGS WITH BRONCHI : macrophage; Pigmentation; brown, focal, minimal

LYMPH NODE, ILIAC : Histiocytosis; mild

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild

LYMPH NODE, MESENTERIC : Histiocytosis; minimal

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

THYMUS : Hemorrhage; acute, focal, minimal

TRACHEA : Infiltration; lymphohistiocytic, focal, minimal

TRACHEA : macrophage; Pigmentation; brown, focal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

LYMPH NODE, CERVICAL - Not Present

MAMMARY GLANDS - Not Present

PARATHYROID, LEFT - Not Present

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	6	Group:	1 - Group 1	Sex:	Male
		Dose:	Group 1: Control		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal  
 EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal  
 NJECTION SITE I : Inflammation; lymphohistiocytic, multifocal, minimal  
 NJECTION SITE I : myofiber; Degeneration; multifocal, minimal  
 NJECTION SITE I : muscle; Regeneration; multifocal, minimal  
 NJECTION SITE II : Inflammation; lymphohistiocytic, focal, minimal  
 K DNEY, LEFT : Congestion; moderate  
 K DNEY, RIGHT : Congestion; moderate  
 LIVER : Congestion; moderate  
 LIVER : Hematopoiesis; extramedullary, multifocal, minimal  
 LIVER : Infiltration, Lymphocytic; multifocal, minimal  
 LUNGS WITH BRONCHI : Hemorrhage; acute, multifocal, mild  
 LYMPH NODE, CERVICAL : Histiocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal  
 LYMPH NODE, ILIAC : Histiocytosis; mild  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; minimal  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 PROSTATE GLAND : Inflammation; purulent, focal, mild  
 SPLEEN : Congestion; minimal  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild  
 TRACHEA : Infiltration, Lymphocytic; multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

PEYERS PATCHES - Not Present

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	7	Group:	1 - Group 1	Sex:	Male
		Dose:	Group 1: Control		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

LUNGS WITH BRONCHI : Emphysematous (TGL)

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

HARDERIAN GLAND, LEFT : Infiltration, Lymphocytic; multifocal, minimal

HARDERIAN GLAND, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

INJECTION SITE I : Inflammation; lymphohistiocytic, multifocal, minimal

INJECTION SITE II : Inflammation; lymphohistiocytic, focal, minimal

TESTIS, COLON : mucosa-associated lymphoid tissue; Hyperplasia; moderate

KIDNEY, LEFT : Congestion; moderate

KIDNEY, RIGHT : Congestion; mild

LIVER : Congestion; moderate

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LUNGS WITH BRONCHI : Hemorrhage; acute, multifocal, minimal

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal

LYMPH NODE, ILIAC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : Histiocytosis; minimal

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

PROSTATE GLAND : Infiltration, Lymphocytic; multifocal, mild

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

TRACHEA : Infiltration; lymphohistiocytic, multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

PARATHYROID, LEFT - Not Present

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	8	Group:	1 - Group 1	Sex:	Male
		Dose:	Group 1: Control		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, RIGHT : Dilation; vascular, minimal  
 EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal  
 NJECTION SITE I : Inflammation; lymphohistiocytic, focal, minimal  
 NJECTION SITE II : Inflammation; lymphohistiocytic, multifocal, minimal  
 K DNEY, LEFT : Congestion; mild  
 K DNEY, LEFT : Infiltration, Lymphocytic; focal, minimal  
 K DNEY, RIGHT : Congestion; mild  
 LIVER : Congestion; moderate  
 LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
 LYMPH NODE, ILIAC : Histiocytosis; mild  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
 LYMPH NODE, MESENTERIC : Histiocytosis; minimal  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
 SPLEEN : Congestion; minimal  
 THYROID, LEFT : Cyst; keratinized, single, minimal  
 THYROID, RIGHT : Cyst; keratinized, single, minimal  
 TONGUE : In filtration, Lymphocytic; focal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

LYMPH NODE, CERVICAL - Not Present

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	9	Group:	1 - Group 1	Sex:	Male
		Dose:	Group 1: Control		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

THYMUS : Discolouration; reddened (TGL)

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

INJECTION SITE I : Inflammation; lymphohistiocytic, multifocal, minimal

K DNEY, LEFT : Congestion; moderate

KIDNEY, LEFT : tubule; Basophilia; focal, mild

K DNEY, LEFT : Infiltration, Lymphocytic; multifocal, minimal

K DNEY, RIGHT : Congestion; moderate

LIVER : Congestion; mild

LIVER : Hematopoiesis; extramedullary, multifocal, minimal

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal

LYMPH NODE, ILIAC : Histiocytosis; mild

LYMPH NODE, LIAC : Infiltration, Eosinophilic; minimal

LYMPH NODE, MESENTERIC : Histiocytosis; minimal

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PROSTATE GLAND : Infiltration, Lymphocytic; multifocal, mild

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; moderate

THYMUS : Hemorrhage; acute, multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

PEYERS PATCHES - Not Present

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	10	Group:	1 - Group 1	Sex:	Male
		Dose:	Group 1: Control		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

HARDERIAN GLAND, RIGHT : Infiltration, Lymphocytic; focal, minimal

INJECTION SITE I : Inflammation; lymphohistiocytic, focal, minimal

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LIVER : Necrosis; focal, mild

LIVER : Infiltration, Neutrophilic; focal, mild

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LUNGS WITH BRONCHI : Hemorrhage; acute, multifocal, mild

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, ILIAC : Histiocytosis; minimal

LYMPH NODE, MESENTERIC : Histiocytosis; minimal

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild

STOMACH, GLANDULAR : Cyst; single, minimal

TRACHEA : Infiltration; mixed, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	11	Group:	1 - Group 1	Sex:	Male
		Dose:	Group 1: Control		
Death Date:	23/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	23/04/2020	Study Day (Week) of Death:	38 (6)	Histo Recorder:	(b) (4), (b) (6)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

NTEST NE, CECUM : mucosa-associated lymphoid tissue; Hyperplasia; mild

K DNEY, LEFT : Congestion; moderate

LIVER : Congestion; mild

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, ILIAC : Histiocytosis; minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild

LYMPH NODE, MESENTERIC : Histiocytosis; minimal

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

SPLEEN : Congestion; mild

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

THYMUS : Hemorrhage; acute, focal, minimal

TRACHEA : (Comment) artefacts

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

PARATHYROID, LEFT - Not Present

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	12	Group:	1 - Group 1	Sex:	Male
		Dose:	Group 1: Control		
Death Date:	23/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	23/04/2020	Study Day (Week) of Death:	38 (6)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal  
 NTTEST NE, RECTUM : mucosa-associated lymphoid tissue; Hyperplasia; mild  
 K DNEY, LEFT : Congestion; moderate  
 K DNEY, RIGHT : Congestion; moderate  
 LIVER : Congestion; moderate  
 LIVER : Infiltration, Lymphocytic; multifocal, minimal  
 LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
 LYMPH NODE, CERVICAL : Histiocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; moderate  
 LYMPH NODE, ILIAC : Histiocytosis; mild  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
 LYMPH NODE, MESENTERIC : Histiocytosis; minimal  
 PEYERS PATCHES : Mineralization; focal, minimal  
 PEYERS PATCHES : Inflammation, Granulomatous; follicular, focal, mild  
 PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
 PITUITARY GLAND : pars intermedia; Cyst; minimal  
 SPLEEN : Congestion; minimal  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild  
 THYROID, LEFT : Cyst; keratinized, single, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

PARATHYROID, RIGHT - Not Present

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	13	Group:	1 - Group 1	Sex:	Male
		Dose:	Group 1: Control		
Death Date:	23/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	23/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, RIGHT : Dilation; vascular, minimal  
 EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal  
 EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal  
 EYE, LEFT : (Comment) artefacts  
 K DNEY, LEFT : Congestion; mild  
 K DNEY, RIGHT : Congestion; mild  
 LIVER : Congestion; moderate  
 LIVER : Infiltration, Lymphocytic; multifocal, minimal  
 LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
 LYMPH NODE, CERVICAL : Histocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
 LYMPH NODE, LIAC : Histiocytosis; minimal  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
 LYMPH NODE, MESENTERIC : Histiocytosis; minimal  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

PARATHYROID, LEFT - Not Present

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	14	Group:	1 - Group 1	Sex:	Male
		Dose:	Group 1: Control		
Death Date:	23/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	23/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

No observations found

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

ADRENAL GLAND, LEFT : Dilation; vascular, minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

K DNEY, LEFT : Congestion; moderate

K DNEY, LEFT : Infiltration, Lymphocytic; multifocal, minimal

KIDNEY, RIGHT : Congestion; moderate

K DNEY, RIGHT : Infiltration, Lymphocytic; focal, minimal

LIVER : Congestion; moderate

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, LIAC : Histiocytosis; minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity; minimal

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

SPLEEN : Congestion; mild

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

TESTIS, LEFT : Spermatid Giant Cells; single, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PEYERS PATCHES - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 305**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	15	Group:	1 - Group 1	Sex:	Male
		Dose:	Group 1: Control		
Death Date:	23/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	23/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

TESTIS, RIGHT : Enlarged (TGL) [TESTIS, RIGHT : Dilatation; tubular, moderate (H)]

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

K DNEY, LEFT : Congestion; moderate

KIDNEY, LEFT : tubule; Basophilia; focal, minimal

K DNEY, LEFT : Infiltration, Lymphocytic; multifocal, minimal

K DNEY, RIGHT : Congestion; moderate

LIVER : Congestion; mild

LIVER : periportal; Vacuolation; hepatocellular, minimal

LUNGS WITH BRONCHI : perivascular; Infiltration, Eosinophilic; multifocal, minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, ILIAC : Histiocytosis; mild

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

TESTIS, LEFT : Dilatation; tubular, mild

TESTIS, RIGHT : Dilatation; tubular, moderate [TESTIS, RIGHT : Enlarged (G)]

TESTIS, RIGHT : Infiltration; lymphoplasmacytic, focal, moderate

TESTIS, RIGHT : Spermatocoele; single, minimal

THYMUS : Hemorrhage; acute, multifocal, minimal

TRACHEA : (Comment) artefacts

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, LEFT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	16	Group:	1 - Group 1	Sex:	Female
		Dose:	Group 1: Control		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

CERVIX : Keratinization; epithelial, mild  
 INJECTION SITE I : Inflammation; lymphohistiocytic, multifocal, minimal  
 K DNEY, LEFT : Congestion; moderate  
 K DNEY, RIGHT : Congestion; moderate  
 LIVER : Congestion; moderate  
 LIVER : Infiltration, Lymphocytic; multifocal, minimal  
 LYMPH NODE, CERVICAL : Histiocytosis; minimal  
 LYMPH NODE, ILIAC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 PEYERS PATCHES : germinal center; Increased Cellularity; mild  
 SPLEEN : Congestion; minimal  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
 TRACHEA : (Comment) artefacts  
 VAGINA : Keratinization; epithelial, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	17	Group:	1 - Group 1	Sex:	Female
		Dose:	Group 1: Control		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

INJECTION SITE I : Hemorrhage; focal, mild

INJECTION SITE I : Inflammation; mixed, focal, minimal

INJECTION SITE II : myofiber; Degeneration; focal, minimal

INJECTION SITE II : Inflammation; mixed, multifocal, mild

K DNEY, LEFT : Congestion; moderate

K DNEY, LEFT : Infiltration, Lymphocytic; focal, minimal

K DNEY, RIGHT : Congestion; moderate

K DNEY, RIGHT : Infiltration, Lymphocytic; multifocal, mild

K DNEY, RIGHT : pelvis; Inflammation; purulent, mild

LIVER : Congestion; mild

LIVER : Hematopoiesis; extramedullary, multifocal, minimal

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LUNGS WITH BRONCHI : perivascular; Infiltration, Eosinophilic; multifocal, minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, ILIAC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; mild

SPLEEN : Congestion; mild

STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild

THYMUS : Hemorrhage; acute, multifocal, mild

TRACHEA : Infiltration; mixed, minimal

URINARY BLADDER : Infiltration, Lymphocytic; focal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	18	Group:	1 - Group 1	Sex:	Female
		Dose:	Group 1: Control		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : (Comment) artefacts

ADRENAL GLAND, RIGHT : (Comment) artefacts

CERVIX : Keratinization; epithelial, mild

INJECTION SITE I : Inflammation; lymphohistiocytic, focal, minimal

INJECTION SITE I : Foreign Material; hair, focal, minimal

KIDNEY, LEFT : Congestion; moderate

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LYMPH NODE, CERVICAL : Histocytosis; mild

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, LIAC : Histiocytosis; minimal

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PANCREAS : acinar cell; Atrophy; focal, minimal

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild

THYMUS : Hemorrhage; acute, multifocal, minimal

VAGINA : Keratinization; epithelial, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	19	Group:	1 - Group 1	Sex:	Female
		Dose:	Group 1: Control		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

K DNEY, LEFT : Congestion; mild

K DNEY, RIGHT : Congestion; mild

LIVER : Congestion; moderate

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal

LYMPH NODE, ILIAC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; mild

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

THYMUS : Hemorrhage; acute, multifocal, minimal

TONGUE : Infiltration, Lymphocytic; focal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

PARATHYROID, RIGHT - Not Present

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	20	Group:	1 - Group 1	Sex:	Female
		Dose:	Group 1: Control		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

INJECTION SITE I : Inflammation; granulomatous, focal, minimal

INJECTION SITE II : muscle; Regeneration; focal, minimal

INJECTION SITE II : Inflammation; lymphohistiocytic, multifocal, minimal

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LIVER : Hematopoiesis; extramedullary, multifocal, minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, ILIAC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

THYMUS : Hemorrhage; acute, multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	21	Group:	1 - Group 1	Sex:	Female
		Dose:	Group 1: Control		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

EYE, LEFT : macrophage; Pigmentation: brown, focal, mild

HEART : (Comment) artefacts

NJECTION SITE II : Inflammation; lymphohistiocytic, focal, minimal

NTTEST NE, RECTUM : mucosa-associated lymphoid tissue; Hyperplasia; minimal

K DNEY, LEFT : Congestion; moderate

KIDNEY, LEFT : tubule; Basophilia; focal, minimal

K DNEY, RIGHT : Congestion; moderate

LIVER : Congestion; mild

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, ILIAC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

THYMUS : Hemorrhage; acute, multifocal, minimal

VAGINA : Keratinization; epithelial, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	22	Group:	1 - Group 1	Sex:	Female
		Dose:	Group 1: Control		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, RIGHT : Dilation; vascular, minimal

INJECTION SITE II : Inflammation; lymphohistiocytic, multifocal, minimal

K DNEY, LEFT : Congestion; mild

K DNEY, RIGHT : Congestion; mild

LIVER : Congestion; moderate

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; moderate

LYMPH NODE, ILIAC : Histiocytosis; mild

LYMPH NODE, ILIAC : germinal center; Increased Cellularity; minimal

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

SPLEEN : Congestion; mild

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

THYROID, LEFT : Cyst; keratinized, single, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	23	Group:	1 - Group 1	Sex:	Female
		Dose:	Group 1: Control		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; moderate

LIVER : Congestion; minimal

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal

LYMPH NODE, ILIAC : Histiocytosis; mild

LYMPH NODE, ILIAC : germinal center; Increased Cellularity; minimal

SKELETAL MUSCLE : Infiltration, Lymphocytic; focal, minimal

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

SPLEEN : Congestion; mild

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

THYMUS : Hemorrhage; acute, multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

LYMPH NODE, MESENTERIC - Not Present

SALIVARY GLANDS, SUBLINGUAL - Not Present

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	24	Group:	1 - Group 1	Sex:	Female
		Dose:	Group 1: Control		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; moderate

LIVER : Congestion; mild

LIVER : Hematopoiesis; extramedullary, multifocal, minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, LIAC : Hemorrhage; acute, mild

LYMPH NODE, LIAC : germinal center; Increased Cellularity; minimal

LYMPH NODE, MESENTERIC : Histocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	25	Group:	1 - Group 1	Sex:	Female
		Dose:	Group 1: Control		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

HARDERIAN GLAND, LEFT : Infiltration; lymphohistiocytic, focal, mild  
 INJECTION SITE I : Inflammation; lymphohistiocytic, multifocal, minimal  
 INJECTION SITE I : dermis; subcutis; Inflammation; lymphohistiocytic, multifocal, mild  
 INJECTION SITE II : Inflammation; lymphohistiocytic, focal, minimal  
 K DNEY, LEFT : Congestion; mild  
 K DNEY, RIGHT : Congestion; mild  
 LIVER : Congestion; mild  
 LYMPH NODE, CERVICAL : Histiocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal  
 LYMPH NODE, ILIAC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
 SPLEEN : Congestion; minimal  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
 THYMUS : Hemorrhage; acute, focal, minimal  
 TRACHEA : Infiltration; mixed, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	26	Group:	1 - Group 1	Sex:	Female
		Dose:	Group 1: Control		
Death Date:	23/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	23/04/2020	Study Day (Week) of Death:	38 (6)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, RIGHT : Dilation; vascular, minimal

TESTIS, RECTUM : Nematodiasis; minimal

KIDNEY, LEFT : Congestion; moderate

KIDNEY, LEFT : tubule; Basophilia; focal, minimal

KIDNEY, LEFT : tubule; Cast; hyaline, multifocal, mild

KIDNEY, LEFT : tubule; Degeneration; hyaline, focal, minimal

KIDNEY, RIGHT : Congestion; moderate

KIDNEY, RIGHT : tubule; Cast; hyaline, focal, minimal

LIVER : Congestion; moderate

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LUNGS WITH BRONCHI : Ossification; focal, minimal

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal

LYMPH NODE, LIAC : Histiocytosis; minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	27	Group:	1 - Group 1	Sex:	Female
		Dose:	Group 1: Control		
Death Date:	23/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	23/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : Dilation; vascular, minimal

CERVIX : Keratinization; epithelial, mild

HARDERIAN GLAND, RIGHT : Infiltration, Lymphocytic; focal, minimal

KIDNEY, LEFT : Congestion; moderate

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, LIAC : Histiocytosis; minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity; minimal

LYMPH NODE, MESENTERIC : Histiocytosis; minimal

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

TRACHEA : (Comment) artefacts

URINARY BLADDER : Infiltration, Lymphocytic; focal, minimal

VAGINA : Keratinization; epithelial, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	28	Group:	1 - Group 1	Sex:	Female
		Dose:	Group 1: Control		
Death Date:	23/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	23/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

No observations found

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

NTEST NE, RECTUM : Infiltration, Eosinophilic; increased, minimal

K DNEY, LEFT : Congestion; mild

K DNEY, RIGHT : Congestion; mild

LIVER : Congestion; mild

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal

LYMPH NODE, ILIAC : Histiocytosis; minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity; minimal

LYMPH NODE, MESENTERIC : Histiocytosis; minimal

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

STOMACH, GLANDULAR : Cyst; single, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

OPTIC NERVE, LEFT - Insufficient Tissue To Evaluate

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	29	Group:	1 - Group 1	Sex:	Female
		Dose:	Group 1: Control		
Death Date:	23/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	23/04/2020	Study Day (Week) of Death:	38 (6)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : Dilatation; vascular, minimal

KIDNEY, LEFT : Congestion; moderate

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LYMPH NODE, CERVICAL : Histocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, LIAC : Histiocytosis; minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

PARATHYROID, RIGHT - Not Present

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	30	Group:	1 - Group 1	Sex:	Female
		Dose:	Group 1: Control		
Death Date:	23/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	23/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : Dilation; vascular, minimal

KIDNEY, LEFT : Congestion; moderate

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LUNGS WITH BRONCHI : Hemorrhage; acute, focal, minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, LIAC : Histiocytosis; minimal

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; mild

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

THYMUS : Hemorrhage; acute, multifocal, mild

TRACHEA : (Comment) artefacts

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

PARATHYROID, LEFT - Not Present

PARATHYROID, RIGHT - No Section

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	31	Group:	2 - Group 2	Sex:	Male
		Dose:	Group 2: 30 µg/BNT162a1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) [INJECTION SITE I : subcutis; Edema; moderate (H) | INJECTION SITE I : inter- / perimuscular; Edema; moderate (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis; mild (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis; mild (H) | INJECTION SITE I : subcutis; Inflammation; mixed, moderate (H) | INJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate (H)]

SPLEEN : Enlarged (TGL)

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

HEART : Infiltration, Lymphocytic; multifocal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis; mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : subcutis; Inflammation; mixed, moderate [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, moderate [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : myofiber; Degeneration; mild

NJECTION SITE I : subcutis; Edema; moderate [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Edema; moderate [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : Hyperplasia; epidermal, mild

NTEST NE, RECTUM : (Comment) artefacts

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, ILIAC : Plasmacytosis; mild

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

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Animal:	31 (Continued)	Group:	2 - Group 2	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

STOMACH, GLANDULAR : Dilatation; glandular, multifocal, minimal

THYMUS : Hemorrhage; acute, multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	32	Group:	2 - Group 2	Sex:	Male
		Dose:	Group 2: 30 µg/BNT162a1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, mild (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H)

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity: minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Indurated (G) ]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Indurated (G) ]

NJECTION SITE I : subcutis; Inflammation: mixed, moderate [ NJECTION SITE I : Indurated (G) ]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild [ NJECTION SITE I : Indurated (G) ]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, mild [ NJECTION SITE I : Indurated (G) ]

NJECTION SITE I : myofiber; Degeneration: mild

NJECTION SITE I : inter- / perimuscular; Edema: mild

NJECTION SITE I : Hyperplasia: epidermal, mild

NJECTION SITE II : Hyperplasia: epidermal, focal, moderate

NJECTION SITE II : subcutis; Edema: focal, mild

NJECTION SITE II : intramuscular / interstitial; Fibrosis: focal, mild

NJECTION SITE II : inter- / perimuscular; Fibrosis: focal, mild

NJECTION SITE II : subcutis; Inflammation: mixed, focal, mild

NJECTION SITE II : intramuscular / interstitial; Inflammation: mixed, multifocal, minimal

NJECTION SITE II : inter- / perimuscular; Inflammation: mixed, focal, mild

K DNEY, LEFT : Congestion: moderate

K DNEY, RIGHT : Congestion: moderate

LIVER : Congestion: moderate

LUNGS WITH BRONCHI : Hemorrhage: acute, multifocal, mild

LYMPH NODE, CERVICAL : Histiocytosis: mild

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity: mild

LYMPH NODE, ILIAC : Histiocytosis: minimal

LYMPH NODE, LIAC : Inflammation: minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity: minimal

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

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Animal: 32 (Continued) Group: 2 - Group 2 Sex: Male

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**Histopathology Observations [Correlation] (Continued):**

LYMPH NODE, MESENTERIC : Histocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
NERVE, SCIATIC : perineural; Inflammation; moderate  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
THYMUS : Hemorrhage; acute, multifocal, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, RIGHT - Not Present  
PEYERS PATCHES - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	33	Group:	2 - Group 2	Sex:	Male
		Dose:	Group 2: 30 µg/BNT162a1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild (H) | NJECTION SITE I : inter- / perimuscular; Fibrosis; mild (H) | NJECTION SITE I : inter- / perimuscular; Edema; moderate (H) | NJECTION SITE I : subcutis; Edema; moderate (H) | NJECTION SITE I : subcutis; Inflammation; mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate (H)]

NJECTION SITE I : Thickened (TGL) | NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild (H) | NJECTION SITE I : inter- / perimuscular; Fibrosis; mild (H) | NJECTION SITE I : inter- / perimuscular; Edema; moderate (H) | NJECTION SITE I : subcutis; Edema; moderate (H) | NJECTION SITE I : subcutis; Inflammation; mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate (H)]

LYMPH NODE, LIAC : Enlarged (TGL)

PROSTATE GLAND : Reduced In Size (TGL)

SEMINAL VESICLES : Reduced In Size (TGL)

ADRENAL GLAND, LEFT : Enlarged (TGL)

ADRENAL GLAND, RIGHT : Enlarged (TGL)

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

ADRENAL GLAND, RIGHT : Dilation; vascular, minimal

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscles (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis; mild | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscles (G)]

NJECTION SITE I : subcutis; Inflammation; mixed, moderate | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscles (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, moderate | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscles (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscles (G)]

NJECTION SITE I : myofiber; Degeneration; mild

NJECTION SITE I : subcutis; Edema; moderate | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscles (G)]

NJECTION SITE I : inter- / perimuscular; Edema; moderate | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscles (G)]

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	33 (Continued)	Group:	2 - Group 2	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

NJECTION SITE I : Hyperplasia; epidermal, moderate  
K DNEY, LEFT : Congestion; moderate  
KIDNEY, LEFT : tubule; Basophilia; focal, minimal  
KIDNEY, RIGHT : Congestion; moderate  
LIVER : Congestion; mild  
LIVER : Hematopoiesis; extramedullary, multifocal, minimal  
LUNGS WITH BRONCHI : Ossification; focal, minimal  
LUNGS WITH BRONCHI : Hemorrhage; acute, multifocal, minimal  
LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
LYMPH NODE, CERVICAL : Histocytosis; minimal  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, LIAC : Histiocytosis; minimal  
LYMPH NODE, ILIAC : Plasmacytosis; mild  
LYMPH NODE, LIAC : Inflammation; minimal  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
PEYERS PATCHES : germinal center; Increased Cellularity; mild  
PITUITARY GLAND : pars distalis; Cyst; single, minimal  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
THYMUS : Hemorrhage; acute, multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	34	Group:	2 - Group 2	Sex:	Male
		Dose:	Group 2: 30 µg/BNT162a1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: minimal (H) | NJECTION SITE I : subcutis; Inflammation: mixed, focal, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, mild (H)

NJECTION SITE I : Thickened (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: minimal (H) | NJECTION SITE I : subcutis; Inflammation: mixed, focal, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, mild (H)

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity: minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis: minimal | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)

NJECTION SITE I : subcutis; Inflammation: mixed, focal, moderate | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, mild | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)

NJECTION SITE I : Hyperkeratosis; epidermal, focal, moderate

NJECTION SITE I : Hyperplasia; epidermal, focal, moderate

NJECTION SITE II : myofiber; Degeneration; mild

NJECTION SITE II : Hyperplasia; epidermal, widespread, moderate

NJECTION SITE II : subcutis; Edema; moderate

NJECTION SITE II : inter- / perimuscular; Edema; mild

NJECTION SITE II : myofiber; Necrosis; focal, minimal

NJECTION SITE II : intramuscular / interstitial; Fibrosis: mild

NJECTION SITE II : inter- / perimuscular; Fibrosis: mild

NJECTION SITE II : subcutis; Inflammation: mixed, moderate

NJECTION SITE II : intramuscular / interstitial; Inflammation: mixed, moderate

NJECTION SITE II : inter- / perimuscular; Inflammation: mixed, moderate

K DNEY, LEFT : Congestion; mild

K DNEY, RIGHT : Congestion; mild

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	34 (Continued)	Group:	2 - Group 2	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

LIVER : Congestion; mild  
LIVER : Hematopoiesis; extramedullary, multifocal, minimal  
LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
LYMPH NODE, CERVICAL : Histocytosis; mild  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, ILIAC : Histiocytosis; mild  
LYMPH NODE, ILIAC : Plasmacytosis; minimal  
LYMPH NODE, LIAC : Inflammation; minimal  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
NERVE, SCIATIC : perineural; Inflammation; moderate  
PEYERS PATCHES : Mineralization; multifocal, mild  
PEYERS PATCHES : germinal center; Increased Cellularity; mild  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
THYMUS : Hemorrhage; acute, multifocal, minimal  
THYROID, RIGHT : (Comment) incomplete

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

OPTIC NERVE, RIGHT - Not Present  
PARATHYROID, RIGHT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	35	Group:	2 - Group 2	Sex:	Male
		Dose:	Group 2: 30 µg/BNT162a1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

INJECTION SITE I : Indurated (TGL) [INJECTION SITE I : subcutis; Edema; moderate (H) | INJECTION SITE I : inter- / perimuscular; Edema; moderate (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis; mild (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis; mild (H) | INJECTION SITE I : subcutis; Inflammation; mixed, moderate (H) | INJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
 EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal  
 EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal  
 INJECTION SITE I : intramuscular / interstitial; Fibrosis; mild [ INJECTION SITE I : Indurated (G) ]  
 INJECTION SITE I : inter- / perimuscular; Fibrosis; mild [ INJECTION SITE I : Indurated (G) ]  
 INJECTION SITE I : subcutis; Inflammation; mixed, moderate [INJECTION SITE I : Indurated (G)]  
 INJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, moderate [INJECTION SITE I : Indurated (G)]  
 INJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate [ INJECTION SITE I : Indurated (G) ]  
 INJECTION SITE I : myofiber; Degeneration; mild  
 INJECTION SITE I : subcutis; Edema; moderate [INJECTION SITE I : Indurated (G)]  
 INJECTION SITE I : inter- / perimuscular; Edema; moderate [ INJECTION SITE I : Indurated (G) ]  
 INJECTION SITE I : Hyperplasia; epidermal, widespread, moderate  
 K DNEY, LEFT : Congestion; mild  
 K DNEY, RIGHT : Congestion; mild  
 LIVER : (Comment) artefacts  
 LIVER : Congestion; mild  
 LIVER : Hematopoiesis; extramedullary, multifocal, minimal  
 LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
 LYMPH NODE, CERVICAL : Histiocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal  
 LYMPH NODE, ILIAC : Histiocytosis; minimal  
 LYMPH NODE, ILIAC : Plasmacytosis; minimal  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 PROSTATE GLAND : Infiltration; mixed, mild

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

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Animal: 35 (Continued) Group: 2 - Group 2 Sex: Male

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**Histopathology Observations [Correlation] (Continued):**

SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

AORTA ABDOMINALIS - Not Present  
PEYERS PATCHES - Not Present  
URINARY BLADDER - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	36	Group:	2 - Group 2	Sex:	Male
		Dose:	Group 2: 30 µg/BNT162a1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) [INJECTION SITE I : subcutis; Edema; moderate (H) | INJECTION SITE I : inter- / perimuscular; Edema; moderate (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis; mild (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis; mild (H) | NJECTION SITE I : subcutis; Inflammation; mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
 EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal  
 NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : inter- / perimuscular; Fibrosis; mild [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : subcutis; Inflammation; mixed, moderate [INJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : epidermis; Ulceration; multifocal, mild  
 NJECTION SITE I : myofiber; Degeneration; minimal  
 NJECTION SITE I : subcutis; Edema; moderate [INJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : inter- / perimuscular; Edema; moderate [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : Hyperplasia; epidermal, widespread, moderate  
 K DNEY, LEFT : Congestion; moderate  
 K DNEY, RIGHT : Congestion; moderate  
 LIVER : Congestion; minimal  
 LIVER : Hematopoiesis; extramedullary, multifocal, minimal  
 LIVER : periportal; Vacuolation; hepatocellular, minimal  
 LYMPH NODE, CERVICAL : Histocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal  
 LYMPH NODE, ILIAC : Histiocytosis; minimal  
 LYMPH NODE, LIAC : Inflammation; minimal  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate  
 LYMPH NODE, MESENTERIC : (Comment) artefacts  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 PEYERS PATCHES : germinal center; Increased Cellularity; moderate

**HISTOPATHOLOGY REPORT****PAGE: 332**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

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Animal:	36 (Continued)	Group:	2 - Group 2	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

SALIVARY GLANDS, PAROTIS : Infiltration, Lymphocytic; multifocal, mild  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Dilatation; glandular, multifocal, minimal  
THYROID, RIGHT : Cyst; keratinized, multiple, minimal  
TRACHEA : (Comment) artefacts

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PROSTATE GLAND - No Section

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 333**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	37	Group:	2 - Group 2	Sex:	Male
		Dose:	Group 2: 30 µg/BNT162a1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) [NJECTION SITE I : inter- / perimuscular; Fibrosis; mild (H) | NJECTION SITE I : subcutis; Inflammation; mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, mild (H)]  
 NJECTION SITE I : Thickened (TGL) [NJECTION SITE I : inter- / perimuscular; Fibrosis; mild (H) | NJECTION SITE I : subcutis; Inflammation; mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, mild (H)]  
 NJECTION SITE II : Incrusted (TGL) [ NJECTION SITE II : Scab; epidermal, focal, mild (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
 EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal  
 NJECTION SITE I : inter- / perimuscular; Fibrosis; mild [ NJECTION SITE I : Indurated (G) | NJECTION SITE I : Thickened (G)]  
 NJECTION SITE I : subcutis; Inflammation; mixed, moderate [NJECTION SITE I : Indurated (G) | INJECTION SITE I : Thickened (G)]  
 NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, minimal  
 NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, mild [ NJECTION SITE I : Indurated (G) | NJECTION SITE I : Thickened (G)]  
 NJECTION SITE I : dermis; subcutis; Necrosis; multifocal, mild  
 NJECTION SITE I : myofiber; Degeneration; minimal  
 NJECTION SITE I : Hyperplasia; epidermal, focal, moderate  
 NJECTION SITE II : myofiber; Degeneration; mild  
 NJECTION SITE II : Hyperplasia; epidermal, widespread, moderate  
 NJECTION SITE II : Scab; epidermal, focal, mild [ NJECTION SITE II : Incrusted (G)]  
 NJECTION SITE II : subcutis; Edema; moderate  
 NJECTION SITE II : inter- / perimuscular; Edema; moderate  
 NJECTION SITE II : myofiber; Necrosis; traumatic, focal, minimal  
 NJECTION SITE II : intramuscular / interstitial; Fibrosis; mild  
 NJECTION SITE II : inter- / perimuscular; Fibrosis; mild  
 NJECTION SITE II : subcutis; Inflammation; mixed, moderate  
 NJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, mild  
 NJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate  
 K DNEY, LEFT : Congestion; moderate  
 K DNEY, RIGHT : Congestion; moderate  
 LYMPH NODE, CERVICAL : Histocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	37 (Continued)	Group:	2 - Group 2	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

LYMPH NODE, ILIAC : Histiocytosis; mild  
LYMPH NODE, LIAC : Inflammation; mild  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; minimal  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
SPLEEN : Congestion; mild  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
THYMUS : Hemorrhage; acute, focal, minimal  
THYROID, RIGHT : Cyst; keratinized, single, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PEYERS PATCHES - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	38	Group:	2 - Group 2	Sex:	Male
		Dose:	Group 2: 30 µg/BNT162a1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild (H) | NJECTION SITE I : inter- / perimuscular; Fibrosis; mild (H) | NJECTION SITE I : subcutis; Inflammation; mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild (H)]

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

ADRENAL GLAND, LEFT : (Comment) artefacts  
 BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
 EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal  
 NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : inter- / perimuscular; Fibrosis; mild [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : subcutis; Inflammation; mixed, moderate [NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : epidermis; Ulceration; focal, moderate  
 NJECTION SITE I : myofiber; Degeneration; mild  
 NJECTION SITE I : Hyperplasia; epidermal, widespread, moderate  
 K DNEY, LEFT : Congestion; moderate  
 KIDNEY, RIGHT : Congestion; moderate  
 LIVER : Congestion; moderate  
 LYMPH NODE, CERVICAL : Histiocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal  
 LYMPH NODE, ILIAC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 SPLEEN : Congestion; minimal  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
 THYMUS : Hemorrhage; acute, multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, RIGHT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	39	Group:	2 - Group 2	Sex:	Male
		Dose:	Group 2: 30 µg/BNT162a1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) [INJECTION SITE I : subcutis; Edema: mild (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H)]

SPLEEN : Enlarged (TGL)

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : Dilation; vascular, minimal

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

EPIDIDYMYIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMYIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : myofiber; Degeneration; mild

NJECTION SITE I : subcutis; Edema: mild [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Edema: minimal

NJECTION SITE I : inter- / perimuscular; Edema: mild

NJECTION SITE II : myofiber; Degeneration; mild

NJECTION SITE II : muscle; Regeneration; mild

NJECTION SITE II : Hyperplasia; epidermal, focal, moderate

NJECTION SITE II : Scab; epidermal, focal, mild

NJECTION SITE II : dermis; subcutis; Necrosis; focal, moderate

NJECTION SITE II : Ulceration; epidermal, focal, mild

NJECTION SITE II : subcutis; Inflammation: mixed, moderate

NJECTION SITE II : intramuscular / interstitial; Inflammation: mixed, mild

NJECTION SITE II : inter- / perimuscular; Inflammation: mixed, minimal

K DNEY, LEFT : Congestion; mild

K DNEY, LEFT : Infiltration, Lymphocytic; multifocal, minimal

K DNEY, RIGHT : Congestion; mild

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	39 (Continued)	Group:	2 - Group 2	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

K DNEY, RIGHT : Infiltration, Lymphocytic; multifocal, minimal  
LIVER : Congestion; mild  
LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
LYMPH NODE, CERVICAL : Histocytosis; mild  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, ILIAC : Histiocytosis; mild  
LYMPH NODE, ILIAC : Plasmacytosis; mild  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
NERVE, SCIATIC : perineural; Inflammation; marked  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
THYMUS : Hemorrhage; acute, focal, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

OPTIC NERVE, RIGHT - Not Present  
PEYERS PATCHES - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	40	Group:	2 - Group 2	Sex:	Male
		Dose:	Group 2: 30 µg/BNT162a1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) [NJECTION SITE I : subcutis; Edema; moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema; marked (H) | NJECTION SITE I : intramuscular / interstitial; Edema; mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild (H) | NJECTION SITE I : inter- / perimuscular; Fibrosis; mild (H) | NJECTION SITE I : subcutis; Inflammation; mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, moderate (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
 EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal  
 EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal  
 NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild [ NJECTION SITE I : Indurated : (Comment) muscles (G)]  
 NJECTION SITE I : inter- / perimuscular; Fibrosis; mild [ NJECTION SITE I : Indurated : (Comment) muscles (G)]  
 NJECTION SITE I : subcutis; Inflammation; mixed, moderate [INJECTION SITE I : Indurated : (Comment) muscles (G)]  
 NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, moderate [INJECTION SITE I : Indurated : (Comment) muscles (G)]  
 NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate [NJECTION SITE I : Indurated : (Comment) muscles (G)]  
 NJECTION SITE I : myofiber; Degeneration; mild  
 NJECTION SITE I : subcutis; Edema; moderate [NJECTION SITE I : Indurated : (Comment) muscles (G)]  
 NJECTION SITE I : intramuscular / interstitial; Edema; mild [NJECTION SITE I : Indurated : (Comment) muscles (G)]  
 NJECTION SITE I : inter- / perimuscular; Edema; marked [NJECTION SITE I : Indurated : (Comment) muscles (G)]  
 NJECTION SITE I : Hyperplasia; epidermal, widespread, moderate  
 NTST NE, RECTUM : mucosa-associated lymphoid tissue; Hyperplasia; mild  
 K DNEY, LEFT : Congestion; mild  
 K DNEY, RIGHT : Congestion; mild  
 LIVER : Congestion; mild  
 LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
 LYMPH NODE, CERVICAL : Histocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
 LYMPH NODE, ILIAC : Histiocytosis; minimal  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; minimal  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

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Animal:	40 (Continued)	Group:	2 - Group 2	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

PEYERS PATCHES : germinal center; Increased Cellularity; mild

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

OPTIC NERVE, RIGHT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	41	Group:	2 - Group 2	Sex:	Male
		Dose:	Group 2: 30 µg/BNT162a1/animal		
Death Date:	23/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	23/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : Dilation; vascular, minimal

ADRENAL GLAND, RIGHT : Dilation; vascular, minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; focal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

HARDERIAN GLAND, RIGHT : Infiltration, Lymphocytic; focal, minimal

HEART : Infiltration; lymphohistiocytic, focal, minimal

INJECTION SITE I : inter- / perimuscular; Fibrosis; mild

INJECTION SITE I : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, minimal

INJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, mild

INJECTION SITE I : inter- / perimuscular; Mineralization; multifocal, minimal

INJECTION SITE I : inter- / perimuscular; Multinucleated Macrophages; multifocal, mild

NTEST NE, COLON : (Comment) artefacts

KIDNEY, LEFT : Congestion; moderate

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

LUNGS WITH BRONCHI : perivascular; Infiltration, Eosinophilic; multifocal, minimal

LYMPH NODE, CERVICAL : Histocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, ILIAC : Histiocytosis; mild

LYMPH NODE, LIAC : germinal center; Increased Cellularity; minimal

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild

TRACHEA : Infiltration, Lymphocytic; multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

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Animal:	41 (Continued)	Group:	2 - Group 2	Sex:	Male
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**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, LEFT - Not Present

PARATHYROID, RIGHT - Not Present

PEYERS PATCHES - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	42	Group:	2 - Group 2	Sex:	Male
		Dose:	Group 2: 30 µg/BNT162a1/animal		
Death Date:	23/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	23/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, RIGHT : Dilation; vascular, minimal  
 EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal  
 NJECTION SITE I : inter- / perimuscular; Fibrosis; mild  
 NJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, mild  
 NJECTION SITE I : inter- / perimuscular; Mineralization; multifocal, mild  
 NJECTION SITE I : inter- / perimuscular; Multinucleated Macrophages; multifocal, mild  
 NTTEST NE, RECTUM : mucosa-associated lymphoid tissue; Hyperplasia; minimal  
 K DNEY, LEFT : Congestion; moderate  
 KIDNEY, RIGHT : Congestion; moderate  
 LIVER : Congestion; moderate  
 LIVER : Infiltration, Lymphocytic; multifocal, minimal  
 LUNGS WITH BRONCHI : macrophage; alveolus; Infiltration; focal, minimal  
 LYMPH NODE, CERVICAL : Histiocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
 LYMPH NODE, LIAC : Histiocytosis; minimal  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; minimal  
 LYMPH NODE, MESENTERIC : Histiocytosis; minimal  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 PEYERS PATCHES : germinal center; Increased Cellularity; mild  
 SEMINAL VESICLES : Infiltration, Lymphocytic; focal, minimal  
 SPLEEN : Congestion; mild  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

PARATHYROID, LEFT - Not Present

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

**HISTOPATHOLOGY REPORT****PAGE: 343**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	43	Group:	2 - Group 2	Sex:	Male
		Dose:	Group 2: 30 µg/BNT162a1/animal		
Death Date:	23/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	23/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

No observations found

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

ADRENAL GLAND, LEFT : Dilatation; vascular, minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

HEART : Infiltration, Lymphocytic; multifocal, minimal

INJECTION SITE I : intramuscular / interstitial; Fibrosis; minimal

INJECTION SITE I : inter- / perimuscular; Fibrosis; mild

INJECTION SITE I : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, minimal

INJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, minimal

KIDNEY, LEFT : Congestion; moderate

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, LIAC : Histiocytosis; minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity; minimal

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, LEFT - Not Present

PARATHYROID, RIGHT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	44	Group:	2 - Group 2	Sex:	Male
		Dose:	Group 2: 30 µg/BNT162a1/animal		
Death Date:	23/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	23/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : Dilatation; vascular, minimal  
 EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal  
 EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal  
 INJECTION SITE I : inter- / perimuscular; Fibrosis; mild  
 INJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, multifocal, minimal  
 KIDNEY, LEFT : Congestion; moderate  
 KIDNEY, RIGHT : Congestion; moderate  
 LIVER : Congestion; moderate  
 LIVER : Infiltration, Lymphocytic; multifocal, minimal  
 LUNGS WITH BRONCHI : Hemorrhage; acute, focal, moderate  
 LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
 LYMPH NODE, CERVICAL : Histiocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; moderate  
 LYMPH NODE, ILIAC : Histiocytosis; mild  
 LYMPH NODE, ILIAC : germinal center; Increased Cellularity; moderate  
 LYMPH NODE, MESENTERIC : Histiocytosis; minimal  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 OPTIC NERVE, LEFT : macrophage; Pigmentation; brown, focal, minimal  
 PITUITARY GLAND : pars distalis; Cyst; few, mild  
 PROSTATE GLAND : Infiltration, Lymphocytic; focal, mild  
 SPLEEN : Congestion; minimal  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild  
 THYMUS : Hemorrhage; acute, multifocal, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

PEYERS PATCHES - Not Present

TESTIS, RIGHT - Not Present

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	45	Group:	2 - Group 2	Sex:	Male
		Dose:	Group 2: 30 µg/BNT162a1/animal		
Death Date:	23/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	23/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

No observations found

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

NJECTON SITE I : inter- / perimuscular; Fibrosis; minimal

NJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, multifocal, minimal

NTTEST NE, CECUM : mucosa-associated lymphoid tissue; Hyperplasia; mild

NTTEST NE, COLON : mucosa-associated lymphoid tissue; Hyperplasia; mild

NTTEST NE, RECTUM : mucosa-associated lymphoid tissue; Hyperplasia; mild

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; moderate

LIVER : Congestion; mild

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal

LYMPH NODE, ILIAC : Histiocytosis; mild

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

OPTIC NERVE, RIGHT : macrophage; Pigmentation; brown, focal, minimal

PEYERS PATCHES : germinal center; Increased Cellularity; mild

PITUITARY GLAND : (Comment) incomplete

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 346**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	46	Group:	2 - Group 2	Sex:	Female
		Dose:	Group 2: 30 µg/BNT162a1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H)

NJECTION SITE I : Thickened (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H)

SPLEEN : Enlarged (TGL)

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

ADRENAL GLAND, LEFT : Dilation; vascular, minimal

BONE, OS FEMORIS WITH JOINT : surrounding tissue; Inflammation: mixed, minimal

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity: minimal

CERVIX : Keratinization; epithelial, mild

HARDERIAN GLAND, LEFT : Infiltration, Lymphocytic: focal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened (G)

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened (G)

NJECTION SITE I : subcutis; Inflammation: mixed, moderate | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened (G)

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened (G)

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened (G)

NJECTION SITE I : myofiber; Degeneration: mild

NJECTION SITE I : subcutis; Edema: moderate | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened (G)

NJECTION SITE I : intramuscular / interstitial; Edema: mild | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened (G)

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

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Animal:	46 (Continued)	Group:	2 - Group 2	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

NJECTION SITE I : inter- / perimuscular; Edema; moderate [ NJECTION SITE I : Indurated : (Comment) muscles (G) | INJECTION SITE I : Thickened (G)]  
NJECTION SITE I : Hyperplasia; epidermal, widespread, moderate  
K DNEY, LEFT : Congestion; moderate  
KIDNEY, RIGHT : Congestion; moderate  
K DNEY, RIGHT : tubule; Cast; hyaline, focal, minimal  
LIVER : Congestion; mild  
LIVER : periportal; Vacuolation; hepatocellular, minimal  
LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
LYMPH NODE, CERVICAL : Histiocytosis; minimal  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, ILIAC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; moderate  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
PEYERS PATCHES : germinal center; Increased Cellularity; mild  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Dilatation; glandular, multifocal, minimal  
THYMUS : Hemorrhage; acute, focal, minimal  
TRACHEA : (Comment) artefacts  
UTERUS : Dilatation; mild  
VAGINA : Keratinization; epithelial, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	47	Group:	2 - Group 2	Sex:	Female
		Dose:	Group 2: 30 µg/BNT162a1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis; mild (H) | NJECTION SITE I : subcutis; Edema; moderate (H) | INJECTION SITE I : inter- / perimuscular; Edema; moderate (H) | NJECTION SITE I : subcutis; Inflammation; mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild (H)

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

ADRENAL GLAND, RIGHT : (Comment) artefacts  
 ADRENAL GLAND, RIGHT : Dilatation; vascular, minimal  
 BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
 NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : inter- / perimuscular; Fibrosis; mild [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : subcutis; Inflammation; mixed, moderate [INJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : myofiber; Degeneration; mild  
 NJECTION SITE I : subcutis; Edema; moderate [INJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : intramuscular / interstitial; Edema; minimal  
 NJECTION SITE I : inter- / perimuscular; Edema; moderate [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : Hyperplasia; epidermal, widespread, moderate  
 KIDNEY, LEFT : Congestion; moderate  
 KIDNEY, LEFT : Inflammation, Chronic; interstitial, focal, minimal  
 KIDNEY, RIGHT : Congestion; moderate  
 LIVER : Congestion; mild  
 LIVER : periportal; Vacuolation; hepatocellular, mild  
 LYMPH NODE, CERVICAL : Histiocytosis; mild  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
 LYMPH NODE, ILIAC : Histiocytosis; mild  
 LYMPH NODE, ILIAC : Plasmacytosis; minimal  
 LYMPH NODE, MESENTERIC : Histiocytosis; minimal  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 OPTIC NERVE, RIGHT : Hemorrhage; acute, focal, mild  
 PITUITARY GLAND : pars distalis; Cyst; single, minimal

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

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Animal:	47 (Continued)	Group:	2 - Group 2	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
THYMUS : Hemorrhage; acute, focal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PEYERS PATCHES - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	48	Group:	2 - Group 2	Sex:	Female
		Dose:	Group 2: 30 µg/BNT162a1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H)

SPLEEN : Enlarged (TGL)

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

ADRENAL GLAND, LEFT : Dilation; vascular, minimal  
 BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
 NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : subcutis; Inflammation: mixed, moderate [NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : myofiber; Degeneration; mild  
 NJECTION SITE I : subcutis; Edema: moderate [NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : intramuscular / interstitial; Edema: minimal  
 NJECTION SITE I : inter- / perimuscular; Edema: moderate [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : Hyperplasia: epidermal, widespread, moderate  
 NJECTION SITE I : Scab; epidermal, focal, mild  
 K DNEY, LEFT : Congestion: mild  
 K DNEY, RIGHT : Congestion: mild  
 LIVER : Congestion: mild  
 LIVER : periportal; Vacuolation; hepatocellular, mild  
 LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia: minimal  
 LYMPH NODE, CERVICAL : Histiocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity: mild  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity: mild  
 LYMPH NODE, MESENTERIC : Histiocytosis; minimal  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity: mild  
 OPTIC NERVE, LEFT : Hemorrhage: acute, focal, mild  
 SPLEEN : Congestion: mild

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

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Animal:	48 (Continued)	Group:	2 - Group 2	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

THYMUS : Hemorrhage: acute, multifocal, mild

THYROID, LEFT : Cyst; keratinized, single, minimal

TRACHEA : (Comment) artefacts

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PEYERS PATCHES - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 352**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	49	Group:	2 - Group 2	Sex:	Female
		Dose:	Group 2: 30 µg/BNT162a1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis; mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild (H) | NJECTION SITE I : subcutis; Edema; moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema; mild (H) | NJECTION SITE I : intramuscular / interstitial; Edema; mild (H) | NJECTION SITE I : subcutis; Inflammation; mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild (H)

NJECTION SITE I : Thickened (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis; mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild (H) | NJECTION SITE I : subcutis; Edema; moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema; mild (H) | NJECTION SITE I : intramuscular / interstitial; Edema; mild (H) | NJECTION SITE I : subcutis; Inflammation; mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild (H)

NJECTION SITE I : Incrusted (TGL) | NJECTION SITE I : epidermis; Ulceration; focal, moderate (H))

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

CERVIX : Keratinization; epithelial, mild

HEART : Infiltration, Lymphocytic; focal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)

NJECTION SITE I : inter- / perimuscular; Fibrosis; mild | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)

NJECTION SITE I : subcutis; Inflammation; mixed, moderate | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)

NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)

NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)

NJECTION SITE I : epidermis; Ulceration; focal, moderate | NJECTION SITE I : Incrusted (G)

NJECTION SITE I : myofiber; Degeneration; mild

NJECTION SITE I : subcutis; Edema; moderate | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)

NJECTION SITE I : intramuscular / interstitial; Edema; mild | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)

NJECTION SITE I : inter- / perimuscular; Edema; mild | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

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Animal:	49 (Continued)	Group:	2 - Group 2	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

NJECTION SITE I : Hyperplasia; epidermal, widespread, moderate  
K DNEY, LEFT : Congestion; moderate  
KIDNEY, RIGHT : Congestion; moderate  
LIVER : Congestion; mild  
LIVER : periportal; Vacuolation; hepatocellular, mild  
LYMPH NODE, CERVICAL : Histiocytosis; minimal  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal  
LYMPH NODE, LIAC : Histiocytosis; minimal  
LYMPH NODE, LIAC : Inflammation; minimal  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
SKELETAL MUSCLE : Infiltration; mixed, focal, minimal  
PEYERS PATCHES : germinal center; Increased Cellularity; mild  
SPLEEN : Congestion; mild  
VAGINA : Keratinization; epithelial, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	50	Group:	2 - Group 2	Sex:	Female
		Dose:	Group 2: 30 µg/BNT162a1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis; mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild (H) | NJECTION SITE I : subcutis; Edema; moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema; moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema; minimal (H) | NJECTION SITE I : subcutis; Inflammation; mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild (H)]

NJECTION SITE I : Thickened (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis; mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild (H) | NJECTION SITE I : subcutis; Edema; moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema; moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema; minimal (H) | NJECTION SITE I : subcutis; Inflammation; mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild (H)]

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

CERVIX : Keratinization; epithelial, mild

NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild [ NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis; mild [NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)]

NJECTION SITE I : subcutis; Inflammation; mixed, moderate [NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild [NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate [ NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)]

NJECTION SITE I : epidermis; Ulceration; focal, moderate

NJECTION SITE I : myofiber; Degeneration; mild

NJECTION SITE I : subcutis; Edema; moderate [NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)]

NJECTION SITE I : intramuscular / interstitial; Edema; minimal [NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)]

NJECTION SITE I : inter- / perimuscular; Edema; moderate [ NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)]

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; moderate

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

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Animal:	50 (Continued)	Group:	2 - Group 2	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

LIVER : Congestion; mild  
LIVER : Infiltration, Lymphocytic; multifocal, minimal  
LIVER : periportal; Vacuolation; hepatocellular, mild  
LYMPH NODE, CERVICAL : Histocytosis; minimal  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, LIAC : Histiocytosis; minimal  
LYMPH NODE, LIAC : Inflammation; mild  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
THYMUS : Hemorrhage; acute, focal, mild  
THYROID, LEFT : Cyst; keratinized, single, minimal  
UTERUS : Dilatation; mild  
VAGINA : Keratinization; epithelial, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PEYERS PATCHES - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 356**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	51	Group:	2 - Group 2	Sex:	Female
		Dose:	Group 2: 30 µg/BNT162a1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: minimal (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate (H)]

UTERUS : Dilatation (TGL)

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity: minimal

CERVIX : Keratinization: epithelial, mild

HARDERIAN GLAND, LEFT : Infiltration, Lymphocytic; focal, minimal

HEART : Infiltration; lymphohistiocytic, focal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : subcutis; Inflammation: mixed, moderate [NJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate [NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : myofiber; Degeneration: mild

NJECTION SITE I : subcutis; Edema: moderate [NJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Edema: minimal [NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Edema: moderate [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : Hyperplasia: epidermal, widespread, moderate

NJECTION SITE I : Scab; epidermal, focal, minimal

K DNEY, LEFT : Congestion: mild

K DNEY, LEFT : Infiltration, Lymphocytic; focal, minimal

K DNEY, LEFT : tubule; Cast: hyaline, multifocal, minimal

K DNEY, RIGHT : Congestion: mild

LIVER : Congestion: moderate

LIVER : periportal; Vacuolation; hepatocellular, minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity: mild

LYMPH NODE, ILIAC : Histocytosis; minimal

LYMPH NODE, LIAC : Inflammation; mild

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	51 (Continued)	Group:	2 - Group 2	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
PEYERS PATCHES : germinal center; Increased Cellularity; mild  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
STOMACH, GLANDULAR : chief cell; Hyperplasia; mild  
THYMUS : Hemorrhage; acute, multifocal, mild  
UTERUS : Dilation; mild  
VAGINA : Keratinization; epithelial, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

OPTIC NERVE, RIGHT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	52	Group:	2 - Group 2	Sex:	Female
		Dose:	Group 2: 30 µg/BNT162a1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: minimal (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H)]

NJECTION SITE I : Thickened (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: minimal (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H)]

SPLEEN : Enlarged (TGL)

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
 NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)]  
 NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)]  
 NJECTION SITE I : subcutis; Inflammation: mixed, moderate [NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)]  
 NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild [NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)]  
 NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)]  
 NJECTION SITE I : myofiber; Degeneration: mild  
 NJECTION SITE I : subcutis; Edema: moderate [NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)]  
 NJECTION SITE I : intramuscular / interstitial; Edema: minimal [NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)]  
 NJECTION SITE I : inter- / perimuscular; Edema: moderate [ NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)]  
 NJECTION SITE I : Hyperplasia: epidermal, widespread, moderate  
 K DNEY, LEFT : Congestion: mild  
 KIDNEY, LEFT : Mineralization; focal, mild

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	52 (Continued)	Group:	2 - Group 2	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

K DNEY, RIGHT : Congestion; mild  
K DNEY, RIGHT : Mineralization; focal, mild  
LIVER : Congestion; moderate  
LIVER : Hematopoiesis; extramedullary, multifocal, minimal  
LIVER : periportal; Vacuolation; hepatocellular, minimal  
LYMPH NODE, CERVICAL : Histiocytosis; mild  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, ILIAC : Histiocytosis; minimal  
LYMPH NODE, ILIAC : Plasmacytosis; mild  
LYMPH NODE, ILIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
SPLEEN : Congestion; mild  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
TRACHEA : (Comment) artefacts  
VAGINA : Keratinization; epithelial, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	53	Group:	2 - Group 2	Sex:	Female
		Dose:	Group 2: 30 µg/BNT162a1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: minimal (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H)]

NJECTION SITE I : Thickened (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: minimal (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H)]

NJECTION SITE I : Incrusted (TGL) | NJECTION SITE I : epidermis; Ulceration: focal, moderate (H)]

LYMPH NODE, LIAC : Enlarged (TGL)

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity: minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened (G)]

NJECTION SITE I : subcutis; Inflammation: mixed, moderate | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened (G)]

NJECTION SITE I : epidermis; Ulceration: focal, moderate | NJECTION SITE I : Incrusted : (Comment) skin (G)]

NJECTION SITE I : myofiber; Degeneration: mild

NJECTION SITE I : subcutis; Edema: moderate | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened (G)]

NJECTION SITE I : intramuscular / interstitial; Edema: minimal | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened (G)]

NJECTION SITE I : inter- / perimuscular; Edema: moderate | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened (G)]

NJECTION SITE I : Hyperplasia: epidermal, widespread, moderate

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	53 (Continued)	Group:	2 - Group 2	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

NTEST NE, RECTUM : mucosa-associated lymphoid tissue; Hyperplasia; mild  
K DNEY, LEFT : Congestion; moderate  
K DNEY, RIGHT : Congestion; mild  
LIVER : Congestion; moderate  
LIVER : Hematopoiesis; extramedullary, multifocal, minimal  
LIVER : periportal; Vacuolation; hepatocellular, mild  
LUNGS WITH BRONCHI : Ossification; focal, minimal  
LYMPH NODE, CERVICAL : Histiocytosis; minimal  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, LIAC : Histiocytosis; minimal  
LYMPH NODE, LIAC : Inflammation; mild  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
OPTIC NERVE, LEFT : Hemorrhage; acute, focal, minimal  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
SPLEEN : Congestion; minimal  
THYMUS : Hemorrhage; acute, multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	54	Group:	2 - Group 2	Sex:	Female
		Dose:	Group 2: 30 µg/BNT162a1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: minimal (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H)]

NJECTION SITE I : Thickened (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: minimal (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H)]

SPLEEN : Enlarged (TGL)

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
 NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened (G)]  
 NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened (G)]  
 NJECTION SITE I : subcutis; Inflammation: mixed, moderate [NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened (G)]  
 NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild [ NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened (G)]  
 NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened (G)]  
 NJECTION SITE I : subcutis; Edema: moderate [NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened (G)]

NJECTION SITE I : intramuscular / interstitial; Edema: minimal [NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened (G)]

NJECTION SITE I : inter- / perimuscular; Edema: moderate [ NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened (G)]

NJECTION SITE I : Hyperplasia: epidermal, widespread, moderate

K DNEY, LEFT : Congestion; mild

K DNEY, RIGHT : Congestion; mild

LIVER : Congestion; mild

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	54 (Continued)	Group:	2 - Group 2	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

LIVER : Hematopoiesis; extramedullary, multifocal, minimal  
LIVER : periportal; Vacuolation; hepatocellular, minimal  
LYMPH NODE, CERVICAL : Histiocytosis; minimal  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, LIAC : Histiocytosis; minimal  
LYMPH NODE, LIAC : Inflammation; mild  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
PARATHYROID, LEFT : Fibrosis; interstitial, mild  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
THYMUS : Hemorrhage; acute, multifocal, minimal  
TRACHEA : Infiltration, Lymphocytic; focal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 364**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	55	Group:	2 - Group 2	Sex:	Female
		Dose:	Group 2: 30 µg/BNT162a1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: minimal (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate (H)]

NJECTION SITE I : Thickened (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: minimal (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate (H)]

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

HARDERIAN GLAND, LEFT : Infiltration; lymphohistiocytic, multifocal, mild

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Indurated (G) | NJECTION SITE I : Thickened (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Indurated (G) | NJECTION SITE I : Thickened (G)]

NJECTION SITE I : subcutis; Inflammation: mixed, moderate [NJECTION SITE I : Indurated (G) | NJECTION SITE I : Thickened (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate [NJECTION SITE I : Indurated (G) | NJECTION SITE I : Thickened (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Indurated (G) | NJECTION SITE I : Thickened (G)]

NJECTION SITE I : myofiber; Degeneration; mild

NJECTION SITE I : subcutis; Edema: moderate [NJECTION SITE I : Indurated (G) | NJECTION SITE I : Thickened (G)]

NJECTION SITE I : intramuscular / interstitial; Edema: minimal [NJECTION SITE I : Indurated (G) | NJECTION SITE I : Thickened (G)]

NJECTION SITE I : inter- / perimuscular; Edema: moderate [ NJECTION SITE I : Indurated (G) | NJECTION SITE I : Thickened (G)]

NJECTION SITE I : Hyperplasia; epidermal, widespread, moderate

NTEST NE, RECTUM : mucosa-associated lymphoid tissue; Hyperplasia; mild

K DNEY, LEFT : Congestion; mild

K DNEY, RIGHT : Congestion; mild

LIVER : Congestion; mild

LIVER : periportal; Vacuolation; hepatocellular, mild

LYMPH NODE, CERVICAL : Histocytosis; mild

**HISTOPATHOLOGY REPORT****PAGE: 365**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

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Animal:	55 (Continued)	Group:	2 - Group 2	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, LIAC : Histiocytosis; minimal  
LYMPH NODE, LIAC : Plasmacytosis; minimal  
LYMPH NODE, LIAC : Inflammation; mild  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; minimal  
LYMPH NODE, MESENTERIC : Histiocytosis; moderate  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; minimal  
STOMACH, GLANDULAR : mucosa-associated lymphoid tissue; Hyperplasia; minimal  
THYMUS : Hemorrhage; acute, multifocal, minimal  
THYROID, LEFT : Cyst; keratinized, single, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PEYERS PATCHES - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	56	Group:	2 - Group 2	Sex:	Female
		Dose:	Group 2: 30 µg/BNT162a1/animal		
Death Date:	23/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	23/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : Dilation; vascular, minimal

ADRENAL GLAND, RIGHT : Dilation; vascular, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis; multifocal, minimal

NJECTION SITE I : inter- / perimuscular; Fibrosis; mild

NJECTION SITE I : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, minimal

NJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, mild

NTEST NE, RECTUM : mucosa-associated lymphoid tissue; Hyperplasia; minimal

K DNEY, LEFT : Congestion; moderate

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; mild

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

LYMPH NODE, CERVICAL : Histiocytosis; mild

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, LIAC : Histiocytosis; minimal

LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

THYROID, RIGHT : Cyst; keratinized, multiple, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

**HISTOPATHOLOGY REPORT****PAGE: 367**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	57	Group:	2 - Group 2	Sex:	Female
		Dose:	Group 2: 30 µg/BNT162a1/animal		
Death Date:	23/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	23/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

No observations found

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

CERVIX : Keratinization; epithelial, minimal

INJECTION SITE I : intramuscular / interstitial; Fibrosis; multifocal, minimal

INJECTION SITE I : inter- / perimuscular; Fibrosis; mild

INJECTION SITE I : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, minimal

INJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, minimal

TEST NE, CECUM : mucosa-associated lymphoid tissue: Hyperplasia; moderate

KIDNEY, LEFT : Congestion; moderate

KIDNEY, RIGHT : Congestion; moderate

KIDNEY, RIGHT : Pyelonephritis; minimal

LIVER : Congestion; mild

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LUNGS WITH BRONCHI : Hemorrhage; acute, multifocal, mild

LYMPH NODE, CERVICAL : Histiocytosis; mild

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, ILIAC : Histiocytosis; minimal

LYMPH NODE, ILIAC : Plasmacytosis; mild

LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

THYMUS : Hemorrhage; acute, focal, minimal

VAGINA : Keratinization; epithelial, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	58	Group:	2 - Group 2	Sex:	Female
		Dose:	Group 2: 30 µg/BNT162a1/animal		
Death Date:	23/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	23/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

HARDERIAN GLAND, RIGHT : Infiltration, Lymphocytic; focal, minimal

HARDERIAN GLAND, RIGHT : Inflammation, Chronic; focal, mild

NJECTION SITE I : inter- / perimuscular; Fibrosis; mild

NJECTION SITE I : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, minimal

NJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, mild

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LUNGS WITH BRONCHI : Hemorrhage; acute, focal, mild

LYMPH NODE, CERVICAL : Histocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, ILIAC : Histiocytosis; minimal

LYMPH NODE, ILIAC : Plasmacytosis; minimal

LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity; minimal

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	59	Group:	2 - Group 2	Sex:	Female
		Dose:	Group 2: 30 µg/BNT162a1/animal		
Death Date:	23/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	23/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

CERVIX : Keratinization; epithelial, mild

INJECTION SITE I : intramuscular / interstitial; Fibrosis; multifocal, minimal

INJECTION SITE I : inter- / perimuscular; Fibrosis; mild

INJECTION SITE I : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, minimal

INJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, minimal

KIDNEY, LEFT : Congestion; moderate

KIDNEY, LEFT : Infiltration, Lymphocytic; focal, minimal

KIDNEY, RIGHT : Congestion; mild

LIVER : Congestion; moderate

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LYMPH NODE, CERVICAL : Histiocytosis; mild

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, ILIAC : Histiocytosis; mild

LYMPH NODE, ILIAC : germinal center; Increased Cellularity; mild

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

TRACHEA : Infiltration; lymphohistiocytic, multifocal, minimal

VAGINA : Keratinization; epithelial, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	60	Group:	2 - Group 2	Sex:	Female
		Dose:	Group 2: 30 µg/BNT162a1/animal		
Death Date:	23/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	23/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

CERVIX : Keratinization; epithelial, mild

INJECTION SITE I : inter- / perimuscular; Fibrosis; minimal

INJECTION SITE II : dermis; subcutis; Fibrosis; multifocal, mild

INJECTION SITE II : inter- / perimuscular; Fibrosis; minimal

KIDNEY, LEFT : Congestion; moderate

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, LIAC : (Comment) artefacts

LYMPH NODE, ILIAC : Histocytosis; minimal

LYMPH NODE, ILIAC : Plasmacytosis; minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity; minimal

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

SPLEEN : Congestion; mild

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

THYMUS : Hemorrhage; acute, multifocal, minimal

VAGINA : Keratinization; epithelial, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	61	Group:	3 - Group 3	Sex:	Male
		Dose:	Group 3: 10 µg/BNT162a1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H)

LYMPH NODE, LIAC : Enlarged (TGL)

SPLEEN : Enlarged (TGL) [SPLEEN : Hematopoiesis; increased, minimal (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

EPIDIDYMYIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMYIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

HEART : Infiltration; lymphohistiocytic, focal, moderate

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Indurated (G) ]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Indurated (G) ]

NJECTION SITE I : subcutis; Inflammation: mixed, moderate [ NJECTION SITE I : Indurated (G) ]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild [ NJECTION SITE I : Indurated (G) ]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Indurated (G) ]

NJECTION SITE I : epidermis; Ulceration; multifocal, moderate

NJECTION SITE I : myofiber; Degeneration; mild

NJECTION SITE I : subcutis; Edema; moderate [ NJECTION SITE I : Indurated (G) ]

NJECTION SITE I : inter- / perimuscular; Edema; mild [ NJECTION SITE I : Indurated (G) ]

NTTEST NE, COLON : mucosa-associated lymphoid tissue; Hyperplasia; mild

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

LYMPH NODE, CERVICAL : Histiocytosis; mild

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, ILIAC : Histiocytosis; minimal

LYMPH NODE, ILIAC : Plasmacytosis; mild

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

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Animal:	61 (Continued)	Group:	3 - Group 3	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

LYMPH NODE, MESENTERIC : Histocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
SPLEEN : Congestion; minimal  
SPLEEN : Hematopoiesis; increased, minimal [SPLEEN : Enlarged (G)]  
THYMUS : Hemorrhage; acute, multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 373**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	62	Group:	3 - Group 3	Sex:	Male
		Dose:	Group 3: 10 µg/BNT162a1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

No observations found

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

ADRENAL GLAND, RIGHT : Dilation; vascular, minimal  
 BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
 EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal  
 EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal  
 INJECTION SITE I : intramuscular / interstitial; Fibrosis; mild  
 INJECTION SITE I : inter- / perimuscular; Fibrosis; mild  
 INJECTION SITE I : subcutis; Inflammation; mixed, moderate  
 INJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild  
 INJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate  
 INJECTION SITE I : myofiber; Degeneration; mild  
 INJECTION SITE I : subcutis; Edema; moderate  
 INJECTION SITE I : intramuscular / interstitial; Edema; minimal  
 INJECTION SITE I : inter- / perimuscular; Edema; mild  
 INJECTION SITE I : Hyperplasia; epidermal, widespread, mild  
 KIDNEY, LEFT : Congestion; moderate  
 KIDNEY, LEFT : Infiltration, Lymphocytic; multifocal, minimal  
 KIDNEY, RIGHT : Congestion; moderate  
 KIDNEY, RIGHT : Infiltration, Lymphocytic; multifocal, minimal  
 LIVER : Congestion; moderate  
 LIVER : Infiltration, Lymphocytic; multifocal, minimal  
 LYMPH NODE, CERVICAL : Histiocytosis; minimal  
 LYMPH NODE, CERVICAL : Hemorrhage; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
 LYMPH NODE, ILIAC : Histiocytosis; mild  
 LYMPH NODE, ILIAC : Plasmacytosis; mild  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 PEYERS PATCHES : germinal center; Increased Cellularity; mild  
 PROSTATE GLAND : Infiltration; mixed, focal, mild

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

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Animal:	62 (Continued)	Group:	3 - Group 3	Sex:	Male
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Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, LEFT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 375**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	63	Group:	3 - Group 3	Sex:	Male
		Dose:	Group 3: 10 µg/BNT162a1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis; mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild (H) | NJECTION SITE I : subcutis; Edema; moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema; mild (H) | NJECTION SITE I : intramuscular / interstitial; Edema; minimal (H) | NJECTION SITE I : subcutis; Inflammation; mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild (H)

NJECTION SITE I : Thickened (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis; mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild (H) | NJECTION SITE I : subcutis; Edema; moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema; mild (H) | NJECTION SITE I : intramuscular / interstitial; Edema; minimal (H) | NJECTION SITE I : subcutis; Inflammation; mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild (H)

LYMPH NODE, LIAC : Enlarged (TGL)

SPLEEN : Enlarged (TGL)

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

ADRENAL GLAND, LEFT : Dilation; vascular, minimal

ADRENAL GLAND, RIGHT : Dilation; vascular, minimal

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild | NJECTION SITE I : Thickened : (Comment) skin incrustated (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)

NJECTION SITE I : inter- / perimuscular; Fibrosis; mild | NJECTION SITE I : Thickened : (Comment) skin incrustated (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)

NJECTION SITE I : subcutis; Hemorrhage; focal, mild

NJECTION SITE I : subcutis; Inflammation; mixed, moderate | NJECTION SITE I : Thickened : (Comment) skin incrustated (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)

NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild | NJECTION SITE I : Thickened : (Comment) skin incrustated (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)

NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate | NJECTION SITE I : Thickened : (Comment) skin incrustated (G) |

NJECTION SITE I : Indurated : (Comment) muscle (G)

NJECTION SITE I : epidermis; Ulceration; focal, moderate

NJECTION SITE I : myofiber; Degeneration; mild

NJECTION SITE I : subcutis; Edema; moderate | NJECTION SITE I : Thickened : (Comment) skin incrustated (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)

**HISTOPATHOLOGY REPORT****PAGE: 376**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	63 (Continued)	Group:	3 - Group 3	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

NJECTION SITE I : intramuscular / interstitial; Edema; minimal [NJECTION SITE I : Thickened : (Comment) skin incrusted (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]  
 NJECTION SITE I : inter- / perimuscular; Edema; mild [ NJECTION SITE I : Thickened : (Comment) skin incrusted (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]  
 NJECTION SITE I : Hyperplasia; epidermal, widespread, moderate  
 NTTEST NE, RECTUM : mucosa-associated lymphoid tissue; Hyperplasia; minimal  
 K DNEY, LEFT : Congestion; mild  
 K DNEY, RIGHT : Congestion; mild  
 LIVER : Congestion; moderate  
 LIVER : Infiltration, Lymphocytic; multifocal, minimal  
 LUNGS WITH BRONCHI : Hemorrhage; acute, focal, mild  
 LYMPH NODE, CERVICAL : Histocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
 LYMPH NODE, LIAC : Histiocytosis; minimal  
 LYMPH NODE, ILIAC : Plasmacytosis; mild  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 PEYERS PATCHES : germinal center; Increased Cellularity; mild  
 SPLEEN : Congestion; minimal  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
 STOMACH, GLANDULAR : mucosa-associated lymphoid tissue; Hyperplasia; minimal  
 TRACHEA : Infiltration; lymphohistiocytic, multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 377**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	64	Group:	3 - Group 3	Sex:	Male
		Dose:	Group 3: 10 µg/BNT162a1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: minimal (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H)]

NJECTION SITE I : Thickened (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: minimal (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H)]

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Plasmacytosis; mild (H) | LYMPH NODE, ILIAC : germinal center; Increased Cellularity; moderate (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, RIGHT : Dilation; vascular, minimal

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : subcutis; Inflammation: mixed, moderate [NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : myofiber; Degeneration: mild

NJECTION SITE I : subcutis; Edema: moderate [NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : intramuscular / interstitial; Edema: minimal [NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

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Animal:	64 (Continued)	Group:	3 - Group 3	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

NJECTION SITE I : inter- / perimuscular: Edema; moderate [ NJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated : (Comment) muscle (G)]  
NJECTION SITE I : Hyperplasia; epidermal, widespread, mild  
K DNEY, LEFT : Congestion; mild  
K DNEY, RIGHT : Congestion; mild  
K DNEY, RIGHT : Infiltration, Lymphocytic; focal, minimal  
LIVER : Congestion; mild  
LIVER : Hematopoiesis; extramedullary, multifocal, minimal  
LIVER : Infiltration, Lymphocytic; multifocal, minimal  
LUNGS WITH BRONCHI : Hemorrhage; acute, focal, mild  
LYMPH NODE, CERVICAL : Histiocytosis; minimal  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, ILIAC : Histiocytosis; minimal  
LYMPH NODE, ILIAC : Plasmacytosis; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate [LYMPH NODE, ILIAC : Enlarged (G)]  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
PROSTATE GLAND : Infiltration, Lymphocytic; multifocal, mild  
THYMUS : Hemorrhage; acute, focal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, LEFT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 379**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	65	Group:	3 - Group 3	Sex:	Male
		Dose:	Group 3: 10 µg/BNT162a1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) [INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Edema: minimal (H) | INJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H)]

SPLEEN : Enlarged (TGL) [SPLEEN : Hematopoiesis; increased, minimal (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : Dilation; vascular, minimal

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : myofiber; Degeneration; mild

NJECTION SITE I : subcutis; Edema: moderate [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Edema: minimal [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Edema: moderate [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : Hyperplasia: epidermal, widespread, moderate

NJECTION SITE I : Scab; epidermal, focal, minimal

KIDNEY, LEFT : Congestion; moderate

KIDNEY, LEFT : Infiltration, Lymphocytic; multifocal, minimal

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LIVER : Hematopoiesis; extramedullary, multifocal, minimal

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

LUNGS WITH BRONCHI : perivascular; Infiltration, Eosinophilic; focal, minimal

LYMPH NODE, CERVICAL : Histocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, LIAC : Histiocytosis; minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

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Animal: 65 (Continued) Group: 3 - Group 3 Sex: Male

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**Histopathology Observations [Correlation] (Continued):**

LYMPH NODE, MESENTERIC : Histocytosis; minimal  
LYMPH NODE, MESENTERIC : germinal center: Increased Cellularity; mild  
SPLEEN : Congestion; minimal  
SPLEEN : Hematopoiesis; increased, minimal [SPLEEN : Enlarged (G)]  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
THYMUS : Hemorrhage; acute, multifocal, minimal  
TRACHEA : Infiltration; mixed, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PEYERS PATCHES - Not Present  
SALIVARY GLANDS, PAROTIS - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	66	Group:	3 - Group 3	Sex:	Male
		Dose:	Group 3: 10 µg/BNT162a1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate (H)]

LYMPH NODE, LIAC : Enlarged (TGL) | LYMPH NODE, LIAC : Histiocytosis; mild (H) | LYMPH NODE, LIAC : Plasmacytosis; minimal (H) | LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild (H)]  
SPLEEN : Enlarged (TGL)

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal  
EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal  
NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]  
NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]  
NJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]  
NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]  
NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Indurated (G)]  
NJECTION SITE I : subcutis; Edema: moderate [INJECTION SITE I : Indurated (G)]  
NJECTION SITE I : intramuscular / interstitial; Edema: mild [ NJECTION SITE I : Indurated (G)]  
NJECTION SITE I : inter- / perimuscular; Edema: moderate [ NJECTION SITE I : Indurated (G)]  
NJECTION SITE I : Hyperplasia: epidermal, widespread, moderate  
NTTEST NE, COLON : mucosa-associated lymphoid tissue; Hyperplasia; minimal  
K DNEY, LEFT : Congestion; mild  
K DNEY, RIGHT : Congestion; mild  
LIVER : Congestion; moderate  
LUNGS WITH BRONCHI : Hemorrhage; acute, focal, mild  
LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
LYMPH NODE, CERVICAL : Histiocytosis; minimal  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, LIAC : Histiocytosis; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
LYMPH NODE, LIAC : Plasmacytosis; minimal [LYMPH NODE, ILIAC : Enlarged (G)]

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	66 (Continued)	Group:	3 - Group 3	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
LYMPH NODE, MESENTERIC : Histocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
PEYERS PATCHES : Mineralization; multifocal, minimal  
PEYERS PATCHES : Inflammation, Granulomatous; follicular, multifocal, mild  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Cyst; single, mild  
THYMUS : Hemorrhage; acute, multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, RIGHT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 383**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	67	Group:	3 - Group 3	Sex:	Male
		Dose:	Group 3: 10 µg/BNT162a1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) [INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Edema: minimal (H) | INJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H)]

NJECTION SITE I : Thickened (TGL) [INJECTION SITE I : intramuscular / interstitial; Edema: minimal (H) | INJECTION SITE I : subcutis; Edema: moderate (H) | INJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H)]

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

ADRENAL GLAND, LEFT : Dilation; vascular, minimal

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity: minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild [ NJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : myofiber; Degeneration: mild

NJECTION SITE I : subcutis; Edema: moderate [INJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : intramuscular / interstitial; Edema: minimal [INJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : inter- / perimuscular; Edema: moderate [ NJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : Hyperplasia: epidermal, widespread, moderate

NTEST NE, RECTUM : mucosa-associated lymphoid tissue; Hyperplasia: mild

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; mild

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

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Animal:	67 (Continued)	Group:	3 - Group 3	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

LIVER : Congestion; moderate  
LIVER : Infiltration, Lymphocytic; multifocal, minimal  
LIVER : periportal; Vacuolation; hepatocellular, minimal  
LUNGS WITH BRONCHI : Hemorrhage; acute, multifocal, minimal  
LYMPH NODE, CERVICAL : Histiocytosis; minimal  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal  
LYMPH NODE, ILIAC : Histiocytosis; mild  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
STOMACH, GLANDULAR : Dilatation; glandular, focal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	68	Group:	3 - Group 3	Sex:	Male
		Dose:	Group 3: 10 µg/BNT162a1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: minimal (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
 EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal  
 EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal  
 NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : subcutis; Inflammation: mixed, moderate [NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate [NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : myofiber; Degeneration; mild  
 NJECTION SITE I : subcutis; Edema: moderate [NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : intramuscular / interstitial; Edema: minimal [NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : inter- / perimuscular; Edema: moderate [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : Hyperplasia: epidermal, widespread, moderate  
 K DNEY, LEFT : Congestion; mild  
 K DNEY, RIGHT : Congestion; mild  
 LIVER : Congestion; moderate  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal  
 LYMPH NODE, ILIAC : Histiocytosis; minimal  
 LYMPH NODE, ILIAC : Plasmacytosis; mild  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 PEYERS PATCHES : germinal center; Increased Cellularity; moderate

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	69	Group:	3 - Group 3	Sex:	Male
		Dose:	Group 3: 10 µg/BNT162a1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : Dilation; vascular, minimal  
 BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
 EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal  
 INJECTION SITE I : intramuscular / interstitial; Fibrosis; mild  
 INJECTION SITE I : inter- / perimuscular; Fibrosis; mild  
 INJECTION SITE I : subcutis; Inflammation; mixed, moderate  
 INJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild  
 INJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate  
 INJECTION SITE I : myofiber; Degeneration; mild  
 INJECTION SITE I : subcutis; Edema; mild  
 INJECTION SITE I : inter- / perimuscular; Edema; mild  
 INJECTION SITE I : Hyperplasia; epidermal, widespread, moderate  
 K DNEY, LEFT : Congestion; mild  
 K DNEY, RIGHT : Congestion; mild  
 LIVER : Congestion; mild  
 LYMPH NODE, CERVICAL : Histocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal  
 LYMPH NODE, LIAC : Histiocytosis; minimal  
 LYMPH NODE, ILIAC : Plasmacytosis; mild  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; minimal  
 PEYERS PATCHES : Mineralization; focal, minimal  
 PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
 THYMUS : Hemorrhage; acute, focal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

PARATHYRO D, RIGHT - Not Present

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

**HISTOPATHOLOGY REPORT****PAGE: 387**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	70	Group:	3 - Group 3	Sex:	Male
		Dose:	Group 3: 10 µg/BNT162a1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

SPLEEN : Enlarged (TGL) [SPLEEN : Hematopoiesis; increased, minimal (H)]

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

HARDERIAN GLAND, RIGHT : Inflammation, Chronic; focal, mild

INJECTION SITE I : intramuscular / interstitial; Fibrosis; mild

INJECTION SITE I : inter- / perimuscular; Fibrosis; mild

INJECTION SITE I : subcutis; Inflammation; mixed, moderate

INJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild

INJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate

INJECTION SITE I : myofiber; Degeneration; mild

INJECTION SITE I : subcutis; Edema; moderate

INJECTION SITE I : inter- / perimuscular; Edema; mild

INJECTION SITE I : Hyperplasia; epidermal, widespread, moderate

K DNEY, LEFT : Congestion; moderate

K DNEY, LEFT : Infiltration, Lymphocytic; multifocal, minimal

K DNEY, RIGHT : Congestion; moderate

K DNEY, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

LIVER : Congestion; mild

LUNGS WITH BRONCHI : Hemorrhage; acute, focal, minimal

LYMPH NODE, CERVICAL : Histocytosis; mild

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, ILIAC : Histiocytosis; mild

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

SPLEEN : Hematopoiesis; increased, minimal [SPLEEN : Enlarged (G)]

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

THYMUS : Hemorrhage; acute, multifocal, minimal

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

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Animal:	70 (Continued)	Group:	3 - Group 3	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

TRACHEA : Infiltration; mixed, minimal

URINARY BLADDER : Infiltration, Lymphocytic; focal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, RIGHT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	71	Group:	3 - Group 3	Sex:	Male
		Dose:	Group 3: 10 µg/BNT162a1/animal		
Death Date:	29/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	29/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, mild

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

NJECTON SITE I : inter- / perimuscular; Fibrosis; mild

NTEST NE, COLON : mucosa-associated lymphoid tissue; Hyperplasia; mild

NTEST NE, RECTUM : mucosa-associated lymphoid tissue; Hyperplasia; mild

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; moderate

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, ILIAC : Histiocytosis; mild

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

SPLEEN : Congestion; mild

STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild

THYMUS : Hemorrhage; acute, multifocal, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

PARATHYROID, LEFT - Not Present

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	72	Group:	3 - Group 3	Sex:	Male
		Dose:	Group 3: 10 µg/BNT162a1/animal		
Death Date:	29/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	29/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : Dilation; vascular, minimal

ADRENAL GLAND, RIGHT : (Comment) artefacts

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

INJECTION SITE I : intramuscular / interstitial; Fibrosis; multifocal, minimal

INJECTION SITE I : inter- / perimuscular; Fibrosis; mild

INJECTION SITE I : inter- / perimuscular; Inflammation: lymphohistiocytic, minimal

TESTIS, COLON : mucosa-associated lymphoid tissue: Hyperplasia; mild

KIDNEY, LEFT : Congestion; moderate

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, LIAC : Histiocytosis; minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

PROSTATE GLAND : Infiltration, Lymphocytic; focal, minimal

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

PARATHYROID, RIGHT - Not Present

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

**HISTOPATHOLOGY REPORT****PAGE: 391**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	73	Group:	3 - Group 3	Sex:	Male
		Dose:	Group 3: 10 µg/BNT162a1/animal		
Death Date:	29/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	29/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

No observations found

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

HEART : Infiltration, Lymphocytic; focal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis; multifocal, minimal

NJECTION SITE I : inter- / perimuscular; Fibrosis; mild

NJECTION SITE I : inter- / perimuscular; Inflammation: lymphohistiocytic, minimal

NTEST NE, COLON : mucosa-associated lymphoid tissue: Hyperplasia; moderate

NTEST NE, RECTUM : (Comment) artefacts

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, ILIAC : Histiocytosis; minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild

LYMPH NODE, MESENTERIC : Histiocytosis; minimal

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

PROSTATE GLAND : Infiltration, Lymphocytic; focal, moderate

STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild

THYMUS : Hemorrhage; acute, multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, LEFT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 392**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	74	Group:	3 - Group 3	Sex:	Male
		Dose:	Group 3: 10 µg/BNT162a1/animal		
Death Date:	29/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	29/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

No observations found

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal  
 INJECTION SITE I : intramuscular / interstitial; Fibrosis; multifocal, minimal  
 INJECTION SITE I : inter- / perimuscular; Fibrosis; mild  
 INJECTION SITE I : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, minimal  
 INJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, multifocal, minimal  
 TESTIS, COLON : mucosa-associated lymphoid tissue; Hyperplasia; mild  
 KIDNEY, LEFT : Congestion; moderate  
 KIDNEY, LEFT : tubule; Basophilia; focal, mild  
 KIDNEY, LEFT : Infiltration, Lymphocytic; multifocal, minimal  
 KIDNEY, RIGHT : Congestion; moderate  
 LIVER : Congestion; moderate  
 LIVER : Infiltration, Lymphocytic; multifocal, minimal  
 LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
 LUNGS WITH BRONCHI : Infiltration; mixed, multifocal, minimal  
 LYMPH NODE, CERVICAL : Histocytosis; mild  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
 LYMPH NODE, ILIAC : Histiocytosis; mild  
 LYMPH NODE, ILIAC : Infiltration; macrophage, multifocal, minimal  
 LYMPH NODE, ILIAC : germinal center; Increased Cellularity; mild  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 PEYERS PATCHES : germinal center; Increased Cellularity; mild  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild  
 TONGUE : Granuloma; hair, single, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	75	Group:	3 - Group 3	Sex:	Male
		Dose:	Group 3: 10 µg/BNT162a1/animal		
Death Date:	29/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	29/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

No observations found

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

NJECTION SITE I : inter- / perimuscular; Fibrosis; minimal

NJECTION SITE I : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, minimal

NJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, multifocal, minimal

NTEST NE, RECTUM : mucosa-associated lymphoid tissue; Hyperplasia; moderate

K DNEY, LEFT : (Comment) artefacts

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; mild

KIDNEY, RIGHT : tubule; Basophilia; multifocal, moderate

K DNEY, RIGHT : Inflammation, Chronic; interstitial, multifocal, moderate

LIVER : Congestion; moderate

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, ILIAC : Histiocytosis; mild

LYMPH NODE, LIAC : germinal center; Increased Cellularity; minimal

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

OPTIC NERVE, RIGHT : Hemorrhage; acute, focal, mild

PROSTATE GLAND : Infiltration, Lymphocytic; multifocal, minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

STOMACH, GLANDULAR : Dilatation; glandular, multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PEYERS PATCHES - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 394**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	76	Group:	3 - Group 3	Sex:	Female
		Dose:	Group 3: 10 µg/BNT162a1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

No observations found

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
 HARDERIAN GLAND, LEFT : Inflammation, Chronic; focal, mild  
 INJECTION SITE I : intramuscular / interstitial; Fibrosis; mild  
 INJECTION SITE I : inter- / perimuscular; Fibrosis; mild  
 INJECTION SITE I : subcutis; Inflammation; mixed, moderate  
 INJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild  
 INJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate  
 INJECTION SITE I : myofiber; Necrosis; multifocal, minimal  
 INJECTION SITE I : myofiber; Degeneration; mild  
 INJECTION SITE I : subcutis; Edema; moderate  
 INJECTION SITE I : intramuscular / interstitial; Edema; mild  
 INJECTION SITE I : inter- / perimuscular; Edema; moderate  
 TEST NE, COLON : mucosa-associated lymphoid tissue; Hyperplasia; mild  
 K DNEY, LEFT : Congestion; mild  
 K DNEY, RIGHT : Congestion; mild  
 LIVER : Congestion; mild  
 LIVER : Hematopoiesis; extramedullary, multifocal, minimal  
 LIVER : Infiltration, Lymphocytic; multifocal, minimal  
 LIVER : periportal; Vacuolation; hepatocellular, minimal  
 LUNGS WITH BRONCHI : Hemorrhage; acute, focal, minimal  
 LYMPH NODE, CERVICAL : Histocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
 LYMPH NODE, ILIAC : Histiocytosis; minimal  
 LYMPH NODE, ILIAC : Plasmacytosis; mild  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 MAMMARY GLANDS : interstitium; Inflammation; mixed, focal, mild  
 NERVE, SCIATIC : perineurial; Inflammation; minimal

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

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Animal: 76 (Continued) Group: 3 - Group 3 Sex: Female

---

**Histopathology Observations [Correlation] (Continued):**

PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
UTERUS : Dilatation; mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	77	Group:	3 - Group 3	Sex:	Female
		Dose:	Group 3: 10 µg/BNT162a1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
 INJECTION SITE I : intramuscular / interstitial; Fibrosis; mild  
 INJECTION SITE I : inter- / perimuscular; Fibrosis; mild  
 INJECTION SITE I : subcutis; Inflammation; mixed, moderate  
 INJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, moderate  
 INJECTION SITE I : inter- / perimuscular; Inflammation; mixed, marked  
 INJECTION SITE I : myofiber; Degeneration; mild  
 INJECTION SITE I : intramuscular / interstitial; Edema; mild  
 INJECTION SITE I : inter- / perimuscular; Edema; moderate  
 K DNEY, LEFT : Congestion; mild  
 K DNEY, RIGHT : Congestion; mild  
 LIVER : Congestion; mild  
 LIVER : periportal; Vacuolation; hepatocellular, mild  
 LYMPH NODE, CERVICAL : Histiocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
 LYMPH NODE, ILIAC : Plasmacytosis; mild  
 LYMPH NODE, LIAC : Inflammation; minimal  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
 TRACHEA : Infiltration; mixed, minimal  
 VAGINA : Keratinization; epithelial, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

PARATHYROID, RIGHT - Not Present

PEYERS PATCHES - Not Present

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	78	Group:	3 - Group 3	Sex:	Female
		Dose:	Group 3: 10 µg/BNT162a1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | INJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate (H))

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

ADRENAL GLAND, LEFT : Dilation; vascular, minimal  
 BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
 HARDERIAN GLAND, LEFT : Infiltration; mixed, focal, minimal  
 NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : myofiber; Degeneration; mild  
 NJECTION SITE I : subcutis; Edema; moderate [INJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : intramuscular / interstitial; Edema; minimal  
 NJECTION SITE I : inter- / perimuscular; Edema; moderate [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : Hyperplasia; epidermal, widespread, moderate  
 NTST NE, RECTUM : (Comment) artefacts  
 K DNEY, LEFT : Congestion; moderate  
 K DNEY, LEFT : Infiltration, Lymphocytic; multifocal, minimal  
 K DNEY, LEFT : Inflammation, Chronic; interstitial, focal, minimal  
 K DNEY, RIGHT : Congestion; mild  
 LIVER : Congestion; mild  
 LIVER : periportal; Vacuolation; hepatocellular, minimal  
 LYMPH NODE, CERVICAL : Histiocytosis; mild  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
 LYMPH NODE, ILIAC : Plasmacytosis; minimal  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; minimal  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

---

Animal: 78 (Continued) Group: 3 - Group 3 Sex: Female

---

**Histopathology Observations [Correlation] (Continued):**

PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 399**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	79	Group:	3 - Group 3	Sex:	Female
		Dose:	Group 3: 10 µg/BNT162a1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) [NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: marked (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate (H)]

SPLEEN : Enlarged (TGL) [SPLEEN : Hematopoiesis; increased, minimal (H)]

UTERUS : Dilation (TGL) [UTERUS : Dilation; mild (H)]

UTERUS : Filled With Liquid : (Comment) clear (TGL) [UTERUS : Dilation; mild (H)]

ADRENAL GLAND, LEFT : Enlarged (TGL) [ADRENAL GLAND, LEFT : Hypertrophy; cortical, mild (H)]

ADRENAL GLAND, RIGHT : Enlarged (TGL) [ADRENAL GLAND, RIGHT : Hypertrophy; cortical, mild (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : Hypertrophy; cortical, mild [ADRENAL GLAND, LEFT : Enlarged (G)]

ADRENAL GLAND, RIGHT : Hypertrophy; cortical, mild [ADRENAL GLAND, RIGHT : Enlarged (G)]

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

CERVIX : Keratinization; epithelial, mild

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [NJECTION SITE I : Indurated (G)]

NJECTION SITE I : subcutis; Inflammation: mixed, moderate [NJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate [NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [NJECTION SITE I : Indurated (G)]

NJECTION SITE I : myofiber; Degeneration: mild

NJECTION SITE I : subcutis; Edema; marked [NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Edema; moderate [NJECTION SITE I : Indurated (G)]

NJECTION SITE I : Hyperplasia; epidermal, widespread, mild

KIDNEY, LEFT : Congestion; moderate

KIDNEY, LEFT : Mineralization; focal, mild

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; mild

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LYMPH NODE, CERVICAL : Histocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, ILIAC : Histiocytosis; mild

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	79 (Continued)	Group:	3 - Group 3	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

LYMPH NODE, ILIAC : Plasmacytosis; mild  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
NERVE, SCIATIC : Vacuolation; multifocal, minimal  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
SPLEEN : Hematopoiesis; increased, minimal [SPLEEN : Enlarged (G)]  
STOMACH, GLANDULAR : Dilation; glandular, multifocal, minimal  
TRACHEA : (Comment) artefacts  
UTERUS : Dilation; mild [UTERUS : Filled With Liquid : (Comment) clear (G) | UTERUS : Dilation (G)]  
VAGINA : Keratinization; epithelial, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

LACRIMAL GLAND, RIGHT - Not Present  
PARATHYROID, LEFT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 401**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	80	Group:	3 - Group 3	Sex:	Female
		Dose:	Group 3: 10 µg/BNT162a1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: marked (H) | NJECTION SITE I : inter- / perimuscular; Edema: marked (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, marked (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE, OS FEMORIS WITH JOINT : surrounding tissue; Inflammation: mixed, minimal  
 BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity: minimal  
 HARDERIAN GLAND, LEFT : Infiltration: lymphohistiocytic, focal, minimal  
 HEART : Infiltration, Lymphocytic; multifocal, minimal  
 NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Indurated : (Comment) muscle (G)]  
 NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Indurated : (Comment) muscle (G)]  
 NJECTION SITE I : subcutis; Inflammation: mixed, moderate [NJECTION SITE I : Indurated : (Comment) muscle (G)]  
 NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild [ NJECTION SITE I : Indurated : (Comment) muscle (G)]  
 NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, marked [NJECTION SITE I : Indurated : (Comment) muscle (G)]  
 NJECTION SITE I : myofiber; Degeneration: mild  
 NJECTION SITE I : subcutis; Edema: marked [ NJECTION SITE I : Indurated : (Comment) muscle (G)]  
 NJECTION SITE I : intramuscular / interstitial; Edema: mild [ NJECTION SITE I : Indurated : (Comment) muscle (G)]  
 NJECTION SITE I : inter- / perimuscular; Edema: marked [NJECTION SITE I : Indurated : (Comment) muscle (G)]  
 NJECTION SITE I : Hyperplasia: epidermal, widespread, mild  
 K DNEY, LEFT : Congestion; mild  
 K DNEY, RIGHT : Congestion; mild  
 LIVER : Congestion; mild  
 LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia: minimal  
 LYMPH NODE, CERVICAL : Histiocytosis; mild  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity: mild  
 LYMPH NODE, ILIAC : Plasmacytosis; mild  
 LYMPH NODE, LIAC : Inflammation; mild  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity: mild  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity: mild

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

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Animal:	80 (Continued)	Group:	3 - Group 3	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

MAMMARY GLANDS : interstitium: Inflammation: mixed, multifocal, minimal  
SPLEEN : Congestion: minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, RIGHT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 403**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	81	Group:	3 - Group 3	Sex:	Female
		Dose:	Group 3: 10 µg/BNT162a1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, marked (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : Dilation; vascular, minimal  
 ADRENAL GLAND, RIGHT : Dilation; vascular, minimal  
 BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
 BONE, STERNUM : (Comment) artefacts  
 NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : subcutis; Inflammation: mixed, moderate [NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, marked [INJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : myofiber; Degeneration; mild  
 NJECTION SITE I : subcutis; Edema: moderate [INJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : intramuscular / interstitial; Edema: mild [NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : inter- / perimuscular; Edema: moderate [NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : Hyperplasia: epidermal, widespread, moderate  
 NTTEST NE, COLON : mucosa-associated lymphoid tissue; Hyperplasia; mild  
 KIDNEY, LEFT : Congestion; moderate  
 KIDNEY, RIGHT : Congestion; moderate  
 LIVER : Congestion; mild  
 LIVER : periportal; Vacuolation; hepatocellular, minimal  
 LUNGS WITH BRONCHI : Hemorrhage; acute, focal, mild  
 LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; mild  
 LYMPH NODE, CERVICAL : Histiocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

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Animal: 81 (Continued) Group: 3 - Group 3 Sex: Female

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**Histopathology Observations [Correlation] (Continued):**

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
OPTIC NERVE, LEFT : macrophage; Pigmentation; brown, focal, minimal  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
THYMUS : Hemorrhage; acute, multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT**

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	82	Group:	3 - Group 3	Sex:	Female
		Dose:	Group 3: 10 µg/BNT162a1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate (H)]

UTERUS : Dilation (TGL)

UTERUS : Filled With Liquid : (Comment) clear (TGL)

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity: minimal  
 NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : subcutis; Inflammation: mixed, moderate [NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate [NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : subcutis; Edema: moderate [NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : intramuscular / interstitial; Edema: mild [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : inter- / perimuscular; Edema: moderate [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : Hyperplasia: epidermal, widespread, mild  
 NTTEST NE, CECUM : mucosa-associated lymphoid tissue: Hyperplasia: mild  
 K DNEY, LEFT : Congestion: moderate  
 K DNEY, RIGHT : Congestion: moderate  
 LIVER : Congestion: moderate  
 LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia: minimal  
 LUNGS WITH BRONCHI : perivascular; Infiltration, Eosinophilic; multifocal, minimal  
 LYMPH NODE, CERVICAL : Histiocytosis: mild  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity: mild  
 LYMPH NODE, ILIAC : Histiocytosis: mild  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity: mild  
 LYMPH NODE, MESENTERIC : Histiocytosis: mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity: mild  
 PANCREAS : Infiltration, Lymphocytic; focal, minimal

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

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Animal:	82 (Continued)	Group:	3 - Group 3	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
STOMACH, GLANDULAR : Infiltration, Lymphocytic; focal, minimal  
UTERUS : Dilation; mild  
VAGINA : Keratinization; epithelial, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, RIGHT - Not Present  
PEYERS PATCHES - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 407**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	83	Group:	3 - Group 3	Sex:	Female
		Dose:	Group 3: 10 µg/BNT162a1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) [NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate (H)]

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate (H)]

SPLEEN : Enlarged (TGL) [SPLEEN : Hematopoiesis; increased, minimal (H)]

UTERUS : Dilatation (TGL)

UTERUS : Filled With Liquid : (Comment) clear (TGL)

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

CERVIX : Keratinization; epithelial, mild

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : subcutis; Inflammation: mixed, moderate [NJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate [NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : myofiber; Degeneration: mild

NJECTION SITE I : subcutis; Edema: moderate [NJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Edema: mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Edema: moderate [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : Hyperplasia: epidermal, widespread, moderate

K DNEY, LEFT : Congestion: moderate

K DNEY, RIGHT : Congestion: moderate

K DNEY, RIGHT : tubule; Cast: hyaline, focal, minimal

LIVER : Congestion: mild

LIVER : periportal: Vacuolation; hepatocellular, minimal

LYMPH NODE, CERVICAL : Histocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity: mild

LYMPH NODE, ILIAC : Histiocytosis; mild

LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate [LYMPH NODE, ILIAC : Enlarged (G)]

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

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Animal:	83 (Continued)	Group:	3 - Group 3	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

LYMPH NODE, MESENTERIC : Histocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
MAMMARY GLANDS : interstitium; Inflammation; mixed, focal, mild  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
SPLEEN : Congestion; minimal  
SPLEEN : Hematopoiesis; increased, minimal [SPLEEN : Enlarged (G)]  
VAGINA : Keratinization; epithelial, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, LEFT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT**

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	84	Group:	3 - Group 3	Sex:	Female
		Dose:	Group 3: 10 µg/BNT162a1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Enlarged (TGL) [NJECTION SITE I : inter- / perimuscular; Fibrosis; mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild (H) | NJECTION SITE I : subcutis; Edema; moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema; moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema; mild (H) | NJECTION SITE I : subcutis; Inflammation; mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild (H)]

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Plasmacytosis; mild (H) | LYMPH NODE, ILIAC : germinal center; Increased Cellularity; mild (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

BONE, STERNUM : surrounding tissue; muscle; Infiltration; mixed, focal, mild

HARDERIAN GLAND, RIGHT : Infiltration; mixed, multifocal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild [ NJECTION SITE I : Enlarged (G) ]

NJECTION SITE I : inter- / perimuscular; Fibrosis; mild [ NJECTION SITE I : Enlarged (G) ]

NJECTION SITE I : subcutis; Inflammation; mixed, moderate [NJECTION SITE I : Enlarged (G) ]

NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild [ NJECTION SITE I : Enlarged (G) ]

NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate [ NJECTION SITE I : Enlarged (G) ]

NJECTION SITE I : myofiber; Degeneration; mild

NJECTION SITE I : subcutis; Edema; moderate [NJECTION SITE I : Enlarged (G) ]

NJECTION SITE I : intramuscular / interstitial; Edema; mild [ NJECTION SITE I : Enlarged (G) ]

NJECTION SITE I : inter- / perimuscular; Edema; moderate [ NJECTION SITE I : Enlarged (G) ]

NJECTION SITE I : Hyperplasia; epidermal, widespread, moderate

K DNEY, LEFT : Congestion; mild

K DNEY, RIGHT : Congestion; mild

LIVER : Congestion; moderate

LIVER : periportal; Vacuolation; hepatocellular, minimal

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

LYMPH NODE, CERVICAL : Histocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, LIAC : Histocytosis; minimal

LYMPH NODE, LIAC : Plasmacytosis; mild [LYMPH NODE, LIAC : Enlarged (G) ]

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild [LYMPH NODE, ILIAC : Enlarged (G) ]

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

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Animal: 84 (Continued) Group: 3 - Group 3 Sex: Female

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**Histopathology Observations [Correlation] (Continued):**

LYMPH NODE, MESENTERIC : Histocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
SPLEEN : Congestion; mild  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
STOMACH, GLANDULAR : Dilatation; glandular, focal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, LEFT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	85	Group:	3 - Group 3	Sex:	Female
		Dose:	Group 3: 10 µg/BNT162a1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

INJECTION SITE I : Thickened (TGL) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE I : subcutis; Edema: mild (H) | INJECTION SITE I : inter- / perimuscular; Edema: minimal (H) | INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H)

LYMPH NODE, ILIAC : Enlarged (TGL) | LYMPH NODE, ILIAC : Plasmacytosis; mild (H) | LYMPH NODE, ILIAC : Histiocytosis; mild (H) | LYMPH NODE, LIAC : germinal center; Increased Cellularity: mild (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity: minimal

CERVIX : Keratinization: epithelial, mild

HARDERIAN GLAND, LEFT : Infiltration: mixed, multifocal, mild

INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild | INJECTION SITE I : Thickened (G)

INJECTION SITE I : inter- / perimuscular; Fibrosis: mild | INJECTION SITE I : Thickened (G)

INJECTION SITE I : subcutis; Inflammation: mixed, moderate | INJECTION SITE I : Thickened (G)

INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild | INJECTION SITE I : Thickened (G)

INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate | INJECTION SITE I : Thickened (G)

INJECTION SITE I : myofiber; Degeneration: mild

INJECTION SITE I : subcutis; Edema: mild | INJECTION SITE I : Thickened (G)

INJECTION SITE I : inter- / perimuscular; Edema: minimal | INJECTION SITE I : Thickened (G)

TESTIS, RECTUM : mucosa-associated lymphoid tissue; Hyperplasia: minimal

KIDNEY, LEFT : Congestion; mild

KIDNEY, RIGHT : Congestion; mild

LIVER : Congestion; mild

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LYMPH NODE, CERVICAL : Histiocytosis; mild

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity: mild

LYMPH NODE, LIAC : Histiocytosis; mild | LYMPH NODE, ILIAC : Enlarged (G)

LYMPH NODE, ILIAC : Plasmacytosis; mild | LYMPH NODE, ILIAC : Enlarged (G)

LYMPH NODE, LIAC : Inflammation; mild

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild | LYMPH NODE, ILIAC : Enlarged (G)

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

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Animal: 85 (Continued) Group: 3 - Group 3 Sex: Female

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**Histopathology Observations [Correlation] (Continued):**

OPTIC NERVE, RIGHT : macrophage; Infiltration; foamy, mild  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
THYMUS : Hemorrhage; acute, multifocal, minimal  
THYROID, LEFT : Cyst; keratinized, single, minimal  
UTERUS : Dilation; mild  
VAGINA : Keratinization; epithelial, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, LEFT - Not Present  
PARATHYROID, RIGHT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	86	Group:	3 - Group 3	Sex:	Female
		Dose:	Group 3: 10 µg/BNT162a1/animal		
Death Date:	29/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	29/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

CERVIX : Keratinization; epithelial, minimal

HARDERIAN GLAND, RIGHT : Infiltration; mixed, focal, minimal

INJECTION SITE I : inter- / perimuscular; Fibrosis; minimal

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; moderate

LIVER : (Comment) artefacts

LIVER : Congestion; mild

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LYMPH NODE, CERVICAL : Histocytosis; mild

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, ILIAC : Histiocytosis; minimal

LYMPH NODE, ILIAC : germinal center; Increased Cellularity; minimal

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

OPTIC NERVE, LEFT : macrophage; Pigmentation; brown, focal, minimal

PEYERS PATCHES : germinal center; Increased Cellularity; mild

PITUITARY GLAND : pars intermedia; Cyst; minimal

SPLEEN : Congestion; mild

THYMUS : Hemorrhage; acute, multifocal, minimal

VAGINA : Keratinization; epithelial, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	87	Group:	3 - Group 3	Sex:	Female
		Dose:	Group 3: 10 µg/BNT162a1/animal		
Death Date:	29/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	29/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

Gross Pathology Animal Details:

No animal details found

Gross Pathology Observations [Correlation]:

No observations found

Gross Pathology - The following Tissues were Not Examined:

None

Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

Histopathology Animal Details:

No animal details found

Histopathology Observations [Correlation]:

CERVIX : Keratinization; epithelial, mild

INJECTION SITE I : inter- / perimuscular; Fibrosis; mild

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; moderate

K DNEY, RIGHT : tubule; Cast; hyaline, focal, minimal

LIVER : Congestion; moderate

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LYMPH NODE, CERVICAL : Histocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, ILIAC : Histiocytosis; minimal

LYMPH NODE, ILIAC : Plasmacytosis; minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate

LYMPH NODE, MESENTERIC : Erythrophagocytosis; minimal

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

UTERUS : Dilatation; mild

VAGINA : Keratinization; epithelial, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

Histopathology - The following Tissues were Not Examined:

PARATHYROID, LEFT - Not Present

PARATHYROID, RIGHT - Not Present

Histopathology - The following Protocol Required Tissues were Not Processed:

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	88	Group:	3 - Group 3	Sex:	Female
		Dose:	Group 3: 10 µg/BNT162a1/animal		
Death Date:	29/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	29/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : Dilatation; vascular, minimal

INJECTION SITE I : inter- / perimuscular; Fibrosis; minimal

INJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, multifocal, minimal

TESTIS, COLON : mucosa-associated lymphoid tissue; Hyperplasia; mild

KIDNEY, LEFT : Congestion; moderate

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; mild

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LUNGS WITH BRONCHI : perivascular; Infiltration, Eosinophilic; multifocal, minimal

LYMPH NODE, CERVICAL : Histocytosis; mild

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, LIAC : Histiocytosis; minimal

LYMPH NODE, MESENTERIC : Histiocytosis; minimal

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

SKELETAL MUSCLE : Infiltration; lymphohistiocytic, focal, minimal

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

STOMACH, GLANDULAR : mucosa-associated lymphoid tissue; Hyperplasia; mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

PARATHYROID, LEFT - Not Present

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	89	Group:	3 - Group 3	Sex:	Female
		Dose:	Group 3: 10 µg/BNT162a1/animal		
Death Date:	29/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	29/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : Dilation; vascular, minimal

INJECTION SITE I : inter- / perimuscular; Fibrosis; minimal

INJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, multifocal, minimal

KIDNEY, LEFT : Congestion; moderate

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LYMPH NODE, CERVICAL : Histiocytosis; mild

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; moderate

LYMPH NODE, ILIAC : Histiocytosis; mild

LYMPH NODE, ILIAC : Plasmacytosis; minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : Mineralization; multifocal, mild

PEYERS PATCHES : Inflammation, Granulomatous; follicular, multifocal, mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

TRACHEA : Infiltration, Lymphocytic; multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

PARATHYROID, LEFT - Not Present

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	90	Group:	3 - Group 3	Sex:	Female
		Dose:	Group 3: 10 µg/BNT162a1/animal		
Death Date:	29/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	29/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : Dilation; vascular, minimal

INJECTION SITE I : intramuscular / interstitial; Fibrosis; multifocal, minimal

INJECTION SITE I : inter- / perimuscular; Fibrosis; minimal

INJECTION SITE I : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, minimal

INJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, minimal

TESTIS, CECUM : mucosa-associated lymphoid tissue; Hyperplasia; mild

KIDNEY, LEFT : Congestion; moderate

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; mild

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LYMPH NODE, CERVICAL : Histiocytosis; mild

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, LIAC : Histiocytosis; minimal

LYMPH NODE, ILIAC : Plasmacytosis; mild

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

SPLEEN : Congestion; mild

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

STOMACH, GLANDULAR : Cyst; single, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

PARATHYROID, LEFT - Not Present

THYROID, LEFT - Not Present

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	91	Group:	4 - Group 4	Sex:	Male
		Dose:	Group 4: 30 µg/BNT162b1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) [INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | INJECTION SITE I : subcutis; Inflammation: mixed, marked (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, marked (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate (H)]

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Plasmacytosis; moderate (H) | LYMPH NODE, ILIAC : germinal center; Increased Cellularity: mild (H)]

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

ADRENAL GLAND, LEFT : (Comment) artefacts

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity: minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : subcutis; Inflammation: mixed, marked [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, marked [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : myofiber; Degeneration: mild

NJECTION SITE I : subcutis; Edema: moderate [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Edema: mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Edema: moderate [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : Hyperplasia: epidermal, widespread, moderate

K DNEY, LEFT : Congestion: mild

K DNEY, RIGHT : Congestion: mild

LIVER : Congestion: mild

LIVER : Necrosis: focal, mild

LIVER : Infiltration, Neutrophilic: focal, mild

LIVER : Infiltration, Lymphocytic: focal, minimal

LIVER : Vacuolation: hepatocellular, focal, mild

LUNGS WITH BRONCHI : Ossification: focal, minimal

LYMPH NODE, CERVICAL : Histocytosis: minimal

LYMPH NODE, LIAC : Histocytosis: minimal

LYMPH NODE, LIAC : Plasmacytosis; moderate [LYMPH NODE, LIAC : Enlarged (G)]

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

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Animal:	91 (Continued)	Group:	4 - Group 4	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
LYMPH NODE, MESENTERIC : Histocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild  
THYMUS : Hemorrhage; acute, multifocal, minimal  
TRACHEA : (Comment) artefacts

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, LEFT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	92	Group:	4 - Group 4	Sex:	Male
		Dose:	Group 4: 30 µg/BNT162b1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: minimal (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate (H)]

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

ADRENAL GLAND, LEFT : (Comment) artefacts  
 ADRENAL GLAND, RIGHT : (Comment) artefacts  
 BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity: minimal  
 EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal  
 NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : perivascular; Inflammation: plasmacytic, multifocal, moderate  
 NJECTION SITE I : subcutis; Inflammation: mixed, moderate [NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate [NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : myofiber; Degeneration: mild  
 NJECTION SITE I : subcutis; Edema: moderate [NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : intramuscular / interstitial; Edema: minimal [NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : inter- / perimuscular; Edema: moderate [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : Hyperplasia: epidermal, widespread, moderate  
 KIDNEY, LEFT : Congestion; mild  
 KIDNEY, LEFT : tubule; Basophilia; multifocal, minimal  
 KIDNEY, LEFT : Infiltration, Lymphocytic; multifocal, minimal  
 KIDNEY, RIGHT : Congestion; mild  
 LIVER : Congestion; mild  
 LYMPH NODE, CERVICAL : Histocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity: minimal  
 LYMPH NODE, ILIAC : Histiocytosis; mild  
 LYMPH NODE, ILIAC : Plasmacytosis; mild  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	92 (Continued)	Group:	4 - Group 4	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

LYMPH NODE, MESENTERIC : Erythrophagocytosis; minimal  
LYMPH NODE, MESENTERIC : Histocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild  
URINARY BLADDER : Infiltration, Lymphocytic; focal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, LEFT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 422**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	93	Group:	4 - Group 4	Sex:	Male
		Dose:	Group 4: 30 µg/BNT162b1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Plasmacytosis; mild (H) | LYMPH NODE, ILIAC : germinal center; Increased Cellularity; mild (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild

NJECTION SITE I : inter- / perimuscular; Fibrosis; mild

NJECTION SITE I : subcutis; Inflammation; mixed, moderate

NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, moderate

NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, marked

NJECTION SITE I : myofiber; Degeneration; mild

NJECTION SITE I : subcutis; Edema; moderate

NJECTION SITE I : intramuscular / interstitial; Edema; minimal

NJECTION SITE I : inter- / perimuscular; Edema; moderate

NJECTION SITE I : Hyperplasia; epidermal, widespread, mild

NTEST NE, CECUM : mucosa-associated lymphoid tissue; Hyperplasia; mild

NTEST NE, RECTUM : (Comment) artefacts

K DNEY, LEFT : Congestion; moderate

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LIVER : Infiltration, Eosinophilic; focal, minimal

LUNGS WITH BRONCHI : Hemorrhage; acute, multifocal, minimal

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal

LYMPH NODE, LIAC : Histiocytosis; minimal

LYMPH NODE, ILIAC : Plasmacytosis; mild [LYMPH NODE, LIAC : Enlarged (G)]

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild [LYMPH NODE, ILIAC : Enlarged (G)]

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

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Animal: 93 (Continued) Group: 4 - Group 4 Sex: Male

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**Histopathology Observations [Correlation] (Continued):**

SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

MAMMARY GLANDS - Not Present  
OPTIC NERVE, RIGHT - Not Present  
PARATHYROID, LEFT - Not Present  
PARATHYROID, RIGHT - Not Present  
THYROID, LEFT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	94	Group:	4 - Group 4	Sex:	Male
		Dose:	Group 4: 30 µg/BNT162b1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : Dilatation; vascular, minimal  
 BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
 INJECTION SITE I : intramuscular / interstitial; Fibrosis; mild  
 INJECTION SITE I : inter- / perimuscular; Fibrosis; mild  
 INJECTION SITE I : subcutis; Inflammation; mixed, moderate  
 INJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, moderate  
 INJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate  
 INJECTION SITE I : myofiber; Degeneration; mild  
 INJECTION SITE I : subcutis; Edema; mild  
 INJECTION SITE I : intramuscular / interstitial; Edema; mild  
 INJECTION SITE I : inter- / perimuscular; Edema; mild  
 INJECTION SITE I : Hyperplasia; epidermal, widespread, mild  
 TESTIS, COLON : mucosa-associated lymphoid tissue; Hyperplasia; mild  
 KIDNEY, LEFT : Congestion; mild  
 KIDNEY, LEFT : tubule; Basophilia; focal, minimal  
 KIDNEY, RIGHT : Congestion; mild  
 LIVER : Congestion; mild  
 LIVER : Infiltration, Lymphocytic; multifocal, minimal  
 LUNGS WITH BRONCHI : Hemorrhage; acute, multifocal, minimal  
 LYMPH NODE, CERVICAL : Histocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal  
 LYMPH NODE, ILIAC : Histiocytosis; mild  
 LYMPH NODE, ILIAC : germinal center; Increased Cellularity; minimal  
 LYMPH NODE, MESENTERIC : Histiocytosis; moderate  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
 PROSTATE GLAND : Inflammation; purulent, focal, mild  
 SPLEEN : Congestion; minimal  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

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Animal: 94 (Continued) Group: 4 - Group 4 Sex: Male

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Histopathology Observations [Correlation] (Continued):

THYMUS : Hemorrhage: acute, multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

Histopathology - The following Tissues were Not Examined:

PARATHYROID, LEFT - Not Present

PARATHYROID, RIGHT - Not Present

Histopathology - The following Protocol Required Tissues were Not Processed:

None

**HISTOPATHOLOGY REPORT****PAGE: 426**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	95	Group:	4 - Group 4	Sex:	Male
		Dose:	Group 4: 30 µg/BNT162b1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) [INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE I : subcutis; Edema: mild (H) | INJECTION SITE I : inter- / perimuscular; Edema: mild (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate (H)]

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Plasmacytosis; moderate (H) | LYMPH NODE, ILIAC : germinal center; Increased Cellularity; mild (H)]

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

HEART : Infiltration; mixed, focal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : myofiber; Degeneration; mild

NJECTION SITE I : subcutis; Edema: mild [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Edema: mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Edema: mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : Hyperplasia; epidermal, widespread, mild

K DNEY, LEFT : Congestion; mild

K DNEY, RIGHT : Congestion; mild

LIVER : Congestion; moderate

LUNGS WITH BRONCHI : Hemorrhage; acute, multifocal, minimal

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

LUNGS WITH BRONCHI : perivascular; Infiltration, Eosinophilic; multifocal, minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal

LYMPH NODE, ILIAC : Histiocytosis; mild

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

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Animal:	95 (Continued)	Group:	4 - Group 4	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

LYMPH NODE, LIAC : Plasmacytosis; moderate [LYMPH NODE, LIAC : Enlarged : (Comment) right (G)]  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild [LYMPH NODE, ILIAC : Enlarged : (Comment) right (G)]  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild  
TRACHEA : (Comment) artefacts

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, LEFT - Not Present  
PARATHYROID, RIGHT - Not Present  
URINARY BLADDER - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	96	Group:	4 - Group 4	Sex:	Male
		Dose:	Group 4: 30 µg/BNT162b1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) [NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: mild (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate (H)]

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Plasmacytosis; moderate (H) | LYMPH NODE, ILIAC : germinal center; Increased Cellularity; mild (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Indurated : (Comment) muscles (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Indurated : (Comment) muscles (G)]

NJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Indurated : (Comment) muscles (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate [INJECTION SITE I : Indurated : (Comment) muscles (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Indurated : (Comment) muscles (G)]

NJECTION SITE I : myofiber; Degeneration; mild

NJECTION SITE I : subcutis; Edema: mild [NJECTION SITE I : Indurated : (Comment) muscles (G)]

NJECTION SITE I : intramuscular / interstitial; Edema: mild [NJECTION SITE I : Indurated : (Comment) muscles (G)]

NJECTION SITE I : inter- / perimuscular; Edema: moderate [NJECTION SITE I : Indurated : (Comment) muscles (G)]

NJECTION SITE I : Hyperplasia; epidermal, widespread, mild

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LIVER : Hematopoiesis; extramedullary, focal, minimal

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal

LYMPH NODE, ILIAC : Histiocytosis; mild

LYMPH NODE, LIAC : Plasmacytosis; moderate [LYMPH NODE, LIAC : Enlarged (G)]

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild [LYMPH NODE, ILIAC : Enlarged (G)]

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

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Animal: 96 (Continued) Group: 4 - Group 4 Sex: Male

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**Histopathology Observations [Correlation] (Continued):**

LYMPH NODE, MESENTERIC : Histocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild  
THYMUS : Hemorrhage; acute, focal, minimal  
TRACHEA : Infiltration; mixed, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	97	Group:	4 - Group 4	Sex:	Male
		Dose:	Group 4: 30 µg/BNT162b1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration; mixed, multifocal, minimal

NJECTON SITE I : subcutis; Inflammation; mixed, mild

NJECTON SITE I : intramuscular / interstitial; Inflammation; mixed, mild

NJECTON SITE I : inter- / perimuscular; Inflammation; mixed, mild

NTEST NE, CECUM : mucosa-associated lymphoid tissue; Hyperplasia; mild

NTEST NE, CECUM : Infiltration, Eosinophilic; increased, minimal

NTEST NE, COLON : mucosa-associated lymphoid tissue; Hyperplasia; mild

NTEST NE, COLON : Infiltration, Eosinophilic; increased, minimal

NTEST NE, RECTUM : Infiltration, Eosinophilic; increased, minimal

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LIVER : Hematopoiesis; extramedullary, multifocal, minimal

LYMPH NODE, CERVICAL : (Comment) artefacts

LYMPH NODE, CERVICAL : Histocytosis; mild

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, ILIAC : Histiocytosis; mild

LYMPH NODE, LIAC : Plasmacytosis; moderate

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; mild

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild

THYMUS : Hemorrhage; acute, multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

---

Animal: 97 (Continued) Group: 4 - Group 4 Sex: Male

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Histopathology - The following Tissues were Not Examined:

PARATHYROID, LEFT - Not Present  
PARATHYROID, RIGHT - Not Present

Histopathology - The following Protocol Required Tissues were Not Processed:

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	98	Group:	4 - Group 4	Sex:	Male
		Dose:	Group 4: 30 µg/BNT162b1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) [INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE I : subcutis; Edema: mild (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | INJECTION SITE I : inter- / perimuscular; Edema: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate (H)]

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Plasmacytosis; moderate (H) | LYMPH NODE, ILIAC : germinal center; Increased Cellularity; mild (H)]  
SPLEEN : Enlarged (TGL)

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity: minimal  
EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal  
EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal  
NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]  
NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]  
NJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]  
NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]  
NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Indurated (G)]  
NJECTION SITE I : myofiber; Degeneration: mild  
NJECTION SITE I : subcutis; Edema: mild [INJECTION SITE I : Indurated (G)]  
NJECTION SITE I : inter- / perimuscular; Edema: mild [ NJECTION SITE I : Indurated (G)]  
NJECTION SITE I : inter- / perimuscular; Edema: moderate [ NJECTION SITE I : Indurated (G)]  
NJECTION SITE I : Hyperplasia; epidermal, widespread, mild  
K DNEY, LEFT : Congestion; moderate  
K DNEY, LEFT : Mineralization; focal, minimal  
K DNEY, RIGHT : Congestion; moderate  
KIDNEY, RIGHT : tubule; Basophilia; focal, minimal  
LIVER : Congestion; moderate  
LIVER : Hematopoiesis; extramedullary, focal, minimal  
LIVER : Infiltration, Lymphocytic; multifocal, minimal  
LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
LYMPH NODE, CERVICAL : Histiocytosis; minimal

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	98 (Continued)	Group:	4 - Group 4	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal  
LYMPH NODE, ILIAC : Histiocytosis; mild  
LYMPH NODE, LIAC : Plasmacytosis; moderate [LYMPH NODE, LIAC : Enlarged (G)]  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
LYMPH NODE, MESENTERIC : Histiocytosis; moderate  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
NERVE, SCIATIC : perineural; Inflammation; moderate  
PEYERS PATCHES : Mineralization; multifocal, mild  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
PROSTATE GLAND : Infiltration; mixed, focal, mild  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
STOMACH, GLANDULAR : Infiltration, Lymphocytic; focal, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, LEFT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT**

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	99	Group:	4 - Group 4	Sex:	Male
		Dose:	Group 4: 30 µg/BNT162b1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) [NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild (H) | NJECTION SITE I : subcutis; Edema; marked (H) | NJECTION SITE I : inter- / perimuscular; Edema; marked (H) | NJECTION SITE I : intramuscular / interstitial; Edema; mild (H) | NJECTION SITE I : subcutis; Inflammation; mixed, marked (H) | NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, marked (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, moderate (H)]

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Plasmacytosis; moderate (H) | LYMPH NODE, ILIAC : germinal center; Increased Cellularity; mild (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

HARDERIAN GLAND, LEFT : Infiltration, Lymphocytic; focal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild [ NJECTION SITE I : Indurated : (Comment) muscles (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis; mild [ NJECTION SITE I : Indurated : (Comment) muscles (G)]

NJECTION SITE I : subcutis; Inflammation; mixed, marked [NJECTION SITE I : Indurated : (Comment) muscles (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, moderate [NJECTION SITE I : Indurated : (Comment) muscles (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, marked [NJECTION SITE I : Indurated : (Comment) muscles (G)]

NJECTION SITE I : myofiber; Degeneration; mild

NJECTION SITE I : subcutis; Edema; marked [NJECTION SITE I : Indurated : (Comment) muscles (G)]

NJECTION SITE I : intramuscular / interstitial; Edema; mild [ NJECTION SITE I : Indurated : (Comment) muscles (G)]

NJECTION SITE I : inter- / perimuscular; Edema; marked [NJECTION SITE I : Indurated : (Comment) muscles (G)]

NJECTION SITE I : Hyperplasia; epidermal, widespread, moderate

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; moderate

LIVER : Congestion; mild

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

LUNGS WITH BRONCHI : perivascular; Infiltration, Eosinophilic; multifocal, mild

LUNGS WITH BRONCHI : Infiltration; lymphohistiocytic, focal, mild

LYMPH NODE, CERVICAL : Histiocytosis; mild

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal

LYMPH NODE, ILIAC : Histiocytosis; minimal

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

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Animal: 99 (Continued) Group: 4 - Group 4 Sex: Male

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**Histopathology Observations [Correlation] (Continued):**

LYMPH NODE, LIAC : Plasmacytosis; moderate [LYMPH NODE, LIAC : Enlarged (G)]  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; minimal  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, LEFT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

## HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	100	Group:	4 - Group 4	Sex:	Male
		Dose:	Group 4: 30 µg/BNT162b1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis; mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild (H) | NJECTION SITE I : subcutis; Edema; moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema; moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema; mild (H) | NJECTION SITE I : subcutis; Inflammation; mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, moderate (H)]

NJECTION SITE I : Thickened (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis; mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild (H) | NJECTION SITE I : subcutis; Edema; moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema; moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema; mild (H) | NJECTION SITE I : subcutis; Inflammation; mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, moderate (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

HEART : Infiltration; lymphohistiocytic, focal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis; mild | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)]

NJECTION SITE I : subcutis; Inflammation; mixed, moderate | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, moderate | NJECTION SITE I : Indurated : (Comment) muscles (G) |

NJECTION SITE I : Thickened : (Comment) muscles (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)]

NJECTION SITE I : myofiber; Degeneration; minimal

NJECTION SITE I : subcutis; Edema; moderate | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)]

NJECTION SITE I : intramuscular / interstitial; Edema; mild | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)]

NJECTION SITE I : inter- / perimuscular; Edema; moderate | NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)]

NJECTION SITE I : Hyperplasia; epidermal, widespread, moderate

NTEST NE, RECTUM : Infiltration, Eosinophilic; increased, mild

KIDNEY, LEFT : Congestion; moderate

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	100 (Continued)	Group:	4 - Group 4	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

K DNEY, LEFT : Infiltration, Lymphocytic; multifocal, minimal  
KIDNEY, RIGHT : Congestion; moderate  
LIVER : Congestion; moderate  
LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
LYMPH NODE, CERVICAL : Histocytosis; minimal  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal  
LYMPH NODE, LIAC : Plasmacytosis; moderate  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild  
STOMACH, GLANDULAR : Dilatation; glandular, multifocal, minimal  
THYMUS : Hemorrhage; acute, focal, mild  
TRACHEA : Infiltration; mixed, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, RIGHT - Not Present  
PEYERS PATCHES - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	101	Group:	4 - Group 4	Sex:	Male
		Dose:	Group 4: 30 µg/BNT162b1/animal		
Death Date:	23/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	23/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : Dilatation; vascular, minimal  
 EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal  
 EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal  
 NJECTION SITE I : inter- / perimuscular; Fibrosis; mild  
 NJECTION SITE I : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, minimal  
 NJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, mild  
 KIDNEY, LEFT : Congestion; moderate  
 KIDNEY, RIGHT : Congestion; moderate  
 LIVER : Congestion; moderate  
 LIVER : Infiltration, Lymphocytic; multifocal, minimal  
 LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; mild  
 LYMPH NODE, CERVICAL : Histocytosis; mild  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
 LYMPH NODE, LIAC : Histiocytosis; minimal  
 LYMPH NODE, LIAC : Plasmacytosis; minimal  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
 LYMPH NODE, MESENTERIC : Histiocytosis; minimal  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
 TRACHEA : Infiltration, Lymphocytic; focal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

PARATHYROID, RIGHT - Not Present

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	102	Group:	4 - Group 4	Sex:	Male
		Dose:	Group 4: 30 µg/BNT162b1/animal		
Death Date:	23/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	23/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : Dilatation; vascular, minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

HARDERIAN GLAND, LEFT : Infiltration, Lymphocytic; focal, minimal

HEART : Infiltration, Lymphocytic; focal, minimal

INJECTION SITE I : intramuscular / interstitial; Fibrosis; minimal

INJECTION SITE I : inter- / perimuscular; Fibrosis; mild

INJECTION SITE I : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, minimal

INJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, multifocal, mild

KIDNEY, LEFT : Congestion; moderate

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LIVER : Vacuolation; hepatocellular, multifocal, mild

LUNGS WITH BRONCHI : Hemorrhage; acute, multifocal, mild

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, LIAC : Histiocytosis; minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity; minimal

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

PROSTATE GLAND : Infiltration, Lymphocytic; widespread, mild

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	103	Group:	4 - Group 4	Sex:	Male
		Dose:	Group 4: 30 µg/BNT162b1/animal		
Death Date:	23/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	23/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

TESTIS, RIGHT : Enlarged (TGL)

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : Dilation; vascular, minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; focal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Oligospermia; mild

INJECTION SITE I : intramuscular / interstitial; Fibrosis; minimal

INJECTION SITE I : inter- / perimuscular; Fibrosis; mild

INJECTION SITE I : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, minimal

INJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, mild

K DNEY, LEFT : Congestion; moderate

K DNEY, LEFT : Infiltration, Lymphocytic; multifocal, minimal

KIDNEY, RIGHT : Congestion; moderate

K DNEY, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

LIVER : Congestion; moderate

LIVER : Necrosis; focal, minimal

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, LIAC : Histiocytosis; minimal

LYMPH NODE, LIAC : Plasmacytosis; minimal

LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

PROSTATE GLAND : Infiltration, Lymphocytic; multifocal, minimal

SPLEEN : Congestion; minimal

TESTIS, LEFT : Dilation; tubular, mild

TESTIS, RIGHT : Dilation; tubular, moderate

THYMUS : Hemorrhage; acute, multifocal, minimal

TRACHEA : (Comment) artefacts

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

---

Animal: 103 (Continued) Group: 4 - Group 4 Sex: Male

---

Any remaining protocol required tissues, which have been examined, have no visible lesions

Histopathology - The following Tissues were Not Examined:

PARATHYROID, RIGHT - Not Present

Histopathology - The following Protocol Required Tissues were Not Processed:

None

**HISTOPATHOLOGY REPORT****PAGE: 442**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	104	Group:	4 - Group 4	Sex:	Male
		Dose:	Group 4: 30 µg/BNT162b1/animal		
Death Date:	23/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	23/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

No observations found

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal  
 INJECTION SITE I : intramuscular / interstitial; Fibrosis; multifocal, minimal  
 INJECTION SITE I : inter- / perimuscular; Fibrosis; mild  
 INJECTION SITE I : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, minimal  
 INJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, mild  
 KIDNEY, LEFT : Congestion; moderate  
 KIDNEY, RIGHT : Congestion; moderate  
 LIVER : Congestion; moderate  
 LIVER : Infiltration, Lymphocytic; multifocal, minimal  
 LUNGS WITH BRONCHI : macrophage; alveolus; Infiltration; focal, minimal  
 LYMPH NODE, CERVICAL : Histocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
 LYMPH NODE, ILIAC : Histiocytosis; mild  
 LYMPH NODE, ILIAC : germinal center; Increased Cellularity; minimal  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
 PROSTATE GLAND : Infiltration, Lymphocytic; multifocal, mild  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	105	Group:	4 - Group 4	Sex:	Male
		Dose:	Group 4: 30 µg/BNT162b1/animal		
Death Date:	23/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	23/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal  
 INJECTION SITE I : intramuscular / interstitial; Fibrosis; multifocal, minimal  
 INJECTION SITE I : inter- / perimuscular; Fibrosis; mild  
 INJECTION SITE I : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, minimal  
 INJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, minimal  
 NTTEST NE, RECTUM : (Comment) artefacts  
 K DNEY, LEFT : Congestion; moderate  
 K DNEY, RIGHT : Congestion; moderate  
 LIVER : Congestion; moderate  
 LUNGS WITH BRONCHI : Hemorrhage; acute, multifocal, mild  
 LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
 LYMPH NODE, CERVICAL : Histiocytosis; mild  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
 LYMPH NODE, ILIAC : Histiocytosis; mild  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; minimal  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 OPTIC NERVE, RIGHT : macrophage; Infiltration; foamy, mild  
 PEYERS PATCHES : germinal center; Increased Cellularity; mild  
 PROSTATE GLAND : Infiltration, Lymphocytic; focal, minimal  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	106	Group:	4 - Group 4	Sex:	Female
		Dose:	Group 4: 30 µg/BNT162b1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
 CERVIX : Keratinization; epithelial, mild  
 NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : subcutis; Inflammation: mixed, moderate [NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate [NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : myofiber; Degeneration; mild  
 NJECTION SITE I : subcutis; Edema: moderate [NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : intramuscular / interstitial; Edema: mild [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : inter- / perimuscular; Edema: moderate [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : Hyperplasia: epidermal, widespread, mild  
 NTST NE, RECTUM : Infiltration, Eosinophilic; increased, minimal  
 K DNEY, LEFT : Congestion; moderate  
 K DNEY, LEFT : Infiltration, Lymphocytic; focal, minimal  
 K DNEY, RIGHT : Congestion; moderate  
 LIVER : Congestion; mild  
 LIVER : Hematopoiesis; extramedullary, multifocal, minimal  
 LIVER : Infiltration; mixed, focal, minimal  
 LIVER : Infiltration, Lymphocytic; multifocal, minimal  
 LIVER : periportal; Vacuolation; hepatocellular, minimal  
 LYMPH NODE, CERVICAL : Histocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal  
 LYMPH NODE, ILIAC : Histiocytosis; mild  
 LYMPH NODE, ILIAC : Plasmacytosis; mild

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

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Animal: 106 (Continued) Group: 4 - Group 4 Sex: Female

---

**Histopathology Observations [Correlation] (Continued):**

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
NERVE, SCIATIC : perineural; Inflammation; mild  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild  
STOMACH, GLANDULAR : Dilatation; glandular, focal, minimal  
UTERUS : Dilatation; mild  
VAGINA : Keratinization; epithelial, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, LEFT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	107	Group:	4 - Group 4	Sex:	Female
		Dose:	Group 4: 30 µg/BNT162b1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)	Histo Recorder:	(b) (6), (b) (4)

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

No observations found

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
 INJECTION SITE I : intramuscular / interstitial; Fibrosis; mild  
 INJECTION SITE I : inter- / perimuscular; Fibrosis; mild  
 INJECTION SITE I : subcutis; Inflammation; mixed, moderate  
 INJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild  
 INJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate  
 INJECTION SITE I : myofiber; Degeneration; minimal  
 INJECTION SITE I : subcutis; Edema; mild  
 INJECTION SITE I : intramuscular / interstitial; Edema; minimal  
 INJECTION SITE I : inter- / perimuscular; Edema; moderate  
 NTTEST NE, CECUM : Infiltration, Eosinophilic; increased, minimal  
 NTTEST NE, COLON : mucosa-associated lymphoid tissue; Hyperplasia; mild  
 NTTEST NE, COLON : Infiltration, Eosinophilic; increased, minimal  
 NTTEST NE, RECTUM : Infiltration, Eosinophilic; increased, minimal  
 K DNEY, LEFT : Congestion; mild  
 K DNEY, RIGHT : Congestion; mild  
 LIVER : Congestion; moderate  
 LIVER : Infiltration, Lymphocytic; multifocal, minimal  
 LIVER : periportal; Vacuolation; hepatocellular, mild  
 LUNGS WITH BRONCHI : perivascular; Infiltration, Eosinophilic; multifocal, mild  
 LYMPH NODE, CERVICAL : Histocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal  
 LYMPH NODE, ILIAC : Histiocytosis; minimal  
 LYMPH NODE, ILIAC : Plasmacytosis; moderate  
 LYMPH NODE, ILIAC : germinal center; Increased Cellularity; minimal  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 NERVE, SCIATIC : perineural; Inflammation; mild  
 PEYERS PATCHES : germinal center; Increased Cellularity; moderate

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

---

Animal: 107 (Continued) Group: 4 - Group 4 Sex: Female

---

**Histopathology Observations [Correlation] (Continued):**

SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild  
TRACHEA : Infiltration; mixed, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	108	Group:	4 - Group 4	Sex:	Female
		Dose:	Group 4: 30 µg/BNT162b1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : inter- / perimuscular; Edema: marked (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, marked (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H)]

NJECTION SITE I : Thickened (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : inter- / perimuscular; Edema: marked (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, marked (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H)]

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
 HARDERIAN GLAND, LEFT : Infiltration, Lymphocytic; multifocal, minimal  
 NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)]  
 NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)]  
 NJECTION SITE I : subcutis; Inflammation: mixed, moderate [NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)]  
 NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild [ NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)]  
 NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, marked [NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)]  
 NJECTION SITE I : myofiber; Degeneration; mild  
 NJECTION SITE I : subcutis; Edema: moderate [NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)]  
 NJECTION SITE I : intramuscular / interstitial; Edema: mild [ NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)]  
 NJECTION SITE I : inter- / perimuscular; Edema: marked [ NJECTION SITE I : Indurated : (Comment) muscles (G) | NJECTION SITE I : Thickened : (Comment) muscles (G)]  
 NJECTION SITE I : Hyperplasia: epidermal, widespread, moderate  
 K DNEY, LEFT : Congestion; mild  
 K DNEY, RIGHT : Congestion; mild

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	108 (Continued)	Group:	4 - Group 4	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

LIVER : Congestion; moderate  
LIVER : Infiltration, Lymphocytic; multifocal, minimal  
LIVER : periportal; Vacuolation; hepatocellular, mild  
LYMPH NODE, CERVICAL : Histocytosis; minimal  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, ILIAC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
SPLEEN : Congestion; mild  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	109	Group:	4 - Group 4	Sex:	Female
		Dose:	Group 4: 30 µg/BNT162b1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)	Histo Recorder:	(b) (6), (b) (4)

Gross Pathology Animal Details:

No animal details found

Gross Pathology Observations [Correlation]:

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Plasmacytosis; moderate (H)]  
UTERUS : Dilation (TGL) [UTERUS : Dilation; mild (H)]

Gross Pathology - The following Tissues were Not Examined:

None

Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

Histopathology Animal Details:

No animal details found

Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
INJECTION SITE I : intramuscular / interstitial; Fibrosis; mild  
INJECTION SITE I : inter- / perimuscular; Fibrosis; mild  
INJECTION SITE I : subcutis; Inflammation; mixed, moderate  
INJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild  
INJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate  
INJECTION SITE I : myofiber; Degeneration; mild  
INJECTION SITE I : subcutis; Edema; mild  
INJECTION SITE I : inter- / perimuscular; Edema; mild  
TEST NE, RECTUM : Infiltration, Eosinophilic; increased, minimal  
K DNEY, LEFT : Congestion; moderate  
K DNEY, RIGHT : Congestion; moderate  
LIVER : Congestion; moderate  
LIVER : Hematopoiesis; extramedullary, multifocal, minimal  
LIVER : Infiltration, Lymphocytic; multifocal, minimal  
LIVER : periportal; Vacuolation; hepatocellular, mild  
LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
LYMPH NODE, CERVICAL : Histocytosis; minimal  
LYMPH NODE, LIAC : Plasmacytosis; moderate [LYMPH NODE, LIAC : Enlarged : (Comment) right (G)]  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; minimal  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
NERVE, SCIATIC : perineural; Inflammation; mild  
OPTIC NERVE, RIGHT : macrophage; Pigmentation; brown, focal, minimal  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild  
THYMUS : Hemorrhage; acute, multifocal, minimal  
UTERUS : Dilation; mild [UTERUS : Dilation (G)]

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

---

Animal: 109 (Continued) Group: 4 - Group 4 Sex: Female

---

Any remaining protocol required tissues, which have been examined, have no visible lesions

Histopathology - The following Tissues were Not Examined:

PEYERS PATCHES - Not Present

Histopathology - The following Protocol Required Tissues were Not Processed:

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	110	Group:	4 - Group 4	Sex:	Female
		Dose:	Group 4: 30 µg/BNT162b1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

INJECTION SITE I : Indurated (TGL) [INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE I : subcutis; Edema: mild (H) | INJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | INJECTION SITE I : intramuscular / interstitial; Edema: mild (H)]

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Plasmacytosis; moderate (H) | LYMPH NODE, ILIAC : germinal center; Increased Cellularity; mild (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : inter- / perimuscular; Fibrosis: mild [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : myofiber; Degeneration: mild

INJECTION SITE I : subcutis; Edema: mild [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : intramuscular / interstitial; Edema: mild [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : inter- / perimuscular; Edema: moderate [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : Hyperplasia; epidermal, widespread, mild

KIDNEY, LEFT : Congestion; moderate

KIDNEY, LEFT : tubule; Basophilia; focal, minimal

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; mild

LIVER : periportal; Vacuolation; hepatocellular, mild

LUNGS WITH BRONCHI : perivascular; Infiltration, Eosinophilic; multifocal, mild

LYMPH NODE, CERVICAL : Histocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity: minimal

LYMPH NODE, ILIAC : Histiocytosis; minimal

LYMPH NODE, LIAC : Plasmacytosis; moderate [LYMPH NODE, LIAC : Enlarged : (Comment) right (G)]

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild [LYMPH NODE, ILIAC : Enlarged : (Comment) right (G)]

LYMPH NODE, MESENTERIC : Histiocytosis; mild

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

---

Animal: 110 (Continued) Group: 4 - Group 4 Sex: Female

---

**Histopathology Observations [Correlation] (Continued):**

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
PEYERS PATCHES : germinal center; Increased Cellularity; mild  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
THYMUS : Hemorrhage; acute, multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, RIGHT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	111	Group:	4 - Group 4	Sex:	Female
		Dose:	Group 4: 30 µg/BNT162b1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

SPLEEN : Enlarged (TGL)

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

HARDERIAN GLAND, LEFT : Infiltration; lymphohistiocytic, focal, mild

HARDERIAN GLAND, LEFT : macrophage; Pigmentation; brown, focal, mild

HEART : (Comment) artefacts

HEART : Infiltration; mixed, focal, minimal

INJECTION SITE I : intramuscular / interstitial; Fibrosis; mild

INJECTION SITE I : inter- / perimuscular; Fibrosis; mild

INJECTION SITE I : subcutis; Inflammation; mixed, moderate

INJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, moderate

INJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate

INJECTION SITE I : myofiber; Degeneration; mild

INJECTION SITE I : subcutis; Edema; moderate

INJECTION SITE I : intramuscular / interstitial; Edema; mild

INJECTION SITE I : inter- / perimuscular; Edema; moderate

INJECTION SITE I : Hyperplasia; epidermal, widespread, mild

NTEST NE, RECTUM : Infiltration, Eosinophilic; increased, minimal

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; moderate

LIVER : Congestion; mild

LIVER : Hematopoiesis; extramedullary, multifocal, minimal

LIVER : periportal; Vacuolation; hepatocellular, mild

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

LUNGS WITH BRONCHI : perivascular; Infiltration, Eosinophilic; multifocal, minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal

LYMPH NODE, ILIAC : Histiocytosis; minimal

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; minimal

NERVE, SCIATIC : perineural; Inflammation; minimal

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

---

Animal: 111 (Continued) Group: 4 - Group 4 Sex: Female

---

**Histopathology Observations [Correlation] (Continued):**

PANCREAS : acinar cell; Atrophy; focal, minimal  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild  
THYMUS : Hemorrhage; acute, multifocal, mild  
TRACHEA : Infiltration; mixed, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

OPTIC NERVE, LEFT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	112	Group:	4 - Group 4	Sex:	Female
		Dose:	Group 4: 30 µg/BNT162b1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) [INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema; mild (H) | INJECTION SITE I : inter- / perimuscular; Edema; moderate (H) | INJECTION SITE I : intramuscular / interstitial; Edema; minimal (H)]

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Plasmacytosis; moderate (H) | LYMPH NODE, ILIAC : germinal center; Increased Cellularity; mild (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis; mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : Hemorrhage; focal, moderate

NJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : myofiber; Degeneration; mild

NJECTION SITE I : subcutis; Edema; mild [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Edema; minimal [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Edema; moderate [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : Hyperplasia; epidermal, widespread, mild

K DNEY, LEFT : Congestion; moderate

K DNEY, LEFT : Cyst; tubular, single, minimal

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; mild

LIVER : Hematopoiesis; extramedullary, multifocal, minimal

LIVER : periportal; Vacuolation; hepatocellular, mild

LUNGS WITH BRONCHI : Hemorrhage; acute, focal, minimal

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal

LYMPH NODE, LIAC : Histiocytosis; minimal

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

---

Animal: 112 (Continued) Group: 4 - Group 4 Sex: Female

---

**Histopathology Observations [Correlation] (Continued):**

LYMPH NODE, LIAC : Plasmacytosis; moderate [LYMPH NODE, LIAC : Enlarged (G)]  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	113	Group:	4 - Group 4	Sex:	Female
		Dose:	Group 4: 30 µg/BNT162b1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Plasmacytosis; moderate (H) | LYMPH NODE, ILIAC : germinal center; Increased Cellularity; moderate (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

INJECTION SITE I : intramuscular / interstitial; Fibrosis; mild

INJECTION SITE I : inter- / perimuscular; Fibrosis; mild

INJECTION SITE I : subcutis; Inflammation; mixed, moderate

INJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate

INJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate

INJECTION SITE I : myofiber; Degeneration; mild

INJECTION SITE I : subcutis; Edema; moderate

INJECTION SITE I : intramuscular / interstitial; Edema; mild

INJECTION SITE I : inter- / perimuscular; Edema; moderate

INJECTION SITE I : Hyperplasia; epidermal, widespread, mild

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LIVER : Hematopoiesis; extramedullary, multifocal, minimal

LIVER : periportal; Vacuolation; hepatocellular, mild

LUNGS WITH BRONCHI : perivascular; Infiltration, Eosinophilic; multifocal, minimal

LYMPH NODE, CERVICAL : Histocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, LIAC : Plasmacytosis; moderate [LYMPH NODE, LIAC : Enlarged : (Comment) right (G)]

LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate [LYMPH NODE, ILIAC : Enlarged : (Comment) right (G)]

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

**HISTOPATHOLOGY REPORT****PAGE: 459**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	114	Group:	4 - Group 4	Sex:	Female
		Dose:	Group 4: 30 µg/BNT162b1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

INJECTION SITE I : Indurated (TGL) [INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | INJECTION SITE I : subcutis; Edema: moderate (H) | INJECTION SITE I : intramuscular / interstitial; Edema: mild (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
 INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ INJECTION SITE I : Indurated (G)]  
 INJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ INJECTION SITE I : Indurated (G)]  
 INJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]  
 INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild [ INJECTION SITE I : Indurated (G)]  
 INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ INJECTION SITE I : Indurated (G)]  
 INJECTION SITE I : myofiber; Degeneration; mild  
 INJECTION SITE I : subcutis; Edema: moderate [INJECTION SITE I : Indurated (G)]  
 INJECTION SITE I : intramuscular / interstitial; Edema: mild [ INJECTION SITE I : Indurated (G)]  
 INJECTION SITE I : inter- / perimuscular; Edema: moderate [ INJECTION SITE I : Indurated (G)]  
 INJECTION SITE I : Hyperplasia: epidermal, widespread, mild  
 KIDNEY, LEFT : Congestion; mild  
 KIDNEY, RIGHT : Congestion; mild  
 LIVER : Congestion; mild  
 LIVER : Hematopoiesis; extramedullary, multifocal, minimal  
 LIVER : periportal; Vacuolation; hepatocellular, mild  
 LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
 LYMPH NODE, CERVICAL : Histocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal  
 LYMPH NODE, ILIAC : Histiocytosis; minimal  
 LYMPH NODE, ILIAC : Plasmacytosis; moderate  
 LYMPH NODE, ILIAC : germinal center; Increased Cellularity; mild  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 SKELETAL MUSCLE : (Comment) artefacts

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

---

Animal: 114 (Continued) Group: 4 - Group 4 Sex: Female

---

**Histopathology Observations [Correlation] (Continued):**

SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
TONGUE : Hemorrhage; acute, focal, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PEYERS PATCHES - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

HISTOPATHOLOGY REPORT

PAGE: 461

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	115	Group:	4 - Group 4	Sex:	Female
		Dose:	Group 4: 30 µg/BNT162b1/animal		
Death Date:	02/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	02/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) [INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | INJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : Dilatation; vascular, minimal  
 BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
 HARDERIAN GLAND, LEFT : Infiltration: mixed, multifocal, mild  
 NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : myofiber; Degeneration; minimal  
 NJECTION SITE I : subcutis; Edema: moderate [INJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : intramuscular / interstitial; Edema: mild [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : inter- / perimuscular; Edema: moderate [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : Hyperplasia; epidermal, widespread, mild  
 NTEST NE, CECUM : Infiltration, Eosinophilic; increased, minimal  
 NTEST NE, COLON : mucosa-associated lymphoid tissue; Hyperplasia; mild  
 NTEST NE, COLON : Infiltration, Eosinophilic; increased, minimal  
 NTEST NE, RECTUM : Infiltration, Eosinophilic; increased, minimal  
 K DNEY, LEFT : Congestion; moderate  
 KIDNEY, RIGHT : Congestion; moderate  
 LIVER : Congestion; mild  
 LIVER : Hematopoiesis; extramedullary, multifocal, minimal  
 LIVER : periportal; Vacuolation; hepatocellular, minimal  
 LYMPH NODE, CERVICAL : Histocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal  
 LYMPH NODE, LIAC : Plasmacytosis; moderate

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

---

Animal: 115 (Continued) Group: 4 - Group 4 Sex: Female

---

**Histopathology Observations [Correlation] (Continued):**

LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate  
LYMPH NODE, MESENTERIC : Histocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
PEYERS PATCHES : germinal center; Increased Cellularity; mild  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild  
THYMUS : Hemorrhage; acute, multifocal, minimal  
TRACHEA : Infiltration; mixed, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

SALIVARY GLANDS, SUBLINGUAL - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	116	Group:	4 - Group 4	Sex:	Female
		Dose:	Group 4: 30 µg/BNT162b1/animal		
Death Date:	23/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	23/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : Dilation; vascular, minimal

CERVIX : Keratinization; epithelial, mild

INJECTION SITE I : intramuscular / interstitial; Fibrosis; multifocal, minimal

INJECTION SITE I : inter- / perimuscular; Fibrosis; mild

INJECTION SITE I : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, mild

INJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, mild

KIDNEY, LEFT : Congestion; moderate

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

LYMPH NODE, CERVICAL : Histocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, ILIAC : Plasmacytosis; minimal

LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, mild

LYMPH NODE, MESENTERIC : Histocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PANCREAS : Infiltration, Lymphocytic; focal, minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

THYMUS : Hemorrhage; acute, multifocal, minimal

TRACHEA : (Comment) artefacts

VAGINA : Keratinization; epithelial, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	117	Group:	4 - Group 4	Sex:	Female
		Dose:	Group 4: 30 µg/BNT162b1/animal		
Death Date:	23/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	23/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

LYMPH NODE, LIAC : Enlarged (TGL)

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

HARDERIAN GLAND, LEFT : Infiltration, Lymphocytic; multifocal, mild

INJECTION SITE I : intramuscular / interstitial; Fibrosis; multifocal, minimal

INJECTION SITE I : inter- / perimuscular; Fibrosis; mild

INJECTION SITE I : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, minimal

INJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, mild

TESTIS, RECTUM : mucosa-associated lymphoid tissue; Hyperplasia; mild

KIDNEY, LEFT : Congestion; moderate

KIDNEY, RIGHT : Congestion; moderate

KIDNEY, RIGHT : tubule; Basophilia; focal, minimal

KIDNEY, RIGHT : tubule; Cast; hyaline, focal, minimal

LIVER : Congestion; moderate

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; moderate

LYMPH NODE, ILIAC : Histiocytosis; minimal

LYMPH NODE, ILIAC : Plasmacytosis; minimal

LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : (Comment) artefacts

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

**HISTOPATHOLOGY REPORT****PAGE: 465**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	118	Group:	4 - Group 4	Sex:	Female
		Dose:	Group 4: 30 µg/BNT162b1/animal		
Death Date:	23/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	23/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

No observations found

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

CERVIX : Keratinization; epithelial, mild

INJECTION SITE I : intramuscular / interstitial; Fibrosis; minimal

INJECTION SITE I : inter- / perimuscular; Fibrosis; mild

INJECTION SITE I : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, minimal

INJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, mild

K DNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

LYMPH NODE, CERVICAL : Histiocytosis; mild

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, ILIAC : Histiocytosis; mild

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

SPLEEN : Congestion; mild

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

VAGINA : Keratinization; epithelial, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	119	Group:	4 - Group 4	Sex:	Female
		Dose:	Group 4: 30 µg/BNT162b1/animal		
Death Date:	23/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	23/04/2020	Study Day (Week) of Death:	38 (6)	Histo Recorder:	(b) (6), (b) (4)

Gross Pathology Animal Details:

No animal details found

Gross Pathology Observations [Correlation]:

No observations found

Gross Pathology - The following Tissues were Not Examined:

None

Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

Histopathology Animal Details:

No animal details found

Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : (Comment) artefacts

ADRENAL GLAND, LEFT : Dilation; vascular, minimal

ADRENAL GLAND, RIGHT : (Comment) artefacts

ADRENAL GLAND, RIGHT : Dilation; vascular, minimal

CERVIX : Keratinization; epithelial, minimal

INJECTION SITE I : inter- / perimuscular; Fibrosis; minimal

INJECTION SITE I : inter- / perimuscular; Inflammation: lymphohistiocytic, minimal

TESTIS, CECUM : mucosa-associated lymphoid tissue: Hyperplasia; minimal

KIDNEY, LEFT : Congestion; moderate

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, LIAC : Histiocytosis; minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity; minimal

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : Inflammation, Granulomatous; follicular, focal, mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

VAGINA : Keratinization; epithelial, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

Histopathology - The following Tissues were Not Examined:

PARATHYROID, LEFT - Not Present

Histopathology - The following Protocol Required Tissues were Not Processed:

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	120	Group:	4 - Group 4	Sex:	Female
		Dose:	Group 4: 30 µg/BNT162b1/animal		
Death Date:	23/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	23/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

No observations found

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

ADRENAL GLAND, RIGHT : Dilation; vascular, minimal

CERVIX : Keratinization; epithelial, mild

INJECTION SITE I : intramuscular / interstitial; Fibrosis; multifocal, minimal

INJECTION SITE I : inter- / perimuscular; Fibrosis; mild

INJECTION SITE I : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, mild

INJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, mild

KIDNEY, LEFT : Congestion; moderate

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

LYMPH NODE, CERVICAL : Histocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, ILIAC : Plasmacytosis; minimal

LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

THYMUS : Hemorrhage; acute, multifocal, minimal

VAGINA : Keratinization; epithelial, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, RIGHT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 468**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	121	Group:	5 - Group 5	Sex:	Male
		Dose:	Group 5: 100 µg/BNT162b1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Enlarged (TGL) [INJECTION SITE I : subcutis; Inflammation; mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate (H) | INJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis; mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild (H) | NJECTION SITE I : subcutis; Edema; moderate (H) | INJECTION SITE I : inter- / perimuscular; Edema; moderate (H) | INJECTION SITE I : intramuscular / interstitial; Edema; mild (H)]

LYMPH NODE, LIAC : Enlarged (TGL)

SPLEEN : Enlarged (TGL) [SPLEEN : Hematopoiesis; increased, mild (H)]

NJECTION SITE II : Enlarged (TGL) [INJECTION SITE II : subcutis; Inflammation; mixed, moderate (H) | INJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate (H) | INJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, mild (H) | NJECTION SITE II : inter- / perimuscular; Fibrosis; mild (H) | INJECTION SITE II : intramuscular / interstitial; Fibrosis; mild (H) | NJECTION SITE II : intramuscular / interstitial; Edema; mild (H) | INJECTION SITE II : subcutis; Edema; marked (H) | INJECTION SITE II : inter- / perimuscular; Edema; marked (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, RIGHT : Dilation; vascular, minimal

BONE, OS FEMORIS WITH JOINT : surrounding tissue; Inflammation; mixed, focal, moderate

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

EPIDIDYMYLIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

EYE, LEFT : (Comment) artefacts

HARDERIAN GLAND, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild [ NJECTION SITE I : Enlarged (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis; mild [ NJECTION SITE I : Enlarged (G)]

NJECTION SITE I : subcutis; Inflammation; mixed, moderate [INJECTION SITE I : Enlarged (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild [ NJECTION SITE I : Enlarged (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate [ NJECTION SITE I : Enlarged (G)]

NJECTION SITE I : myofiber; Degeneration; mild

NJECTION SITE I : subcutis; Edema; moderate [INJECTION SITE I : Enlarged (G)]

NJECTION SITE I : intramuscular / interstitial; Edema; mild [ NJECTION SITE I : Enlarged (G)]

NJECTION SITE I : inter- / perimuscular; Edema; moderate [ NJECTION SITE I : Enlarged (G)]

NJECTION SITE I : Hyperplasia; epidermal, widespread, mild

NJECTION SITE II : myofiber; Degeneration; mild

NJECTION SITE II : Hyperplasia; epidermal, widespread, moderate

NJECTION SITE II : subcutis; Edema; marked [ NJECTION SITE II : Enlarged (G)]

**HISTOPATHOLOGY REPORT**

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	121 (Continued)	Group:	5 - Group 5	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

NJECTION SITE II : intramuscular / interstitial; Edema; mild [INJECTION SITE II : Enlarged (G)]  
 NJECTION SITE II : inter- / perimuscular; Edema; marked [INJECTION SITE II : Enlarged (G)]  
 NJECTION SITE II : intramuscular / interstitial; Fibrosis; mild [INJECTION SITE II : Enlarged (G)]  
 NJECTION SITE II : inter- / perimuscular; Fibrosis; mild [INJECTION SITE II : Enlarged (G)]  
 NJECTION SITE II : subcutis; Inflammation; mixed, moderate [INJECTION SITE II : Enlarged (G)]  
 NJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, mild [INJECTION SITE II : Enlarged (G)]  
 NJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate [INJECTION SITE II : Enlarged (G)]  
 NTTEST NE, CECUM : Infiltration, Eosinophilic; increased, minimal  
 NTTEST NE, COLON : mucosa-associated lymphoid tissue; Hyperplasia; mild  
 NTTEST NE, COLON : Infiltration, Eosinophilic; increased, minimal  
 NTTEST NE, RECTUM : Infiltration, Eosinophilic; increased, minimal  
 K DNEY, LEFT : Congestion; mild  
 K DNEY, RIGHT : Congestion; mild  
 KIDNEY, RIGHT : subcapsular; Infiltration, Neutrophilic; focal, minimal  
 LIVER : Congestion; moderate  
 LIVER : periportal; Vacuolation; hepatocellular, minimal  
 LIVER : kupffer cell; Pigmentation; brown, minimal  
 LYMPH NODE, CERVICAL : Histocytosis; mild  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
 LYMPH NODE, ILIAC : Histiocytosis; mild  
 LYMPH NODE, ILIAC : Plasmacytosis; minimal  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 LYMPH NODE, RENAL : Histiocytosis; mild  
 LYMPH NODE, RENAL : macrophage; Pigmentation; brown, focal, minimal  
 LYMPH NODE, RENAL : germinal center; Increased Cellularity; minimal  
 NERVE, SCIATIC : perineural; Inflammation; minimal  
 PANCREAS : Infiltration, Lymphocytic; focal, minimal  
 PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
 SPLEEN : Hematopoiesis; increased, mild [SPLEEN : Enlarged (G)]  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild  
 THYMUS : Hemorrhage; acute, multifocal, minimal  
 TRACHEA : Infiltration; mixed, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 470**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	122	Group:	5 - Group 5	Sex:	Male
		Dose:	Group 5: 100 µg/BNT162b1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : Dilation; vascular, minimal  
 BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
 EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; focal, minimal  
 EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal  
 INJECTION SITE I : intramuscular / interstitial; Fibrosis; mild  
 INJECTION SITE I : inter- / perimuscular; Fibrosis; mild  
 INJECTION SITE I : subcutis; Inflammation; mixed, moderate  
 INJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate  
 INJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate  
 INJECTION SITE I : myofiber; Degeneration; mild  
 INJECTION SITE I : subcutis; Edema; moderate  
 INJECTION SITE I : intramuscular / interstitial; Edema; mild  
 INJECTION SITE I : inter- / perimuscular; Edema; moderate  
 INJECTION SITE I : Hyperplasia; epidermal, widespread, moderate  
 INJECTION SITE II : myofiber; Degeneration; mild  
 INJECTION SITE II : Hyperplasia; epidermal, widespread, moderate  
 INJECTION SITE II : subcutis; Edema; mild  
 INJECTION SITE II : intramuscular / interstitial; Edema; mild  
 INJECTION SITE II : inter- / perimuscular; Edema; moderate  
 INJECTION SITE II : intramuscular / interstitial; Fibrosis; mild  
 INJECTION SITE II : inter- / perimuscular; Fibrosis; mild  
 INJECTION SITE II : subcutis; Inflammation; mixed, moderate  
 INJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate  
 INJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate  
 NTEST NE, CECUM : Infiltration, Eosinophilic; increased, minimal  
 NTEST NE, COLON : Infiltration, Eosinophilic; increased, minimal  
 NTEST NE, RECTUM : Infiltration, Eosinophilic; increased, minimal  
 K DNEY, LEFT : Congestion; mild  
 K DNEY, LEFT : tubule; Cast; hyaline, multifocal, minimal

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	122 (Continued)	Group:	5 - Group 5	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

K DNEY, RIGHT : Congestion; mild  
KIDNEY, RIGHT : tubule; Basophilia; focal, minimal  
LIVER : Congestion; moderate  
LIVER : periportal; Vacuolation; hepatocellular, minimal  
LYMPH NODE, CERVICAL : Histiocytosis; minimal  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal  
LYMPH NODE, LIAC : Histiocytosis; minimal  
LYMPH NODE, ILIAC : Plasmacytosis; mild  
LYMPH NODE, LIAC : Infiltration, Eosinophilic; minimal  
LYMPH NODE, LIAC : Inflammation; mild  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; minimal  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
SKELETAL MUSCLE : (Comment) artefacts  
NERVE, SCIATIC : perineural; Inflammation; minimal  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
SEMINAL VESICLES : surrounding tissue; fat; Infiltration; mixed, focal, moderate  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
THYMUS : Hemorrhage; acute, multifocal, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 472**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	123	Group:	5 - Group 5	Sex:	Male
		Dose:	Group 5: 100 µg/BNT162b1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

INJECTION SITE I : Indurated (TGL) [INJECTION SITE I : subcutis; Inflammation: mixed, mild (H) | INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, minimal (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H)]  
 LYMPH NODE, LIAC : Enlarged (TGL)  
 SPLEEN : Enlarged (TGL)  
 INJECTION SITE II : Indurated : (Comment) muscle (TGL) [INJECTION SITE II : subcutis; Inflammation: mixed, mild (H) | INJECTION SITE II : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE II : intramuscular / interstitial; Inflammation: mixed, mild (H) | INJECTION SITE II : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE II : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE II : intramuscular / interstitial; Edema: mild (H) | INJECTION SITE II : inter- / perimuscular; Edema: moderate (H) | INJECTION SITE II : subcutis; Edema: mild (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity: minimal  
 EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal  
 EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal  
 INJECTION SITE I : inter- / perimuscular; Fibrosis: mild [INJECTION SITE I : Indurated : (Comment) muscle (G)]  
 INJECTION SITE I : subcutis; Inflammation: mixed, mild [INJECTION SITE I : Indurated : (Comment) muscle (G)]  
 INJECTION SITE I : inter- / perimuscular; Inflammation: lymphocytic, focal, moderate  
 INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, minimal [INJECTION SITE I : Indurated : (Comment) muscle (G)]  
 INJECTION SITE I : myofiber; Degeneration; minimal  
 INJECTION SITE I : Hyperplasia; epidermal, widespread, mild  
 INJECTION SITE II : myofiber; Degeneration; mild  
 INJECTION SITE II : Hyperplasia; epidermal, widespread, mild  
 INJECTION SITE II : subcutis; Edema: mild [INJECTION SITE II : Indurated : (Comment) muscle (G)]  
 INJECTION SITE II : intramuscular / interstitial; Edema: mild [INJECTION SITE II : Indurated : (Comment) muscle (G)]  
 INJECTION SITE II : inter- / perimuscular; Edema: moderate [INJECTION SITE II : Indurated : (Comment) muscle (G)]  
 INJECTION SITE II : intramuscular / interstitial; Fibrosis: mild [INJECTION SITE II : Indurated : (Comment) muscle (G)]  
 INJECTION SITE II : inter- / perimuscular; Fibrosis: mild [INJECTION SITE II : Indurated : (Comment) muscle (G)]  
 INJECTION SITE II : subcutis; Inflammation: mixed, mild [INJECTION SITE II : Indurated : (Comment) muscle (G)]  
 INJECTION SITE II : intramuscular / interstitial; Inflammation: mixed, mild [INJECTION SITE II : Indurated : (Comment) muscle (G)]  
 INJECTION SITE II : inter- / perimuscular; Inflammation: mixed, moderate [INJECTION SITE II : Indurated : (Comment) muscle (G)]  
 NTEST NE, RECTUM : (Comment) artefacts  
 K DNEY, LEFT : Congestion; moderate

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	123 (Continued)	Group:	5 - Group 5	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

KIDNEY, LEFT : tubule; Basophilia; focal, minimal  
KIDNEY, RIGHT : Congestion; moderate  
LIVER : Congestion; moderate  
LIVER : Infiltration, Lymphocytic; multifocal, minimal  
LIVER : periportal; Vacuolation; hepatocellular, mild  
LUNGS WITH BRONCHI : perivascular; Infiltration, Eosinophilic; multifocal, minimal  
LYMPH NODE, CERVICAL : Histocytosis; minimal  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, LIAC : Histiocytosis; minimal  
LYMPH NODE, LIAC : Plasmacytosis; moderate  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
MAMMARY GLANDS : (Comment) including lymph node, subcutis, dermis  
MAMMARY GLANDS : interstitium; Inflammation; mixed, focal, moderate  
NERVE, SCIATIC : perineural; Inflammation; mild  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, LEFT - Not Present  
PARATHYROID, RIGHT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	124	Group:	5 - Group 5	Sex:	Male
		Dose:	Group 5: 100 µg/BNT162b1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Thickened (TGL) [INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | INJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H)]

LYMPH NODE, LIAC : Enlarged (TGL)

NJECTION SITE II : Thickened (TGL) [NJECTION SITE II : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE II : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE II : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate (H) | NJECTION SITE II : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE II : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE II : intramuscular / interstitial; Edema: mild (H) | INJECTION SITE II : subcutis; Edema: marked (H) | INJECTION SITE II : inter- / perimuscular; Edema: moderate (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

EYE, RIGHT : (Comment) artefacts

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [NJECTION SITE I : Thickened (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [NJECTION SITE I : Thickened (G)]

NJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Thickened (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate [INJECTION SITE I : Thickened (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [NJECTION SITE I : Thickened (G)]

NJECTION SITE I : myofiber; Degeneration: mild

NJECTION SITE I : subcutis; Edema: moderate [INJECTION SITE I : Thickened (G)]

NJECTION SITE I : intramuscular / interstitial; Edema: mild [NJECTION SITE I : Thickened (G)]

NJECTION SITE I : inter- / perimuscular; Edema: moderate [NJECTION SITE I : Thickened (G)]

NJECTION SITE I : Hyperplasia: epidermal, widespread, mild

NJECTION SITE II : myofiber; Degeneration: mild

NJECTION SITE II : Hyperplasia: epidermal, widespread, moderate

NJECTION SITE II : subcutis; Edema: marked [NJECTION SITE II : Thickened (G)]

NJECTION SITE II : intramuscular / interstitial; Edema: mild [INJECTION SITE II : Thickened (G)]

NJECTION SITE II : inter- / perimuscular; Edema: moderate [INJECTION SITE II : Thickened (G)]

NJECTION SITE II : intramuscular / interstitial; Fibrosis: mild [INJECTION SITE II : Thickened (G)]

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	124 (Continued)	Group:	5 - Group 5	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

NJECTION SITE II : inter- / perimuscular; Fibrosis; mild [NJECTION SITE II : Thickened (G)]  
NJECTION SITE II : subcutis; Inflammation; mixed, moderate [NJECTION SITE II : Thickened (G)]  
NJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate [NJECTION SITE II : Thickened (G)]  
NJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate [NJECTION SITE II : Thickened (G)]  
K DNEY, LEFT : Congestion; moderate  
KIDNEY, RIGHT : Congestion; moderate  
K DNEY, RIGHT : Infiltration, Lymphocytic; multifocal, minimal  
LIVER : Congestion; moderate  
LIVER : Infiltration, Lymphocytic; multifocal, minimal  
LIVER : periportal; Vacuolation; hepatocellular, minimal  
LUNGS WITH BRONCHI : perivascular; Infiltration, Eosinophilic; multifocal, minimal  
LYMPH NODE, CERVICAL : Histocytosis; mild  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, LIAC : Histiocytosis; minimal  
LYMPH NODE, LIAC : Plasmacytosis; marked  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; minimal  
LYMPH NODE, MESENTERIC : Infiltration, Eosinophilic; minimal  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
NERVE, SCIATIC : perineural; Inflammation; minimal  
PEYERS PATCHES : germinal center; Increased Cellularity; mild  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	125	Group:	5 - Group 5	Sex:	Male
		Dose:	Group 5: 100 µg/BNT162b1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE, OS FEMORIS WITH JOINT : surrounding tissue; Inflammation; mixed, mild  
 BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
 EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal  
 EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal  
 HARDERIAN GLAND, LEFT : Infiltration, Lymphocytic; focal, minimal  
 INJECTION SITE I : intramuscular / interstitial; Fibrosis; mild  
 INJECTION SITE I : inter- / perimuscular; Fibrosis; mild  
 INJECTION SITE I : subcutis; Inflammation; mixed, moderate  
 INJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate  
 INJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate  
 INJECTION SITE I : myofiber; Degeneration; mild  
 INJECTION SITE I : subcutis; Edema; moderate  
 INJECTION SITE I : intramuscular / interstitial; Edema; mild  
 INJECTION SITE I : inter- / perimuscular; Edema; moderate  
 INJECTION SITE I : Hyperplasia; epidermal, widespread, moderate  
 INJECTION SITE II : myofiber; Degeneration; mild  
 INJECTION SITE II : Hyperplasia; epidermal, widespread, moderate  
 INJECTION SITE II : subcutis; Edema; marked  
 INJECTION SITE II : intramuscular / interstitial; Edema; mild  
 INJECTION SITE II : inter- / perimuscular; Edema; marked  
 INJECTION SITE II : intramuscular / interstitial; Fibrosis; mild  
 INJECTION SITE II : inter- / perimuscular; Fibrosis; mild  
 INJECTION SITE II : subcutis; Inflammation; mixed, moderate  
 INJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate  
 INJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate  
 NTEST NE, CECUM : Infiltration, Eosinophilic; increased, minimal  
 NTEST NE, COLON : Infiltration, Eosinophilic; increased, minimal  
 NTEST NE, RECTUM : Infiltration, Eosinophilic; increased, minimal  
 K DNEY, LEFT : Congestion; mild

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	125 (Continued)	Group:	5 - Group 5	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

K DNEY, RIGHT : Congestion; mild  
LIVER : Congestion; mild  
LUNGS WITH BRONCHI : Hemorrhage; acute, focal, minimal  
LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
LYMPH NODE, CERVICAL : Histocytosis; minimal  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, ILIAC : Histiocytosis; mild  
LYMPH NODE, LIAC : Inflammation; moderate  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild  
THYMUS : Hemorrhage; acute, multifocal, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 478**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	126	Group:	5 - Group 5	Sex:	Male
		Dose:	Group 5: 100 µg/BNT162b1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) [INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | INJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H)]

LYMPH NODE, LIAC : Enlarged (TGL)

SPLEEN : Enlarged (TGL) [SPLEEN : Hematopoiesis; increased, mild (H)]

NJECTION SITE II : Indurated : (Comment) muscle (TGL) [INJECTION SITE II : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE II : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE II : intramuscular / interstitial; Inflammation: mixed, mild (H) | NJECTION SITE II : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE II : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE II : intramuscular / interstitial; Edema: mild (H) | INJECTION SITE II : inter- / perimuscular; Edema: marked (H) | NJECTION SITE II : subcutis; Edema: moderate (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, RIGHT : Dilation; vascular, minimal

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : myofiber; Degeneration; mild

NJECTION SITE I : subcutis; Edema; moderate [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Edema; mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Edema; moderate [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : Hyperplasia: epidermal, widespread, moderate

NJECTION SITE II : myofiber; Degeneration; mild

NJECTION SITE II : Hyperplasia: epidermal, widespread, moderate

NJECTION SITE II : subcutis; Edema; moderate [ NJECTION SITE II : Indurated (G)]

NJECTION SITE II : intramuscular / interstitial; Edema; mild [INJECTION SITE II : Indurated (G)]

NJECTION SITE II : inter- / perimuscular; Edema; marked [INJECTION SITE II : Indurated (G)]

NJECTION SITE II : intramuscular / interstitial; Fibrosis; mild [INJECTION SITE II : Indurated (G)]

**HISTOPATHOLOGY REPORT****PAGE: 479**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	126 (Continued)	Group:	5 - Group 5	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

INJECTION SITE II : inter- / perimuscular; Fibrosis; mild [INJECTION SITE II : Indurated (G)]  
 INJECTION SITE II : subcutis; Inflammation; mixed, moderate [INJECTION SITE II : Indurated (G)]  
 INJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, mild [INJECTION SITE II : Indurated (G)]  
 INJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate [INJECTION SITE II : Indurated (G)]  
 K DNEY, LEFT : Congestion; moderate  
 K DNEY, LEFT : Inflammation, Chronic; interstitial, focal, minimal  
 KIDNEY, RIGHT : Congestion; moderate  
 LIVER : Congestion; mild  
 LIVER : periportal; Vacuolation; hepatocellular, minimal  
 LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
 LUNGS WITH BRONCHI : perivascular; Infiltration, Eosinophilic; multifocal, minimal  
 LYMPH NODE, CERVICAL : Histocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal  
 LYMPH NODE, ILIAC : Histiocytosis; mild  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 NERVE, SCIATIC : perineural; Inflammation; moderate  
 PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
 SPLEEN : Hematopoiesis; increased, mild [SPLEEN : Enlarged (G)]  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
 THYMUS : Hemorrhage; acute, multifocal, minimal  
 TRACHEA : (Comment) artefacts

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	127	Group:	5 - Group 5	Sex:	Male
		Dose:	Group 5: 100 µg/BNT162b1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

INJECTION SITE I : Indurated (TGL) [INJECTION SITE I : subcutis; Inflammation: mixed, mild (H) | INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, multifocal, moderate (H) | INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis: minimal (H)]

INJECTION SITE I : Thickened (TGL) [INJECTION SITE I : subcutis; Inflammation: mixed, mild (H) | INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, multifocal, moderate (H) | INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis: minimal (H)]

LYMPH NODE, ILIAC : Enlarged (TGL) [LYMPH NODE, ILIAC : Plasmacytosis; mild (H) | LYMPH NODE, ILIAC : Inflammation; mild (H) | LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild (H)]

ADRENAL GLAND, LEFT : Enlarged (TGL)

ADRENAL GLAND, RIGHT : Enlarged (TGL)

INJECTION SITE II : Indurated : (Comment) muscle (TGL) [INJECTION SITE II : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE II : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE II : intramuscular / interstitial; Inflammation: mixed, mild (H) | INJECTION SITE II : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE II : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE II : intramuscular / interstitial; Edema: mild (H) | INJECTION SITE II : subcutis; Edema: mild (H) | INJECTION SITE II : inter- / perimuscular; Edema: moderate (H)]

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

BONE, OS FEMORIS WITH JOINT : surrounding tissue; Inflammation: mixed, focal, mild

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity: minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

EYE, RIGHT : (Comment) artefacts

INJECTION SITE I : intramuscular / interstitial; Fibrosis: minimal [INJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated : (Comment) muscle (G)]

INJECTION SITE I : inter- / perimuscular; Fibrosis: mild [INJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated : (Comment) muscle (G)]

INJECTION SITE I : subcutis; Inflammation: mixed, mild [INJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated : (Comment) muscle (G)]

INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild [INJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated : (Comment) muscle (G)]

INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, multifocal, moderate [INJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated : (Comment) muscle (G)]

INJECTION SITE I : myofiber; Degeneration: mild

INJECTION SITE I : Hyperplasia: epidermal, widespread, moderate

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	127 (Continued)	Group:	5 - Group 5	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

NJECTION SITE II : myofiber; Degeneration; mild  
 NJECTION SITE II : Hyperplasia; epidermal, widespread, moderate  
 NJECTION SITE II : subcutis; Edema; mild [NJECTION SITE II : Indurated : (Comment) muscle (G)]  
 NJECTION SITE II : intramuscular / interstitial; Edema; mild [NJECTION SITE II : Indurated : (Comment) muscle (G)]  
 NJECTION SITE II : inter- / perimuscular; Edema; moderate [NJECTION SITE II : Indurated : (Comment) muscle (G)]  
 NJECTION SITE II : intramuscular / interstitial; Fibrosis; mild [NJECTION SITE II : Indurated : (Comment) muscle (G)]  
 NJECTION SITE II : inter- / perimuscular; Fibrosis; mild [NJECTION SITE II : Indurated : (Comment) muscle (G)]  
 NJECTION SITE II : subcutis; Inflammation; mixed, moderate [NJECTION SITE II : Indurated : (Comment) muscle (G)]  
 NJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, mild [NJECTION SITE II : Indurated : (Comment) muscle (G)]  
 NJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate [NJECTION SITE II : Indurated : (Comment) muscle (G)]  
 KIDNEY, LEFT : Congestion; moderate  
 KIDNEY, RIGHT : Congestion; moderate  
 LIVER : Congestion; moderate  
 LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
 LYMPH NODE, CERVICAL : Histiocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
 LYMPH NODE, ILIAC : Histiocytosis; mild  
 LYMPH NODE, ILIAC : Plasmacytosis; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
 LYMPH NODE, LIAC : Inflammation; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 PROSTATE GLAND : Infiltration, Lymphocytic; focal, minimal  
 SKIN : subcutaneous; Infiltration; mixed, focal, mild  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild  
 TRACHEA : Infiltration; mixed, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	128	Group:	5 - Group 5	Sex:	Male
		Dose:	Group 5: 100 µg/BNT162b1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

SPLEEN : Enlarged (TGL)

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE, OS FEMORIS WITH JOINT : surrounding tissue; Inflammation; mixed, minimal

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

BONE, STERNUM : surrounding tissue; muscle; Infiltration; mixed, multifocal, mild

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

INJECTION SITE I : intramuscular / interstitial; Fibrosis; mild

INJECTION SITE I : inter- / perimuscular; Fibrosis; mild

INJECTION SITE I : subcutis; Inflammation; mixed, moderate

INJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild

INJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate

INJECTION SITE I : myofiber; Degeneration; mild

INJECTION SITE I : subcutis; Edema; moderate

INJECTION SITE I : intramuscular / interstitial; Edema; mild

INJECTION SITE I : inter- / perimuscular; Edema; moderate

INJECTION SITE I : Hyperplasia; epidermal, widespread, moderate

INJECTION SITE II : myofiber; Degeneration; mild

INJECTION SITE II : subcutis; Edema; moderate

INJECTION SITE II : intramuscular / interstitial; Edema; mild

INJECTION SITE II : inter- / perimuscular; Edema; moderate

INJECTION SITE II : intramuscular / interstitial; Fibrosis; mild

INJECTION SITE II : inter- / perimuscular; Fibrosis; mild

INJECTION SITE II : subcutis; Inflammation; mixed, moderate

INJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, mild

INJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate

KIDNEY, LEFT : Congestion; moderate

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; mild

LIVER : periportal; Vacuolation; hepatocellular, mild

LUNGS WITH BRONCHI : Hemorrhage; acute, focal, minimal

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	128 (Continued)	Group:	5 - Group 5	Sex:	Male
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Histopathology Observations [Correlation] (Continued):

LYMPH NODE, CERVICAL : Histocytosis; mild  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, ILIAC : Histiocytosis; mild  
LYMPH NODE, ILIAC : Plasmacytosis; mild  
LYMPH NODE, LIAC : Inflammation; mild  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
SKELETAL MUSCLE : Infiltration; mixed, multifocal, minimal  
SKELETAL MUSCLE : myofiber; Necrosis; multifocal, minimal  
NERVE, SCIATIC : perineural; Inflammation; moderate  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

Histopathology - The following Tissues were Not Examined:

PARATHYROID, RIGHT - Not Present

Histopathology - The following Protocol Required Tissues were Not Processed:

None

**HISTOPATHOLOGY REPORT****PAGE: 484**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	129	Group:	5 - Group 5	Sex:	Male
		Dose:	Group 5: 100 µg/BNT162b1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

INJECTION SITE I : Indurated (TGL) [INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE I : subcutis; Edema: moderate (H) | INJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | INJECTION SITE I : intramuscular / interstitial; Edema: mild (H)]

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Plasmacytosis; moderate (H) | LYMPH NODE, ILIAC : Inflammation; moderate (H) | LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate (H)]

INJECTION SITE II : Indurated : (Comment) muscle (TGL) [INJECTION SITE II : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE II : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE II : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate (H) | INJECTION SITE II : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE II : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE II : intramuscular / interstitial; Edema: mild (H) | INJECTION SITE II : subcutis; Edema: moderate (H) | INJECTION SITE II : inter- / perimuscular; Edema: moderate (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

EYE, RIGHT : (Comment) artefacts

HARDERIAN GLAND, RIGHT : Infiltration, Lymphocytic; focal, minimal

HEART : Infiltration, Lymphocytic; focal, minimal

INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : inter- / perimuscular; Fibrosis: mild [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : myofiber; Degeneration: mild

INJECTION SITE I : subcutis; Edema: moderate [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : intramuscular / interstitial; Edema: mild [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : inter- / perimuscular; Edema: moderate [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : Hyperplasia; epidermal, widespread, moderate

INJECTION SITE II : myofiber; Degeneration: mild

INJECTION SITE II : Hyperplasia; epidermal, widespread, moderate

INJECTION SITE II : subcutis; Edema: moderate [INJECTION SITE II : Indurated (G)]

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	129 (Continued)	Group:	5 - Group 5	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

NJECTION SITE II : intramuscular / interstitial; Edema; mild [INJECTION SITE II : Indurated (G)]  
NJECTION SITE II : inter- / perimuscular; Edema; moderate [INJECTION SITE II : Indurated (G)]  
NJECTION SITE II : intramuscular / interstitial; Fibrosis; mild [INJECTION SITE II : Indurated (G)]  
NJECTION SITE II : inter- / perimuscular; Fibrosis; mild [INJECTION SITE II : Indurated (G)]  
NJECTION SITE II : subcutis; Inflammation; mixed, moderate [INJECTION SITE II : Indurated (G)]  
NJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate [NJECTION SITE II : Indurated (G)]  
NJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate [INJECTION SITE II : Indurated (G)]  
NTEST NE, RECTUM : mucosa-associated lymphoid tissue; Hyperplasia; mild  
K DNEY, LEFT : Congestion; moderate  
K DNEY, RIGHT : Congestion; mild  
LIVER : Congestion; moderate  
LIVER : periportal; Vacuolation; hepatocellular, mild  
LYMPH NODE, CERVICAL : Histiocytosis; mild  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, ILIAC : Histiocytosis; mild  
LYMPH NODE, LIAC : Plasmacytosis; moderate [LYMPH NODE, LIAC : Enlarged (G)]  
LYMPH NODE, LIAC : Inflammation; moderate [LYMPH NODE, LIAC : Enlarged (G)]  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate [LYMPH NODE, ILIAC : Enlarged (G)]  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
MAMMARY GLANDS : interstitium; Inflammation; mixed, focal, mild  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PROSTATE GLAND - No Section

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 486**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	130	Group:	5 - Group 5	Sex:	Male
		Dose:	Group 5: 100 µg/BNT162b1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) [INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, minimal (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE I : subcutis; Edema: mild (H) | INJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | INJECTION SITE I : intramuscular / interstitial; Edema: minimal (H)]

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Plasmacytosis; mild (H) | LYMPH NODE, ILIAC : germinal center; Increased Cellularity; moderate (H)]

SPLEEN : Enlarged (TGL)

ADRENAL GLAND, LEFT : Enlarged (TGL)

ADRENAL GLAND, RIGHT : Enlarged (TGL)

NJECTION SITE II : Indurated : (Comment) muscle (TGL) [INJECTION SITE II : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE II : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE II : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate (H) | INJECTION SITE II : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE II : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE II : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE II : inter- / perimuscular; Edema: moderate (H) | INJECTION SITE II : subcutis; Edema: moderate (H)]

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity: minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, minimal [INJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : myofiber; Degeneration: mild

NJECTION SITE I : subcutis; Edema: mild [INJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : intramuscular / interstitial; Edema: minimal [INJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : inter- / perimuscular; Edema: moderate [ NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : Hyperplasia: epidermal, widespread, moderate

NJECTION SITE II : myofiber; Degeneration: mild

NJECTION SITE II : Hyperplasia: epidermal, widespread, moderate

NJECTION SITE II : subcutis; Edema: moderate [ NJECTION SITE II : Indurated : (Comment) muscle (G)]

NJECTION SITE II : intramuscular / interstitial; Edema: mild [INJECTION SITE II : Indurated : (Comment) muscle (G)]

NJECTION SITE II : inter- / perimuscular; Edema: moderate [INJECTION SITE II : Indurated : (Comment) muscle (G)]

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	130 (Continued)	Group:	5 - Group 5	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

NJECTION SITE II : intramuscular / interstitial; Fibrosis; mild [NJECTION SITE II : Indurated : (Comment) muscle (G)]  
 NJECTION SITE II : inter- / perimuscular; Fibrosis; mild [NJECTION SITE II : Indurated : (Comment) muscle (G)]  
 NJECTION SITE II : subcutis; Inflammation; mixed, moderate [NJECTION SITE II : Indurated : (Comment) muscle (G)]  
 NJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate [NJECTION SITE II : Indurated : (Comment) muscle (G)]  
 NJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate [NJECTION SITE II : Indurated : (Comment) muscle (G)]  
 K DNEY, LEFT : Congestion; moderate  
 KIDNEY, RIGHT : Congestion; moderate  
 LIVER : Congestion; moderate  
 LIVER : Hematopoiesis; extramedullary, multifocal, minimal  
 LIVER : periportal; Vacuolation; hepatocellular, minimal  
 LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
 LYMPH NODE, CERVICAL : Histiocytosis; mild  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
 LYMPH NODE, ILIAC : Histiocytosis; mild  
 LYMPH NODE, ILIAC : Plasmacytosis; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate [LYMPH NODE, ILIAC : Enlarged (G)]  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 NERVE, SCIATIC : perineural; Inflammation; mild  
 PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
 SPLEEN : Congestion; minimal  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, RIGHT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 488**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	131	Group:	5 - Group 5	Sex:	Male
		Dose:	Group 5: 100 µg/BNT162b1/animal		
Death Date:	29/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	29/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, mild (H) | LYMPH NODE, ILIAC : germinal center; Increased Cellularity; mild (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE, OS FEMORIS WITH JOINT : surrounding tissue; Infiltration, Lymphocytic; focal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis; minimal

NJECTION SITE I : inter- / perimuscular; Fibrosis; mild

NJECTION SITE I : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, mild

NJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, mild

NJECTION SITE II : intramuscular / interstitial; Fibrosis; multifocal, minimal

NJECTION SITE II : inter- / perimuscular; Fibrosis; minimal

NJECTION SITE II : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, mild

NJECTION SITE II : inter- / perimuscular; Inflammation; lymphohistiocytic, multifocal, mild

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LYMPH NODE, CERVICAL : Histocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, ILIAC : Histiocytosis; minimal

LYMPH NODE, ILIAC : Plasmacytosis; minimal

LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, mild [LYMPH NODE, LIAC : Enlarged (G)]

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild [LYMPH NODE, ILIAC : Enlarged (G)]

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	132	Group:	5 - Group 5	Sex:	Male
		Dose:	Group 5: 100 µg/BNT162b1/animal		
Death Date:	29/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	29/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

LYMPH NODE, LIAC : Enlarged (TGL) | LYMPH NODE, LIAC : Histocytosis; mild (H) | LYMPH NODE, LIAC : Plasmacytosis; minimal (H) | LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, mild (H) | LYMPH NODE, ILIAC : germinal center; Increased Cellularity; mild (H)

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal  
 EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal  
 NJECTION SITE I : intramuscular / interstitial; Fibrosis; multifocal, minimal  
 NJECTION SITE I : inter- / perimuscular; Fibrosis; mild  
 NJECTION SITE I : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, minimal  
 NJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, minimal  
 NJECTION SITE II : intramuscular / interstitial; Fibrosis; multifocal, mild  
 NJECTION SITE II : inter- / perimuscular; Fibrosis; mild  
 NJECTION SITE II : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, mild  
 NJECTION SITE II : inter- / perimuscular; Inflammation; lymphohistiocytic, mild  
 NTTEST NE, COLON : mucosa-associated lymphoid tissue; Hyperplasia; mild  
 NTTEST NE, RECTUM : (Comment) artefacts  
 NTTEST NE, RECTUM : mucosa-associated lymphoid tissue; Hyperplasia; mild  
 K DNEY, LEFT : Congestion; moderate  
 K DNEY, RIGHT : Congestion; moderate  
 K DNEY, RIGHT : tubule; Cast; hyaline, focal, minimal  
 LIVER : Congestion; moderate  
 LIVER : Infiltration, Lymphocytic; multifocal, minimal  
 LUNGS WITH BRONCHI : Hemorrhage; acute, multifocal, mild  
 LYMPH NODE, CERVICAL : Histiocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
 LYMPH NODE, LIAC : Histiocytosis; mild | LYMPH NODE, ILIAC : Enlarged (G)|  
 LYMPH NODE, LIAC : Plasmacytosis; minimal | LYMPH NODE, ILIAC : Enlarged (G)|  
 LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, mild | LYMPH NODE, LIAC : Enlarged (G)|  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild | LYMPH NODE, ILIAC : Enlarged (G)|  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

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Animal: 132 (Continued) Group: 5 - Group 5 Sex: Male

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**Histopathology Observations [Correlation] (Continued):**

PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
THYMUS : Hemorrhage; acute, multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 491**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	133	Group:	5 - Group 5	Sex:	Male
		Dose:	Group 5: 100 µg/BNT162b1/animal		
Death Date:	29/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	29/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Histiocytosis; mild (H) | LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, mild (H) | LYMPH NODE, ILIAC : germinal center; Increased Cellularity; mild (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : Dilation; vascular, minimal

ADRENAL GLAND, LEFT : Infiltration, Lymphocytic; focal, minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EYE, LEFT : (Comment) artefacts

INJECTION SITE I : intramuscular / interstitial; Fibrosis; multifocal, minimal

INJECTION SITE I : inter- / perimuscular; Fibrosis; mild

INJECTION SITE I : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, minimal

INJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, multifocal, mild

INJECTION SITE II : intramuscular / interstitial; Fibrosis; multifocal, minimal

INJECTION SITE II : inter- / perimuscular; Fibrosis; mild

INJECTION SITE II : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, minimal

INJECTION SITE II : inter- / perimuscular; Inflammation; lymphohistiocytic, minimal

NTEST NE, RECTUM : Infiltration, Eosinophilic; increased, minimal

NTEST NE, RECTUM : mucosa-associated lymphoid tissue; Hyperplasia; mild

K DNEY, LEFT : Congestion; moderate

K DNEY, LEFT : Infiltration, Lymphocytic; multifocal, minimal

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal

LYMPH NODE, LIAC : Histiocytosis; mild [LYMPH NODE, ILIAC : Enlarged (G)]

LYMPH NODE, ILIAC : Infiltration; macrophage, multifocal, mild [LYMPH NODE, LIAC : Enlarged (G)]

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild [LYMPH NODE, ILIAC : Enlarged (G)]

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

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Animal:	133 (Continued)	Group:	5 - Group 5	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

PROSTATE GLAND : Inflammation; purulent, focal, minimal

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 493**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	134	Group:	5 - Group 5	Sex:	Male
		Dose:	Group 5: 100 µg/BNT162b1/animal		
Death Date:	29/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	29/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, mild (H) | LYMPH NODE, ILIAC : Histocytosis; mild (H) | LYMPH NODE, LIAC : germinal center; Increased Cellularity; minimal (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, RIGHT : Dilation; vascular, minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

INJECTION SITE I : inter- / perimuscular; Fibrosis; minimal

INJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, multifocal, minimal

INJECTION SITE II : intramuscular / interstitial; Fibrosis; minimal

INJECTION SITE II : inter- / perimuscular; Fibrosis; mild

INJECTION SITE II : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, minimal

INJECTION SITE II : inter- / perimuscular; Inflammation; lymphohistiocytic, minimal

KIDNEY, LEFT : Congestion; moderate

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

LYMPH NODE, CERVICAL : Histiocytosis; mild

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, LIAC : Histiocytosis; mild [LYMPH NODE, ILIAC : Enlarged (G)]

LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, mild [LYMPH NODE, LIAC : Enlarged (G)]

LYMPH NODE, ILIAC : germinal center; Increased Cellularity; minimal [LYMPH NODE, LIAC : Enlarged (G)]

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

SALIVARY GLANDS, PAROTIS - Not Present

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

**HISTOPATHOLOGY REPORT****PAGE: 494**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	135	Group:	5 - Group 5	Sex:	Male
		Dose:	Group 5: 100 µg/BNT162b1/animal		
Death Date:	29/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	29/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Histocytosis; moderate (H) | LYMPH NODE, ILIAC : Plasmacytosis; mild (H) | LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, mild (H) | LYMPH NODE, ILIAC : germinal center; Increased Cellularity; mild (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : Dilation; vascular, minimal  
 BRA N, CEREBELLUM : (Comment) artefacts  
 BRA N, CEREBRUM : (Comment) artefacts  
 INJECTION SITE I : intramuscular / interstitial; Fibrosis; multifocal, minimal  
 INJECTION SITE I : inter- / perimuscular; Fibrosis; minimal  
 INJECTION SITE I : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, minimal  
 INJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, minimal  
 INJECTION SITE II : inter- / perimuscular; Fibrosis; minimal  
 INJECTION SITE II : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, minimal  
 INJECTION SITE II : inter- / perimuscular; Inflammation; lymphohistiocytic, multifocal, minimal  
 NTTEST NE, COLON : mucosa-associated lymphoid tissue; Hyperplasia; mild  
 K DNEY, LEFT : Congestion; moderate  
 KIDNEY, RIGHT : Congestion; moderate  
 LIVER : Congestion; moderate  
 LIVER : Infiltration, Lymphocytic; multifocal, minimal  
 LYMPH NODE, CERVICAL : Histiocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal  
 LYMPH NODE, LIAC : Histiocytosis; moderate [LYMPH NODE, ILIAC : Enlarged (G)]  
 LYMPH NODE, ILIAC : Plasmacytosis; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
 LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, mild [LYMPH NODE, LIAC : Enlarged (G)]  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
 STOMACH, GLANDULAR : Dilatation; glandular, focal, minimal  
 THYMUS : Hemorrhage; acute, multifocal, minimal

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

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Animal:	135 (Continued)	Group:	5 - Group 5	Sex:	Male
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Any remaining protocol required tissues, which have been examined, have no visible lesions

Histopathology - The following Tissues were Not Examined:

PARATHYROID, RIGHT - Not Present

Histopathology - The following Protocol Required Tissues were Not Processed:

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	136	Group:	5 - Group 5	Sex:	Female
		Dose:	Group 5: 100 µg/BNT162b1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

SPLEEN : Enlarged (TGL) [SPLEEN : Hematopoiesis; increased, mild (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : Dilation; vascular, minimal

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

INJECTION SITE I : intramuscular / interstitial; Fibrosis; mild

INJECTION SITE I : inter- / perimuscular; Fibrosis; mild

INJECTION SITE I : subcutis; Inflammation; mixed, moderate

INJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild

INJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate

INJECTION SITE I : myofiber; Necrosis; focal, mild

INJECTION SITE I : myofiber; Degeneration; minimal

INJECTION SITE I : subcutis; Edema; moderate

INJECTION SITE I : intramuscular / interstitial; Edema; mild

INJECTION SITE I : inter- / perimuscular; Edema; moderate

INJECTION SITE I : Hyperplasia; epidermal, widespread, moderate

INJECTION SITE II : myofiber; Degeneration; minimal

INJECTION SITE II : Hyperplasia; epidermal, widespread, moderate

INJECTION SITE II : subcutis; Edema; moderate

INJECTION SITE II : intramuscular / interstitial; Edema; mild

INJECTION SITE II : inter- / perimuscular; Edema; moderate

INJECTION SITE II : intramuscular / interstitial; Fibrosis; mild

INJECTION SITE II : inter- / perimuscular; Fibrosis; mild

INJECTION SITE II : subcutis; Inflammation; mixed, moderate

INJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, mild

INJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate

KIDNEY, LEFT : Congestion; mild

KIDNEY, RIGHT : Congestion; mild

LIVER : Congestion; moderate

LIVER : Hematopoiesis; extramedullary, multifocal, minimal

LIVER : periportal; Vacuolation; hepatocellular, mild

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

**HISTOPATHOLOGY REPORT****PAGE: 497**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

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Animal:	136 (Continued)	Group:	5 - Group 5	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

LYMPH NODE, CERVICAL : Histocytosis; minimal  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
SKELETAL MUSCLE : Infiltration; mixed, focal, minimal  
SKELETAL MUSCLE : myofiber; Necrosis; focal, minimal  
NERVE, SCIATIC : perineural; Inflammation; moderate  
PEYERS PATCHES : germinal center; Increased Cellularity; mild  
SPLEEN : Hematopoiesis; increased, mild [SPLEEN : Enlarged (G)]  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
THYMUS : Hemorrhage; acute, multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

LYMPH NODE, LIAC - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT**

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	137	Group:	5 - Group 5	Sex:	Female
		Dose:	Group 5: 100 µg/BNT162b1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

INJECTION SITE I : Indurated (TGL) [INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis: minimal (H) | INJECTION SITE I : subcutis; Edema; mild (H) | INJECTION SITE I : inter- / perimuscular; Edema; mild (H) | INJECTION SITE I : intramuscular / interstitial; Edema; minimal (H)]

LYMPH NODE, ILIAC : Enlarged (TGL) [LYMPH NODE, ILIAC : Histocytosis; mild (H) | LYMPH NODE, ILIAC : Plasmacytosis; mild (H) | LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate (H)]

SPLEEN : Enlarged (TGL) [SPLEEN : Hematopoiesis; increased, minimal (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, RIGHT : Dilation; vascular, minimal

BONE, OS FEMORIS WITH JOINT : surrounding tissue; Inflammation; mixed, focal, mild

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

INJECTION SITE I : intramuscular / interstitial; Fibrosis: minimal [INJECTION SITE I : Indurated : (Comment) muscles (G)]

INJECTION SITE I : inter- / perimuscular; Fibrosis; mild [INJECTION SITE I : Indurated : (Comment) muscles (G)]

INJECTION SITE I : subcutis; Inflammation; mixed, moderate [INJECTION SITE I : Indurated : (Comment) muscles (G)]

INJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild [INJECTION SITE I : Indurated : (Comment) muscles (G)]

INJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate [INJECTION SITE I : Indurated : (Comment) muscles (G)]

INJECTION SITE I : myofiber; Degeneration; minimal

INJECTION SITE I : subcutis; Edema; mild [INJECTION SITE I : Indurated : (Comment) muscles (G)]

INJECTION SITE I : intramuscular / interstitial; Edema; minimal [INJECTION SITE I : Indurated : (Comment) muscles (G)]

INJECTION SITE I : inter- / perimuscular; Edema; mild [INJECTION SITE I : Indurated : (Comment) muscles (G)]

INJECTION SITE I : Hyperplasia; epidermal, widespread, moderate

INJECTION SITE II : myofiber; Degeneration; mild

INJECTION SITE II : Hyperplasia; epidermal, widespread, mild

INJECTION SITE II : subcutis; Edema; moderate

INJECTION SITE II : intramuscular / interstitial; Edema; mild

INJECTION SITE II : inter- / perimuscular; Edema; moderate

INJECTION SITE II : intramuscular / interstitial; Fibrosis; mild

INJECTION SITE II : inter- / perimuscular; Fibrosis; mild

INJECTION SITE II : subcutis; Inflammation; mixed, moderate

INJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, mild

**HISTOPATHOLOGY REPORT**

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	137 (Continued)	Group:	5 - Group 5	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

NJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate  
 NTEST NE, CECUM : Infiltration, Eosinophilic; increased, minimal  
 NTEST NE, COLON : Infiltration, Eosinophilic; increased, minimal  
 NTEST NE, RECTUM : Infiltration, Eosinophilic; increased, minimal  
 NTEST NE, RECTUM : mucosa-associated lymphoid tissue; Hyperplasia; mild  
 K DNEY, LEFT : Congestion; mild  
 K DNEY, RIGHT : Congestion; mild  
 LIVER : Congestion; mild  
 LIVER : periportal; Vacuolation; hepatocellular, mild  
 LYMPH NODE, CERVICAL : Histocytosis; mild  
 LYMPH NODE, CERVICAL : macrophage; Pigmentation; brown, minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
 LYMPH NODE, LIAC : Histiocytosis; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
 LYMPH NODE, ILIAC : Plasmacytosis; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
 LYMPH NODE, LIAC : Infiltration, Eosinophilic; minimal  
 LYMPH NODE, LIAC : Inflammation; minimal  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate [LYMPH NODE, ILIAC : Enlarged (G)]  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : Infiltration, Eosinophilic; minimal  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 SKELETAL MUSCLE : Infiltration; lymphohistiocytic, focal, minimal  
 NERVE, SCIATIC : perineural; Inflammation; moderate  
 SPLEEN : Congestion; minimal  
 SPLEEN : Hematopoiesis; increased, minimal [SPLEEN : Enlarged (G)]  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
 TRACHEA : Infiltration; mixed, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PEYERS PATCHES - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 500**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	138	Group:	5 - Group 5	Sex:	Female
		Dose:	Group 5: 100 µg/BNT162b1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

INJECTION SITE I : Indurated (TGL) [INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE I : subcutis; Edema: mild (H) | INJECTION SITE I : inter- / perimuscular; Edema: mild (H) | INJECTION SITE I : intramuscular / interstitial; Edema: mild (H)]

INJECTION SITE I : Thickened (TGL) [INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE I : subcutis; Edema: mild (H) | INJECTION SITE I : inter- / perimuscular; Edema: mild (H) | INJECTION SITE I : intramuscular / interstitial; Edema: mild (H)]

LYMPH NODE, ILIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Plasmacytosis; mild (H) | LYMPH NODE, ILIAC : Inflammation; mild (H) | LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild (H)]

INJECTION SITE II : Indurated : (Comment) muscle (TGL) [INJECTION SITE II : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE II : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE II : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate (H) | INJECTION SITE II : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE II : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE II : intramuscular / interstitial; Edema: mild (H) | INJECTION SITE II : inter- / perimuscular; Edema: moderate (H) | INJECTION SITE II : subcutis; Edema: moderate (H)]

INJECTION SITE II : Thickened (TGL) [INJECTION SITE II : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE II : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE II : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate (H) | INJECTION SITE II : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE II : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE II : intramuscular / interstitial; Edema: mild (H) | INJECTION SITE II : inter- / perimuscular; Edema: moderate (H) | INJECTION SITE II : subcutis; Edema: moderate (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [INJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated : (Comment) muscles (G)]

INJECTION SITE I : inter- / perimuscular; Fibrosis: mild [INJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated : (Comment) muscles (G)]

INJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated : (Comment) muscles (G)]

INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild [INJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated : (Comment) muscles (G)]

INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [INJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated : (Comment) muscles (G)]

**HISTOPATHOLOGY REPORT****PAGE: 501**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	138 (Continued)	Group:	5 - Group 5	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

INJECTION SITE I : myofiber; Degeneration; mild

INJECTION SITE I : subcutis; Edema; mild [INJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated : (Comment) muscles (G)]

INJECTION SITE I : intramuscular / interstitial; Edema; mild [INJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated : (Comment) muscles (G)]

INJECTION SITE I : inter- / perimuscular; Edema; mild [INJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated : (Comment) muscles (G)]

INJECTION SITE I : Hyperplasia; epidermal, widespread, moderate

INJECTION SITE II : myofiber; Degeneration; mild

INJECTION SITE II : Hyperplasia; epidermal, widespread, moderate

INJECTION SITE II : subcutis; Edema; moderate [INJECTION SITE II : Thickened (G) | INJECTION SITE II : Indurated : (Comment) muscles (G)]

INJECTION SITE II : intramuscular / interstitial; Edema; mild [INJECTION SITE II : Thickened (G) | INJECTION SITE II : Indurated : (Comment) muscles (G)]

INJECTION SITE II : inter- / perimuscular; Edema; moderate [INJECTION SITE II : Thickened (G) | INJECTION SITE II : Indurated : (Comment) muscles (G)]

INJECTION SITE II : intramuscular / interstitial; Fibrosis; mild [INJECTION SITE II : Thickened (G) | INJECTION SITE II : Indurated : (Comment) muscles (G)]

INJECTION SITE II : inter- / perimuscular; Fibrosis; mild [INJECTION SITE II : Thickened (G) | INJECTION SITE II : Indurated : (Comment) muscles (G)]

INJECTION SITE II : subcutis; Inflammation; mixed, moderate [INJECTION SITE II : Thickened (G) | INJECTION SITE II : Indurated : (Comment) muscles (G)]

INJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate [INJECTION SITE II : Thickened (G) | INJECTION SITE II : Indurated : (Comment) muscles (G)]

INJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate [INJECTION SITE II : Thickened (G) | INJECTION SITE II : Indurated : (Comment) muscles (G)]

KIDNEY, LEFT : Congestion; moderate

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; mild

LIVER : Hematopoiesis; extramedullary, multifocal, minimal

LIVER : periportal; Vacuolation; hepatocellular, mild

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

LYMPH NODE, CERVICAL : Histiocytosis; mild

LYMPH NODE, CERVICAL : macrophage; Pigmentation; brown, minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal

LYMPH NODE, ILIAC : Histiocytosis; mild

LYMPH NODE, ILIAC : Plasmacytosis; mild [LYMPH NODE, ILIAC : Enlarged (G)]

LYMPH NODE, ILIAC : Inflammation; mild [LYMPH NODE, ILIAC : Enlarged (G)]

LYMPH NODE, ILIAC : germinal center; Increased Cellularity; mild [LYMPH NODE, ILIAC : Enlarged (G)]

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

NERVE, SCIATIC : perineural; Inflammation; moderate

PARATHYROID, LEFT : Fibrosis; interstitial, mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

URINARY BLADDER : Infiltration, Lymphocytic; focal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

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Animal:	138 (Continued)	Group:	5 - Group 5	Sex:	Female
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Histopathology - The following Tissues were Not Examined:

None

Histopathology - The following Protocol Required Tissues were Not Processed:

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	139	Group:	5 - Group 5	Sex:	Female
		Dose:	Group 5: 100 µg/BNT162b1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Thickened (TGL) [INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE I : subcutis; Edema: moderate (H) | INJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | INJECTION SITE I : inter- / perimuscular; Edema: moderate (H)]

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Histocytosis; mild (H) | LYMPH NODE, LIAC : Plasmacytosis; moderate (H) | LYMPH NODE, LIAC : Inflammation; moderate (H) | LYMPH NODE, ILIAC : germinal center; Increased Cellularity; mild (H)]

SPLEEN : Enlarged (TGL) [SPLEEN : Hematopoiesis; increased, minimal (H)]

NJECTION SITE II : Thickened (TGL) [INJECTION SITE II : subcutis; Inflammation: mixed, mild (H) | INJECTION SITE II : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE II : intramuscular / interstitial; Inflammation: mixed, mild (H) | INJECTION SITE II : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE II : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE II : intramuscular / interstitial; Edema: minimal (H) | NJECTION SITE II : subcutis; Edema: mild (H) | NJECTION SITE II : inter- / perimuscular; Edema: moderate (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE, OS FEMORIS WITH JOINT : surrounding tissue; Inflammation: mixed, mild

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

EYE, LEFT : (Comment) artefacts

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Thickened (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Thickened (G)]

NJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Thickened (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild [ NJECTION SITE I : Thickened (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Thickened (G)]

NJECTION SITE I : myofiber; Degeneration: mild

NJECTION SITE I : subcutis; Edema: moderate [INJECTION SITE I : Thickened (G)]

NJECTION SITE I : intramuscular / interstitial; Edema: mild [ NJECTION SITE I : Thickened (G)]

NJECTION SITE I : inter- / perimuscular; Edema: moderate [ NJECTION SITE I : Thickened (G)]

NJECTION SITE I : Hyperplasia; epidermal, widespread, moderate

NJECTION SITE II : myofiber; Degeneration: minimal

NJECTION SITE II : Hyperplasia; epidermal, widespread, mild

NJECTION SITE II : subcutis; Edema: mild [ NJECTION SITE II : Thickened (G)]

NJECTION SITE II : intramuscular / interstitial; Edema: minimal [ NJECTION SITE II : Thickened (G)]

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	139 (Continued)	Group:	5 - Group 5	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

INJECTION SITE II : inter- / perimuscular; Edema; moderate [INJECTION SITE II : Thickened (G)]  
 INJECTION SITE II : intramuscular / interstitial; Fibrosis; mild [INJECTION SITE II : Thickened (G)]  
 INJECTION SITE II : inter- / perimuscular; Fibrosis; mild [INJECTION SITE II : Thickened (G)]  
 INJECTION SITE II : subcutis; Inflammation; mixed, mild [INJECTION SITE II : Thickened (G)]  
 INJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, mild [INJECTION SITE II : Thickened (G)]  
 INJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate [INJECTION SITE II : Thickened (G)]  
 KIDNEY, LEFT : Congestion; moderate  
 KIDNEY, RIGHT : Congestion; mild  
 LIVER : Congestion; mild  
 LIVER : periportal; Vacuolation; hepatocellular, minimal  
 LYMPH NODE, CERVICAL : Histocytosis; mild  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
 LYMPH NODE, ILIAC : Histiocytosis; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
 LYMPH NODE, ILIAC : Plasmacytosis; moderate [LYMPH NODE, ILIAC : Enlarged (G)]  
 LYMPH NODE, ILIAC : Inflammation; moderate [LYMPH NODE, ILIAC : Enlarged (G)]  
 LYMPH NODE, ILIAC : germinal center; Increased Cellularity; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 MAMMARY GLANDS : interstitium; Inflammation; mixed, minimal  
 NERVE, SCIATIC : perineural; Inflammation; moderate  
 PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
 SPLEEN : Hematopoiesis; increased, minimal [SPLEEN : Enlarged (G)]  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild  
 THYMUS : Hemorrhage; acute, focal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, LEFT - Not Present  
 PARATHYROID, RIGHT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 505**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	140	Group:	5 - Group 5	Sex:	Female
		Dose:	Group 5: 100 µg/BNT162b1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Thickened (TGL) [INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | INJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H)]

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Plasmacytosis; moderate (H) | LYMPH NODE, ILIAC : germinal center; Increased Cellularity; mild (H)]

SPLEEN : Enlarged (TGL) [SPLEEN : Hematopoiesis; increased, mild (H) | LYMPH NODE, LIAC : Inflammation; moderate (H)]  
 NJECTION SITE II : Thickened (TGL) [NJECTION SITE II : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE II : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE II : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate (H) | NJECTION SITE II : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE II : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE II : intramuscular / interstitial; Edema: mild (H) | INJECTION SITE II : inter- / perimuscular; Edema: moderate (H) | INJECTION SITE II : subcutis; Edema: moderate (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity: minimal

BONE, STERNUM : surrounding tissue; muscle; Infiltration: mixed, focal, mild

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [NJECTION SITE I : Thickened (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [NJECTION SITE I : Thickened (G)]

NJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Thickened (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate [INJECTION SITE I : Thickened (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [NJECTION SITE I : Thickened (G)]

NJECTION SITE I : myofiber; Degeneration: mild

NJECTION SITE I : subcutis; Edema: moderate [INJECTION SITE I : Thickened (G)]

NJECTION SITE I : intramuscular / interstitial; Edema: mild [NJECTION SITE I : Thickened (G)]

NJECTION SITE I : inter- / perimuscular; Edema: moderate [NJECTION SITE I : Thickened (G)]

NJECTION SITE I : Hyperplasia: epidermal, widespread, moderate

NJECTION SITE II : myofiber; Degeneration: mild

NJECTION SITE II : Hyperplasia: epidermal, widespread, moderate

NJECTION SITE II : subcutis; Edema: moderate [INJECTION SITE II : Thickened (G)]

NJECTION SITE II : intramuscular / interstitial; Edema: mild [INJECTION SITE II : Thickened (G)]

NJECTION SITE II : inter- / perimuscular; Edema: moderate [INJECTION SITE II : Thickened (G)]

NJECTION SITE II : intramuscular / interstitial; Fibrosis: mild [INJECTION SITE II : Thickened (G)]

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	140 (Continued)	Group:	5 - Group 5	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

INJECTION SITE II : inter- / perimuscular; Fibrosis; mild [INJECTION SITE II : Thickened (G)]  
 INJECTION SITE II : subcutis; Inflammation; mixed, moderate [INJECTION SITE II : Thickened (G)]  
 INJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate [INJECTION SITE II : Thickened (G)]  
 INJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate [INJECTION SITE II : Thickened (G)]  
 NTTEST NE, RECTUM : Infiltration, Eosinophilic; increased, minimal  
 K DNEY, LEFT : Congestion; mild  
 K DNEY, RIGHT : Congestion; mild  
 LIVER : Congestion; moderate  
 LIVER : periportal; Vacuolation; hepatocellular, mild  
 LYMPH NODE, CERVICAL : Histiocytosis; mild  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
 LYMPH NODE, ILIAC : Histiocytosis; mild  
 LYMPH NODE, LIAC : Plasmacytosis; moderate [LYMPH NODE, LIAC : Enlarged (G)]  
 LYMPH NODE, LIAC : Inflammation; moderate [SPLEEN : Enlarged (G)]  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 NERVE, SCIATIC : perineural; Inflammation; moderate  
 PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
 SPLEEN : Hematopoiesis; increased, mild [SPLEEN : Enlarged (G)]  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild  
 THYMUS : Hemorrhage; acute, focal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	141	Group:	5 - Group 5	Sex:	Female
		Dose:	Group 5: 100 µg/BNT162b1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Histiocytosis; mild (H) | LYMPH NODE, LIAC : Inflammation; mild (H) | LYMPH NODE, LIAC : Plasmacytosis; mild (H) | LYMPH NODE, ILIAC : germinal center; Increased Cellularity; mild (H)]  
 SPLEEN : Enlarged (TGL) [SPLEEN : Hematopoiesis; increased, mild (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE, OS FEMORIS WITH JOINT : surrounding tissue; Inflammation; mixed, focal, moderate  
 BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
 CERVIX : Keratinization; epithelial, minimal  
 EYE, LEFT : (Comment) artefacts  
 INJECTION SITE I : intramuscular / interstitial; Fibrosis; mild  
 INJECTION SITE I : inter- / perimuscular; Fibrosis; mild  
 INJECTION SITE I : subcutis; Inflammation; mixed, moderate  
 INJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild  
 INJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate  
 INJECTION SITE I : myofiber; Degeneration; mild  
 INJECTION SITE I : subcutis; Edema; moderate  
 INJECTION SITE I : intramuscular / interstitial; Edema; mild  
 INJECTION SITE I : inter- / perimuscular; Edema; moderate  
 INJECTION SITE I : Hyperplasia; epidermal, widespread, mild  
 INJECTION SITE II : myofiber; Degeneration; mild  
 INJECTION SITE II : Hyperplasia; epidermal, widespread, moderate  
 INJECTION SITE II : subcutis; Edema; moderate  
 INJECTION SITE II : intramuscular / interstitial; Edema; mild  
 INJECTION SITE II : inter- / perimuscular; Edema; moderate  
 INJECTION SITE II : intramuscular / interstitial; Fibrosis; mild  
 INJECTION SITE II : inter- / perimuscular; Fibrosis; mild  
 INJECTION SITE II : subcutis; Inflammation; mixed, moderate  
 INJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate  
 INJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate  
 K DNEY, LEFT : Congestion; mild  
 K DNEY, RIGHT : Congestion; mild  
 LIVER : Congestion; moderate

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	141 (Continued)	Group:	5 - Group 5	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

LIVER : periportal; Vacuolation; hepatocellular, mild  
LUNGS WITH BRONCHI : perivascular; Infiltration, Eosinophilic; multifocal, minimal  
LYMPH NODE, CERVICAL : Histiocytosis; mild  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, LIAC : Histiocytosis; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
LYMPH NODE, ILIAC : Plasmacytosis; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
LYMPH NODE, LIAC : Inflammation; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
NERVE, SCIATIC : perineural; Inflammation; mild  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
SKIN : dermis; subcutis; Infiltration; mixed, moderate  
SPLEEN : Congestion; minimal  
SPLEEN : Hematopoiesis; increased, mild [SPLEEN : Enlarged (G)]  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
THYMUS : Hemorrhage; acute, multifocal, minimal  
VAGINA : Keratinization; epithelial, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

URINARY BLADDER - Insufficient Tissue To Evaluate

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	142	Group:	5 - Group 5	Sex:	Female
		Dose:	Group 5: 100 µg/BNT162b1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Thickened (TGL) [NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H)]

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Histocytosis; mild (H) | LYMPH NODE, LIAC : Plasmacytosis; moderate (H) | LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate (H)]

NERVE, SCIATIC : (Comment) left

NERVE, SCIATIC : Adhesion : (Comment) to injection site I (TGL) [NERVE, SCIATIC : perineural; Inflammation: moderate (H)]

SPLEEN : Enlarged (TGL) [SPLEEN : Hematopoiesis; increased, minimal (H)]

NJECTION SITE II : Thickened (TGL) [NJECTION SITE II : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE II : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE II : intramuscular / interstitial; Inflammation: mixed, mild (H) | NJECTION SITE II : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE II : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE II : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE II : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE II : subcutis; Edema: moderate (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE, OS FEMORIS WITH JOINT : surrounding tissue; Inflammation: mixed, minimal

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [NJECTION SITE I : Thickened (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [NJECTION SITE I : Thickened (G)]

NJECTION SITE I : subcutis; Inflammation: mixed, moderate [NJECTION SITE I : Thickened (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild [NJECTION SITE I : Thickened (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [NJECTION SITE I : Thickened (G)]

NJECTION SITE I : myofiber; Degeneration: mild

NJECTION SITE I : subcutis; Edema: moderate [NJECTION SITE I : Thickened (G)]

NJECTION SITE I : intramuscular / interstitial; Edema: mild [NJECTION SITE I : Thickened (G)]

NJECTION SITE I : inter- / perimuscular; Edema: moderate [NJECTION SITE I : Thickened (G)]

NJECTION SITE I : Hyperplasia: epidermal, widespread, moderate

NJECTION SITE II : myofiber; Degeneration: mild

NJECTION SITE II : Hyperplasia: epidermal, widespread, moderate

NJECTION SITE II : subcutis; Edema: moderate [NJECTION SITE II : Thickened (G)]

NJECTION SITE II : intramuscular / interstitial; Edema: mild [NJECTION SITE II : Thickened (G)]

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	142 (Continued)	Group:	5 - Group 5	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

NJECTION SITE II : inter- / perimuscular; Edema; moderate [NJECTION SITE II : Thickened (G)]  
NJECTION SITE II : intramuscular / interstitial; Fibrosis; mild [NJECTION SITE II : Thickened (G)]  
NJECTION SITE II : inter- / perimuscular; Fibrosis; mild [NJECTION SITE II : Thickened (G)]  
NJECTION SITE II : subcutis; Inflammation; mixed, moderate [NJECTION SITE II : Thickened (G)]  
NJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, mild [NJECTION SITE II : Thickened (G)]  
NJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate [NJECTION SITE II : Thickened (G)]  
NTST NE, CECUM : Infiltration, Eosinophilic; increased, minimal  
KIDNEY, LEFT : Congestion; moderate  
KIDNEY, RIGHT : Congestion; moderate  
LIVER : Congestion; moderate  
LIVER : Hematopoiesis; extramedullary, multifocal, minimal  
LIVER : periportal; Vacuolation; hepatocellular, mild  
LUNGS WITH BRONCHI : Ossification; focal, minimal  
LYMPH NODE, CERVICAL : Histocytosis; mild  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, LIAC : Histiocytosis; mild [LYMPH NODE, LIAC : Enlarged (G)]  
LYMPH NODE, LIAC : Plasmacytosis; moderate [LYMPH NODE, LIAC : Enlarged (G)]  
LYMPH NODE, LIAC : Inflammation; minimal  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate [LYMPH NODE, LIAC : Enlarged (G)]  
LYMPH NODE, MESENTERIC : Histiocytosis; minimal  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
NERVE, SCIATIC : perineural; Inflammation; moderate [NERVE, SCIATIC : Adhesion : (Comment) to injection site I (G)]  
SKIN : dermis; subcutis; Infiltration; mixed, mild  
SPLEEN : Congestion; minimal  
SPLEEN : Hematopoiesis; increased, minimal [SPLEEN : Enlarged (G)]  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
THYROID, LEFT : Cyst; keratinized, single, minimal  
VAGINA : Keratinization; epithelial, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, RIGHT - Not Present  
PEYERS PATCHES - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	143	Group:	5 - Group 5	Sex:	Female
		Dose:	Group 5: 100 µg/BNT162b1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) [INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | INJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H)]

LYMPH NODE, ILIAC : Enlarged (TGL) [LYMPH NODE, ILIAC : Histiocytosis; mild (H) | LYMPH NODE, ILIAC : Plasmacytosis; mild (H) | LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild (H)]

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

BONE, OS FEMORIS WITH JOINT : surrounding tissue; Inflammation: mixed, mild

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity: minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : myofiber; Degeneration: mild

NJECTION SITE I : subcutis; Edema: moderate [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Edema: mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Edema: moderate [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : Hyperplasia: epidermal, widespread, moderate

NJECTION SITE II : myofiber; Degeneration: mild

NJECTION SITE II : Hyperplasia: epidermal, widespread, moderate

NJECTION SITE II : subcutis; Edema: moderate

NJECTION SITE II : intramuscular / interstitial; Edema: moderate

NJECTION SITE II : inter- / perimuscular; Edema: marked

NJECTION SITE II : intramuscular / interstitial; Fibrosis: mild

NJECTION SITE II : inter- / perimuscular; Fibrosis: mild

NJECTION SITE II : subcutis; Inflammation: mixed, moderate

NJECTION SITE II : intramuscular / interstitial; Inflammation: mixed, mild

NJECTION SITE II : inter- / perimuscular; Inflammation: mixed, moderate

K DNEY, LEFT : Congestion: moderate

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

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Animal:	143 (Continued)	Group:	5 - Group 5	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

KIDNEY, LEFT : tubule; Basophilia; focal, minimal  
KIDNEY, LEFT : Infiltration, Lymphocytic; focal, mild  
KIDNEY, RIGHT : Congestion; moderate  
LIVER : Congestion; mild  
LIVER : periportal; Vacuolation; hepatocellular, mild  
LUNGS WITH BRONCHI : perivascular; Infiltration, Eosinophilic; multifocal, mild  
LYMPH NODE, CERVICAL : Histocytosis; minimal  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal  
LYMPH NODE, ILIAC : Histiocytosis; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
LYMPH NODE, ILIAC : Plasmacytosis; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
LYMPH NODE, ILIAC : germinal center; Increased Cellularity; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
SKELETAL MUSCLE : Infiltration; mixed, focal, minimal  
NERVE, SCIATIC : perineural; Inflammation; mild  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
SKIN : dermis; subcutis; Infiltration; mixed, focal, mild  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, LEFT - Not Present  
PARATHYROID, RIGHT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 513**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	144	Group:	5 - Group 5	Sex:	Female
		Dose:	Group 5: 100 µg/BNT162b1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Plasmacytosis; moderate (H) | LYMPH NODE, ILIAC : Inflammation; mild (H) | LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, RIGHT : Dilation; vascular, minimal  
 BONE, OS FEMORIS WITH JOINT : surrounding tissue; Inflammation; mixed, minimal  
 BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
 NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild  
 NJECTION SITE I : inter- / perimuscular; Fibrosis; mild  
 NJECTION SITE I : subcutis; Inflammation; mixed, moderate  
 NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild  
 NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate  
 NJECTION SITE I : myofiber; Degeneration; mild  
 NJECTION SITE I : subcutis; Edema; moderate  
 NJECTION SITE I : intramuscular / interstitial; Edema; mild  
 NJECTION SITE I : inter- / perimuscular; Edema; marked  
 NJECTION SITE I : Hyperplasia; epidermal, widespread, moderate  
 NJECTION SITE II : myofiber; Degeneration; mild  
 NJECTION SITE II : Hyperplasia; epidermal, widespread, moderate  
 NJECTION SITE II : subcutis; Edema; moderate  
 NJECTION SITE II : intramuscular / interstitial; Edema; mild  
 NJECTION SITE II : inter- / perimuscular; Edema; moderate  
 NJECTION SITE II : intramuscular / interstitial; Fibrosis; mild  
 NJECTION SITE II : inter- / perimuscular; Fibrosis; mild  
 NJECTION SITE II : subcutis; Inflammation; mixed, moderate  
 NJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, mild  
 NJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate  
 KIDNEY, LEFT : Congestion; moderate  
 KIDNEY, RIGHT : Congestion; moderate  
 LIVER : Congestion; moderate  
 LIVER : Hematopoiesis; extramedullary, multifocal, minimal  
 LIVER : periportal; Vacuolation; hepatocellular, mild

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	144 (Continued)	Group:	5 - Group 5	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

LUNGS WITH BRONCHI : Hemorrhage; acute, focal, mild  
LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
LYMPH NODE, CERVICAL : Histiocytosis; minimal  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, ILIAC : Histiocytosis; mild  
LYMPH NODE, LIAC : Plasmacytosis; moderate [LYMPH NODE, LIAC : Enlarged (G)]  
LYMPH NODE, LIAC : Inflammation; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate [LYMPH NODE, ILIAC : Enlarged (G)]  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
NERVE, SCIATIC : perineural; Inflammation; moderate  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild  
STOMACH, GLANDULAR : mucosa-associated lymphoid tissue; Hyperplasia; minimal  
THYMUS : Hemorrhage; acute, focal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

OVIDUCT, LEFT - Not Present  
PARATHYROID, LEFT - Not Present  
PARATHYROID, RIGHT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	145	Group:	5 - Group 5	Sex:	Female
		Dose:	Group 5: 100 µg/BNT162b1/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

SPLEEN : Enlarged (TGL) [SPLEEN : Hematopoiesis; increased, minimal (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

HARDERIAN GLAND, LEFT : Infiltration, Lymphocytic; focal, minimal

INJECTION SITE I : intramuscular / interstitial; Fibrosis; mild

INJECTION SITE I : inter- / perimuscular; Fibrosis; mild

INJECTION SITE I : subcutis; Inflammation; mixed, moderate

INJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild

INJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate

INJECTION SITE I : myofiber; Degeneration; mild

INJECTION SITE I : subcutis; Edema; moderate

INJECTION SITE I : intramuscular / interstitial; Edema; mild

INJECTION SITE I : inter- / perimuscular; Edema; marked

INJECTION SITE I : Hyperplasia; epidermal, widespread, moderate

INJECTION SITE II : myofiber; Degeneration; mild

INJECTION SITE II : Hyperplasia; epidermal, widespread, moderate

INJECTION SITE II : subcutis; Edema; moderate

INJECTION SITE II : intramuscular / interstitial; Edema; mild

INJECTION SITE II : inter- / perimuscular; Edema; moderate

INJECTION SITE II : intramuscular / interstitial; Fibrosis; mild

INJECTION SITE II : inter- / perimuscular; Fibrosis; mild

INJECTION SITE II : subcutis; Inflammation; mixed, moderate

INJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate

INJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate

INTESTINE, COLON : mucosa-associated lymphoid tissue; Hyperplasia; mild

KIDNEY, LEFT : Congestion; mild

KIDNEY, RIGHT : Congestion; mild

LIVER : Congestion; moderate

LIVER : Hematopoiesis; extramedullary, multifocal, minimal

LIVER : periportal; Vacuolation; hepatocellular, mild

LUNGS WITH BRONCHI : macrophage; alveolus; Infiltration; foamy, multifocal, minimal

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	145 (Continued)	Group:	5 - Group 5	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

LYMPH NODE, CERVICAL : Histocytosis; minimal  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, ILIAC : Histiocytosis; mild  
LYMPH NODE, LIAC : Plasmacytosis; moderate  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
NERVE, SCIATIC : perineural; Inflammation; minimal  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
SPLEEN : Congestion; minimal  
SPLEEN : Hematopoiesis; increased, minimal [SPLEEN : Enlarged (G)]  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	146	Group:	5 - Group 5	Sex:	Female
		Dose:	Group 5: 100 µg/BNT162b1/animal		
Death Date:	29/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	29/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

No observations found

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

BONE, OS FEMORIS WITH JOINT : surrounding tissue; Infiltration; lymphohistiocytic, focal, mild  
 INJECTION SITE I : intramuscular / interstitial; Fibrosis; multifocal, minimal  
 INJECTION SITE I : inter- / perimuscular; Fibrosis; minimal  
 INJECTION SITE I : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, mild  
 INJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, multifocal, mild  
 INJECTION SITE II : intramuscular / interstitial; Fibrosis; mild  
 INJECTION SITE II : inter- / perimuscular; Fibrosis; mild  
 INJECTION SITE II : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, mild  
 INJECTION SITE II : inter- / perimuscular; Inflammation; lymphohistiocytic, multifocal, moderate  
 K DNEY, LEFT : Congestion; moderate  
 K DNEY, RIGHT : Congestion; moderate  
 LIVER : Congestion; moderate  
 LIVER : Infiltration, Lymphocytic; multifocal, minimal  
 LYMPH NODE, CERVICAL : Histiocytosis; mild  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
 LYMPH NODE, ILIAC : Histiocytosis; mild  
 LYMPH NODE, ILIAC : Plasmacytosis; mild  
 LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, moderate  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
 SPLEEN : Congestion; minimal  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
 STOMACH, GLANDULAR : Dilatation; glandular, focal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, RIGHT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	147	Group:	5 - Group 5	Sex:	Female
		Dose:	Group 5: 100 µg/BNT162b1/animal		
Death Date:	29/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	29/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

UTERUS : Dilation (TGL) [UTERUS : Dilation; moderate (H)]

UTERUS : Filled With Liquid : (Comment) clear (TGL) [UTERUS : Dilation; moderate (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

CERVIX : Keratinization; epithelial, mild

NJECTION SITE I : inter- / perimuscular; Fibrosis; multifocal, minimal

NJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, multifocal, minimal

NJECTION SITE II : inter- / perimuscular; Fibrosis; multifocal, minimal

K DNEY, LEFT : Congestion; mild

K DNEY, LEFT : Infiltration, Lymphocytic; focal, minimal

K DNEY, RIGHT : Congestion; mild

K DNEY, RIGHT : Infiltration, Lymphocytic; focal, minimal

LIVER : Congestion; moderate

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

LYMPH NODE, CERVICAL : Histiocytosis; mild

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, ILIAC : Histiocytosis; minimal

LYMPH NODE, ILIAC : Plasmacytosis; mild

LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; minimal

NERVE, SCIATIC : perineural; Inflammation; mild

PEYERS PATCHES : Mineralization; multifocal, mild

PEYERS PATCHES : Inflammation, Granulomatous; follicular, multifocal, minimal

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

UTERUS : Dilation; moderate [UTERUS : Dilation (G) | UTERUS : Filled With Liquid : (Comment) clear (G)]

VAGINA : Keratinization; epithelial, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	148	Group:	5 - Group 5	Sex:	Female
		Dose:	Group 5: 100 µg/BNT162b1/animal		
Death Date:	29/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	29/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

CERVIX : Keratinization; epithelial, mild

INJECTION SITE I : inter- / perimuscular; Fibrosis; minimal

INJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, multifocal, mild

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; moderate

K DNEY, RIGHT : Mineralization; focal, minimal

LIVER : Congestion; mild

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, ILIAC : Histiocytosis; mild

LYMPH NODE, ILIAC : Plasmacytosis; minimal

LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, mild

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

TRACHEA : (Comment) artefacts

VAGINA : Keratinization; epithelial, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

PARATHYROID, LEFT - Not Present

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	149	Group:	5 - Group 5	Sex:	Female
		Dose:	Group 5: 100 µg/BNT162b1/animal		
Death Date:	29/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	29/04/2020	Study Day (Week) of Death:	38 (6)		

Histo Recorder: (b) (6), (b) (4)

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Histocytosis; mild (H) | LYMPH NODE, LIAC : Plasmacytosis; minimal (H) | LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, mild (H) | LYMPH NODE, ILIAC : germinal center; Increased Cellularity; moderate (H)]

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

CERVIX : Keratinization; epithelial, mild

INJECTION SITE I : inter- / perimuscular; Fibrosis; minimal

INJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, multifocal, minimal

INJECTION SITE II : inter- / perimuscular; Fibrosis; minimal

INJECTION SITE II : inter- / perimuscular; Inflammation; lymphohistiocytic, multifocal, minimal

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, LIAC : Histiocytosis; mild [LYMPH NODE, ILIAC : Enlarged (G)]

LYMPH NODE, LIAC : Plasmacytosis; minimal [LYMPH NODE, ILIAC : Enlarged (G)]

LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, mild [LYMPH NODE, LIAC : Enlarged (G)]

LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate [LYMPH NODE, ILIAC : Enlarged (G)]

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

VAGINA : Keratinization; epithelial, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

oviduct, right - Not Present

parathyroid, right - Not Present

PEYERS PATCHES - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	150	Group:	5 - Group 5	Sex:	Female
		Dose:	Group 5: 100 µg/BNT162b1/animal		
Death Date:	29/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	29/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

LYMPH NODE, ILIAC : Enlarged (TGL) [LYMPH NODE, ILIAC : Histiocytosis; mild (H) | LYMPH NODE, ILIAC : Plasmacytosis; mild (H) | LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, minimal (H) | LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

HARDERIAN GLAND, LEFT : macrophage; Pigmentation; brown, focal, mild

HARDERIAN GLAND, LEFT : Inflammation, Chronic; focal, mild

HEART : Infiltration, Lymphocytic; focal, minimal

INJECTION SITE I : inter- / perimuscular; Fibrosis; minimal

INJECTION SITE II : intramuscular / interstitial; Fibrosis; multifocal, minimal

INJECTION SITE II : inter- / perimuscular; Fibrosis; minimal

INJECTION SITE II : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, mild

INJECTION SITE II : inter- / perimuscular; Inflammation; lymphohistiocytic, mild

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LUNGS WITH BRONCHI : Infiltration; mixed, focal, minimal

LYMPH NODE, CERVICAL : Histiocytosis; mild

LYMPH NODE, CERVICAL : macrophage; Pigmentation; brown, minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, LIAC : Histiocytosis; mild [LYMPH NODE, ILIAC : Enlarged (G)]

LYMPH NODE, ILIAC : Plasmacytosis; mild [LYMPH NODE, ILIAC : Enlarged (G)]

LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, minimal [LYMPH NODE, ILIAC : Enlarged (G)]

LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate [LYMPH NODE, ILIAC : Enlarged (G)]

LYMPH NODE, MESENTERIC : Histiocytosis; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

VAGINA : Keratinization; epithelial, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

PARATHYROID, LEFT - Not Present

PARATHYROID, RIGHT - Not Present

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

**HISTOPATHOLOGY REPORT****PAGE: 522**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	151	Group:	6 - Group 6	Sex:	Male
		Dose:	Group 6: 30 µg/BNT162c1/animal		
Death Date:	01/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	01/04/2020	Study Day (Week) of Death:	10 (2)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis; mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild (H) | NJECTION SITE I : subcutis; Edema; moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema; moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema; mild (H) | NJECTION SITE I : subcutis; Inflammation; mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate (H)]

NJECTION SITE I : Thickened (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis; mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild (H) | NJECTION SITE I : subcutis; Edema; moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema; moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

HARDERIAN GLAND, RIGHT : Necrosis; focal, minimal

HARDERIAN GLAND, RIGHT : Infiltration; mixed, focal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscles (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis; mild | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscles (G)]

NJECTION SITE I : subcutis; Inflammation; mixed, moderate | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscles (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscles (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscles (G)]

NJECTION SITE I : myofiber; Degeneration; mild

NJECTION SITE I : subcutis; Edema; moderate | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscles (G)]

NJECTION SITE I : intramuscular / interstitial; Edema; mild | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscles (G)]

NJECTION SITE I : inter- / perimuscular; Edema; moderate | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscles (G)]

NJECTION SITE I : Hyperplasia; epidermal, widespread, moderate

K DNEY, LEFT : Congestion; mild

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

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Animal:	151 (Continued)	Group:	6 - Group 6	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

K DNEY, RIGHT : Congestion; mild  
LIVER : Congestion; moderate  
LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
LYMPH NODE, CERVICAL : Histocytosis; minimal  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, LIAC : Histiocytosis; minimal  
LYMPH NODE, LIAC : Plasmacytosis; minimal  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; moderate  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
MAMMARY GLANDS : (Comment) including lymph node  
MAMMARY GLANDS : interstitium; Inflammation; mixed, focal, moderate  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
STOMACH, GLANDULAR : mucosa; Infiltration, Neutrophilic; focal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 524**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	152	Group:	6 - Group 6	Sex:	Male
		Dose:	Group 6: 30 µg/BNT162c1/animal		
Death Date:	01/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	01/04/2020	Study Day (Week) of Death:	10 (2)		

Histo Recorder: (b) (6), (b) (4)

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild (H) | NJECTION SITE I : subcutis; Edema; moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema; moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema; mild (H) | NJECTION SITE I : inter- / perimuscular; Fibrosis; mild (H) | NJECTION SITE I : subcutis; Inflammation; mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild (H)

NJECTION SITE I : Thickened (TGL) | NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild (H) | NJECTION SITE I : subcutis; Edema; moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema; moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema; mild (H) | NJECTION SITE I : inter- / perimuscular; Fibrosis; mild (H) | NJECTION SITE I : subcutis; Inflammation; mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild (H)

SPLEEN : Enlarged (TGL)

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
 NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscles (G)  
 NJECTION SITE I : inter- / perimuscular; Fibrosis; mild | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscles (G)  
 NJECTION SITE I : subcutis; Inflammation; mixed, moderate | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscles (G)  
 NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscles (G)  
 NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscles (G)  
 NJECTION SITE I : myofiber; Necrosis; focal, minimal  
 NJECTION SITE I : myofiber; Degeneration; mild  
 NJECTION SITE I : subcutis; Edema; moderate | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscles (G)  
 NJECTION SITE I : intramuscular / interstitial; Edema; mild | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscles (G)  
 NJECTION SITE I : inter- / perimuscular; Edema; moderate | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscles (G)  
 NJECTION SITE I : Hyperplasia; epidermal, widespread, moderate  
 K DNEY, LEFT : Congestion; moderate

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	152 (Continued)	Group:	6 - Group 6	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

KIDNEY, RIGHT : Congestion; moderate  
LIVER : Congestion; mild  
LIVER : Hematopoiesis; extramedullary, focal, minimal  
LIVER : Infiltration; mixed, focal, minimal  
LIVER : Necrosis; focal, minimal  
LUNGS WITH BRONCHI : perivascular; Infiltration, Eosinophilic; focal, minimal  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, ILIAC : Histocytosis; mild  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

BONE, STERNUM - No Section

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	153	Group:	6 - Group 6	Sex:	Male
		Dose:	Group 6: 30 µg/BNT162c1/animal		
Death Date:	01/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	01/04/2020	Study Day (Week) of Death:	10 (2)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H)

NJECTION SITE I : Thickened (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H)

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity: minimal  
 EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal  
 EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal  
 HARDERIAN GLAND, RIGHT : Infiltration; mixed, focal, minimal  
 NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G) ]  
 NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G) ]  
 NJECTION SITE I : subcutis; Inflammation: mixed, moderate [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G) ]  
 NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G) ]  
 NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G) ]  
 NJECTION SITE I : subcutis; Edema: moderate [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G) ]  
 NJECTION SITE I : intramuscular / interstitial; Edema: mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G) ]  
 NJECTION SITE I : inter- / perimuscular; Edema: moderate [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G) ]  
 NJECTION SITE I : Hyperplasia: epidermal, widespread, moderate  
 K DNEY, LEFT : Congestion: moderate

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	153 (Continued)	Group:	6 - Group 6	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

KIDNEY, RIGHT : Congestion; moderate  
KIDNEY, RIGHT : tubule; Basophilia; focal, minimal  
LIVER : Congestion; mild  
LYMPH NODE, CERVICAL : Histiocytosis; mild  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, ILIAC : Histiocytosis; mild  
LYMPH NODE, LIAC : Inflammation; moderate  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
MAMMARY GLANDS : (Comment) including lymph node  
MAMMARY GLANDS : interstitium; Inflammation; mixed, focal, mild  
PEYERS PATCHES : germinal center; Increased Cellularity; mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	154	Group:	6 - Group 6	Sex:	Male
		Dose:	Group 6: 30 µg/BNT162c1/animal		
Death Date:	01/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	01/04/2020	Study Day (Week) of Death:	10 (2)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis; mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild (H) | NJECTION SITE I : inter- / perimuscular; Edema; moderate (H) | NJECTION SITE I : subcutis; Edema; marked (H) | NJECTION SITE I : intramuscular / interstitial; Edema; mild (H) | NJECTION SITE I : subcutis; Inflammation; mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate (H)]

NJECTION SITE I : Thickened (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis; mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild (H) | NJECTION SITE I : inter- / perimuscular; Edema; moderate (H) | NJECTION SITE I : subcutis; Edema; marked (H) | NJECTION SITE I : intramuscular / interstitial; Edema; mild (H) | NJECTION SITE I : subcutis; Inflammation; mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate (H)]

SPLEEN : Enlarged (TGL)

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis; mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : subcutis; Inflammation; mixed, moderate [NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate [NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : myofiber; Degeneration; moderate

NJECTION SITE I : subcutis; Edema; marked [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Edema; mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Edema; moderate [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : Hyperplasia; epidermal, widespread, moderate

K DNEY, LEFT : Congestion; moderate

KIDNEY, LEFT : tubule; Basophilia; focal, mild

K DNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LIVER : Infiltration; mixed, multifocal, minimal

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	154 (Continued)	Group:	6 - Group 6	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

LYMPH NODE, CERVICAL : Histocytosis; minimal  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, ILIAC : Histiocytosis; mild  
LYMPH NODE, ILIAC : Plasmacytosis; minimal  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; minimal  
PEYERS PATCHES : germinal center; Increased Cellularity; mild  
SPLEEN : Congestion; mild  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
THYMUS : Hemorrhage; acute, multifocal, minimal  
THYROID, RIGHT : Cyst; keratinized, single, minimal  
TRACHEA : (Comment) artefacts

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	155	Group:	6 - Group 6	Sex:	Male
		Dose:	Group 6: 30 µg/BNT162c1/animal		
Death Date:	01/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	01/04/2020	Study Day (Week) of Death:	10 (2)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

INJECTION SITE I : Indurated (TGL)  
SPLEEN : Enlarged (TGL)

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal  
EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal  
K DNEY, LEFT : Congestion; moderate  
K DNEY, RIGHT : Congestion; moderate  
LIVER : Congestion; mild  
LUNGS WITH BRONCHI : Infiltration; lymphohistiocytic, focal, mild  
LYMPH NODE, CERVICAL : (Comment) artefacts  
LYMPH NODE, CERVICAL : Histiocytosis; minimal  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal  
LYMPH NODE, ILIAC : Histiocytosis; mild  
LYMPH NODE, ILIAC : Plasmacytosis; minimal  
LYMPH NODE, LIAC : Inflammation; mild  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
THYMUS : Hemorrhage; acute, multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	156	Group:	6 - Group 6	Sex:	Male
		Dose:	Group 6: 30 µg/BNT162c1/animal		
Death Date:	01/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	01/04/2020	Study Day (Week) of Death:	10 (2)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) [INJECTION SITE I : inter- / perimuscular; Fibrosis; mild (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis; mild (H) | INJECTION SITE I : subcutis; Edema; moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema; mild (H) | INJECTION SITE I : intramuscular / interstitial; Edema; minimal (H) | INJECTION SITE I : subcutis; Inflammation; mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate (H)]

NJECTION SITE I : Thickened (TGL) [INJECTION SITE I : inter- / perimuscular; Fibrosis; mild (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis; mild (H) | INJECTION SITE I : subcutis; Edema; moderate (H) | INJECTION SITE I : inter- / perimuscular; Edema; mild (H) | NJECTION SITE I : intramuscular / interstitial; Edema; minimal (H) | INJECTION SITE I : subcutis; Inflammation; mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate (H)]

LYMPH NODE, ILIAC : Enlarged (TGL) [LYMPH NODE, ILIAC : Inflammation; moderate (H) | LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate (H)]

SPLEEN : Enlarged (TGL)

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild [ NJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis; mild [ NJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : subcutis; Inflammation; mixed, moderate [INJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate [ NJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate [INJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : myofiber; Degeneration; mild

NJECTION SITE I : subcutis; Edema; moderate [INJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : intramuscular / interstitial; Edema; minimal [INJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

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Animal:	156 (Continued)	Group:	6 - Group 6	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

INJECTION SITE I : inter- / perimuscular; Edema; mild [INJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated : (Comment) muscle (G)]  
INJECTION SITE I : Hyperplasia; epidermal, widespread, moderate  
NTEST NE, COLON : mucosa-associated lymphoid tissue; Hyperplasia; minimal  
K DNEY, LEFT : Congestion; moderate  
KIDNEY, RIGHT : Congestion; moderate  
LIVER : Congestion; mild  
LIVER : periportal; Vacuolation; hepatocellular, minimal  
LYMPH NODE, CERVICAL : Histocytosis; mild  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, ILIAC : Histiocytosis; mild  
LYMPH NODE, ILIAC : Plasmacytosis; minimal  
LYMPH NODE, LIAC : Inflammation; moderate [LYMPH NODE, LIAC : Enlarged (G)]  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate [LYMPH NODE, ILIAC : Enlarged (G)]  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
PROSTATE GLAND : Inflammation; purulent, focal, mild  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 533**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	157	Group:	6 - Group 6	Sex:	Male
		Dose:	Group 6: 30 µg/BNT162c1/animal		
Death Date:	01/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	01/04/2020	Study Day (Week) of Death:	10 (2)		

Histo Recorder: (b) (6), (b) (4)

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: marked (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate (H)]

NJECTION SITE I : Thickened (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: marked (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate (H)]

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : subcutis; Inflammation: mixed, moderate [NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : myofiber; Degeneration: mild

NJECTION SITE I : subcutis; Edema: marked [NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Edema: mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Edema: moderate [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : Hyperplasia; epidermal, widespread, moderate

NTST NE, COLON : mucosa-associated lymphoid tissue; Hyperplasia; mild

K DNEY, LEFT : Congestion; moderate

KIDNEY, LEFT : tubule; Basophilia; focal, minimal

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	157 (Continued)	Group:	6 - Group 6	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

LYMPH NODE, CERVICAL : Histiocytosis; mild  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, LIAC : Histiocytosis; minimal  
LYMPH NODE, LIAC : Inflammation; minimal  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
PEYERS PATCHES : Mineralization; focal, minimal  
PEYERS PATCHES : germinal center; Increased Cellularity; mild  
STOMACH, GLANDULAR : mucosa-associated lymphoid tissue; Hyperplasia; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, LEFT - Not Present  
PARATHYROID, RIGHT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 535**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	158	Group:	6 - Group 6	Sex:	Male
		Dose:	Group 6: 30 µg/BNT162c1/animal		
Death Date:	01/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	01/04/2020	Study Day (Week) of Death:	10 (2)		

Histo Recorder: (b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) [INJECTION SITE I : inter- / perimuscular; Fibrosis; moderate (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis; moderate (H) | INJECTION SITE I : inter- / perimuscular; Edema; mild (H) | INJECTION SITE I : subcutis; Edema; moderate (H) | INJECTION SITE I : intramuscular / interstitial; Edema; mild (H) | INJECTION SITE I : subcutis; Inflammation; mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate (H)]

NJECTION SITE I : Thickened (TGL) [INJECTION SITE I : inter- / perimuscular; Fibrosis; moderate (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis; moderate (H) | INJECTION SITE I : inter- / perimuscular; Edema; mild (H) | INJECTION SITE I : subcutis; Edema; moderate (H) | INJECTION SITE I : intramuscular / interstitial; Edema; mild (H) | INJECTION SITE I : subcutis; Inflammation; mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate (H)]

NJECTION SITE I : Incrusted (TGL) [INJECTION SITE I : Scab; epidermal, multifocal, mild (H) | NJECTION SITE I : epidermis; Ulceration; multifocal, mild (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis; moderate [ NJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis; moderate [ NJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : subcutis; Inflammation; mixed, moderate [INJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate [NJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate [INJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : epidermis; Ulceration; multifocal, mild [INJECTION SITE I : Incrusted (G)]

NJECTION SITE I : myofiber; Degeneration; mild

NJECTION SITE I : subcutis; Edema; moderate [INJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : intramuscular / interstitial; Edema; mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : inter- / perimuscular; Edema; mild [ NJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated : (Comment) muscle (G)]

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	158 (Continued)	Group:	6 - Group 6	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

NJECTION SITE I : Hyperplasia; epidermal, widespread, moderate  
NJECTION SITE I : Scab; epidermal, multifocal, mild [INJECTION SITE I : Incrusted (G)]  
K DNEY, LEFT : Congestion; moderate  
KIDNEY, RIGHT : Congestion; moderate  
LIVER : Congestion; moderate  
LUNGS WITH BRONCHI : Hemorrhage; acute, focal, mild  
LYMPH NODE, CERVICAL : Histiocytosis; minimal  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, ILIAC : Histiocytosis; mild  
LYMPH NODE, ILIAC : Plasmacytosis; mild  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
MAMMARY GLANDS : interstitium; Inflammation; mixed, focal, mild  
PEYERS PATCHES : Mineralization; focal, minimal  
PEYERS PATCHES : germinal center; Increased Cellularity; mild  
SPLEEN : Congestion; minimal  
THYMUS : Hemorrhage; acute, multifocal, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, RIGHT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 537**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	159	Group:	6 - Group 6	Sex:	Male
		Dose:	Group 6: 30 µg/BNT162c1/animal		
Death Date:	01/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	01/04/2020	Study Day (Week) of Death:	10 (2)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: marked (H) | NJECTION SITE I : inter- / perimuscular; Edema: marked (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H)]

NJECTION SITE I : Thickened (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: marked (H) | NJECTION SITE I : inter- / perimuscular; Edema: marked (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : Dilation; vascular, minimal

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

EPIDIDYMYLIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : subcutis; Inflammation: mixed, moderate [NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : myofiber; Degeneration: mild

NJECTION SITE I : subcutis; Edema: marked [NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Edema: mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Edema: marked [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : Hyperplasia: epidermal, widespread, moderate

NTEST NE, COLON : mucosa-associated lymphoid tissue; Hyperplasia: mild

K DNEY, LEFT : Congestion; moderate

KIDNEY, RIGHT : Congestion; moderate

KIDNEY, RIGHT : tubule; Basophilia; focal, mild

K DNEY, RIGHT : tubule; Dilatation; focal, mild

LIVER : Congestion; moderate

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	159 (Continued)	Group:	6 - Group 6	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
LYMPH NODE, CERVICAL : Histiocytosis; minimal  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal  
LYMPH NODE, ILIAC : Histiocytosis; mild  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
MAMMARY GLANDS : interstitium; lymphatic; Inflammation; mixed, focal, moderate  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
STOMACH, GLANDULAR : Dilatation; glandular, focal, minimal  
THYMUS : Hemorrhage; acute, focal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, RIGHT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	160	Group:	6 - Group 6	Sex:	Male
		Dose:	Group 6: 30 µg/BNT162c1/animal		
Death Date:	01/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	01/04/2020	Study Day (Week) of Death:	10 (2)		

Histo Recorder: (b) (6), (b) (4)

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H)

NJECTION SITE I : Thickened (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H)

SPLEEN : Enlarged (TGL)

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

HARDERIAN GLAND, RIGHT : Infiltration; lymphohistiocytic, focal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)

NJECTION SITE I : subcutis; Inflammation: mixed, moderate | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)

NJECTION SITE I : myofiber; Degeneration; mild

NJECTION SITE I : subcutis; Edema: moderate | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)

NJECTION SITE I : intramuscular / interstitial; Edema: mild | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)

NJECTION SITE I : inter- / perimuscular; Edema: moderate | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)

NJECTION SITE I : Hyperplasia; epidermal, widespread, moderate

KIDNEY, LEFT : Congestion; moderate

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LYMPH NODE, CERVICAL : Histocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, LIAC : Histiocytosis; minimal

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

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Animal: 160 (Continued) Group: 6 - Group 6 Sex: Male

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**Histopathology Observations [Correlation] (Continued):**

LYMPH NODE, LIAC : Plasmacytosis; moderate  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
SPLEEN : Congestion; minimal  
THYMUS : Hemorrhage; acute, multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, LEFT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	161	Group:	6 - Group 6	Sex:	Male
		Dose:	Group 6: 30 µg/BNT162c1/animal		
Death Date:	22/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	22/04/2020	Study Day (Week) of Death:	31 (5)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

INJECTION SITE I : inter- / perimuscular; Fibrosis; minimal

INJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, multifocal, minimal

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LIVER : Infiltration; mixed, multifocal, minimal

LIVER : Necrosis; focal, marked

LUNGS WITH BRONCHI : Hemorrhage; acute, multifocal, mild

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal

LYMPH NODE, ILIAC : Histiocytosis; mild

LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity; minimal

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; minimal

PITUITARY GLAND : (Comment) incomplete

PROSTATE GLAND : Inflammation; purulent, focal, minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild

THYMUS : Hemorrhage; acute, multifocal, minimal

TRACHEA : (Comment) artefacts

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	162	Group:	6 - Group 6	Sex:	Male
		Dose:	Group 6: 30 µg/BNT162c1/animal		
Death Date:	22/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	22/04/2020	Study Day (Week) of Death:	31 (5)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

TESTIS, RECTUM : mucosa-associated lymphoid tissue; Hyperplasia; mild

KIDNEY, LEFT : Congestion; moderate

KIDNEY, LEFT : tubule; Basophilia; focal, minimal

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LYMPH NODE, CERVICAL : Histiocytosis; mild

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal

LYMPH NODE, LIAC : Infiltration; macrophage; multifocal, mild

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

THYMUS : Hemorrhage; acute, focal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	163	Group:	6 - Group 6	Sex:	Male
		Dose:	Group 6: 30 µg/BNT162c1/animal		
Death Date:	22/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	22/04/2020	Study Day (Week) of Death:	31 (5)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, RIGHT : Dilation; vascular, minimal  
 EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal  
 EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal  
 KIDNEY, LEFT : Congestion; moderate  
 KIDNEY, RIGHT : Congestion; moderate  
 LUNGS WITH BRONCHI : Hemorrhage; acute, multifocal, mild  
 LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
 LYMPH NODE, CERVICAL : Histiocytosis; mild  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
 LYMPH NODE, ILIAC : Histiocytosis; mild  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; minimal  
 LYMPH NODE, MESENTERIC : Histiocytosis; minimal  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; moderate  
 PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
 PROSTATE GLAND : Infiltration, Lymphocytic; multifocal, minimal  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
 TRACHEA : (Comment) artefacts

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	164	Group:	6 - Group 6	Sex:	Male
		Dose:	Group 6: 30 µg/BNT162c1/animal		
Death Date:	22/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	22/04/2020	Study Day (Week) of Death:	31 (5)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

EYE, LEFT : (Comment) artefacts

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; moderate

LIVER : Congestion; mild

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, ILIAC : Histiocytosis; minimal

LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity; minimal

LYMPH NODE, MESENTERIC : Histiocytosis; minimal

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; minimal

PROSTATE GLAND : Infiltration, Lymphocytic; multifocal, minimal

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

THYMUS : Hemorrhage; acute, focal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

PARATHYROID, LEFT - Not Present

PEYERS PATCHES - Not Present

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

**HISTOPATHOLOGY REPORT****PAGE: 545**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	165	Group:	6 - Group 6	Sex:	Male
		Dose:	Group 6: 30 µg/BNT162c1/animal		
Death Date:	22/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	22/04/2020	Study Day (Week) of Death:	31 (5)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

No observations found

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

ADRENAL GLAND, LEFT : Dilation; vascular, minimal

ADRENAL GLAND, RIGHT : Dilation; vascular, minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

KIDNEY, LEFT : Congestion; moderate

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LUNGS WITH BRONCHI : Hemorrhage; acute, focal, mild

LYMPH NODE, CERVICAL : (Comment) artefacts

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, LIAC : Histiocytosis; minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity; minimal

LYMPH NODE, MESENTERIC : Histiocytosis; minimal

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; mild

SPLEEN : Congestion; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	166	Group:	6 - Group 6	Sex:	Female
		Dose:	Group 6: 30 µg/BNT162c1/animal		
Death Date:	01/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	01/04/2020	Study Day (Week) of Death:	10 (2)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Thickened (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
 NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Thickened (G)]  
 NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Thickened (G)]  
 NJECTION SITE I : subcutis; Inflammation: mixed, moderate [NJECTION SITE I : Thickened (G)]  
 NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate [NJECTION SITE I : Thickened (G)]  
 NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Thickened (G)]  
 NJECTION SITE I : myofiber; Degeneration; mild  
 NJECTION SITE I : subcutis; Edema: moderate [NJECTION SITE I : Thickened (G)]  
 NJECTION SITE I : intramuscular / interstitial; Edema: mild [ NJECTION SITE I : Thickened (G)]  
 NJECTION SITE I : inter- / perimuscular; Edema: moderate [ NJECTION SITE I : Thickened (G)]  
 NJECTION SITE I : Hyperplasia: epidermal, widespread, moderate  
 K DNEY, LEFT : Congestion: mild  
 K DNEY, RIGHT : Congestion: mild  
 LIVER : Congestion: mild  
 LIVER : Hematopoiesis; extramedullary, multifocal, minimal  
 LIVER : periportal; Vacuolation; hepatocellular, minimal  
 LYMPH NODE, CERVICAL : Histiocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
 LYMPH NODE, ILIAC : Histiocytosis; mild  
 LYMPH NODE, ILIAC : Plasmacytosis; mild  
 LYMPH NODE, LIAC : Inflammation; minimal  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
 LYMPH NODE, MESENTERIC : Histiocytosis; moderate  
 PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
 SPLEEN : Congestion; minimal

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

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Animal: 166 (Continued) Group: 6 - Group 6 Sex: Female

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**Histopathology Observations [Correlation] (Continued):**

THYMUS : Hemorrhage: acute, multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, RIGHT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 548**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	167	Group:	6 - Group 6	Sex:	Female
		Dose:	Group 6: 30 µg/BNT162c1/animal		
Death Date:	01/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	01/04/2020	Study Day (Week) of Death:	10 (2)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis; mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild (H) | NJECTION SITE I : subcutis; Edema; moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema; moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema; mild (H) | NJECTION SITE I : subcutis; Inflammation; mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild (H)

NJECTION SITE I : Thickened (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis; mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild (H) | NJECTION SITE I : subcutis; Edema; moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema; moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema; mild (H) | NJECTION SITE I : subcutis; Inflammation; mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild (H)

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

HARDERIAN GLAND, LEFT : Inflammation; purulent, focal, mild

NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis; mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : subcutis; Inflammation; mixed, moderate [NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate [NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : epidermis; Ulceration; multifocal, moderate

NJECTION SITE I : myofiber; Degeneration; mild

NJECTION SITE I : subcutis; Edema; moderate [NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : intramuscular / interstitial; Edema; mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : inter- / perimuscular; Edema; moderate [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : Hyperplasia; epidermal, widespread, moderate

K DNEY, LEFT : Congestion; mild

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	167 (Continued)	Group:	6 - Group 6	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

K DNEY, RIGHT : Congestion; mild  
LIVER : Congestion; moderate  
LIVER : Hematopoiesis; extramedullary, multifocal, minimal  
LIVER : periportal; Vacuolation; hepatocellular, minimal  
LYMPH NODE, CERVICAL : Histiocytosis; minimal  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; moderate  
LYMPH NODE, ILIAC : Histiocytosis; mild  
LYMPH NODE, LIAC : Inflammation; mild  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
PEYERS PATCHES : Mineralization; focal, minimal  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
SPLEEN : Congestion; minimal  
VAGINA : Keratinization; epithelial, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, RIGHT - Not Present  
THYROID, RIGHT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	168	Group:	6 - Group 6	Sex:	Female
		Dose:	Group 6: 30 µg/BNT162c1/animal		
Death Date:	01/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	01/04/2020	Study Day (Week) of Death:	10 (2)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: marked (H) | NJECTION SITE I : inter- / perimuscular; Edema: marked (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H)]

NJECTION SITE I : Thickened (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: marked (H) | NJECTION SITE I : inter- / perimuscular; Edema: marked (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H)]

SPLEEN : Enlarged (TGL)

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : subcutis; Inflammation: mixed, moderate [NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : myofiber; Degeneration: mild

NJECTION SITE I : subcutis; Edema: marked [INJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : intramuscular / interstitial; Edema: mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : inter- / perimuscular; Edema: marked [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : Hyperplasia: epidermal, widespread, moderate

NTTEST NE, RECTUM : mucosa-associated lymphoid tissue; Hyperplasia: minimal

K DNEY, LEFT : Congestion: mild

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	168 (Continued)	Group:	6 - Group 6	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

K DNEY, RIGHT : Congestion; mild  
LIVER : Congestion; mild  
LIVER : Hematopoiesis; extramedullary, multifocal, minimal  
LIVER : periportal; Vacuolation; hepatocellular, minimal  
LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
LYMPH NODE, CERVICAL : Histiocytosis; mild  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, LIAC : Histiocytosis; minimal  
LYMPH NODE, ILIAC : Plasmacytosis; mild  
LYMPH NODE, LIAC : Inflammation; mild  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
SPLEEN : Congestion; mild  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
THYMUS : Cyst; focal, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PEYERS PATCHES - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	169	Group:	6 - Group 6	Sex:	Female
		Dose:	Group 6: 30 µg/BNT162c1/animal		
Death Date:	01/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	01/04/2020	Study Day (Week) of Death:	10 (2)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) [NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, marked (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate (H)]

NJECTION SITE I : Thickened (TGL) [NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, marked (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate (H)]

LYMPH NODE, ILIAC : Enlarged (TGL) [LYMPH NODE, ILIAC : Histocytosis; mild (H) | LYMPH NODE, ILIAC : Plasmacytosis; mild (H) | LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

BRA N, CEREBRUM : (Comment) artefacts

CERVIX : Keratinization: epithelial, mild

HARDERIAN GLAND, LEFT : Inflammation: granulomatous, focal, mild

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : subcutis; Inflammation: mixed, moderate [NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate [NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, marked [NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : myofiber; Degeneration; moderate

NJECTION SITE I : subcutis; Edema: moderate [NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Edema: mild [NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Edema: moderate [NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : Hyperplasia: epidermal, widespread, moderate

K DNEY, LEFT : Congestion; mild

K DNEY, RIGHT : Congestion; mild

LIVER : Congestion; mild

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	169 (Continued)	Group:	6 - Group 6	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

LIVER : Hematopoiesis; extramedullary, multifocal, minimal  
LIVER : periportal; Vacuolation; hepatocellular, mild  
LYMPH NODE, CERVICAL : Histiocytosis; mild  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, ILIAC : Histiocytosis; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
LYMPH NODE, ILIAC : Plasmacytosis; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
LYMPH NODE, ILIAC : Inflammation; mild  
LYMPH NODE, ILIAC : germinal center; Increased Cellularity; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
THYROID, RIGHT : (Comment) artefacts  
VAGINA : Keratinization; epithelial, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 554**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	170	Group:	6 - Group 6	Sex:	Female
		Dose:	Group 6: 30 µg/BNT162c1/animal		
Death Date:	01/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	01/04/2020	Study Day (Week) of Death:	10 (2)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: mild (H) | INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, marked (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate (H)]

NJECTION SITE I : Thickened (TGL) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | INJECTION SITE I : inter- / perimuscular; Edema: mild (H) | INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, marked (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate (H)]

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

ADRENAL GLAND, LEFT : Dilation; vascular, minimal

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

CERVIX : Keratinization; epithelial, mild

HARDERIAN GLAND, LEFT : Infiltration, Lymphocytic; multifocal, mild

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild | NJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : subcutis; Inflammation: mixed, moderate | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate | NJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, marked | NJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated (G)]

NJECTION SITE I : subcutis; Edema: moderate | NJECTION SITE I : Thickened (G) | INJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Edema: mild | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Edema: mild | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated (G)]

NJECTION SITE I : Hyperplasia; epidermal, widespread, moderate

NTEST NE, COLON : mucosa-associated lymphoid tissue; Hyperplasia; moderate

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; moderate

LIVER : Congestion; mild

LIVER : periportal; Vacuolation; hepatocellular, mild

LYMPH NODE, CERVICAL : Histocytosis; mild

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	170 (Continued)	Group:	6 - Group 6	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal  
LYMPH NODE, LIAC : Histiocytosis; minimal  
LYMPH NODE, ILIAC : Plasmacytosis; mild  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
OPTIC NERVE, LEFT : Hemorrhage; acute, focal, minimal  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
PITUITARY GLAND : pars distalis; Cyst; few, minimal  
SPLEEN : Congestion; minimal  
VAGINA : Keratinization; epithelial, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	171	Group:	6 - Group 6	Sex:	Female
		Dose:	Group 6: 30 µg/BNT162c1/animal		
Death Date:	01/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	01/04/2020	Study Day (Week) of Death:	10 (2)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: marked (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
 HARDERIAN GLAND, LEFT : Inflammation; granulomatous, focal, mild  
 HEART : Infiltration, Lymphocytic; focal, minimal  
 NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Indurated : (Comment) muscle (G)]  
 NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Indurated : (Comment) muscle (G)]  
 NJECTION SITE I : subcutis; Inflammation: mixed, moderate [NJECTION SITE I : Indurated : (Comment) muscle (G)]  
 NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild [ NJECTION SITE I : Indurated : (Comment) muscle (G)]  
 NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Indurated : (Comment) muscle (G)]  
 NJECTION SITE I : myofiber; Degeneration; mild  
 NJECTION SITE I : subcutis; Edema: marked [NJECTION SITE I : Indurated : (Comment) muscle (G)]  
 NJECTION SITE I : intramuscular / interstitial; Edema: mild [ NJECTION SITE I : Indurated : (Comment) muscle (G)]  
 NJECTION SITE I : inter- / perimuscular; Edema: moderate [ NJECTION SITE I : Indurated : (Comment) muscle (G)]  
 NJECTION SITE I : Hyperplasia: epidermal, widespread, moderate  
 K DNEY, LEFT : Congestion; mild  
 K DNEY, RIGHT : Congestion; mild  
 LIVER : Congestion; mild  
 LIVER : periportal; Vacuolation; hepatocellular, minimal  
 LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
 LYMPH NODE, ILIAC : Histiocytosis; mild  
 LYMPH NODE, ILIAC : Plasmacytosis; mild  
 LYMPH NODE, LIAC : Inflammation; moderate  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

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Animal: 171 (Continued) Group: 6 - Group 6 Sex: Female

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**Histopathology Observations [Correlation] (Continued):**

MAMMARY GLANDS : (Comment) including lymph node  
MAMMARY GLANDS : interstitium: Inflammation; mixed, focal, mild  
SPLEEN : Congestion; minimal  
THYMUS : Hemorrhage; acute, multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PEYERS PATCHES - Not Present  
SALIVARY GLANDS, PAROTIS - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	172	Group:	6 - Group 6	Sex:	Female
		Dose:	Group 6: 30 µg/BNT162c1/animal		
Death Date:	01/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	01/04/2020	Study Day (Week) of Death:	10 (2)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: marked (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : myofiber; Degeneration: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate (H)]

NJECTION SITE I : Thickened (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: marked (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : myofiber; Degeneration: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate (H)]

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity: minimal

EYE, LEFT : (Comment) artefacts

EYE, RIGHT : (Comment) artefacts

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : Hemorrhage: focal, mild

NJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate [INJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [INJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : myofiber; Degeneration: moderate [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : subcutis; Edema: marked [INJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : intramuscular / interstitial; Edema: mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : inter- / perimuscular; Edema: moderate [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	172 (Continued)	Group:	6 - Group 6	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

NJECTION SITE I : Hyperplasia; epidermal, widespread, moderate  
K DNEY, LEFT : Congestion; mild  
K DNEY, LEFT : Infiltration, Lymphocytic; focal, minimal  
K DNEY, RIGHT : Congestion; mild  
LIVER : Congestion; mild  
LIVER : Hematopoiesis; extramedullary, multifocal, minimal  
LIVER : periportal; Vacuolation; hepatocellular, mild  
LYMPH NODE, CERVICAL : Histiocytosis; minimal  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, ILIAC : Histiocytosis; mild  
LYMPH NODE, ILIAC : Plasmacytosis; minimal  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
OPTIC NERVE, RIGHT : Hemorrhage; acute, focal, mild  
PEYERS PATCHES : germinal center; Increased Cellularity; mild  
TRACHEA : Infiltration, Lymphocytic; focal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

OVARY, LEFT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	173	Group:	6 - Group 6	Sex:	Female
		Dose:	Group 6: 30 µg/BNT162c1/animal		
Death Date:	01/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	01/04/2020	Study Day (Week) of Death:	10 (2)		

Histo Recorder: (b) (6), (b) (4)

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: marked (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate (H)]

NJECTION SITE I : Thickened (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: marked (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate (H)]

NJECTION SITE I : Incrusted (TGL) | NJECTION SITE I : epidermis; Ulceration: focal, moderate (H)]

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity: minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : Inflammation: vascular, multifocal, moderate

NJECTION SITE I : subcutis; Inflammation: mixed, moderate | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : epidermis; Ulceration: focal, moderate | NJECTION SITE I : Incrusted (G)]

NJECTION SITE I : myofiber; Degeneration: moderate

NJECTION SITE I : subcutis; Edema: marked | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : intramuscular / interstitial; Edema: mild | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : inter- / perimuscular; Edema: moderate | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : Hyperplasia: epidermal, widespread, moderate

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	173 (Continued)	Group:	6 - Group 6	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

NTEST NE, COLON : mucosa-associated lymphoid tissue; Hyperplasia; mild  
K DNEY, LEFT : Congestion; mild  
K DNEY, RIGHT : Congestion; mild  
LIVER : Congestion; mild  
LIVER : periportal; Vacuolation; hepatocellular, mild  
LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
LYMPH NODE, CERVICAL : Histiocytosis; mild  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, ILIAC : Histiocytosis; mild  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
STOMACH, GLANDULAR : chief cell; Hyperplasia; multifocal, mild  
THYROID, RIGHT : Cyst; keratinized, single, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PEYERS PATCHES - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	174	Group:	6 - Group 6	Sex:	Female
		Dose:	Group 6: 30 µg/BNT162c1/animal		
Death Date:	01/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	01/04/2020	Study Day (Week) of Death:	10 (2)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: marked (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate (H)]

NJECTION SITE I : Thickened (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: marked (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate (H)]

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Histiocytosis; mild (H) | LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity: minimal  
NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : subcutis; Inflammation: mixed, moderate [NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate [NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : myofiber; Degeneration: moderate

NJECTION SITE I : subcutis; Edema: marked [NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : intramuscular / interstitial; Edema: mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : inter- / perimuscular; Edema: moderate [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)]

NJECTION SITE I : Hyperplasia: epidermal, widespread, moderate

NJECTION SITE I : Scab; epidermal, focal, mild

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	174 (Continued)	Group:	6 - Group 6	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

NTEST NE, COLON : mucosa-associated lymphoid tissue; Hyperplasia; minimal  
K DNEY, LEFT : Congestion; moderate  
KIDNEY, RIGHT : Congestion; moderate  
LIVER : Congestion; moderate  
LIVER : periportal; Vacuolation; hepatocellular, minimal  
LUNGS WITH BRONCHI : Hemorrhage; acute, focal, mild  
LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
LYMPH NODE, CERVICAL : Histiocytosis; mild  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, LIAC : Histiocytosis; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
LYMPH NODE, LIAC : Inflammation; minimal  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
MAMMARY GLANDS : (Comment) including lymph node  
MAMMARY GLANDS : interstitium; Inflammation; mixed, focal, moderate  
PEYERS PATCHES : germinal center; Increased Cellularity; minimal  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
THYMUS : Hemorrhage; acute, focal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	175	Group:	6 - Group 6	Sex:	Female
		Dose:	Group 6: 30 µg/BNT162c1/animal		
Death Date:	01/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	01/04/2020	Study Day (Week) of Death:	10 (2)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: minimal (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate (H)

NJECTION SITE I : Thickened (TGL) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: minimal (H) | NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate (H)

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

CERVIX : Keratinization; epithelial, mild

EYE, RIGHT : (Comment) artefacts

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)

NJECTION SITE I : subcutis; Inflammation: mixed, moderate | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)

NJECTION SITE I : myofiber; Degeneration; moderate

NJECTION SITE I : subcutis; Edema; moderate | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)

NJECTION SITE I : intramuscular / interstitial; Edema: minimal | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)

NJECTION SITE I : inter- / perimuscular; Edema: moderate | NJECTION SITE I : Thickened (G) | NJECTION SITE I : Indurated : (Comment) muscle (G)

NJECTION SITE I : Hyperplasia; epidermal, widespread, moderate

K DNEY, LEFT : Congestion; mild

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	175 (Continued)	Group:	6 - Group 6	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

K DNEY, RIGHT : Congestion; mild  
LIVER : Congestion; mild  
LIVER : Hematopoiesis; extramedullary, multifocal, minimal  
LIVER : Infiltration, Lymphocytic; multifocal, minimal  
LIVER : periportal; Vacuolation; hepatocellular, minimal  
LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
LYMPH NODE, CERVICAL : Erythrophagocytosis; minimal  
LYMPH NODE, CERVICAL : macrophage; Pigmentation; brown, minimal  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, ILIAC : Histocytosis; mild  
LYMPH NODE, ILIAC : Plasmacytosis; mild  
LYMPH NODE, LIAC : Inflammation; moderate  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
MAMMARY GLANDS : interstitium; Inflammation; mixed, focal, moderate  
PEYERS PATCHES : germinal center; Increased Cellularity; mild  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
STOMACH, GLANDULAR : Dilatation; glandular, focal, minimal  
THYMUS : Hemorrhage; acute, multifocal, mild  
VAGINA : Keratinization; epithelial, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	176	Group:	6 - Group 6	Sex:	Female
		Dose:	Group 6: 30 µg/BNT162c1/animal		
Death Date:	22/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	22/04/2020	Study Day (Week) of Death:	31 (5)		
		Histo Recorder:	(b) (6), (b) (4)		

Gross Pathology Animal Details:

No animal details found

Gross Pathology Observations [Correlation]:

No observations found

Gross Pathology - The following Tissues were Not Examined:

None

Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

Histopathology Animal Details:

No animal details found

Histopathology Observations [Correlation]:

CERVIX : Keratinization; epithelial, mild

CERVIX : Cyst; keratinized, moderate

JECTION SITE I : inter- / perimuscular; Fibrosis; minimal

JECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, multifocal, minimal

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, ILIAC : Histiocytosis; minimal

LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

THYMUS : Hemorrhage; acute, multifocal, mild

VAGINA : Keratinization; epithelial, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

Histopathology - The following Tissues were Not Examined:

NERVE, SCIATIC - Not Present

Histopathology - The following Protocol Required Tissues were Not Processed:

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	177	Group:	6 - Group 6	Sex:	Female
		Dose:	Group 6: 30 µg/BNT162c1/animal		
Death Date:	22/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	22/04/2020	Study Day (Week) of Death:	31 (5)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : Dilation; vascular, minimal

CERVIX : Keratinization; epithelial, mild

JECTION SITE I : inter- / perimuscular; Fibrosis; minimal

JECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, minimal

NTEST NE, COLON : mucosa-associated lymphoid tissue; Hyperplasia; mild

KIDNEY, LEFT : Congestion; moderate

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LIVER : periportal; Vacuolation; hepatocellular, minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, LIAC : Histiocytosis; minimal

LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, minimal

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; minimal

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

SPLEEN : Congestion; minimal

VAGINA : Keratinization; epithelial, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	178	Group:	6 - Group 6	Sex:	Female
		Dose:	Group 6: 30 µg/BNT162c1/animal		
Death Date:	22/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	22/04/2020	Study Day (Week) of Death:	31 (5)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

No observations found

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

INJECTION SITE I : inter- / perimuscular; Fibrosis; minimal

INJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, multifocal, minimal

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; moderate

K DNEY, RIGHT : Infiltration, Lymphocytic; focal, minimal

LIVER : Congestion; mild

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal

LYMPH NODE, ILIAC : Histiocytosis; minimal

LYMPH NODE, ILIAC : Plasmacytosis; minimal

LYMPH NODE, LIAC : Infiltration; macrophage, focal, minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity; minimal

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, RIGHT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	179	Group:	6 - Group 6	Sex:	Female
		Dose:	Group 6: 30 µg/BNT162c1/animal		
Death Date:	22/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	22/04/2020	Study Day (Week) of Death:	31 (5)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

K DNEY, LEFT : Congestion; moderate  
 K DNEY, RIGHT : Congestion; moderate  
 LIVER : Congestion; moderate  
 LIVER : Infiltration; mixed, focal, minimal  
 LIVER : Infiltration, Lymphocytic; multifocal, minimal  
 LYMPH NODE, CERVICAL : Histiocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
 LYMPH NODE, ILIAC : Histiocytosis; mild  
 LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, minimal  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; minimal  
 LYMPH NODE, MESENTERIC : Histiocytosis; minimal  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 SPLEEN : Congestion; mild  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
 THYMUS : Hemorrhage; acute, focal, minimal  
 THYROID, RIGHT : Cyst; keratinized, single, minimal  
 TONGUE : Granuloma; single, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

PARATHYROID, LEFT - Not Present  
 PEYERS PATCHES - Not Present

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	180	Group:	6 - Group 6	Sex:	Female
		Dose:	Group 6: 30 µg/BNT162c1/animal		
Death Date:	22/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	22/04/2020	Study Day (Week) of Death:	31 (5)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

HARDERIAN GLAND, RIGHT : Infiltration; mixed, focal, minimal

INJECTION SITE I : inter- / perimuscular; Fibrosis; minimal

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LYMPH NODE, CERVICAL : Histocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, ILIAC : Histiocytosis; mild

LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity; minimal

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	181	Group:	7 - Group 7	Sex:	Male
		Dose:	Group 7: 100 µg/BNT162b2/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) [INJECTION SITE I : subcutis; Inflammation: mixed, marked (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, marked (H) | INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : inter- / perimuscular; Edema: marked (H) | NJECTION SITE I : subcutis; Edema: moderate (H) | INJECTION SITE I : intramuscular / interstitial; Edema: mild (H)]

LYMPH NODE, ILIAC : Enlarged (TGL) [LYMPH NODE, ILIAC : Plasmacytosis; mild (H) | LYMPH NODE, ILIAC : Histocytosis; mild (H) | LYMPH NODE, LIAC : germinal center; Increased Cellularity: moderate (H)]

NJECTION SITE II : Indurated : (Comment) muscle (TGL) [INJECTION SITE II : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE II : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE II : intramuscular / interstitial; Inflammation: mixed, mild (H) | NJECTION SITE II : subcutis; Edema: marked (H) | INJECTION SITE II : inter- / perimuscular; Edema: marked (H) | INJECTION SITE II : intramuscular / interstitial; Edema: mild (H) | INJECTION SITE II : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE II : subcutis; Fibrosis: mild (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity: minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic: multifocal, minimal

HARDERIAN GLAND, LEFT : Infiltration: lymphohistiocytic, focal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : subcutis; Inflammation: mixed, marked [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, marked [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : myofiber; Degeneration: mild

NJECTION SITE I : subcutis; Edema: moderate [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Edema: mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Edema: marked [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : Hyperplasia: epidermal, widespread, moderate

NJECTION SITE II : myofiber; Degeneration: mild

NJECTION SITE II : Hyperplasia: epidermal, widespread, moderate

NJECTION SITE II : subcutis; Edema: marked [ NJECTION SITE II : Indurated (G)]

NJECTION SITE II : intramuscular / interstitial; Edema: mild [INJECTION SITE II : Indurated (G)]

NJECTION SITE II : inter- / perimuscular; Edema: marked [INJECTION SITE II : Indurated (G)]

NJECTION SITE II : subcutis; Fibrosis: mild [ NJECTION SITE II : Indurated (G)]

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	181 (Continued)	Group:	7 - Group 7	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

INJECTION SITE II : inter- / perimuscular; Fibrosis; mild [INJECTION SITE II : Indurated (G)]  
 INJECTION SITE II : subcutis; Inflammation; mixed, moderate [INJECTION SITE II : Indurated (G)]  
 INJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, mild [INJECTION SITE II : Indurated (G)]  
 INJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate [INJECTION SITE II : Indurated (G)]  
 K DNEY, LEFT : Congestion; mild  
 K DNEY, RIGHT : Congestion; mild  
 LIVER : Congestion; moderate  
 LUNGS WITH BRONCHI : Hemorrhage; acute, focal, mild  
 LYMPH NODE, CERVICAL : Histiocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
 LYMPH NODE, LIAC : Histiocytosis; mild [LYMPH NODE, LIAC : Enlarged (G)]  
 LYMPH NODE, LIAC : Plasmacytosis; mild [LYMPH NODE, LIAC : Enlarged (G)]  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate [LYMPH NODE, LIAC : Enlarged (G)]  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 NERVE, SCIATIC : perineural; Inflammation; moderate  
 PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
 STOMACH, GLANDULAR : Dilatation; glandular, focal, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 573**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	182	Group:	7 - Group 7	Sex:	Male
		Dose:	Group 7: 100 µg/BNT162b2/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

INJECTION SITE I : Indurated (TGL) [INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE I : subcutis; Edema: mild (H) | INJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | INJECTION SITE I : intramuscular / interstitial; Edema: mild (H)]

LYMPH NODE, ILIAC : Enlarged (TGL) [LYMPH NODE, ILIAC : Histocytosis; mild (H) | LYMPH NODE, ILIAC : Plasmacytosis; mild (H) | LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild (H)]

INJECTION SITE II : Indurated : (Comment) muscle (TGL) [INJECTION SITE II : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE II : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE II : intramuscular / interstitial; Inflammation: mixed, mild (H) | INJECTION SITE II : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE II : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE II : subcutis; Edema: moderate (H) | INJECTION SITE II : inter- / perimuscular; Edema: marked (H) | INJECTION SITE II : intramuscular / interstitial; Edema: mild (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : Dilatation; vascular, minimal

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : inter- / perimuscular; Fibrosis: mild [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : myofiber; Degeneration; mild

INJECTION SITE I : subcutis; Edema; mild [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : intramuscular / interstitial; Edema; mild [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : inter- / perimuscular; Edema; moderate [INJECTION SITE I : Indurated (G)]

INJECTION SITE II : myofiber; Degeneration; mild

INJECTION SITE II : subcutis; Edema; moderate [INJECTION SITE II : Indurated (G)]

INJECTION SITE II : intramuscular / interstitial; Edema; mild [INJECTION SITE II : Indurated (G)]

INJECTION SITE II : inter- / perimuscular; Edema; marked [INJECTION SITE II : Indurated (G)]

INJECTION SITE II : intramuscular / interstitial; Fibrosis: mild [INJECTION SITE II : Indurated (G)]

INJECTION SITE II : inter- / perimuscular; Fibrosis: mild [INJECTION SITE II : Indurated (G)]

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	182 (Continued)	Group:	7 - Group 7	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

INJECTION SITE II : subcutis; Inflammation; mixed, moderate [INJECTION SITE II : Indurated (G)]  
 INJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, mild [INJECTION SITE II : Indurated (G)]  
 INJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate [INJECTION SITE II : Indurated (G)]  
 K DNEY, LEFT : Congestion; moderate  
 K DNEY, LEFT : Infiltration, Lymphocytic; focal, minimal  
 K DNEY, LEFT : tubule; Cast; hyaline, focal, minimal  
 KIDNEY, RIGHT : Congestion; moderate  
 KIDNEY, RIGHT : tubule; Basophilia; focal, mild  
 LIVER : Congestion; moderate  
 LIVER : periportal; Vacuolation; hepatocellular, minimal  
 LYMPH NODE, CERVICAL : Histiocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
 LYMPH NODE, ILIAC : Histiocytosis; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
 LYMPH NODE, ILIAC : Plasmacytosis; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
 LYMPH NODE, ILIAC : Inflammation; mild  
 LYMPH NODE, ILIAC : germinal center; Increased Cellularity; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
 LYMPH NODE, MESENTERIC : Histiocytosis; moderate  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; minimal  
 SKELETAL MUSCLE : Infiltration; mixed, multifocal, minimal  
 NERVE, SCIATIC : perineural; Inflammation; moderate  
 PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
 THYMUS : Hemorrhage; acute, focal, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, LEFT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	183	Group:	7 - Group 7	Sex:	Male
		Dose:	Group 7: 100 µg/BNT162b2/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; focal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; focal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild

NJECTION SITE I : inter- / perimuscular; Fibrosis; mild

NJECTION SITE I : subcutis; Inflammation; mixed, moderate

NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate

NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate

NJECTION SITE I : myofiber; Degeneration; mild

NJECTION SITE I : subcutis; Edema; moderate

NJECTION SITE I : intramuscular / interstitial; Edema; mild

NJECTION SITE I : inter- / perimuscular; Edema; moderate

NJECTION SITE I : Hyperplasia; epidermal, widespread, moderate

NJECTION SITE II : myofiber; Degeneration; mild

NJECTION SITE II : Hyperplasia; epidermal, widespread, moderate

NJECTION SITE II : subcutis; Edema; moderate

NJECTION SITE II : intramuscular / interstitial; Edema; mild

NJECTION SITE II : inter- / perimuscular; Edema; moderate

NJECTION SITE II : intramuscular / interstitial; Fibrosis; mild

NJECTION SITE II : inter- / perimuscular; Fibrosis; mild

NJECTION SITE II : subcutis; Inflammation; mixed, moderate

NJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate

NJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate

K DNEY, LEFT : Congestion; moderate

K DNEY, LEFT : tubule; Cast; hyaline, multifocal, minimal

K DNEY, RIGHT : Congestion; moderate

KIDNEY, RIGHT : tubule; Basophilia; focal, mild

LIVER : Congestion; moderate

LIVER : periportal; Vacuolation; hepatocellular, mild

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	183 (Continued)	Group:	7 - Group 7	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

LYMPH NODE, CERVICAL : Histocytosis; minimal  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, ILIAC : Plasmacytosis; mild  
LYMPH NODE, LIAC : Inflammation; mild  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
NERVE, SCIATIC : perineural; Inflammation; mild  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
PITUITARY GLAND : pars distalis; Cyst; few, minimal  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
THYMUS : Hemorrhage; acute, multifocal, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PANCREAS - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	184	Group:	7 - Group 7	Sex:	Male
		Dose:	Group 7: 100 µg/BNT162b2/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Thickened (TGL) [INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | INJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : Intramuscular / interstitial; Edema: mild (H)]

NJECTION SITE I : Enlarged (TGL) [INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | INJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H)]

LYMPH NODE, ILIAC : Enlarged (TGL) [LYMPH NODE, ILIAC : Histocytosis; mild (H) | LYMPH NODE, ILIAC : Plasmacytosis; mild (H) | LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild (H)]

LYMPH NODE, RENAL : Enlarged (TGL) [LYMPH NODE, RENAL : Plasmacytosis; mild (H) | LYMPH NODE, RENAL : germinal center; Increased Cellularity; mild (H)]

NJECTION SITE II : Enlarged (TGL) [INJECTION SITE II : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE II : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE II : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate (H) | NJECTION SITE II : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE II : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE II : subcutis; Edema: moderate (H) | NJECTION SITE II : inter- / perimuscular; Edema: moderate (H) | INJECTION SITE II : intramuscular / interstitial; Edema: mild (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, RIGHT : Dilation; vascular, minimal

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Thickened (G) | INJECTION SITE I : Enlarged (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Enlarged (G)]

NJECTION SITE I : Hemorrhage; focal, mild

NJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Thickened (G) | NJECTION SITE I : Enlarged (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild [INJECTION SITE I : Thickened (G) | NJECTION SITE I : Enlarged (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Thickened (G) | INJECTION SITE I : Enlarged (G)]

NJECTION SITE I : myofiber; Degeneration; mild

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	184 (Continued)	Group:	7 - Group 7	Sex:	Male
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## Histopathology Observations [Correlation] (Continued):

NJECTION SITE I : subcutis; Edema; moderate [NJECTION SITE I : Thickened (G) | NJECTION SITE I : Enlarged (G)]  
 NJECTION SITE I : intramuscular / interstitial; Edema; mild [NJECTION SITE I : Thickened (G) | NJECTION SITE I : Enlarged (G)]  
 NJECTION SITE I : inter- / perimuscular; Edema; moderate [NJECTION SITE I : Thickened (G) | NJECTION SITE I : Enlarged (G)]  
 NJECTION SITE I : Hyperplasia; epidermal, widespread, mild  
 NJECTION SITE II : myofiber; Degeneration; mild  
 NJECTION SITE II : Hyperplasia; epidermal, widespread  
 NJECTION SITE II : subcutis; Edema; moderate [NJECTION SITE II : Enlarged (G)]  
 NJECTION SITE II : intramuscular / interstitial; Edema; mild [NJECTION SITE II : Enlarged (G)]  
 NJECTION SITE II : inter- / perimuscular; Edema; moderate [NJECTION SITE II : Enlarged (G)]  
 NJECTION SITE II : intramuscular / interstitial; Fibrosis; mild [NJECTION SITE II : Enlarged (G)]  
 NJECTION SITE II : inter- / perimuscular; Fibrosis; mild [NJECTION SITE II : Enlarged (G)]  
 NJECTION SITE II : subcutis; Inflammation; mixed, moderate [NJECTION SITE II : Enlarged (G)]  
 NJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate [NJECTION SITE II : Enlarged (G)]  
 NJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate [NJECTION SITE II : Enlarged (G)]  
 K DNEY, LEFT : Congestion; moderate  
 K DNEY, RIGHT : Congestion; moderate  
 LIVER : Congestion; moderate  
 LIVER : Infiltration, Lymphocytic; multifocal, minimal  
 LIVER : periportal; Vacuolation; hepatocellular, minimal  
 LYMPH NODE, CERVICAL : Histiocytosis; mild  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
 LYMPH NODE, LIAC : Histiocytosis; mild [LYMPH NODE, LIAC : Enlarged (G)]  
 LYMPH NODE, ILIAC : Plasmacytosis; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
 LYMPH NODE, LIAC : Inflammation; minimal  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 LYMPH NODE, RENAL : Histiocytosis; minimal  
 LYMPH NODE, RENAL : Plasmacytosis; mild [LYMPH NODE, RENAL : Enlarged (G)]  
 LYMPH NODE, RENAL : germinal center; Increased Cellularity; mild [LYMPH NODE, RENAL : Enlarged (G)]  
 NERVE, SCIATIC : perineural; Inflammation; marked  
 PEYERS PATCHES : Mineralization; focal, minimal  
 PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
 THYMUS : Hemorrhage; acute, multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

PARATHYROID, RIGHT - Not Present

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	185	Group:	7 - Group 7	Sex:	Male
		Dose:	Group 7: 100 µg/BNT162b2/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
 EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal  
 EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal  
 INJECTION SITE I : intramuscular / interstitial; Fibrosis; mild  
 INJECTION SITE I : inter- / perimuscular; Fibrosis; mild  
 INJECTION SITE I : subcutis; Inflammation; mixed, moderate  
 INJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate  
 INJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate  
 INJECTION SITE I : myofiber; Degeneration; mild  
 INJECTION SITE I : subcutis; Edema; moderate  
 INJECTION SITE I : intramuscular / interstitial; Edema; mild  
 INJECTION SITE I : inter- / perimuscular; Edema; moderate  
 INJECTION SITE I : Hyperplasia; epidermal, widespread, mild  
 INJECTION SITE II : myofiber; Degeneration; mild  
 INJECTION SITE II : Hyperplasia; epidermal, widespread, moderate  
 INJECTION SITE II : subcutis; Edema; marked  
 INJECTION SITE II : intramuscular / interstitial; Edema; mild  
 INJECTION SITE II : inter- / perimuscular; Edema; marked  
 INJECTION SITE II : intramuscular / interstitial; Fibrosis; mild  
 INJECTION SITE II : inter- / perimuscular; Fibrosis; mild  
 INJECTION SITE II : subcutis; Inflammation; mixed, moderate  
 INJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate  
 INJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate  
 KIDNEY, LEFT : Congestion; moderate  
 KIDNEY, RIGHT : Congestion; moderate  
 LIVER : Congestion; moderate  
 LIVER : Infiltration, Lymphocytic; focal, minimal  
 LIVER : periportal; Vacuolation; hepatocellular, mild  
 LYMPH NODE, CERVICAL : Histiocytosis; mild

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	185 (Continued)	Group:	7 - Group 7	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; moderate  
LYMPH NODE, ILIAC : Histiocytosis; mild  
LYMPH NODE, ILIAC : Plasmacytosis; mild  
LYMPH NODE, LIAC : Inflammation; mild  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
SKELETAL MUSCLE : Infiltration; mixed, focal, minimal  
NERVE, SCIATIC : perineural; Inflammation; moderate  
PEYERS PATCHES : germinal center; Increased Cellularity; mild  
PITUITARY GLAND : pars distalis; Cyst; few, minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
STOMACH, GLANDULAR : mucosa-associated lymphoid tissue; Hyperplasia; mild  
TRACHEA : (Comment) artefacts

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, LEFT - Not Present  
PARATHYROID, RIGHT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	186	Group:	7 - Group 7	Sex:	Male
		Dose:	Group 7: 100 µg/BNT162b2/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE, OS FEMORIS WITH JOINT : surrounding tissue; Inflammation; mixed, focal, mild  
BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

INJECTION SITE I : intramuscular / interstitial; Fibrosis; mild

INJECTION SITE I : inter- / perimuscular; Fibrosis; mild

INJECTION SITE I : subcutis; Inflammation; mixed, moderate

INJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate

INJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate

INJECTION SITE I : myofiber; Degeneration; mild

INJECTION SITE I : subcutis; Edema; moderate

INJECTION SITE I : intramuscular / interstitial; Edema; mild

INJECTION SITE I : inter- / perimuscular; Edema; moderate

INJECTION SITE I : Hyperplasia; epidermal, widespread, moderate

INJECTION SITE II : myofiber; Degeneration; mild

INJECTION SITE II : subcutis; Edema; moderate

INJECTION SITE II : intramuscular / interstitial; Edema; mild

INJECTION SITE II : inter- / perimuscular; Edema; moderate

INJECTION SITE II : intramuscular / interstitial; Fibrosis; mild

INJECTION SITE II : inter- / perimuscular; Fibrosis; mild

INJECTION SITE II : subcutis; Inflammation; mixed, moderate

INJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate

INJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate

KIDNEY, RIGHT : Congestion; mild

LIVER : Congestion; moderate

LIVER : Hematopoiesis; extramedullary, multifocal, minimal

LIVER : Necrosis; multifocal, minimal

LIVER : periportal; Vacuolation; hepatocellular, mild

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	186 (Continued)	Group:	7 - Group 7	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

LYMPH NODE, CERVICAL : Histocytosis; mild  
LYMPH NODE, CERVICAL : Plasmacytosis; mild  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; moderate  
LYMPH NODE, LIAC : Histiocytosis; minimal  
LYMPH NODE, LIAC : Plasmacytosis; moderate  
LYMPH NODE, LIAC : Inflammation; mild  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
NERVE, SCIATIC : perineural; Inflammation; moderate  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
PITUITARY GLAND : pars distalis; Cyst; few, mild  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
THYMUS : Hemorrhage; acute, multifocal, minimal  
TRACHEA : (Comment) artefacts

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

OPTIC NERVE, RIGHT - Not Present  
PARATHYROID, LEFT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	187	Group:	7 - Group 7	Sex:	Male
		Dose:	Group 7: 100 µg/BNT162b2/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) [INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : inter- / perimuscular; Edema: marked (H) | INJECTION SITE I : subcutis; Edema: marked (H) | INJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | NJECTION SITE II : inter- / perimuscular; Fibrosis: mild (H)]

LYMPH NODE, ILIAC : Enlarged (TGL) [LYMPH NODE, ILIAC : Histocytosis; mild (H) | LYMPH NODE, ILIAC : Plasmacytosis; mild (H) | LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild (H)]

SPLEEN : Enlarged (TGL)

NJECTION SITE II : Indurated : (Comment) muscle (TGL) [INJECTION SITE II : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE II : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE II : intramuscular / interstitial; Inflammation: mixed, mild (H) | NJECTION SITE II : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE II : subcutis; Edema: marked (H) | INJECTION SITE II : inter- / perimuscular; Edema: marked (H) | INJECTION SITE II : intramuscular / interstitial; Edema: mild (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, RIGHT : (Comment) artefacts

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity: minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

EYE, RIGHT : (Comment) incomplete

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : myofiber; Degeneration: mild

NJECTION SITE I : subcutis; Edema: marked [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Edema: mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Edema: marked [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : Hyperplasia: epidermal, widespread, moderate

NJECTION SITE II : Hyperplasia; epidermal, widespread, moderate

NJECTION SITE II : subcutis; Edema: marked [ NJECTION SITE II : Indurated (G)]

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	187 (Continued)	Group:	7 - Group 7	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

NJECTION SITE II : intramuscular / interstitial; Edema; mild [INJECTION SITE II : Indurated (G)]  
 NJECTION SITE II : inter- / perimuscular; Edema; marked [INJECTION SITE II : Indurated (G)]  
 NJECTION SITE II : intramuscular / interstitial; Fibrosis; mild [INJECTION SITE II : Indurated (G)]  
 NJECTION SITE II : inter- / perimuscular; Fibrosis; mild [INJECTION SITE I : Indurated (G)]  
 NJECTION SITE II : subcutis; Inflammation; mixed, moderate [INJECTION SITE II : Indurated (G)]  
 NJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, mild [INJECTION SITE II : Indurated (G)]  
 NJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate [INJECTION SITE II : Indurated (G)]  
 KIDNEY, LEFT : Congestion; moderate  
 KIDNEY, RIGHT : Congestion; moderate  
 LIVER : Congestion; moderate  
 LIVER : periportal; Vacuolation; hepatocellular, minimal  
 LUNGS WITH BRONCHI : Hemorrhage; acute, focal, mild  
 LYMPH NODE, CERVICAL : Histocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; minimal  
 LYMPH NODE, ILIAC : Histiocytosis; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
 LYMPH NODE, ILIAC : Plasmacytosis; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
 LYMPH NODE, LIAC : Inflammation; mild  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 SKELETAL MUSCLE : Infiltration; mixed, multifocal, minimal  
 SKELETAL MUSCLE : myofiber; Necrosis; multifocal, minimal  
 NERVE, SCIATIC : perineural; Inflammation; minimal  
 PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
 STOMACH, GLANDULAR : Infiltration; mixed, focal, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	188	Group:	7 - Group 7	Sex:	Male
		Dose:	Group 7: 100 µg/BNT162b2/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Thickened (TGL) [INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE I : inter- / perimuscular; Edema; marked (H) | NJECTION SITE I : subcutis; Edema; marked (H) | INJECTION SITE I : intramuscular / interstitial; Edema; mild (H)]

NJECTION SITE II : Thickened (TGL) [NJECTION SITE II : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE II : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE II : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate (H) | NJECTION SITE II : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE II : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE II : intramuscular / interstitial; Edema; mild (H) | INJECTION SITE II : subcutis; Edema; moderate (H) | INJECTION SITE II : inter- / perimuscular; Edema; moderate (H)]

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

ADRENAL GLAND, LEFT : Vacuolation; cortical, mild

ADRENAL GLAND, RIGHT : (Comment) artefacts

ADRENAL GLAND, RIGHT : Vacuolation; cortical, mild

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild [NJECTION SITE I : Thickened (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis; mild [NJECTION SITE I : Thickened (G)]

NJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Thickened (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild [NJECTION SITE I : Thickened (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [NJECTION SITE I : Thickened (G)]

NJECTION SITE I : myofiber; Degeneration; mild

NJECTION SITE I : subcutis; Edema; marked [INJECTION SITE I : Thickened (G)]

NJECTION SITE I : intramuscular / interstitial; Edema; mild [NJECTION SITE I : Thickened (G)]

NJECTION SITE I : inter- / perimuscular; Edema; marked [NJECTION SITE I : Thickened (G)]

NJECTION SITE I : Hyperplasia; epidermal, widespread, moderate

NJECTION SITE II : myofiber; Degeneration; mild

NJECTION SITE II : Hyperplasia; epidermal, widespread, moderate

NJECTION SITE II : subcutis; Edema; moderate [INJECTION SITE II : Thickened (G)]

NJECTION SITE II : intramuscular / interstitial; Edema; mild [INJECTION SITE II : Thickened (G)]

NJECTION SITE II : inter- / perimuscular; Edema; moderate [INJECTION SITE II : Thickened (G)]

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	188 (Continued)	Group:	7 - Group 7	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

NJECTION SITE II : intramuscular / interstitial; Fibrosis; mild [NJECTION SITE II : Thickened (G)]  
 NJECTION SITE II : inter- / perimuscular; Fibrosis; mild [NJECTION SITE II : Thickened (G)]  
 NJECTION SITE II : subcutis; Inflammation; mixed, moderate [NJECTION SITE II : Thickened (G)]  
 NJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate [NJECTION SITE II : Thickened (G)]  
 NJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate [NJECTION SITE II : Thickened (G)]  
 K DNEY, LEFT : Congestion; moderate  
 KIDNEY, LEFT : tubule; Basophilia; multifocal, minimal  
 K DNEY, LEFT : Inflammation, Chronic; interstitial, focal, mild  
 KIDNEY, RIGHT : Congestion; moderate  
 K DNEY, RIGHT : Mineralization; focal, minimal  
 LIVER : Congestion; moderate  
 LIVER : periportal; Vacuolation; hepatocellular, minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; moderate  
 LYMPH NODE, LIAC : Histocytosis; minimal  
 LYMPH NODE, ILIAC : Plasmacytosis; mild  
 LYMPH NODE, LIAC : Inflammation; mild  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 SKELETAL MUSCLE : Infiltration; mixed, multifocal, minimal  
 SKELETAL MUSCLE : myofiber; Necrosis; focal, minimal  
 NERVE, SCIATIC : perineural; Inflammation; marked  
 SPLEEN : Congestion; minimal  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PEYERS PATCHES - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	189	Group:	7 - Group 7	Sex:	Male
		Dose:	Group 7: 100 µg/BNT162b2/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

INJECTION SITE I : Indurated (TGL) [INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE I : inter- / perimuscular; Edema: marked (H) | INJECTION SITE I : subcutis; Edema: moderate (H) | INJECTION SITE I : intramuscular / interstitial; Edema: mild (H)]

LYMPH NODE, ILIAC : Enlarged (TGL) [LYMPH NODE, ILIAC : Histocytosis; mild (H) | LYMPH NODE, ILIAC : Plasmacytosis; mild (H) | LYMPH NODE, LIAC : Inflammation; moderate (H) | LYMPH NODE, ILIAC : germinal center; Increased Cellularity; moderate (H)]

SPLEEN : Enlarged (TGL) [SPLEEN : Hematopoiesis; increased, minimal (H)]

INJECTION SITE II : Indurated : (Comment) muscle (TGL) [INJECTION SITE II : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE II : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE II : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate (H) | INJECTION SITE II : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE II : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE II : intramuscular / interstitial; Edema: mild (H) | INJECTION SITE II : subcutis; Edema: moderate (H) | INJECTION SITE II : inter- / perimuscular; Edema: marked (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : inter- / perimuscular; Fibrosis: mild [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : myofiber; Degeneration: mild

INJECTION SITE I : subcutis; Edema: moderate [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : intramuscular / interstitial; Edema: mild [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : inter- / perimuscular; Edema: marked [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : Hyperplasia; epidermal, widespread, moderate

INJECTION SITE II : myofiber; Degeneration: mild

INJECTION SITE II : Hyperplasia; epidermal, widespread, moderate

INJECTION SITE II : subcutis; Edema: moderate [INJECTION SITE II : Indurated (G)]

INJECTION SITE II : intramuscular / interstitial; Edema: mild [INJECTION SITE II : Indurated (G)]

INJECTION SITE II : inter- / perimuscular; Edema: marked [INJECTION SITE II : Indurated (G)]

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	189 (Continued)	Group:	7 - Group 7	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

NJECTION SITE II : intramuscular / interstitial; Fibrosis; mild [NJECTION SITE II : Indurated (G)]  
 NJECTION SITE II : inter- / perimuscular; Fibrosis; mild [NJECTION SITE II : Indurated (G)]  
 NJECTION SITE II : Hemorrhage; focal, mild  
 NJECTION SITE II : subcutis; Inflammation; mixed, moderate [NJECTION SITE II : Indurated (G)]  
 NJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate [NJECTION SITE II : Indurated (G)]  
 NJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate [NJECTION SITE II : Indurated (G)]  
 K DNEY, LEFT : Congestion; moderate  
 KIDNEY, LEFT : tubule; Basophilia; focal, minimal  
 K DNEY, LEFT : Infiltration, Lymphocytic; multifocal, minimal  
 K DNEY, LEFT : Mineralization; multifocal, minimal  
 KIDNEY, RIGHT : Congestion; moderate  
 K DNEY, RIGHT : Mineralization; multifocal, minimal  
 LIVER : Congestion; mild  
 LIVER : Infiltration, Lymphocytic; multifocal, minimal  
 LIVER : periportal; Vacuolation; hepatocellular, minimal  
 LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
 LYMPH NODE, CERVICAL : (Comment) artefacts  
 LYMPH NODE, LIAC : Histocytosis; mild [LYMPH NODE, LIAC : Enlarged (G)]  
 LYMPH NODE, ILIAC : Plasmacytosis; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
 LYMPH NODE, LIAC : Inflammation; moderate [LYMPH NODE, LIAC : Enlarged (G)]  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate [LYMPH NODE, LIAC : Enlarged (G)]  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 NERVE, SCIATIC : perineural; Inflammation; moderate  
 PEYERS PATCHES : germinal center; Increased Cellularity; mild  
 SKIN : Necrosis; muscular, multifocal, minimal  
 SKIN : Infiltration, Neutrophilic; muscular, multifocal, mild  
 SPLEEN : Congestion; minimal  
 SPLEEN : Hematopoiesis; increased, minimal [SPLEEN : Enlarged (G)]  
 STOMACH, GLANDULAR : (Comment) artefacts  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
 THYMUS : Hemorrhage; acute, multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, RIGHT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	190	Group:	7 - Group 7	Sex:	Male
		Dose:	Group 7: 100 µg/BNT162b2/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE, OS FEMORIS WITH JOINT : surrounding tissue; Inflammation; mixed, focal, mild  
BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

INJECTION SITE I : intramuscular / interstitial; Fibrosis; mild

INJECTION SITE I : inter- / perimuscular; Fibrosis; mild

INJECTION SITE I : subcutis; Inflammation; mixed, moderate

INJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, multifocal, moderate

INJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate

INJECTION SITE I : myofiber; Degeneration; mild

INJECTION SITE I : subcutis; Edema; moderate

INJECTION SITE I : intramuscular / interstitial; Edema; mild

INJECTION SITE I : inter- / perimuscular; Edema; moderate

INJECTION SITE I : Hyperplasia; epidermal, widespread, moderate

INJECTION SITE II : myofiber; Degeneration; mild

INJECTION SITE II : subcutis; Edema; minimal

INJECTION SITE II : intramuscular / interstitial; Edema; minimal

INJECTION SITE II : inter- / perimuscular; Edema; mild

INJECTION SITE II : intramuscular / interstitial; Fibrosis; mild

INJECTION SITE II : inter- / perimuscular; Fibrosis; mild

INJECTION SITE II : subcutis; Inflammation; mixed, moderate

INJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, mild

INJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate

KIDNEY, LEFT : Congestion; moderate

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; mild

LIVER : Hematopoiesis; extramedullary, multifocal, minimal

LIVER : periportal; Vacuolation; hepatocellular, mild

LUNGS WITH BRONCHI : Hemorrhage; acute, multifocal, mild

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	190 (Continued)	Group:	7 - Group 7	Sex:	Male
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**Histopathology Observations [Correlation] (Continued):**

LUNGS WITH BRONCHI : perivascular; Infiltration, Eosinophilic; multifocal, minimal  
LYMPH NODE, CERVICAL : Histocytosis; mild  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, ILIAC : Histiocytosis; mild  
LYMPH NODE, ILIAC : Plasmacytosis; mild  
LYMPH NODE, LIAC : Inflammation; mild  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
SKELETAL MUSCLE : Infiltration; mixed, multifocal, minimal  
SKELETAL MUSCLE : myofiber; Necrosis; multifocal, minimal  
NERVE, SCIATIC : perineural; Inflammation; mild  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
SPLEEN : Hematopoiesis; increased, minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	191	Group:	7 - Group 7	Sex:	Male
		Dose:	Group 7: 100 µg/BNT162b2/animal		
Death Date:	29/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	29/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, RIGHT : Dilation; vascular, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

EYE, RIGHT : (Comment) artefacts

NJECTION SITE I : intramuscular / interstitial; Fibrosis; multifocal, minimal

NJECTION SITE I : inter- / perimuscular; Fibrosis; mild

NJECTION SITE I : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, mild

NJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, mild

NJECTION SITE II : intramuscular / interstitial; Fibrosis; multifocal, minimal

NJECTION SITE II : inter- / perimuscular; Fibrosis; minimal

NJECTION SITE II : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, minimal

NJECTION SITE II : inter- / perimuscular; Inflammation; lymphohistiocytic, minimal

K DNEY, LEFT : Congestion; moderate

KIDNEY, RIGHT : Congestion; moderate

KIDNEY, RIGHT : tubule; Basophilia; focal, minimal

LIVER : Congestion; moderate

LUNGS WITH BRONCHI : Hemorrhage; acute, multifocal, minimal

LYMPH NODE, CERVICAL : Histocytosis; mild

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, LIAC : (Comment) artefacts

LYMPH NODE, LIAC : Histiocytosis; minimal

LYMPH NODE, LIAC : Plasmacytosis; minimal

LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity; minimal

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

THYMUS : Hemorrhage; acute, multifocal, minimal

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

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Animal:	191 (Continued)	Group:	7 - Group 7	Sex:	Male
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Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, LEFT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	192	Group:	7 - Group 7	Sex:	Male
		Dose:	Group 7: 100 µg/BNT162b2/animal		
Death Date:	29/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	29/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

HEART : Infiltration, Lymphocytic; multifocal, minimal

NJECTION SITE I : inter- / perimuscular; Fibrosis; minimal

NJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, multifocal, minimal

NJECTION SITE II : intramuscular / interstitial; Fibrosis; multifocal, minimal

NJECTION SITE II : inter- / perimuscular; Fibrosis; mild

NJECTION SITE II : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, minimal

NJECTION SITE II : inter- / perimuscular; Inflammation; lymphohistiocytic, minimal

K DNEY, LEFT : Congestion; moderate

K DNEY, LEFT : Infiltration, Lymphocytic; focal, minimal

K DNEY, RIGHT : Congestion; moderate

KIDNEY, RIGHT : tubule; Basophilia; focal, minimal

K DNEY, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

LIVER : Congestion; moderate

LYMPH NODE, CERVICAL : Histocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, LIAC : (Comment) artefacts

LYMPH NODE, ILIAC : Histiocytosis; minimal

LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

THYMUS : Hemorrhage; acute, multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

PEYERS PATCHES - Not Present

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	193	Group:	7 - Group 7	Sex:	Male
		Dose:	Group 7: 100 µg/BNT162b2/animal		
Death Date:	29/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	29/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : Dilation; vascular, minimal

ADRENAL GLAND, RIGHT : Dilation; vascular, minimal

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

HEART : Infiltration, Lymphocytic; focal, minimal

INJECTION SITE I : intramuscular / interstitial; Fibrosis; multifocal, minimal

INJECTION SITE I : inter- / perimuscular; Fibrosis; mild

INJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, multifocal, mild

INJECTION SITE II : intramuscular / interstitial; Fibrosis; multifocal, minimal

INJECTION SITE II : inter- / perimuscular; Fibrosis; mild

INJECTION SITE II : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, mild

INJECTION SITE II : inter- / perimuscular; Inflammation; lymphohistiocytic, mild

KIDNEY, LEFT : Congestion; moderate

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

LYMPH NODE, CERVICAL : Histocytosis; mild

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, LIAC : Histiocytosis; minimal

LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	194	Group:	7 - Group 7	Sex:	Male
		Dose:	Group 7: 100 µg/BNT162b2/animal		
Death Date:	29/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	29/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BRA N, CEREBELLUM : (Comment) artefacts

BRA N, CEREBRUM : (Comment) artefacts

EPIDIDYMIS, LEFT : Infiltration, Lymphocytic; multifocal, minimal

EPIDIDYMIS, RIGHT : Infiltration, Lymphocytic; multifocal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis; multifocal, minimal

NJECTION SITE I : inter- / perimuscular; Fibrosis; mild

NJECTION SITE I : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, minimal

NJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, mild

NJECTION SITE II : inter- / perimuscular; Fibrosis; minimal

NJECTION SITE II : inter- / perimuscular; Inflammation; lymphohistiocytic, multifocal, minimal

NTEST NE, RECTUM : mucosa-associated lymphoid tissue; Hyperplasia; minimal

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, ILIAC : Histiocytosis; minimal

LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, minimal

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

NERVE, SCIATIC : perineural; Inflammation; minimal

PEYERS PATCHES : germinal center; Increased Cellularity; mild

PROSTATE GLAND : Infiltration, Lymphocytic; multifocal, mild

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

None

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	195	Group:	7 - Group 7	Sex:	Male
		Dose:	Group 7: 100 µg/BNT162b2/animal		
Death Date:	29/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	29/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Histiocytosis; mild (H) | LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, mild (H) | LYMPH NODE, ILIAC : germinal center; Increased Cellularity; mild (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : Dilatation; vascular, minimal

INJECTION SITE I : intramuscular / interstitial; Fibrosis; multifocal, minimal

INJECTION SITE I : inter- / perimuscular; Fibrosis; mild

INJECTION SITE I : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, mild

INJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, mild

INJECTION SITE II : intramuscular / interstitial; Fibrosis; multifocal, minimal

INJECTION SITE II : inter- / perimuscular; Fibrosis; mild

INJECTION SITE II : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, mild

INJECTION SITE II : inter- / perimuscular; Inflammation; lymphohistiocytic, mild

TESTIS, RECTUM : mucosa-associated lymphoid tissue; Hyperplasia; mild

KIDNEY, LEFT : Congestion; moderate

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LUNGS WITH BRONCHI : Hemorrhage; acute, multifocal, minimal

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, LIAC : Histiocytosis; mild [LYMPH NODE, LIAC : Enlarged (G)]

LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, mild [LYMPH NODE, LIAC : Enlarged (G)]

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild [LYMPH NODE, ILIAC : Enlarged (G)]

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

NERVE, SCIATIC : perineural; Inflammation; minimal

PROSTATE GLAND : Infiltration, Lymphocytic; focal, moderate

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

STOMACH, GLANDULAR : mucosa-associated lymphoid tissue; Hyperplasia; mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

PEYERS PATCHES - Not Present

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	196	Group:	7 - Group 7	Sex:	Female
		Dose:	Group 7: 100 µg/BNT162b2/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Thickened (TGL) [NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H) | NJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | NJECTION SITE I : subcutis; Edema: marked (H) | NJECTION SITE I : inter- / perimuscular; Edema: marked (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H)]

SPLEEN : Enlarged (TGL) [SPLEEN : Hematopoiesis; increased, minimal (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : Dilation; vascular, minimal

BONE, OS FEMORIS WITH JOINT : surrounding tissue; Inflammation: mixed, focal, mild

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity: minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Thickened (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Thickened (G)]

NJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Thickened (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild [ NJECTION SITE I : Thickened (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Thickened (G)]

NJECTION SITE I : epidermis; Ulceration: focal, mild

NJECTION SITE I : myofiber; Degeneration: mild

NJECTION SITE I : subcutis; Edema: marked [INJECTION SITE I : Thickened (G)]

NJECTION SITE I : intramuscular / interstitial; Edema: mild [ NJECTION SITE I : Thickened (G)]

NJECTION SITE I : inter- / perimuscular; Edema: marked [INJECTION SITE I : Thickened (G)]

NJECTION SITE I : Hyperplasia: epidermal, widespread, moderate

NJECTION SITE II : myofiber; Degeneration: mild

NJECTION SITE II : Hyperplasia: epidermal, widespread, moderate

NJECTION SITE II : subcutis; Edema: marked

NJECTION SITE II : intramuscular / interstitial; Edema: mild

NJECTION SITE II : inter- / perimuscular; Edema: marked

NJECTION SITE II : intramuscular / interstitial; Fibrosis: mild

NJECTION SITE II : inter- / perimuscular; Fibrosis: mild

NJECTION SITE II : subcutis; Inflammation: mixed, moderate

NJECTION SITE II : intramuscular / interstitial; Inflammation: mixed, mild

NJECTION SITE II : inter- / perimuscular; Inflammation: mixed, moderate

HISTOPATHOLOGY REPORT

PAGE: 598

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	196 (Continued)	Group:	7 - Group 7	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

NTEST NE, RECTUM : Infiltration, Eosinophilic; increased, minimal  
K DNEY, LEFT : Congestion; moderate  
KIDNEY, RIGHT : Congestion; moderate  
LIVER : Congestion; mild  
LIVER : periportal; Vacuolation; hepatocellular, mild  
LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
LUNGS WITH BRONCHI : perivascular; Infiltration, Eosinophilic; multifocal, minimal  
LYMPH NODE, CERVICAL : Histiocytosis; minimal  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, ILIAC : Histiocytosis; mild  
LYMPH NODE, LIAC : Plasmacytosis; moderate  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
NERVE, SCIATIC : perineural; Inflammation; mild  
SKIN : dermis; subcutis; Infiltration; mixed, mild  
SPINAL CORD : Cyst; keratinized, single, mild  
SPLEEN : Congestion; minimal  
SPLEEN : Hematopoiesis; increased, minimal [SPLEEN : Enlarged (G)]  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
THYMUS : Hemorrhage; acute, multifocal, minimal  
UTERUS : (Comment) incomplete  
VAGINA : (Comment) artefacts

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

CERVIX - Not Present  
PARATHYROID, RIGHT - Not Present  
PEYERS PATCHES - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT**

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	197	Group:	7 - Group 7	Sex:	Female
		Dose:	Group 7: 100 µg/BNT162b2/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)	Histo Recorder:	(b) (6), (b) (4)

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Thickened (TGL) [INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE I : inter- / perimuscular; Edema: marked (H) | INJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : intramuscular / interstitial; Edema: mild (H)]

NJECTION SITE I : Adhesion : (Comment) to sciatic nerve and bone, muscle jellied (TGL) [INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H)]

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Histocytosis: mild (H) | LYMPH NODE, LIAC : Plasmacytosis; moderate (H) | LYMPH NODE, LIAC : germinal center; Increased Cellularity: moderate (H)]

SPLEEN : Enlarged (TGL) [SPLEEN : Hematopoiesis; increased, minimal (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE, OS FEMORIS WITH JOINT : surrounding tissue; Inflammation: mixed, mild

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity: minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Thickened (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Thickened (G) | NJECTION SITE I : Adhesion : (Comment) to sciatic nerve and bone, muscle jellied (G)]

NJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Thickened (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild [ NJECTION SITE I : Thickened (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Thickened (G)]

NJECTION SITE I : myofiber; Degeneration: mild

NJECTION SITE I : subcutis; Edema: moderate [INJECTION SITE I : Thickened (G)]

NJECTION SITE I : intramuscular / interstitial; Edema: mild [ NJECTION SITE I : Thickened (G)]

NJECTION SITE I : inter- / perimuscular; Edema: marked [INJECTION SITE I : Thickened (G)]

NJECTION SITE I : Hyperplasia: epidermal, widespread, moderate

NJECTION SITE II : myofiber; Degeneration: mild

NJECTION SITE II : Hyperplasia: epidermal, widespread, moderate

NJECTION SITE II : subcutis; Edema: moderate

NJECTION SITE II : intramuscular / interstitial; Edema: mild

NJECTION SITE II : inter- / perimuscular; Edema: moderate

NJECTION SITE II : intramuscular / interstitial; Fibrosis: mild

NJECTION SITE II : inter- / perimuscular; Fibrosis: mild

NJECTION SITE II : subcutis; Inflammation: mixed, moderate

HISTOPATHOLOGY REPORT

PAGE: 600

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	197 (Continued)	Group:	7 - Group 7	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

NJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, mild  
NJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate  
K DNEY, LEFT : Congestion; mild  
K DNEY, RIGHT : Congestion; mild  
K DNEY, RIGHT : Mineralization; focal, minimal  
LIVER : Congestion; mild  
LIVER : Infiltration, Lymphocytic; multifocal, minimal  
LIVER : periportal; Vacuolation; hepatocellular, minimal  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, LIAC : Histocytosis; mild [LYMPH NODE, LIAC : Enlarged (G)]  
LYMPH NODE, LIAC : Plasmacytosis; moderate [LYMPH NODE, LIAC : Enlarged (G)]  
LYMPH NODE, LIAC : Inflammation; mild  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate [LYMPH NODE, LIAC : Enlarged (G)]  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
NERVE, SCIATIC : perineural; Inflammation; moderate  
PARATHYROID, LEFT : Fibrosis; interstitial, mild  
PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
SPLEEN : Hematopoiesis; increased, minimal [SPLEEN : Enlarged (G)]  
STOMACH, GLANDULAR : Dilatation; glandular, multifocal, minimal  
THYMUS : Hemorrhage; acute, multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, RIGHT - Not Present  
PITUITARY GLAND - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	198	Group:	7 - Group 7	Sex:	Female
		Dose:	Group 7: 100 µg/BNT162b2/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

INJECTION SITE I : Indurated (TGL) [INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE I : subcutis; Edema: moderate (H) | INJECTION SITE I : inter- / perimuscular; Edema: marked (H) | INJECTION SITE I : intramuscular / interstitial; Edema: mild (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE, OS FEMORIS WITH JOINT : surrounding tissue; Inflammation: mixed, focal, moderate  
 BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity: minimal  
 INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ INJECTION SITE I : Indurated (G)]  
 INJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ INJECTION SITE I : Indurated (G)]  
 INJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]  
 INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate [INJECTION SITE I : Indurated (G)]  
 INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Indurated (G)]  
 INJECTION SITE I : myofiber; Degeneration: mild  
 INJECTION SITE I : subcutis; Edema: moderate [INJECTION SITE I : Indurated (G)]  
 INJECTION SITE I : intramuscular / interstitial; Edema: mild [ NJECTION SITE I : Indurated (G)]  
 INJECTION SITE I : inter- / perimuscular; Edema: marked [INJECTION SITE I : Indurated (G)]  
 INJECTION SITE I : Hyperplasia: epidermal, widespread, moderate  
 INJECTION SITE II : myofiber; Degeneration: mild  
 INJECTION SITE II : Hyperplasia; epidermal, widespread, mild  
 INJECTION SITE II : subcutis; Edema: moderate  
 INJECTION SITE II : intramuscular / interstitial; Edema: mild  
 INJECTION SITE II : inter- / perimuscular; Edema: moderate  
 INJECTION SITE II : intramuscular / interstitial; Fibrosis: mild  
 INJECTION SITE II : inter- / perimuscular; Fibrosis: mild  
 INJECTION SITE II : subcutis; Inflammation: mixed, moderate  
 INJECTION SITE II : intramuscular / interstitial; Inflammation: mixed, multifocal, moderate  
 INJECTION SITE II : inter- / perimuscular; Inflammation: mixed, moderate  
 NTEST NE, CECUM : Infiltration, Eosinophilic; increased, minimal  
 NTEST NE, COLON : Infiltration, Eosinophilic; increased, minimal  
 NTEST NE, RECTUM : Infiltration, Eosinophilic; increased, minimal

HISTOPATHOLOGY REPORT

PAGE: 602

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	198 (Continued)	Group:	7 - Group 7	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

K DNEY, LEFT : Congestion; moderate  
KIDNEY, RIGHT : Congestion; moderate  
LIVER : Congestion; mild  
LIVER : Hematopoiesis; extramedullary, multifocal, minimal  
LIVER : periportal; Vacuolation; hepatocellular, mild  
LUNGS WITH BRONCHI : perivascular; Infiltration, Eosinophilic; multifocal, minimal  
LYMPH NODE, CERVICAL : Histocytosis; mild  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, ILIAC : Histiocytosis; mild  
LYMPH NODE, ILIAC : Plasmacytosis; mild  
LYMPH NODE, LIAC : Inflammation; mild  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
NERVE, SCIATIC : perineural; Inflammation; marked  
OPTIC NERVE, LEFT : Hemorrhage; acute, focal, minimal  
PEYERS PATCHES : germinal center; Increased Cellularity; mild  
SKIN : dermis; subcutis; Infiltration; mixed, focal, mild  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild  
THYMUS : Hemorrhage; acute, multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

HISTOPATHOLOGY REPORT

PAGE: 603

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	199	Group:	7 - Group 7	Sex:	Female
		Dose:	Group 7: 100 µg/BNT162b2/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

INJECTION SITE I : Indurated (TGL) [INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE I : subcutis; Edema: mild (H) | INJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | INJECTION SITE I : intramuscular / interstitial; Edema: mild (H)]

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Plasmacytosis; moderate (H) | LYMPH NODE, ILIAC : germinal center; Increased Cellularity; mild (H)]

SPLEEN : Enlarged (TGL) [SPLEEN : Hematopoiesis; increased, minimal (H)]

UTERUS : Dilation (TGL) [UTERUS : Dilation; mild (H)]

UTERUS : Filled With Liquid : (Comment) clear (TGL) [UTERUS : Dilation; mild (H)]

INJECTION SITE II : Indurated : (Comment) muscle (TGL) [INJECTION SITE II : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE II : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE II : intramuscular / interstitial; Inflammation: mixed, mild (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE II : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE II : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE II : intramuscular / interstitial; Edema: mild (H) | INJECTION SITE II : subcutis; Edema: mild (H) | INJECTION SITE II : inter- / perimuscular; Edema: moderate (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE, OS FEMORIS WITH JOINT : surrounding tissue; Inflammation: mixed, mild

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

CERVIX : Keratinization; epithelial, mild

HARDERIAN GLAND, RIGHT : Infiltration; mixed, focal, mild

INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ INJECTION SITE II : Indurated (G)]

INJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ INJECTION SITE I : Indurated (G)]

INJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild [ INJECTION SITE I : Indurated (G)]

INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Indurated (G)]

INJECTION SITE I : myofiber; Degeneration: mild

INJECTION SITE I : subcutis; Edema: mild [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : intramuscular / interstitial; Edema: mild [ NJECTION SITE I : Indurated (G)]

INJECTION SITE I : inter- / perimuscular; Edema: moderate [ NJECTION SITE I : Indurated (G)]

INJECTION SITE I : Hyperplasia; epidermal, widespread, mild

INJECTION SITE II : myofiber; Degeneration: mild

INJECTION SITE II : Hyperplasia; epidermal, widespread, moderate

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	199 (Continued)	Group:	7 - Group 7	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

NJECTION SITE II : subcutis; Edema; mild [NJECTION SITE II : Indurated (G)]  
NJECTION SITE II : intramuscular / interstitial; Edema; mild [INJECTION SITE II : Indurated (G)]  
NJECTION SITE II : inter- / perimuscular; Edema; moderate [INJECTION SITE II : Indurated (G)]  
NJECTION SITE II : intramuscular / interstitial; Fibrosis; mild [INJECTION SITE II : Indurated (G)]  
NJECTION SITE II : inter- / perimuscular; Fibrosis; mild [INJECTION SITE II : Indurated (G)]  
NJECTION SITE II : subcutis; Inflammation; mixed, moderate [INJECTION SITE II : Indurated (G)]  
NJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, mild [INJECTION SITE II : Indurated (G)]  
NJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate [INJECTION SITE II : Indurated (G)]  
TEST NE, RECTUM : Infiltration, Eosinophilic; increased, minimal  
K DNEY, LEFT : Congestion; moderate  
KIDNEY, RIGHT : Congestion; moderate  
LIVER : Congestion; moderate  
LIVER : Hematopoiesis; extramedullary, multifocal, minimal  
LIVER : periportal; Vacuolation; hepatocellular, mild  
LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
LUNGS WITH BRONCHI : perivascular; Infiltration, Eosinophilic; multifocal, minimal  
LYMPH NODE, CERVICAL : Histocytosis; minimal  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, LIAC : Histiocytosis; minimal  
LYMPH NODE, LIAC : Plasmacytosis; moderate [LYMPH NODE, LIAC : Enlarged (G)]  
LYMPH NODE, LIAC : Inflammation; mild  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
NERVE, SCIATIC : perineural; Inflammation; moderate  
PEYERS PATCHES : germinal center; Increased Cellularity; mild  
SKIN : dermis; subcutis; Infiltration; mixed, focal, minimal  
SPLEEN : Congestion; minimal  
SPLEEN : Hematopoiesis; increased, minimal [SPLEEN : Enlarged (G)]  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
UTERUS : Dilatation; mild [UTERUS : Dilatation (G) | UTERUS : Filled With Liquid : (Comment) clear (G)]  
VAGINA : Keratinization; epithelial, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT**

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	200	Group:	7 - Group 7	Sex:	Female
		Dose:	Group 7: 100 µg/BNT162b2/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) [INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | INJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : Intramuscular / interstitial; Edema: mild (H)]

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Plasmacytosis; moderate (H) | LYMPH NODE, ILIAC : germinal center; Increased Cellularity; moderate (H)]

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

BONE, OS FEMORIS WITH JOINT : surrounding tissue; Inflammation: mixed, focal, moderate  
BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity: minimal

HARDERIAN GLAND, RIGHT : Infiltration: mixed, focal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : myofiber; Degeneration: mild

NJECTION SITE I : subcutis; Edema: moderate [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Edema: mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Edema: moderate [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : Hyperplasia: epidermal, widespread, moderate

NJECTION SITE II : myofiber; Degeneration: mild

NJECTION SITE II : subcutis; Edema: marked

NJECTION SITE II : intramuscular / interstitial; Edema: mild

NJECTION SITE II : inter- / perimuscular; Edema: marked

NJECTION SITE II : myofiber; Necrosis: multifocal, minimal

NJECTION SITE II : intramuscular / interstitial; Fibrosis: mild

NJECTION SITE II : inter- / perimuscular; Fibrosis: mild

NJECTION SITE II : subcutis; Inflammation: mixed, moderate

NJECTION SITE II : intramuscular / interstitial; Inflammation: mixed, mild

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	200 (Continued)	Group:	7 - Group 7	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

NJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate  
NTTEST NE, RECTUM : mucosa-associated lymphoid tissue; Hyperplasia; minimal  
K DNEY, LEFT : Congestion; mild  
K DNEY, RIGHT : Congestion; mild  
LIVER : Congestion; mild  
LIVER : Hematopoiesis; extramedullary, multifocal, minimal  
LIVER : periportal; Vacuolation; hepatocellular, mild  
LYMPH NODE, CERVICAL : Histiocytosis; mild  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, LIAC : Histiocytosis; minimal  
LYMPH NODE, LIAC : Plasmacytosis; moderate [LYMPH NODE, LIAC : Enlarged (G)]  
LYMPH NODE, LIAC : Inflammation; mild  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate [LYMPH NODE, ILIAC : Enlarged (G)]  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
NERVE, SCIATIC : perineural; Inflammation; moderate  
PEYERS PATCHES : germinal center; Increased Cellularity; mild  
SPLEEN : Congestion; minimal  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
THYMUS : Hemorrhage; acute, focal, minimal  
URINARY BLADDER : Infiltration, Lymphocytic; focal, minimal  
VAGINA : Keratinization; epithelial, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, LEFT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 607**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	201	Group:	7 - Group 7	Sex:	Female
		Dose:	Group 7: 100 µg/BNT162b2/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

INJECTION SITE I : Indurated (TGL) [INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE I : subcutis; Edema: moderate (H) | INJECTION SITE I : inter- / perimuscular; Edema: marked (H) | INJECTION SITE I : intramuscular / interstitial; Edema: mild (H) | INJECTION SITE II : subcutis; Edema: moderate (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H)]

NERVE, SCIATIC : (Comment) left

NERVE, SCIATIC : Adhesion : (Comment) to injection site I (TGL)

INJECTION SITE II : Indurated : (Comment) muscle (TGL) [INJECTION SITE II : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE II : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE II : intramuscular / interstitial; Inflammation: mixed, mild (H) | INJECTION SITE II : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE II : intramuscular / interstitial; Edema: mild (H) | INJECTION SITE II : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE II : inter- / perimuscular; Edema: marked (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE, OS FEMORIS WITH JOINT : surrounding tissue; Inflammation: mixed, focal, mild

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity: minimal

INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ INJECTION SITE I : Indurated (G) ]

INJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ INJECTION SITE I : Indurated (G) ]

INJECTION SITE I : dermis; epidermis; Inflammation: neutrophilic, focal, mild

INJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G) ]

INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild [ NJECTION SITE I : Indurated (G) ]

INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Indurated (G) ]

INJECTION SITE I : myofiber; Degeneration: mild

INJECTION SITE I : subcutis; Edema: moderate [INJECTION SITE I : Indurated (G) ]

INJECTION SITE I : intramuscular / interstitial; Edema: mild [ NJECTION SITE I : Indurated (G) ]

INJECTION SITE I : inter- / perimuscular; Edema: marked [INJECTION SITE I : Indurated (G) ]

INJECTION SITE I : Hyperplasia: epidermal, widespread, moderate

INJECTION SITE I : Pustule; epidermal, focal, minimal

INJECTION SITE II : myofiber; Degeneration: mild

INJECTION SITE II : Hyperplasia: epidermal, widespread, moderate

INJECTION SITE II : subcutis; Edema: moderate [INJECTION SITE I : Indurated (G) ]

INJECTION SITE II : intramuscular / interstitial; Edema: mild [INJECTION SITE II : Indurated (G) ]

INJECTION SITE II : inter- / perimuscular; Edema: marked [INJECTION SITE II : Indurated (G) ]

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	201 (Continued)	Group:	7 - Group 7	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

INJECTION SITE II : intramuscular / interstitial; Fibrosis; mild [INJECTION SITE II : Indurated (G)]  
 INJECTION SITE II : inter- / perimuscular; Fibrosis; mild [INJECTION SITE II : Indurated (G)]  
 INJECTION SITE II : subcutis; Inflammation; mixed, moderate [INJECTION SITE II : Indurated (G)]  
 INJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, mild [INJECTION SITE II : Indurated (G)]  
 INJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate [INJECTION SITE II : Indurated (G)]  
 K DNEY, LEFT : Congestion; mild  
 K DNEY, LEFT : Mineralization; multifocal, minimal  
 K DNEY, RIGHT : Congestion; mild  
 K DNEY, RIGHT : Mineralization; multifocal, minimal  
 LIVER : Congestion; mild  
 LIVER : Hematopoiesis; extramedullary, multifocal, minimal  
 LIVER : periportal; Vacuolation; hepatocellular, mild  
 LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
 LUNGS WITH BRONCHI : perivascular; Infiltration, Eosinophilic; multifocal, minimal  
 LYMPH NODE, CERVICAL : Histiocytosis; mild  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
 LYMPH NODE, LIAC : Histiocytosis; minimal  
 LYMPH NODE, ILIAC : Plasmacytosis; mild  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 NERVE, SCIATIC : perineural; Inflammation; mild  
 PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
 SKIN : dermis; subcutis; Infiltration; mixed, focal, moderate  
 SPLEEN : Hematopoiesis; increased, mild  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
 THYMUS : Hemorrhage; acute, multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, LEFT - Not Present  
 PARATHYROID, RIGHT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 609**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	202	Group:	7 - Group 7	Sex:	Female
		Dose:	Group 7: 100 µg/BNT162b2/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

NJECTION SITE I : Indurated (TGL) [INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE I : subcutis; Edema; moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema; moderate (H) | INJECTION SITE I : intramuscular / interstitial; Edema; mild (H)]

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Plasmacytosis; moderate (H) | LYMPH NODE, ILIAC : germinal center; Increased Cellularity; moderate (H)]

SPLEEN : Enlarged (TGL) [SPLEEN : Hematopoiesis; increased, minimal (H)]  
 NJECTION SITE II : Indurated : (Comment) muscle (TGL) [INJECTION SITE II : subcutis; Inflammation: mixed, mild (H) | INJECTION SITE II : inter- / perimuscular; Inflammation: mixed, moderate (H) | NJECTION SITE II : intramuscular / interstitial; Inflammation: mixed, mild (H) | NJECTION SITE II : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE II : intramuscular / interstitial; Edema; minimal (H) | INJECTION SITE II : subcutis; Edema; minimal (H) | INJECTION SITE II : inter- / perimuscular; Edema; mild (H) | INJECTION SITE II : intramuscular / interstitial; Fibrosis; mild (H)]

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal  
 NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : inter- / perimuscular; Fibrosis; mild [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : epidermis; Ulceration; focal, minimal  
 NJECTION SITE I : myofiber; Degeneration; mild  
 NJECTION SITE I : subcutis; Edema; moderate [INJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : intramuscular / interstitial; Edema; mild [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : inter- / perimuscular; Edema; moderate [ NJECTION SITE I : Indurated (G)]  
 NJECTION SITE I : Hyperplasia; epidermal, widespread, moderate  
 NJECTION SITE I : Scab; epidermal, focal, minimal  
 NJECTION SITE II : myofiber; Degeneration; minimal  
 NJECTION SITE II : subcutis; Edema; minimal [INJECTION SITE II : Indurated (G)]  
 NJECTION SITE II : intramuscular / interstitial; Edema; minimal [ NJECTION SITE II : Indurated (G)]  
 NJECTION SITE II : inter- / perimuscular; Edema; mild [INJECTION SITE II : Indurated (G)]  
 NJECTION SITE II : intramuscular / interstitial; Fibrosis; mild [INJECTION SITE II : Indurated (G)]

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	202 (Continued)	Group:	7 - Group 7	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

NJECTION SITE II : inter- / perimuscular; Fibrosis; mild [NJECTION SITE II : Indurated (G)]  
NJECTION SITE II : subcutis; Inflammation; mixed, mild [ NJECTION SITE II : Indurated (G)]  
NJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, mild [NJECTION SITE II : Indurated (G)]  
NJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate [INJECTION SITE II : Indurated (G)]  
K DNEY, LEFT : Congestion; mild  
K DNEY, RIGHT : Congestion; mild  
LIVER : Congestion; mild  
LIVER : periportal; Vacuolation; hepatocellular, mild  
LUNGS WITH BRONCHI : perivascular; Infiltration, Eosinophilic; multifocal, minimal  
LYMPH NODE, CERVICAL : Histocytosis; mild  
LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, LIAC : Plasmacytosis; moderate [LYMPH NODE, LIAC : Enlarged (G)]  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate [LYMPH NODE, ILIAC : Enlarged (G)]  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
NERVE, SCIATIC : perineural; Inflammation; mild  
PEYERS PATCHES : germinal center; Increased Cellularity; mild  
SKIN : dermis; subcutis; Infiltration; mixed, minimal  
SPLEEN : Congestion; minimal  
SPLEEN : Hematopoiesis; increased, minimal [SPLEEN : Enlarged (G)]  
STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
THYMUS : Hemorrhage; acute, multifocal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, LEFT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	203	Group:	7 - Group 7	Sex:	Female
		Dose:	Group 7: 100 µg/BNT162b2/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

SPLEEN : Enlarged (TGL) [SPLEEN : Hematopoiesis; increased, minimal (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE, OS FEMORIS WITH JOINT : surrounding tissue; Inflammation; mixed, mild

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis; mild

NJECTION SITE I : inter- / perimuscular; Fibrosis; mild

NJECTION SITE I : subcutis; Inflammation; mixed, moderate

NJECTION SITE I : intramuscular / interstitial; Inflammation; mixed, mild

NJECTION SITE I : inter- / perimuscular; Inflammation; mixed, moderate

NJECTION SITE I : myofiber; Degeneration; mild

NJECTION SITE I : subcutis; Edema; mild

NJECTION SITE I : intramuscular / interstitial; Edema; mild

NJECTION SITE I : inter- / perimuscular; Edema; moderate

NJECTION SITE I : Hyperplasia; epidermal, widespread, moderate

NJECTION SITE II : myofiber; Degeneration; minimal

NJECTION SITE II : Hyperplasia; epidermal, widespread, mild

NJECTION SITE II : subcutis; Edema; minimal

NJECTION SITE II : intramuscular / interstitial; Edema; minimal

NJECTION SITE II : inter- / perimuscular; Edema; mild

NJECTION SITE II : intramuscular / interstitial; Fibrosis; mild

NJECTION SITE II : inter- / perimuscular; Fibrosis; mild

NJECTION SITE II : subcutis; Inflammation; mixed, mild

NJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, mild

NJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; moderate

LIVER : Congestion; mild

LIVER : Infiltration, Lymphocytic; multifocal, minimal

LIVER : periportal; Vacuolation; hepatocellular, mild

LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal

LYMPH NODE, CERVICAL : Histocytosis; mild

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	203 (Continued)	Group:	7 - Group 7	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
LYMPH NODE, LIAC : Histiocytosis; minimal  
LYMPH NODE, LIAC : Plasmacytosis; moderate  
LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild  
LYMPH NODE, MESENTERIC : Histiocytosis; mild  
LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
NERVE, SCIATIC : perineural; Inflammation; minimal  
PEYERS PATCHES : Mineralization; focal, minimal  
PEYERS PATCHES : germinal center; Increased Cellularity; mild  
SPLEEN : Congestion; minimal  
SPLEEN : Hematopoiesis; increased, minimal [SPLEEN : Enlarged (G)]

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, LEFT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	204	Group:	7 - Group 7	Sex:	Female
		Dose:	Group 7: 100 µg/BNT162b2/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

INJECTION SITE I : Indurated (TGL) [INJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE I : subcutis; Edema; moderate (H) | INJECTION SITE I : inter- / perimuscular; Edema; moderate (H) | INJECTION SITE I : intramuscular / interstitial; Edema; mild (H)]

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Plasmacytosis; moderate (H) | LYMPH NODE, ILIAC : germinal center; Increased Cellularity; mild (H)]

SPLEEN : Enlarged (TGL) [SPLEEN : Hematopoiesis; increased, minimal (H)]  
 INJECTION SITE II : Indurated : (Comment) muscle (TGL) [INJECTION SITE II : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE II : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE II : intramuscular / interstitial; Inflammation: mixed, mild (H) | INJECTION SITE II : inter- / perimuscular; Fibrosis: mild (H) | INJECTION SITE II : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE II : intramuscular / interstitial; Edema; mild (H) | INJECTION SITE II : subcutis; Edema; moderate (H) | INJECTION SITE II : inter- / perimuscular; Edema; moderate (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, LEFT : Dilation; vascular, minimal

BONE, OS FEMORIS WITH JOINT : surrounding tissue; Inflammation: mixed, focal, mild

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

INJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : inter- / perimuscular; Fibrosis: mild [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : myofiber; Degeneration; mild

INJECTION SITE I : subcutis; Edema; moderate [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : intramuscular / interstitial; Edema; mild [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : inter- / perimuscular; Edema; moderate [INJECTION SITE I : Indurated (G)]

INJECTION SITE I : Hyperplasia; epidermal, widespread, moderate

INJECTION SITE II : myofiber; Degeneration; mild

INJECTION SITE II : Hyperplasia; epidermal, widespread, moderate

INJECTION SITE II : subcutis; Edema; moderate [INJECTION SITE II : Indurated (G)]

INJECTION SITE II : intramuscular / interstitial; Edema; mild [INJECTION SITE II : Indurated (G)]

INJECTION SITE II : inter- / perimuscular; Edema; moderate [INJECTION SITE II : Indurated (G)]

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	204 (Continued)	Group:	7 - Group 7	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

INJECTION SITE II : intramuscular / interstitial; Fibrosis; mild [INJECTION SITE II : Indurated (G)]  
 INJECTION SITE II : inter- / perimuscular; Fibrosis; mild [INJECTION SITE II : Indurated (G)]  
 INJECTION SITE II : subcutis; Inflammation; mixed, moderate [INJECTION SITE II : Indurated (G)]  
 INJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, mild [INJECTION SITE II : Indurated (G)]  
 INJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate [INJECTION SITE II : Indurated (G)]  
 TESTIS, RECTUM : Infiltration, Eosinophilic; increased, minimal  
 KIDNEY, LEFT : Congestion; mild  
 KIDNEY, RIGHT : Congestion; mild  
 LIVER : Congestion; mild  
 LIVER : periportal; Vacuolation; hepatocellular, minimal  
 LUNGS WITH BRONCHI : perivascular; Infiltration, Eosinophilic; multifocal, minimal  
 LYMPH NODE, CERVICAL : Histocytosis; minimal  
 LYMPH NODE, ILLIAC : Histiocytosis; mild  
 LYMPH NODE, LIAC : Plasmacytosis; moderate [LYMPH NODE, LIAC : Enlarged (G)]  
 LYMPH NODE, LIAC : Inflammation; mild  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild [LYMPH NODE, ILLIAC : Enlarged (G)]  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 NERVE, SCIATIC : perineural; Inflammation; moderate  
 PEYERS PATCHES : germinal center; Increased Cellularity; mild  
 SPLEEN : Congestion; minimal  
 SPLEEN : Hematopoiesis; increased, minimal [SPLEEN : Enlarged (G)]  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild  
 THYMUS : Hemorrhage; acute, focal, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, LEFT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 615**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	205	Group:	7 - Group 7	Sex:	Female
		Dose:	Group 7: 100 µg/BNT162b2/animal		
Death Date:	08/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	08/04/2020	Study Day (Week) of Death:	17 (3)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

NJECTION SITE I : Indurated (TGL) [ NJECTION SITE I : subcutis; Inflammation: mixed, moderate (H) | INJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate (H) | INJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild (H) | INJECTION SITE I : inter- / perimuscular; Fibrosis: mild (H) | NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild (H) | INJECTION SITE I : subcutis; Edema: moderate (H) | NJECTION SITE I : inter- / perimuscular; Edema: moderate (H) | INJECTION SITE I : intramuscular / interstitial; Edema: mild (H)]

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Histiocytosis; mild (H) | LYMPH NODE, LIAC : Plasmacytosis; moderate (H) | LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild (H)]

NERVE, SCIATIC : (Comment) left

NERVE, SCIATIC : Adhesion : (Comment) to injection site I (TGL)

SPLEEN : Enlarged (TGL) [SPLEEN : Hematopoiesis; increased, mild (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

BONE, OS FEMORIS WITH JOINT : surrounding tissue; Inflammation: mixed, focal, mild

BONE MARROW, OS FEMORIS WITH JOINT : Increased Cellularity; minimal

HARDERIAN GLAND, RIGHT : Infiltration; mixed, multifocal, minimal

NJECTION SITE I : intramuscular / interstitial; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Fibrosis: mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : subcutis; Inflammation: mixed, moderate [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Inflammation: mixed, mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Inflammation: mixed, moderate [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : myofiber; Degeneration; mild

NJECTION SITE I : subcutis; Edema; moderate [INJECTION SITE I : Indurated (G)]

NJECTION SITE I : intramuscular / interstitial; Edema; mild [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : inter- / perimuscular; Edema; moderate [ NJECTION SITE I : Indurated (G)]

NJECTION SITE I : Hyperplasia; epidermal, widespread, moderate

NJECTION SITE II : myofiber; Degeneration; mild

NJECTION SITE II : Hyperplasia; epidermal, widespread, mild

NJECTION SITE II : subcutis; Edema; marked

NJECTION SITE II : intramuscular / interstitial; Edema; mild

NJECTION SITE II : inter- / perimuscular; Edema; marked

NJECTION SITE II : intramuscular / interstitial; Fibrosis; mild

NJECTION SITE II : inter- / perimuscular; Fibrosis; mild

HISTOPATHOLOGY REPORT

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(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	205 (Continued)	Group:	7 - Group 7	Sex:	Female
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**Histopathology Observations [Correlation] (Continued):**

NJECTION SITE II : subcutis; Inflammation; mixed, moderate  
 NJECTION SITE II : intramuscular / interstitial; Inflammation; mixed, mild  
 NJECTION SITE II : inter- / perimuscular; Inflammation; mixed, moderate  
 NTTEST NE, RECTUM : Infiltration, Eosinophilic; increased, minimal  
 K DNEY, LEFT : Congestion; moderate  
 K DNEY, RIGHT : Congestion; mild  
 LIVER : Congestion; mild  
 LIVER : Hematopoiesis; extramedullary, multifocal, minimal  
 LIVER : periportal; Vacuolation; hepatocellular, mild  
 LUNGS WITH BRONCHI : Infiltration; mixed, focal, mild  
 LYMPH NODE, CERVICAL : Histocytosis; mild  
 LYMPH NODE, LIAC : Histiocytosis; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
 LYMPH NODE, LIAC : Plasmacytosis; moderate [LYMPH NODE, LIAC : Enlarged (G)]  
 LYMPH NODE, LIAC : Inflammation; minimal  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
 LYMPH NODE, MESENTERIC : Histiocytosis; moderate  
 LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild  
 NERVE, SCIATIC : perineural; Inflammation; moderate  
 PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
 SKIN : dermis; subcutis; Infiltration; mixed, focal, moderate  
 SPLEEN : Hematopoiesis; increased, mild [SPLEEN : Enlarged (G)]  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal  
 THYMUS : Hemorrhage; acute, multifocal, minimal  
 VAGINA : Keratinization; epithelial, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

PARATHYROID, LEFT - Not Present

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

HISTOPATHOLOGY REPORT

PAGE: 617

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	206	Group:	7 - Group 7	Sex:	Female
		Dose:	Group 7: 100 µg/BNT162b2/animal		
Death Date:	29/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	29/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

No observations found

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

HARDERIAN GLAND, LEFT : Infiltration, Lymphocytic; focal, mild

HARDERIAN GLAND, RIGHT : Infiltration; mixed, focal, mild

NJECTION SITE I : intramuscular / interstitial; Fibrosis; multifocal, minimal

NJECTION SITE I : inter- / perimuscular; Fibrosis; mild

NJECTION SITE I : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, minimal

NJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, mild

NJECTION SITE II : inter- / perimuscular; Fibrosis; minimal

NJECTION SITE II : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, mild

NJECTION SITE II : inter- / perimuscular; Inflammation; lymphohistiocytic, mild

NTEST NE, COLON : Infiltration, Eosinophilic; increased, minimal

NTEST NE, RECTUM : Infiltration, Eosinophilic; increased, minimal

K DNEY, LEFT : Congestion; mild

K DNEY, RIGHT : Congestion; mild

LIVER : Congestion; mild

LUNGS WITH BRONCHI : perivascular; Infiltration, Eosinophilic; multifocal, minimal

LYMPH NODE, CERVICAL : (Comment) artefacts

LYMPH NODE, CERVICAL : Histocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, ILIAC : Histiocytosis; minimal

LYMPH NODE, ILIAC : Plasmacytosis; mild

LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, mild

LYMPH NODE, LIAC : germinal center; Increased Cellularity; moderate

LYMPH NODE, MESENTERIC : Histiocytosis; minimal

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild

THYMUS : Hemorrhage; acute, multifocal, minimal

HISTOPATHOLOGY REPORT

PAGE: 618

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

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Animal:	206 (Continued)	Group:	7 - Group 7	Sex:	Female
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Any remaining protocol required tissues, which have been examined, have no visible lesions

Histopathology - The following Tissues were Not Examined:

None

Histopathology - The following Protocol Required Tissues were Not Processed:

None

**HISTOPATHOLOGY REPORT****PAGE: 619**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	207	Group:	7 - Group 7	Sex:	Female
		Dose:	Group 7: 100 µg/BNT162b2/animal		
Death Date:	29/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	29/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Histocytosis; minimal (H) | LYMPH NODE, ILIAC : Plasmacytosis; mild (H) | LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, mild (H) | LYMPH NODE, ILIAC : germinal center; Increased Cellularity; mild (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

INJECTION SITE I : intramuscular / interstitial; Fibrosis; multifocal, minimal

INJECTION SITE I : inter- / perimuscular; Fibrosis; mild

INJECTION SITE I : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, minimal

INJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, mild

INJECTION SITE II : intramuscular / interstitial; Fibrosis; multifocal, minimal

INJECTION SITE II : inter- / perimuscular; Fibrosis; minimal

INJECTION SITE II : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, mild

INJECTION SITE II : inter- / perimuscular; Inflammation; lymphohistiocytic, mild

K DNEY, LEFT : Congestion; moderate

K DNEY, RIGHT : Congestion; moderate

LIVER : Congestion; moderate

LYMPH NODE, CERVICAL : Histiocytosis; minimal

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, ILIAC : Histiocytosis; minimal [LYMPH NODE, LIAC : Enlarged (G)]

LYMPH NODE, ILIAC : Plasmacytosis; mild [LYMPH NODE, ILIAC : Enlarged (G)]

LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, mild [LYMPH NODE, LIAC : Enlarged (G)]

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild [LYMPH NODE, ILIAC : Enlarged (G)]

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

SPLEEN : Congestion; minimal

STOMACH, GLANDULAR : Infiltration, Eosinophilic; minimal

TRACHEA : (Comment) artefacts

Any remaining protocol required tissues, which have been examined, have no visible lesions

## Histopathology - The following Tissues were Not Examined:

PARATHYROID, RIGHT - Not Present

## Histopathology - The following Protocol Required Tissues were Not Processed:

None

HISTOPATHOLOGY REPORT

PAGE: 620

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Animal:	208	Group:	7 - Group 7	Sex:	Female
		Dose:	Group 7: 100 µg/BNT162b2/animal		
Death Date:	29/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	29/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

Gross Pathology Animal Details:

No animal details found

Gross Pathology Observations [Correlation]:

No observations found

Gross Pathology - The following Tissues were Not Examined:

None

Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

Histopathology Animal Details:

No animal details found

Histopathology Observations [Correlation]:

CERVIX : Keratinization; epithelial, minimal

K DNEY, LEFT : Congestion; moderate

K DNEY, LEFT : tubule; Cast; hyaline, focal, minimal

K DNEY, RIGHT : Congestion; mild

LIVER : Congestion; mild

LIVER : Infiltration; mixed, multifocal, mild

LUNGS WITH BRONCHI : macrophage; Pigmentation; brown, multifocal, minimal

LYMPH NODE, MESENTERIC : Histocytosis; mild

LYMPH NODE, MESENTERIC : macrophage; Pigmentation; mild

TRACHEA : Infiltration, Lymphocytic; focal, minimal

VAGINA : Keratinization; epithelial, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

Histopathology - The following Tissues were Not Examined:

LYMPH NODE, CERVICAL - Not Present

LYMPH NODE, LIAC - Not Present

SALIVARY GLANDS, SUBLINGUAL - Not Present

Histopathology - The following Protocol Required Tissues were Not Processed:

None

**HISTOPATHOLOGY REPORT****PAGE: 621**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	209	Group:	7 - Group 7	Sex:	Female
		Dose:	Group 7: 100 µg/BNT162b2/animal		
Death Date:	29/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	29/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

**Gross Pathology Animal Details:**

No animal details found

**Gross Pathology Observations [Correlation]:**

LYMPH NODE, LIAC : Enlarged (TGL) [LYMPH NODE, LIAC : Histocytosis; minimal (H) | LYMPH NODE, ILIAC : Plasmacytosis; minimal (H) | LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, moderate (H) | LYMPH NODE, ILIAC : germinal center; Increased Cellularity; mild (H)]

**Gross Pathology - The following Tissues were Not Examined:**

None

**Gross Pathology - The following Protocol Required Tissues were Not Processed:**

None

**Histopathology Animal Details:**

No animal details found

**Histopathology Observations [Correlation]:**

ADRENAL GLAND, LEFT : Dilation; vascular, minimal

INJECTION SITE I : intramuscular / interstitial; Fibrosis; multifocal, minimal

INJECTION SITE I : inter- / perimuscular; Fibrosis; mild

INJECTION SITE I : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, mild

INJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, mild

INJECTION SITE II : intramuscular / interstitial; Fibrosis; multifocal, minimal

INJECTION SITE II : inter- / perimuscular; Fibrosis; mild

INJECTION SITE II : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, mild

INJECTION SITE II : inter- / perimuscular; Inflammation; lymphohistiocytic, mild

KIDNEY, LEFT : Congestion; moderate

KIDNEY, RIGHT : Congestion; moderate

LIVER : Congestion; mild

LYMPH NODE, CERVICAL : Histiocytosis; mild

LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild

LYMPH NODE, LIAC : Histiocytosis; minimal [LYMPH NODE, LIAC : Enlarged (G)]

LYMPH NODE, LIAC : Plasmacytosis; minimal [LYMPH NODE, ILIAC : Enlarged (G)]

LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, moderate [LYMPH NODE, LIAC : Enlarged (G)]

LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild [LYMPH NODE, ILIAC : Enlarged (G)]

LYMPH NODE, MESENTERIC : Histiocytosis; mild

LYMPH NODE, MESENTERIC : germinal center; Increased Cellularity; mild

PEYERS PATCHES : germinal center; Increased Cellularity; moderate

PITUITARY GLAND : (Comment) incomplete

VAGINA : Keratinization; epithelial, minimal

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

**HISTOPATHOLOGY REPORT****PAGE: 622**

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

## Individual Animal Data

Animal:	210	Group:	7 - Group 7	Sex:	Female
		Dose:	Group 7: 100 µg/BNT162b2/animal		
Death Date:	29/04/2020	Removal Reason:	Killed Terminal		
Necropsy Date:	29/04/2020	Study Day (Week) of Death:	38 (6)		
		Histo Recorder:	(b) (6), (b) (4)		

## Gross Pathology Animal Details:

No animal details found

## Gross Pathology Observations [Correlation]:

LYMPH NODE, ILIAC : Enlarged (TGL) [LYMPH NODE, ILIAC : Histiocytosis; mild (H) | LYMPH NODE, ILIAC : Plasmacytosis; mild (H) | LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, mild (H) | LYMPH NODE, ILIAC : germinal center; Increased Cellularity; mild (H)]

## Gross Pathology - The following Tissues were Not Examined:

None

## Gross Pathology - The following Protocol Required Tissues were Not Processed:

None

## Histopathology Animal Details:

No animal details found

## Histopathology Observations [Correlation]:

ADRENAL GLAND, RIGHT : Dilation; vascular, minimal  
 CERVIX : Keratinization; epithelial, mild  
 INJECTION SITE I : intramuscular / interstitial; Fibrosis; multifocal, minimal  
 INJECTION SITE I : inter- / perimuscular; Fibrosis; mild  
 INJECTION SITE I : intramuscular / interstitial; Inflammation; lymphohistiocytic, multifocal, mild  
 INJECTION SITE I : inter- / perimuscular; Inflammation; lymphohistiocytic, mild  
 INJECTION SITE II : inter- / perimuscular; Fibrosis; minimal  
 INJECTION SITE II : inter- / perimuscular; Inflammation; lymphohistiocytic, minimal  
 NTEST NE, RECTUM : (Comment) artefacts  
 NTEST NE, RECTUM : mucosa-associated lymphoid tissue; Hyperplasia; mild  
 K DNEY, LEFT : Congestion; moderate  
 KIDNEY, RIGHT : Congestion; moderate  
 LIVER : Congestion; moderate  
 LUNGS WITH BRONCHI : bronchial-associated lymphoid tissue; Hyperplasia; minimal  
 LUNGS WITH BRONCHI : perivascular; Infiltration, Eosinophilic; multifocal, minimal  
 LYMPH NODE, CERVICAL : Histiocytosis; minimal  
 LYMPH NODE, CERVICAL : germinal center; Increased Cellularity; mild  
 LYMPH NODE, ILIAC : Histiocytosis; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
 LYMPH NODE, ILIAC : Plasmacytosis; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
 LYMPH NODE, LIAC : Infiltration; macrophage, multifocal, mild [LYMPH NODE, LIAC : Enlarged (G)]  
 LYMPH NODE, LIAC : germinal center; Increased Cellularity; mild [LYMPH NODE, ILIAC : Enlarged (G)]  
 LYMPH NODE, MESENTERIC : Histiocytosis; mild  
 SKELETAL MUSCLE : Infiltration, Lymphocytic; focal, minimal  
 NERVE, SCIATIC : perineural; Inflammation; minimal  
 PEYERS PATCHES : germinal center; Increased Cellularity; moderate  
 SPLEEN : Congestion; minimal  
 STOMACH, GLANDULAR : Infiltration, Eosinophilic; mild

HISTOPATHOLOGY REPORT

PAGE: 623

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

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Animal: 210 (Continued) Group: 7 - Group 7 Sex: Female

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**Histopathology Observations [Correlation] (Continued):**

STOMACH, GLANDULAR : Dilation; glandular, multifocal, minimal  
VAGINA : Keratinization; epithelial, mild

Any remaining protocol required tissues, which have been examined, have no visible lesions

**Histopathology - The following Tissues were Not Examined:**

None

**Histopathology - The following Protocol Required Tissues were Not Processed:**

None

HISTOPATHOLOGY REPORT

PAGE: 624

(b) (4) Study No.: 38166 Repeat-Dose Toxicity Study

Individual Animal Data

Key Page

Codes

(TGL) = Trackable Gross Lesion, (MPF) = Major Pathological Finding, (?) = Questionable, (E) = Excluded,  
(C) = Clinical Observation, (M) = Mass, (G) = Gross Pathology, (H) = Histopathology

Report Request Items

Animals Included:

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210

Groups:

All

Observation Type:

Gross and Histo

Tissues:

All

Removal Reasons:

All

Group Information

<u>Short Name</u>	<u>Long Name</u>	<u>Type</u>
1	Group 1	Control
2	Group 2	Dose
3	Group 3	Dose
4	Group 4	Dose
5	Group 5	Dose
6	Group 6	Dose
7	Group 7	Dose

## 7. APPENDICES

**APPENDIX 1**  
**Certificate of Analysis**



Donaustraße 99  
A-3400 Klosterneuburg, Austria  
Tel.: +43-2243-25060-300  
Fax: +43-2243-25060-399  
E-Mail: office@polymun.com  
<http://www.polymun.com>

## Non-GMP CoA

Material not for human use

Version 3

**Product:** CoVVAC  
**Batch:** RBL063.3 LNP  
**Lot:** CoVVAC/090320

Test	Method	Result
Appearance	Visual Inspection (224/SOP/011)	(b) (4)
RNA identity	CE (223/SOP/016)	
RNA integrity	CE (223/SOP/016)	
RNA content	Ribogreen Assay (221/SOP/018)	
RNA encapsulation	Ribogreen assay +/- LNP disruption (221/SOP/018)	
ALC-0315 content	HPLC-CAD (222/SOP/044)	
ALC-0159 content	HPLC-CAD (222/SOP/044)	
DSPC content	HPLC-CAD (222/SOP/044)	
Cholesterol content	HPLC-CAD (222/SOP/044)	
Particle size ( $Z_{avg}$ )	Dynamic light scattering (224/SOP/002)	
Polydispersity index (PDI)	Dynamic light scattering (224/SOP/002)	
pH	pH (224/SOP/016)	
Osmolality	Freezing point depression (224/SOP/009)	
Endotoxins/Pyrogens	Turbidimetric, kinetic LAL assay (Ph.Eur. 2.6.14/ USP<85>)	
Bioburden	Membrane filtration method 225/SOP/001	

Store at: -70°C

(b) (6)

Date: 26.03.2020

Date: 26.03.20



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http://www.polymun.com

## Non-GMP CoA

Material not for human use

Version 3

**Product:** CoVVAC  
**Batch:** RBL063.1 LNP  
**Lot:** CoVVAC/110320

Test	Method	Result
Appearance	Visual Inspection (224/SOP/011)	(b) (4)
RNA identity	CE (223/SOP/016)	
RNA integrity	CE (223/SOP/016)	
RNA content	Ribogreen Assay (221/SOP/018)	
RNA encapsulation	Ribogreen assay +/- LNP disruption (221/SOP/018)	
ALC-0315 content	HPLC-CAD (222/SOP/044)	
ALC-0159 content	HPLC-CAD (222/SOP/044)	
DSPC content	HPLC-CAD (222/SOP/044)	
Cholesterol content	HPLC-CAD (222/SOP/044)	
Particle size ( $Z_{avg}$ )	Dynamic light scattering (224/SOP/002)	
Polydispersity index (PDI)	Dynamic light scattering (224/SOP/002)	
pH	pH (224/SOP/016)	
Osmolality	Freezing point depression (224/SOP/009)	
Endotoxins/Pyrogens	Turbidimetric, kinetic LAL assay (Ph.Eur. 2.6.14/ USP<85>)	
Bioburden	Membrane filtration method 225/SOP/001	

Store at: -70°C

(b) (6)

Date: 26.03.2020

Date: 26.03.2020



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http://www.polymun.com

## Non-GMP CoA

Material not for human use

Version 3

**Product:** CoVVAC  
**Batch:** RBP020.3 LNP  
**Lot:** CoVVAC/100320

Test	Method	Result
Appearance	Visual Inspection (224/SOP/011)	(b) (4)
RNA identity	CE (223/SOP/016)	
RNA integrity	CE (223/SOP/016)	
RNA content	Ribogreen Assay (221/SOP/018)	
RNA encapsulation	Ribogreen assay +/- LNP disruption (221/SOP/018)	
ALC-0315 content	HPLC-CAD (222/SOP/044)	
ALC-0159 content	HPLC-CAD (222/SOP/044)	
DSPC content	HPLC-CAD (222/SOP/044)	
Cholesterol content	HPLC-CAD (222/SOP/044)	
Particle size ( $Z_{avg}$ )	Dynamic light scattering (224/SOP/002)	
Polydispersity index (PDI)	Dynamic light scattering (224/SOP/002)	
pH	pH (224/SOP/016)	
Osmolality	Freezing point depression (224/SOP/009)	
Endotoxins/Pyrogens	Turbidimetric, kinetic LAL assay (Ph.Eur. 2.6.14/ USP<85>)	
Bioburden	Membrane filtration method 225/SOP/001	

Store at: -70°C

(b) (6)

Date: 26.03.2020

Date: 26.03.2020



Immunbiologische Forschung GmbH

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## Non-GMP CoA

Material not for human use

Version 3

**Product:** CoVVAC  
**Batch:** RBP020.1LNP  
**Lot:** CoVVAC/160320

Test	Method	Result
Appearance	Visual Inspection (224/SOP/011)	(b) (4)
RNA identity	CE (223/SOP/016)	
RNA integrity	CE (223/SOP/016)	
RNA content	Ribogreen Assay (221/SOP/018)	
RNA encapsulation	Ribogreen assay +/- LNP disruption (221/SOP/018)	
ALC-0315 content	HPLC-CAD (222/SOP/044)	
ALC-0159 content	HPLC-CAD (222/SOP/044)	
DSPC content	HPLC-CAD (222/SOP/044)	
Cholesterol content	HPLC-CAD (222/SOP/044)	
Particle size ( $Z_{avg}$ )	Dynamic light scattering (224/SOP/002)	
Polydispersity index (PDI)	Dynamic light scattering (224/SOP/002)	
pH	pH (224/SOP/016)	
Osmolality	Freezing point depression (224/SOP/009)	
Endotoxins/Pyrogens	Turbidimetric, kinetic LAL assay (Ph.Eur. 2.6.14/ USP<85>)	
Bioburden	Membrane filtration method 225/SOP/001	

Store at: -70°C

(b) (6)

Date: 26.03.2020

Date: 26.03.2020



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http://www.polymun.com

## Non-GMP CoA

Material not for human use

Version 2

**Product:** CoVVAC  
**Batch:** RBS004.3 LNP  
**Lot:** CoVVAC/130320

Test	Method	Result
Appearance	Visual Inspection (224/SOP/011)	(b) (4)
RNA identity	CE (223/SOP/016)	
RNA integrity	CE (223/SOP/016)	
RNA content	Ribogreen Assay (221/SOP/018)	
RNA encapsulation	Ribogreen assay +/- LNP disruption (221/SOP/018)	
ALC-0315 content	HPLC-CAD (222/SOP/044)	
ALC-0159 content	HPLC-CAD (222/SOP/044)	
DSPC content	HPLC-CAD (222/SOP/044)	
Cholesterol content	HPLC-CAD (222/SOP/044)	
Particle size ( $Z_{avg}$ )	Dynamic light scattering (224/SOP/002)	
Polydispersity index (PDI)	Dynamic light scattering (224/SOP/002)	
pH	pH (224/SOP/016)	
Osmolality	Freezing point depression (224/SOP/009)	
Endotoxins/Pyrogens	Turbidimetric, kinetic LAL assay (Ph.Eur. 2.6.14/ USP<85>)	
Bioburden	Membrane filtration method 225/SOP/001	

Store at: -70°C

(b) (6)

Date: 26.03.2020

Date: 26.03.2020

**A P P E N D I X   2**

**Composition of the Diet;  
Limitation for Contaminants in the Diet,  
Drinking Water and Bedding Material**

**ABBREVIATIONS**

%	per cent
Bq	becquerel
IU	international unit
kg	kilogram
L	litre
mg	milligram
MJ	megajoule
ppb	parts per billion
µg	microgram

**Composition of the diet**

**Standard Diet for Rats and Mice**  
**ssniff® V1534 R/M-H, maintenance diet, pellets 10 mm**  
**ssniff® V1535 R/M-H, maintenance diet, pellets 15 mm**

(ssniff Spezialdiäten GmbH, 59494 Soest, Germany)

<b>Ingredients</b> (average content in the diet %)		<b>Amino Acids</b> (average content in the diet %)	
Crude protein	19.0	Lysine	1.00
Crude fat	3.3	Methionine	0.33
Crude fibres	5.0	Cystine	0.35
Crude ash	6.4	Met + Cys	0.68
N-free extracts	54.6	Threonine	0.71
Starch	35.9	Tryptophan	0.25
Sugar	5.4	Arginine	1.19
<b>Metabolizable Energy (MJ/kg)</b>		Histidine	0.48
Gross energy	16.2	Valine	0.90
Metabolizable energy	13.5	Isoleucine	0.79
		Leucine	1.39
		Phenylalanine	0.88
		Phe + Tyr	1.49
		Glycine	0.88
		Glutamic acid	4.10
		Aspartic acid	1.79
		Proline	1.29
		Serine	0.99
		Alanine	0.82
<b>Minerals</b> (average content in the diet %)		<b>Trace Elements</b> (average content diet in mg per 1000 g)	
Calcium	1.00	Iron	189
Phosphorus	0.70	Manganese	68
Sodium	0.24	Zinc	91
Magnesium	0.22	Copper	15
Potassium	0.92	Iodine	2.1
		Selenium	0.3

**Vitamins**

(additive per 1 000 g of diet)

Vitamin A	15000 IU
Vitamin D3	1100 IU
Vitamin E	110 mg
Vitamin K (as MNB)	7 mg
Thiamine (B1)	18 mg
Riboflavin (B2)	22 mg
Pyridoxine (B6)	21 mg
Cobalamin (B12)	100 µg
Nicotinic acid	115 mg
Pantothenic acid	40 mg
Folic acid	7 mg
Biotin	510 µg
Choline	1370 mg

**Fatty Acids**

[%]

C 12:0	-
C 14:0	0.01
C 16:0	0.45
C 18:0	0.09
C 20:0	0.01
C 16:1	0.01
C 18:1	0.62
C 18:2	1.76
C 18:3	0.23

**Limitation for contaminants in the diet (ppb)**

	min.	max.
Aflatoxin (B <sub>1</sub> , B <sub>2</sub> , G <sub>1</sub> , G <sub>2</sub> ), total		5
Lindane		10
Heptachlor		10
Malathion		1000
DDT (Total)		50
Dieldrin		10
Cadmium		400
Arsenic		1000
Lead		1500
Mercury		100
Selenium	100	600
PCB		50

**Limitation for contaminants in the drinking water [mg/L]**

	max.
Iron	0.200
Manganese	0.050
Ammonium	0.50
Chloride	250
Arsenic	0.010
Lead	0.010
Cadmium	0.0030
Chromium	0.050
Cyanide	0.050
Fluoride	1.5
Nickel	0.020
Nitrite	0.50
Nitrate	50
Mercury	0.0010
Vinylchloride	0.00050
Acrylamide	0.00010
Benzene	0.0010
Boron	1.0
Bromate	0.010
Selenium	0.010
Antimony	0.0050
Copper	2.0
Aluminium	0.200
Sodium	200
Sulphate	250
Uranium	0.010

**Polycyclic aromatic hydrocarbons**

- Benzo-(b)-fluoroanthene		
- Benzo-(k)-fluoroanthene		
- Benzo-(ghi)-perylene		
- Indeno-(1,2,3-cd)-pyrene	total	0.00010
- Benzo-(a)-pyrene		0.000010

**Chlorinated organic compounds**

## Trihalogenemethane including

Trichloromethane,		
Bromodichloromethane,		
Dibromochloromethane and		
Tribromomethane	total	0.050
- 1,2-Dichloroethane		0.0030
- Tetrachloroethene and Trichloroethene		0.010
- Epichlorohydrine		0.00010

Organic chemical compounds used as  
pesticides and biocides includingtheir toxic metabolites maximum of 0.00010/substance  
except for

- Aldrin	0.000030
- Dieldrin	0.000030
- Heptachlor	0.000030
- Heptachloroepoxide	0.000030

maximum total of 0.00050

Tritium [Bq/L] 100

pH between 6.5 and 9.5

**Limitation for contaminants in the bedding material [mg/kg]**

	max.
Aflatoxin (B <sub>1</sub> )	0.01
Chlordane	0.02
Endrine	0.01
Fluorine	150.00
Lindane	0.10
Heptachlor and epoxide	0.01
DDT, DDE, DDD	0.05
Dieldrin and aldrin	0.01
Arsenic	1.00
Lead	2.50
Mercury	0.10
Nitrite (Na-Nitrite)	15.00
HCB	0.01

### APPENDIX 3

#### GLP Certificate of the Test Facility <sup>(b) (4)</sup>

(b) (4), (b) (6)

## APPENDIX 4

### Analytical report:

'Immunogenicity Assessment of BNT162a1, BNT162b1,  
BNT162b2 and BNT162c1 in Rat Serum after Repeated  
Intramuscular Administration'

(No. R-20-0104, provided by BioNtech SE, Germany)



BioNTech SE  
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55131 Mainz, Germany  
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Telefax: +49 (0)6131 9084-390

## R&D STUDY REPORT No. R-20-0104

### IMMUNOGENICITY ASSESSMENT OF BNT162a1, BNT162b1, BNT162b2 AND BNT162c1 IN RAT SERUM AFTER REPEATED INTRAMUSCULAR ADMINISTRATION

Version 01

Date: 25JUN2020

Reported (b) (6)

Test item: serum of rats administered with BNT162a1,  
BNT162b1, BNT162b2, and BNT162c1

Key words: Coronavirus, COVID-19, ATM material, rat, immunogenicity

This R&D report consists of 33 pages.

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## LIST OF ABBREVIATIONS

ATM	Animal trial material
COVID-19	Coronavirus disease 2019
ELISA	Enzyme-linked immunosorbent assay
HR	Heptad repeats
LNP	Lipid nanoparticle
(b) (4)	
modRNA	Nucleoside-modified mRNA
nAb	Neutralizing antibody
No	Number
PBS	Phosphate-buffered saline
pVNT	Pseudovirus-based neutralization test
RBD	Receptor binding domain
RNA	Ribonucleic acid
S protein	Spike protein
S1	Subdomain 1 of the S protein
S2	Subdomain 2 of the S protein
saRNA	Self-amplifying mRNA
SARS	Severe acute respiratory syndrome
SARS-CoV-2	Severe acute respiratory syndrome-Coronavirus-2
uRNA	Uridine-containing mRNA



## RESPONSIBILITIES

Person responsible for the study:	(b) (6)	
	Development; BioNTech SE	Date 23 Jun 2020
Author:	(b) (6)	
	BioNTech RNA Pharmaceuticals GmbH	Date 18 Jun 2020
Reviewer:	(b) (6)	
	unit; BioNTech RNA Pharmaceuticals GmbH	Date 19 JUN 2020
QA representative:	(b) (6)	
	BioNTech SE	Date 25.06.2020

### Meaning of the signatures:

Person responsible for the study: I am responsible for the content of the R&D report and confirm that it represents an accurate record of the results. This study was performed according to the SOPs and methods as well as the rules and regulations described in the report.

Author: I am the author of this document.

Reviewer: I reviewed the R&D report and confirm that this document complies with the scientific and technical standards and requirements.

QA representative: I confirm that this document complies with the relevant quality assurance requirements.

## 1 SUMMARY

BioNTech is developing RNA-based vaccines designed to protect against the novel coronavirus disease that emerged in 2019 (COVID-19). The project involves testing three RNA platforms which are under development at BioNTech with domains of the surface or spike protein (S protein) of the novel Coronavirus (SARS-CoV-2) as the viral antigen.

In the present accessory study to the GLP-compliant repeat-dose toxicity study in rats (b) (4) Study No. 38166), the immunogenicity of the administered SARS-CoV-2-S protein targeted RNA vaccines BNT162a1, BNT162b1, BNT162b2, and BNT162c1 was investigated. Serum samples were collected from (i) the treated main study animals at day 10 (BNT162c1) or at day 17 after first immunization (BNT162a1, BNT162b1, and BNT162b2) as well as (ii) the treated recovery cohorts at day 31 (BNT162c1) or at day 38 (BNT162a1, BNT162b1, and BNT162b2). The elicited antibody immune responses were analyzed by S1 domain and RBD sub-domain specific ELISA as well as VSV/SARS-CoV-2-S-based pseudovirus neutralization assay (pVNT).

The recorded data demonstrates that all BNT162 vaccine candidates elicited a SARS-CoV-2-S protein specific antibody response directed against the S1 domain and the RBD sub-domain. The antibody response induced by the BNT162c1 vaccine was low in extent and did not confer neutralization activity in most animals. The development of the BNT162c1 candidate was discontinued. For BNT162a1, BNT162b1 and BNT162b2 vaccines, antibody responses detected via ELISA increased over time and directly translated into neutralizing activity as seen in the VSV/SARS-CoV-2-S pseudovirus neutralization test. For those vaccine candidates, sera from animals with higher antigen-specific antibody titers also displayed more pronounced virus neutralization effect and, in case of modRNA based vaccines, BNT162b1 and BNT162b2, exceeded the upper limit of quantification of the assay.

(b) (6)

25 Jun 2020	
Date	



## 2 GENERAL INFORMATION

### 2.1 Sponsor and Test Facilities

#### Sponsor

BioNTech RNA Pharmaceuticals GmbH  
An der Goldgrube 12  
55131 Mainz  
Germany

#### Test Facility

BioNTech SE  
An der Goldgrube 12  
55131 Mainz  
Germany

### 2.2 Participating Personnel

<b>Responsible person:</b> (as defined in SOP-100-024)	(b) (6)
<b>Author:</b>	
<b>Experimenter:</b>	
<b>Experimenter:</b>	
<b>Experimenter:</b>	



## 2.3 Study Dates

Start of experiments: 07 APR 2020

Completion of experiments: 07 MAY 2020

## 2.4 Guidelines and Regulations

All experiments are executed in accordance with the existing standard operating procedures and described processes from BioNTech SE. Applicable documents are listed below.

- SOP-010-045 Brutschrank HERAcell 150i
- SOP-010-047 Zentrifuge Eppendorf 5810/5810R
- SOP-010-051 Tiefkühlschränke -80 °C
- SOP-010-058 Sicherheitswerkbank Klasse II
- SOP-010-086 Zentrifuge Thermo Scientific Heraeus Pico und Fresco 17
- SOP-020-009 Ansetzen von Medien und Zusätzen für die Zellkultur
- SOP-030-041 Auftauen von Zellen
- SOP-030-112 Durchführung eines virusprotein-spezifischen ELISA
- SOP-090-013 Biological safety in laboratories
- SOP-110-022 Entsorgung von Biostoffabfällen

## 2.5 Changes and Deviations

Not applicable. There is no formal R&D plan available.

## 2.6 Documentation and Archive

Study plans and reports are stored and archived according to SOP-100-003 Archiving of Paper-Based Documents.

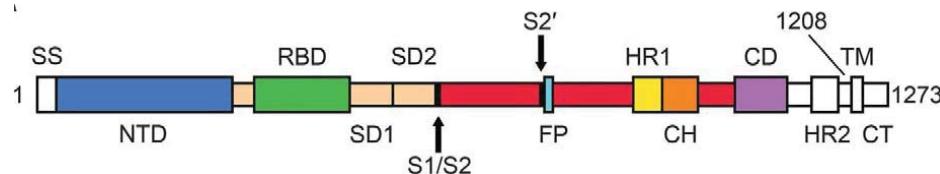
Raw data and evaluated data are saved at:

- P:\BioNTechRNA\RN9391R00\_CoV-VAC\04\_Preliminary\02\_Toxicology\Repeat-dose Toxicity<sup>(b) (4)</sup> Studie 38166

### 3 INTRODUCTION

#### 3.1 Background

In December 2019, an outbreak of pneumonia of unknown cause in Wuhan, Hubei province in China started. The disease spread rapidly and in January 2020, the agent was identified. By June 9<sup>th</sup> 2020, infection with the novel Coronavirus (SARS-CoV-2) was confirmed in approximately 7,000,000 people with more than 400,000 casualties<sup>1</sup>. A vaccine is urgently needed and BioNTech decided to develop a rapid vaccine project based on the surface or spike protein (S protein) of the virus as the viral antigen. The S protein is a trimer and during viral egress, the precursor protein is cleaved into S1 and S2 subunits (Figure 1). While the S1 domain recognizes the host receptor, the S2 domain is essential for the membrane fusion of the viral envelope and the endosomal membrane. To initiate membrane fusion, the S2 domain undergoes a conformational change within the central helix domain.



**Figure 1: Schematic overview of the protein organization of the SARS-CoV-2 S protein**

The sequence within the S1 subunit consists of the signal sequence (SS) and the receptor binding domain (RBD) which is the key subunit within the S protein which is relevant for binding to the human cellular receptor ACE2. The S2 subunit contains the S2 protease cleavage site (S2') followed by a fusion peptide (FP) for membrane fusion, heptad repeats (HR1 and HR2) with a central helix (CH) domain, the transmembrane domain (TM) and a cytoplasmic tail (CT); source: modified from ([Wrapp et al. 2020](#)).

Based on these features, the S protein is the prime target for vaccine development with a vaccine potentially eliciting neutralizing antibodies (nAb) that bind dominantly to the receptor-binding domain (RBD) of the S protein. Vaccine candidates selected for nonclinical testing include the following vaccine antigens:

- A secreted variant of the RBD of the SARS CoV-2 S-protein (vaccine candidate is called V5) ([Kirchdoerfer et al. 2018](#))
- Membrane-tethered full-length S protein with two point mutations within the central helix domain. Mutation of the two amino acids to proline, (KV286-287PP) retains the S protein in an antigenically optimal prefusion conformation (vaccine candidate is called V8/V9 depending on the codon optimization used in the RNA) ([Wrapp et al. 2020](#), [Pallesen et al. 2017](#))

<sup>1</sup> Coronavirus disease (COVID-2019) situation report 141, World Health Organization; <https://www.who.int/emergencies/diseases/novel-coronavirus-2019/situation-reports>



The development of *in vitro* transcribed RNA as an active platform for the use in infectious disease vaccines is based on the extensive knowledge of the company in RNA technology, which has been gained over the last decade. The core innovation is based on *in vivo* delivery of a pharmacologically optimized, antigen-coding RNA vaccine to induce robust nAbs and concomitant T-cell responses to achieve protective immunization with minimal vaccine doses ([Vogel et al. 2017](#), [Moyo et al. 2018](#), [Pardi et al. 2017](#)).

At BioNTech, there are three different RNA platforms under development, namely non-modified uridine-containing mRNA (uRNA), nucleoside-modified mRNA (modRNA) and self-amplifying RNA (saRNA). It is unknown today which RNA vaccine platform performs best in terms of activation and duration of a potent immune response. Therefore, BioNTech has developed a project plan evaluating the immune response of SARS-CoV-2 vaccines based on all three platforms. The three vaccine platforms are currently tested for each antigen construct in non-clinical mouse studies to dissect the induced immunogenicity. Moreover, a GLP-compliant repeat-dose toxicity study was conducted to characterize the safety profile of each RNA platform and to assess to which extent any observed side effect is specific to the RNA platform, the vaccine dose and/or the encoded antigen. This report covers an accessory study to the REPEAT-DOSE TOXICITY STUDY OF THREE LNP-FORMULATED RNA PLATFORMS ENCODING FOR VIRAL PROTEINS BY REPEATED INTRAMUSCULAR ADMINISTRATION TO WISTAR HAN RATS (b) (4) Study No. 38166) assessing the vaccine-induced immunogenicity seen in rats.

### 3.2 Objectives

The objective of this accessory study to the GLP-compliant repeat-dose toxicity study in rats (b) (4) Study No. 38166) was to obtain information on the immunogenicity of the administered SARS-CoV-2-S protein targeted RNA vaccines BNT162a1, BNT162b1, BNT162b2 and BNT162c1 in the rats. The elicited antibody immune response directed against the S1 domain and the RBD sub-domain was analyzed by enzyme-linked immunosorbent assay (ELISA), and the neutralizing capacity of antibodies assessed via pseudovirus neutralization test (pVNT).

### 3.3 Study Design

In order to obtain information on the SARS-CoV-2-S specific antibody responses induced in the GLP-compliant repeat-dose toxicity study in rats (b) (4) Study No. 38166), serum samples were collected from the treated main study animals at day 10 (BNT162c1) or at day 17 after first immunization (BNT162a1, BNT162b1, and BNT162b2) as well as from the treated recovery cohorts at day 31 (BNT162c1) or at day 38 (BNT162a1, BNT162b1, and BNT162b2). The corresponding study design of the *in vivo* study is summarized in Table 1. The elicited antibody immune response was analyzed by S1 domain and RBD sub-domain specific ELISA and VSV/SARS-CoV-2-S-based pVNT.

**Table 1: Study design of the GLP-compliant repeat-dose toxicity study(b) (4) Study No. 38166)**

<b>Test Items</b>	<ul style="list-style-type: none"> <li>• BNT162a1 (uRNA-LNP, RBD of the SARS-CoV-2 S protein)</li> <li>• BNT162b1 (modRNA-LNP, RBD of the SARS-CoV-2 S protein)</li> <li>• BNT162b2 (modRNA-LNP, mutated full-length S protein of the SARS-CoV-2 S protein)</li> <li>• BNT162c1 (saRNA-LNP, RBD of the SARS-CoV-2 S protein)</li> </ul>	
<b>Species(age)</b>	Wistar Han rat (10-14 weeks)	
<b>Administrations</b>	Three (BNT162a1, BNT162b1 and BNT162b2) or two (BNT162c1) administrations on day 1, 8 and (if applicable) 15 followed by a 3-week recovery period	
<b>Route</b>	Intramuscular into the <i>M. biceps femoris</i>	
<b>Dose groups</b>	<b>Test Item</b>	<b>Dose level</b>
1	Control = Buffer	/
2	<b>BNT162a1</b> (uRNA RBD)	30 µg
3		10 µg
4	<b>BNT162b1</b> (modRNA RBD)	30 µg
5		100 µg
6	<b>BNT162c1</b> (saRNA RBD)	30 µg
7	<b>BNT162b2</b> (modRNA mutated full-length S protein)	100 µg
<b>Satellite group (SA1)</b>	SA1: for cytokine response analysis	3/sex/group
<b>Group size</b>	Group 1–7	10 (+ 5 recovery)/sex/group



## 4 MATERIALS AND METHODS

### 4.1 Test Item

**Table 2: Test serum derived from the GLP-compliant repeat-dose toxicity study (Study No. 38166).**

Rat serum	Treatment and dose level	Time-point of serum generation
Group 2 (main study) (animals 31-40, 46-55)	30 µg/animal BNT162a1	Day 17
Group 2 (recovery cohort) (animals 41-45, 56-60)		Day 38
Group 3 (main study) (animals 61-70, 76-85)	10 µg/animal BNT162a1	Day 17
Group 3 (recovery cohort) (animals 71-75, 86-90)		Day 38
Group 4 (main study) (animals 91-100, 106-115)	30 µg/animal BNT162b1	Day 17
Group 4 (recovery cohort) (animals 101-105, 116-120)		Day 38
Group 5 (main study) (animals 121-130, 136-145)	100 µg/animal BNT162b1	Day 17
Group 5 (recovery cohort) (animals 131-135, 146-150)		Day 38
Group 6 (main study) (animals 151-160, 166-175)	30 µg/animal BNT162c1	Day 10
Group 6 (recovery cohort) (animals 161-165, 176-180)		Day 31
Group 7 (main study) (animals 181-190, 196-205)	100 µg/animal BNT162b2	Day 17
Group 7 (recovery cohort) (animals 191-195, 206-210)		Day 38

### 4.2 Control Item

**Table 3: Control serum derived from the GLP-compliant repeat-dose toxicity study (Study No. 38166).**

Rat serum	Treatment and dose level	Time-point of serum generation
Group 1 (main study) (animals 1-10, 16-25)	Vehicle buffer control (PBS/300 mM sucrose)	Day 17
Group 1 (recovery cohort) (animals 11-15, 26-30)		Day 38

### 4.3 Test System

- Recombinant His-tagged SARS-CoV-2-S spike protein S1 domain coated in high-protein binding 96-well plate

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- Recombinant His-tagged SARS-CoV-2-S spike protein RBD sub-domain coated in high-protein binding 96-well plate
- HEK293T/17 (ATCC® CRL-11268™; for VSV/SARS-CoV-2-S pseudovirus generation)
- VERO 76 (ATCC® CRL-1587™; for VSV/SARS-CoV-2-S pseudovirus titration and pseudovirus neutralization testing)

#### 4.4 Materials

Table 4: Materials

Product name	Application/specification	Article no.	Working dilution	Provider
96-well Microplate	Clear flat bottom TC-treated microplate, with lid, sterile	655160	N/A	Greiner Bio-One GmbH
96-well Microplate	Clear V bottom microplate, with lid, sterile	655180	N/A	Greiner Bio-One GmbH
96-well MaxiSorp plate	Clear Flat-Bottom Immuno Nonsterile 96-Well Plates for ELISA	439454	N/A	Thermo Fisher Scientific
50 mL tube	Conical bottom, PP, 30/115 MM, CELLSTAR®	227261	N/A	Greiner Bio-One GmbH
Cover films	ELISA	RATI6018410	N/A	VWR International GmbH
Eppendorf safe-lock tubes	0.5 mL/ 2.0 mL, Eppendorf Quality™	0030121023/0030120094	N/A	Eppendorf Vertrieb Deutschland GmbH
Pipette tips	ep Dualfilter T.I.P.S.®, PCR clean und sterile, 0.1–10 µL/2–100 µL/50–1000 µL/50–1250 µL/0.1–5 mL	0030077512/0030077547/0030077555/0030077792/0030077750/0030078616	N/A	Eppendorf Vertrieb Deutschland GmbH
Serological pipet	5 mL/10 mL/25 mL	606180 607180 760180	N/A	Greiner Bio-One GmbH
Reagent reservoir	25 mL, 100 mL	613-1179 613-1171	N/A	VWR International GmbH
Sodium Bicarbonate	ELISA, coating buffer	S5761	N/A	Sigma-Aldrich Chemie GmbH
Sodium Carbonate	ELISA, coating buffer	S7795	N/A	Sigma-Aldrich Chemie GmbH
Phosphate buffered saline (PBS), powdered	ELISA, PBS-T buffer	0780-10L	1x	VWR International GmbH
Tween 20	ELISA, PBS-T buffer	9127.1	n/a	Carl Roth GmbH & Co. KG
Casein Blocking Buffer 10x	ELISA	B6429-500 ml	1x	Sigma-Aldrich Chemie GmbH



Product name	Application/specification	Article no.	Working dilution	Provider
TMB one ready to use-solution	ELISA	4380A	1x	Biotrend Chemiekalien GmbH
Sulphuric acid 25% EMSURE®	ELISA	1007161000	n/a	VWR International GmbH
Anti-Rabbit IgG (whole molecule) POX	ELISA	A0545-1ML	1:10000	Sigma-Aldrich
Mouse Anti-Rat IgG (H+L) HRP	ELISA	212-035-168	1:10000	Jackson ImmunoResearch
rat IgG-UNLB	ELISA	0108-01	Starting dilution 1:300	Southern Biotech
SARS-CoV-2 (2019-nCoV) Spike Antibody, Rabbit Mab	ELISA	40150-R007	1:500/ 1:1000	SinoBiological
Recombinant S protein NCP-CoV(2019-nCoV) Spike Protein (S1 Subunit, His Tag)	ELISA	40591-V08H	100 ng/ 100 µL	SinoBiological
Recombinant RBD protein 2019-nCoV Spike Protein (RBD, His Tag)	ELISA	40592-V08B	100 ng/ 100 µL	SinoBiological
Epoch Absorbance reader	ELISA	n/a	n/a	BioTek
Tecan Washer	ELISA	n/a	n/a	Tecan
Orbital shaker with heating function	ELISA	n/a	n/a	Heidolph
DMEM medium	High glucose, GlutaMAX™ Supplement, pyruvate	31966-047	N/A	Life Technologies GmbH
Fetal Bovine Serum	Non-USA origin, sterile-filtered	F7524	N/A	Sigma-Aldrich Chemie GmbH
DPBS	No calcium, no magnesium	14190-094	1 ×	Thermo Fisher Scientific
Penicillin-Streptomycin	10,000 U/mL	15140-122	33 U/mL	G bco
2 mL tube	CRYO.S, round bottom	122278	N/A	Greiner Bio-One GmbH
Dimethyl sulfoxide	For cell culture	A3672,0100	N/A	AppliChem GmbH
Lipofectamine® LTX & PLUS™ Reagent	Pseudovirus generation	15338-100	N/A	Life Technologies GmbH
VSV-ΔG-GFP Plasmid Expression Vector System	With set of Helper Plasmids (VSV-N, VSV-P, VSV-L, VSV-G); for VSV-ΔG-GFP generation	EH1004	N/A	Kerafast, Inc.

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Product name	Application/specification	Article no.	Working dilution	Provider
VSV-G antibody,	Mouse IgG2a kappa; clone 8G5F11	EB0010	0.5 µg/mL	Kerafast, Inc.
Filter	0.45 µm Acrodisc®, Supor®	514-4123	N/A	VWR International GmbH
Incubator	Heracell 150i	N/A	N/A	Thermo Fisher Scientific
Sterile safety cabinet	Hera Safe HS18	N/A	N/A	Thermo Fisher Scientific
Live-Cell Analysis System	Incucyte S3	N/A	N/A	Essen Bioscience
Microplate shaker	Titramax 100	N/A	N/A	Heidolph Instruments GmbH
Water bath	TW8	N/A	N/A	Julabo GmbH

**Table 5: Software**

Product name	Application	Provider
Excel	Animal monitoring, raw data	Microsoft Corp.
GraphPad Prism 8	Analysis of ELISA and pVNT assay	Graphpad Software Inc.

## 4.5 Methods

### 4.5.1 ELISA

Serum samples were tested in 96-well plates for their S-specific antibody concentration based on SOP-030-112 (with minor modifications as described below). Briefly, for the time points 10 days (BNT162c1) or 17 days (BNT162a1, BNT162b1 and BNT162b2, see Section 4.1) after immunization, a screening analysis was performed.

1. Coat each well of a MaxiSorp plate with 100 ng recombinant protein (SARS-CoV2 S1 subunit or RBD) per well in 100 µL coating buffer (50 mM sodium carbonate buffer [1.696 g Na<sub>2</sub>CO<sub>3</sub> + 2.856 g NaHCO<sub>3</sub> ad 1 L Aqua dest.], pH 9.6)
2. Cover plates and incubate at 4°C o/n.
3. Wash three times with 300 µL/well PBS-T (9 L Aqua dest. + 1 L 10x PBS + 1 mL Tween 20).
4. Block all wells with 250 µL/well blocking buffer (900 mL Aqua dest. + 100 mL 10x Casein Blocking Buffer)
5. Incubate at 37°C for 1 h on shaker.
6. Wash three times with 300 µL/well PBS-T.
7. Dilute primary antibodies (samples and positive control) according to schedule.
8. Incubate at 37°C for 1 h on shaker.
9. Wash three times with 300 µL/well PBS-T.

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10. Dilute the secondary antibodies according to calculations.
11. Incubate at 37°C for 45 min on shaker.
12. Wash three times with 300 µL/well PBS-T.
13. Add 100 µL/well TMB substrate.
14. Incubate 8 min at RT (clear->blue).
15. Stop the reaction with 100 µL 25% sulfuric acid (blue -> yellow).
16. Read on plate reader (450 nm, reference: 620 nm).

#### 4.5.2 Production of SARS-CoV2-S pseudotyped VSV vector

Replication-deficient vesicular stomatitis virus (VSV) that lacks the genetic information for the VSV envelope glycoprotein VSV-G but contains an open-reading frame (ORF) for green fluorescent protein (GFP) was used for SARS-CoV-2-S pseudovirus generation. VSV pseudotypes were generated according to a published protocol ([Hoffmann et al. 2020](#)).

In brief, HEK293T/17 cells cultured in DMEM supplemented with 10% FBS were transfected with a pcDNA3.1-derived expression plasmid coding for the SARS-CoV-2 spike protein (GenBank ID: QHD43416.1) with shortened cytoplasmatic tail, i.e. pSARS-CoV-2-S-CA19, using Lipofectamine® LTX & PLUS™ Reagent following the manufacturer's instructions. The cytoplasmatic tail was truncated for the 19 C-terminal amino acids to facilitate a more efficient integration of SARS-CoV-2-S into VSV virions analogous to SARS-CoV-S pseudotyped VSV ([Fukushi et al. 2005](#)). At 24 h post transfection, cells were inoculated with VSV-G transcomplemented VSV-ΔG-GFP vector (Indiana strain, *de novo* generated by reverse genetics from plasmid ([Lawson et al. 1995](#))) at a multiplicity of infection (MOI) of three and incubated for 2 h at 37°C and 5% CO<sub>2</sub>. Next, the inoculum was removed, cells were washed with phosphate-buffered saline (DPBS), and standard culture medium, which contained 0.5 µg/mL anti-VSV-G antibody, was added to neutralize residual input virus. Twenty-four hours after infection, VSV/SARS-CoV-2-S pseudovirus-containing supernatants were harvested, filtered and stored at -80 °C in aliquots until further use.

#### 4.5.3 Titration of VSV/SARS-CoV2 pseudovirus

For titration of VSV/SARS CoV-2-S pseudovirus, Vero-76 cells were thawed according to SOP-030-041, diluted to  $2.67 \times 10^5$  cells/mL in assay medium (DMEM/10% FBS) and seeded in 96-well flat-bottom plates at  $4 \times 10^4$  cells per well. Cells were incubated for 4 to 6 hours at 37 °C and 7.5% CO<sub>2</sub>. Meanwhile, two-fold, eight-step serial dilutions were prepared in 96-well V-bottom plates beginning with undiluted pseudovirus supernatant. Vero-76 wells were inoculated with 50 µL of the diluted pseudovirus supernatant and incubated for 16 to 24 hours at 37 °C and 7.5% CO<sub>2</sub>. Each dilution was tested in duplicate wells. After the incubation, the cell culture plates were removed from the incubator, placed in an IncuCyte Live Cell Analysis system and equilibrated for 30 minutes prior to the analysis. Whole well scanning for brightfield and GFP fluorescence was performed using a 4× objective. The number of infected GFP-



fluorescent cells per well was plotted as a function of pseudovirus supernatant dilution using GraphPad Prism v8. Data were fitted and the fitting equation used to calculate the amount of viral supernatant needed to obtain 144 infected cells/96-well (20% excess for virus neutralization test included; see Section 4.5.4).

#### 4.5.4 Pseudovirus Neutralization Test

For analyzing the amount of nAbs in the serum samples, sera collected at 10 days (BNT162c1) or 17 days (BNT162a1, BNT162b1 and BNT162b2, see Section 4.1) after immunization were tested using the VSV/SARS-CoV-2-S pseudovirus neutralization test (pVNT). For the pVNT assay, Vero-76 cells were thawed according to SOP-030-041, diluted to  $2.67 \times 10^5$  cells/mL in assay medium (DMEM/10% FBS) and seeded in 96-well flat-bottom plates at  $4 \times 10^4$  cells per well. Cells were incubated for 4 to 6 hours at 37 °C and 7.5% CO<sub>2</sub>. Initial dilutions of rat serum samples were prepared by adding 10 µL of serum to 50 µL assay medium in a 96-well V-bottom plate. Seven additional dilutions were subsequently prepared in two-fold dilution steps, by iteratively transferring 30 µL of diluted sera to wells containing 30 µL assay medium. VSV/SARS-CoV-2 pseudovirus was thawed and diluted to obtain 120 infected cells/25 µL ( $4.8 \times 10^3$  infectious units [IU]/mL). 30 µL of diluted pseudovirus (corresponds to 144 infected cells; see Section 4.5.3) was added to the wells containing the serum dilution series. The pseudovirus/serum dilution mix was incubated for 5 minutes at room temperature (RT) on a Heidolph Titramax 100 microplate shaker at 750 rpm, and additional 5 min at RT without agitation. The pseudovirus/serum dilution mix was then added to the seeded Vero-76 cells (50 µL mix per well, MOI: 0.003), followed by incubation for 16 to 24 hours at 37 °C and 7.5% CO<sub>2</sub>. Each dilution of serum samples was tested in duplicate wells. Vero-76 cells incubated with pseudovirus in the absence of rat sera were used as positive controls. Vero-76 cells incubated without pseudovirus were used as negative controls. After the incubation, the cell culture plates were removed from the incubator, placed in an IncuCyte Live Cell Analysis system and equilibrated for 30 minutes prior to the analysis. Whole well scanning for brightfield and GFP fluorescence was performed using a 4× objective. To calculate the neutralizing titer, infected GFP-positive cell number per well was compared with the no-serum pseudovirus positive control. Mean values of the no-serum pseudovirus positive control multiplied by 0.5 represents the pseudovirus neutralization 50% (pVN50); mean values of the no-serum pseudovirus positive control multiplied by 0.1 represents the pseudovirus neutralization 90%. Serum samples with mean values below this cut-off exhibit >50% or >90% virus neutralization activity, respectively.



## 5 RESULTS

The exposure of rats to the four different BNT162 vaccine candidates was evaluated via SARS-CoV-2 spike protein specific antibody responses in an accessory study to the REPEAT-DOSE TOXICITY STUDY OF THREE LNP-FORMULATED RNA PLATFORMS ENCODING FOR VIRAL PROTEINS BY REPEATED INTRAMUSCULAR ADMINISTRATION TO WISTAR HAN RATS (b) (4) Study No. 38166). In this toxicity study rats were injected intramuscularly with different dose levels of BNT162a1, BNT162b1 or a single dose level of BNT162b2 or BNT162c1. Table 6 summarizes the treatment groups.

**Table 6: Overview of treatment groups in LPT study no. 38166**

Treatment group	Dose level / product	RNA platform	Antigen	Translated Protein
1			Vehicle Buffer Control	
2	30 µg BNT162a1	uRNA	V5	Secreted RBD variant with a C-terminal trimerization domain
3	10 µg BNT162a1			
4	30 µg BNT162b1	modRNA	V5	Secreted RBD variant with a C-terminal trimerization domain
5	100 µg BNT162b1			
6	30 µg BNT162c1	saRNA	V5	Secreted RBD variant with a C-terminal trimerization domain
7	100 µg BNT162b2	modRNA	V8	Membrane tethered, mutated full-length S protein

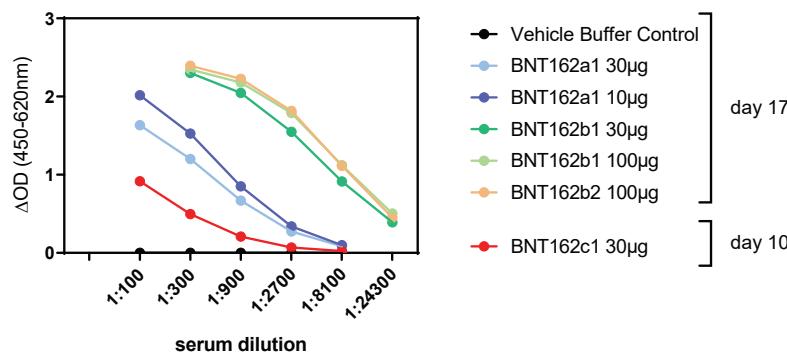
Whereas uRNA and modRNA based vaccines were administered three times one week apart (days 1, 8, 15), the saRNA based vaccine was administered only twice with one week apart (days 1, 8). The capacity of the RNA-encoded antigens to induce antibody responses was studied using ELISA and pVNT assay.

### 5.1 ELISA

Induced antibody responses directed against the SARS-CoV-2 spike protein S1 domain and RBD sub-domain were assessed at day 10 after two immunization rounds (BNT162c1) or day 17 after three rounds of immunization (BNT162a1, BNT162b1, and BNT162b2; Table 6), as well as from the treated recovery cohorts at day 31 (BNT162c1) or at day 38 (BNT162a1, BNT162b1, and BNT162b2). Due to the unknown strength of the elicited immune response, different dilutions of rat serum ranging from 1:100 to 1:24,300 were tested as part of an ELISA screening analysis.

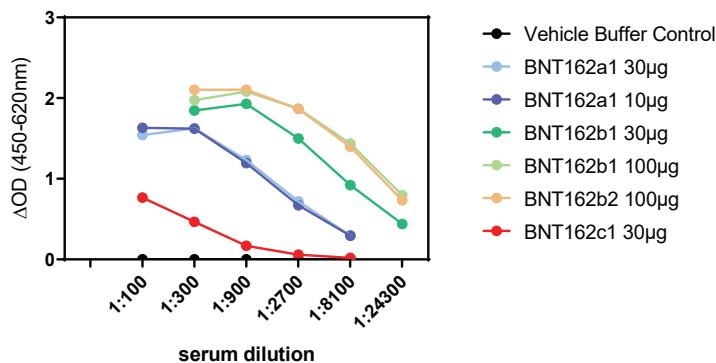
Treatment of rats with each of the BNT162 vaccine candidates resulted in the formation of antibodies of the IgG isotype against the S1 domain as well as the RBD sub-domain of the SARS-CoV-2 spike protein, while these antibodies were not detected in samples

from vehicle buffer control treated animals (Figure 2, Figure 3, Figure 4 and Figure 5). The analysis showed a weak antibody immune response for BNT162c1 treated animals at day 10 and day 31, a moderate antibody immune response for BNT162a1 treated animals at day 17 and day 38, and a strong antibody immune response for both mRNA based vaccines, BNT162b1 and BNT162b2, at day 17 and day 38, irrespective of the vaccine antigen used. Whereas for the BNT162b1 cohort the magnitude of immune activation was dose-dependent, the low-dose (10 µg/animal) BNT162a1 treated animals displayed a slightly more pronounced antibody immune response with higher titers of antigen-specific IgG in serum compared to the high-dose (30 µg/animal) treated cohort.



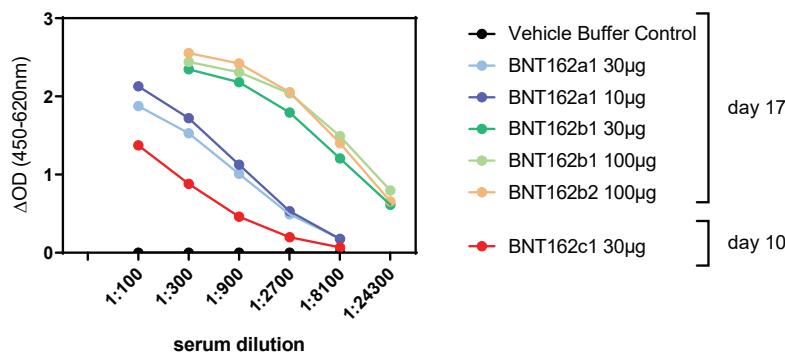
**Figure 2: ELISA screening analysis of main study cohort sera to detect antibody responses directed against the recombinant SARS-CoV-2 spike protein S1 domain**

ELISA was performed using serum samples collected on day 10 after two immunizations (prime/boost on days 1 and 8) with BNT162c1, or on day 17 after three administrations (prime/boost on days 1/8/15) of BNT162a1, BNT162b1, or BNT162b2 to analyze elicited antibody responses. The serum samples were tested against the S1 protein. Group mean  $\Delta\text{OD}$  values of n=20 mice/group are shown by dots across serum dilutions ranging from 1:100 to 1:24,300.



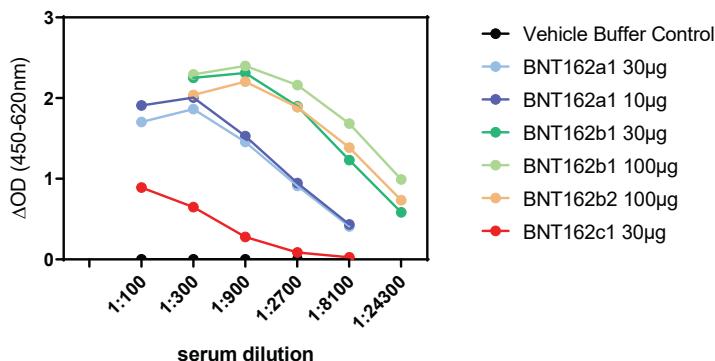
**Figure 3: ELISA screening analysis of recovery cohort sera to detect antibody responses directed against the recombinant SARS-CoV-2 spike protein S1 domain**

ELISA was performed using serum samples collected on day 31 after two immunizations (prime/boost on days 1 and 8) with BNT162c1, or on day 38 after three administrations (prime/boost on days 1/8/15) of BNT162a1, BNT162b1, or BNT162b2 to analyze elicited antibody responses. The serum samples were tested against the S1 protein. Group mean  $\Delta$ OD values of n=20 mice/group are shown by dots across serum dilutions ranging from 1:100 to 1:24,300.



**Figure 4: ELISA screening analysis of main study cohort sera to detect antibody responses directed against the recombinant SARS-CoV-2 spike protein RBD domain**

ELISA was performed using serum samples collected on day 10 after two immunizations (prime/boost on days 1 and 8) with BNT162c1, or on day 17 after three administrations (prime/boost on days 1/8/15) of BNT162a1, BNT162b1, or BNT162b2 to analyze elicited antibody responses. The serum samples were tested against the RBD domain. Group mean  $\Delta$ OD values of n=20 rats/group are shown by dots across serum dilutions ranging from 1:100 to 1:24,300.



**Figure 5: ELISA screening analysis of recovery cohort sera to detect antibody responses directed against the recombinant SARS-CoV-2 spike protein RBD domain**

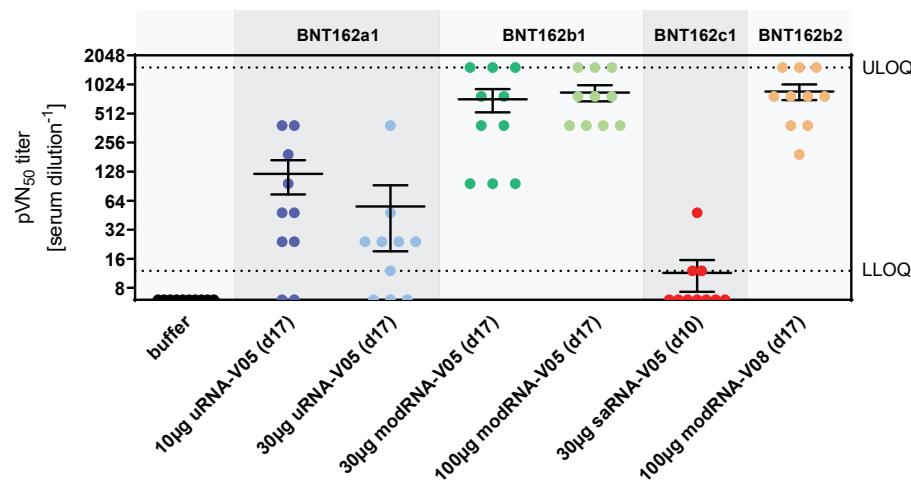
ELISA was performed using serum samples collected on day 31 after two immunizations (prime/boost on days 1 and 8) with BNT162c1, or on day 38 after three administrations (prime/boost on days 1/8/15) of BNT162a1, BNT162b1, or BNT162b2 to analyze elicited antibody responses. The serum samples were tested against the RBD domain. Group mean  $\Delta\text{OD}$  values of n=20 rats/group are shown by dots across serum dilutions ranging from 1:100 to 1:24,300.

## 5.2 Pseudovirus-based Neutralization Test

To functionally characterize the elicited SARS-CoV-2 spike protein specific antibody response in rats, the neutralizing capacity of sera was assessed employing a VSV/SARS-CoV-2-S pseudovirus system in conjunction with Vero 76 cells as target. Vero 76 cells express endogenous angiotensin-converting enzyme 2 (ACE2), the identified entry receptor for SARS-CoV-2 (Hoffmann et al. 2020). Sera of ten representative animals per cohort and time-point (generated from n=5 male and n=5 female rats) were analyzed.

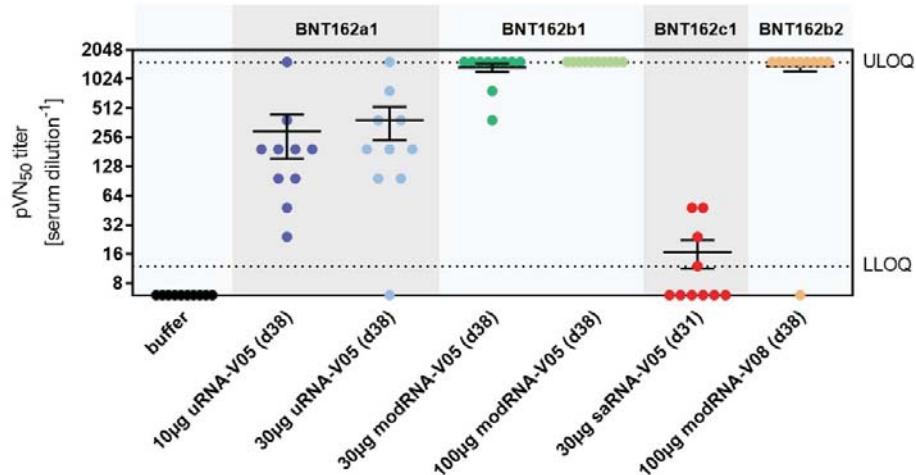
Treatment of rats with each of the BNT162 vaccine candidates resulted in the formation of neutralizing antibodies protecting Vero 76 cells against pseudovirus infection (titer resulting in 50% pseudovirus neutralization in Figure 6 and Figure 7; titer resulting in 90% pseudovirus neutralization in Figure 8 and Figure 9). In contrast, no neutralizing activity was associated with serum samples generated from vehicle buffer control treated animals. Neutralizing antibody titers in vaccinated animals increased over time with the recorded neutralizing activity being consistent with the ELISA data shown in Section 5.1. Whereas sera from BNT162c1 treated animals display weak neutralizing activity both at days 10 and 31, sera from BNT162a1 treated animals display moderate neutralizing activity at day 17 that is significantly augmented at day 38. The strongest pseudovirus neutralization effect is mediated by sera generated from BNT162b1- and BNT162b2-treated rats. In case of both modRNA-based vaccines, BNT162b1 and

BNT162b2, neutralizing antibody titers resulting in 50% pseudovirus neutralization exceeded the upper limit of quantification (ULOQ) of a reciprocal titer of 1536 in more than 8 out of ten animals at day 38.



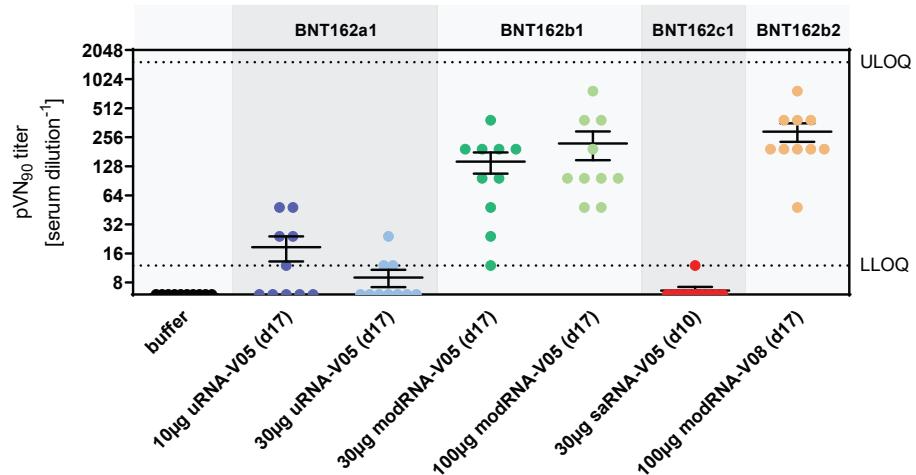
**Figure 6: Pseudovirus neutralization activity of main study cohort sera plotted as pVN<sub>50</sub> titer**

Serum samples were collected on day 10 (BNT162c1, red dots) or day 17 (all other cohorts) after first immunization of the main study animals and titers of virus-neutralizing antibodies were determined by pseudovirus-based neutralization test (pVNT). Individual VNT titers resulting in 50% pseudovirus neutralization (pVN<sub>50</sub>) are shown by dots; group mean values are indicated by horizontal bars ( $\pm$ SEM, standard error of the mean).



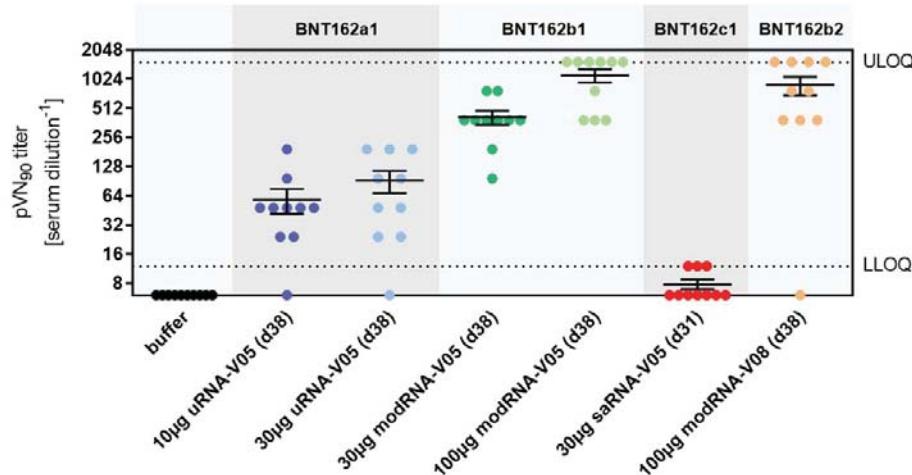
**Figure 7: Pseudovirus neutralization activity of recovery cohort sera plotted as pVN<sub>50</sub> titer**

Serum samples were collected on day 31 (BNT162c1, red dots) or day 38 (all other cohorts) after first immunization of the recovery cohort animals and titers of virus-neutralizing antibodies were determined by pseudovirus-based neutralization test (pVNT). Individual VNT titers resulting in 50% pseudovirus neutralization ( $pVN_{50}$ ) are shown by dots; group mean values are indicated by horizontal bars ( $\pm$ SEM, standard error of the mean).



**Figure 8: Pseudovirus neutralization activity of main study cohort sera plotted as pVN<sub>90</sub>**

Serum samples were collected on day 10 (BNT162c1, red dots) or day 17 (all other cohorts) after first immunization of the main study animals and titers of virus-neutralizing antibodies were determined by pseudovirus-based neutralization test (pVNT). Individual VNT titers resulting in 90% pseudovirus neutralization (pVN<sub>90</sub>) are shown by dots; group mean values are indicated by horizontal bars ( $\pm$ SEM, standard error of the mean).

**Figure 9: Pseudovirus neutralization activity of recovery cohort sera plotted as  $pVN_{90}$** 

Serum samples were collected on day 31 (BNT162c1, red dots) or day 38 (all other cohorts) after first immunization of the recovery cohort animals and titers of virus-neutralizing antibodies were determined by pseudovirus-based neutralization test (pVNT). Individual VNT titers resulting in 90% pseudovirus neutralization ( $pVN_{90}$ ) are shown by dots; group mean values are indicated by horizontal bars ( $\pm$ SEM, standard error of the mean).



## 6 CONCLUSION

The available data demonstrates that all BNT162 vaccine candidates elicited a SARS-CoV-2 spike protein specific antibody response directed against the S1 domain and the RBD sub-domain. Antibody responses detected via ELISA directly translated into neutralizing activity as seen in the VSV/SARS-CoV2-S pseudovirus neutralization test with BNT162 vaccines showing higher antigen-specific antibody titers also displaying more pronounced virus neutralization effect. A comparison of the three RNA platforms with regard to their immunogenicity in rats may not be fully predictive for how they may perform relative to each other in human due to species-specific differences in immunity mechanisms.



## 7 DOCUMENT HISTORY

First version / no change.



## 8 REFERENCES

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## 9 APPENDIX

### Appendix 1: pVNT raw data

**Table 7: Pseudovirus neutralization activity of sera generated from male rats in group 1**

Neutralization activity of each serum at a given serum dilution is calculated as % infectivity compared to the virus control. Green shaded boxes indicate wells with virus neutralization activity >50%; red shaded boxes indicate wells with virus neutralization activity >90%.

Serum dilution		1	2	3	4	5	Virus control	Cell control	VN50
1:12	A	98,6	108,5	112,0	93,2	105,3	100	0	50
1:24	B	90,4	81,9	91,1	96,8	100,2			
1:48	C	97,9	105,3	99,1	100,3	97,3			
1:96	D	115,9	95,9	86,6	92,8	91,1			
1:192	E	95,3	99,5	82,0	70,8	78,2			
1:384	F	98,3	63,2	69,4	33,7	31,8			
1:768	G	86,9	56,3	54,5	55,9	40,6			
1:1536	H	84,0	81,2	76,3	60,8	61,9			

**Table 8: Pseudovirus neutralization activity of sera generated from female rats in group 1**

Neutralization activity of each serum at a given serum dilution is calculated as % infectivity compared to the virus control. Green shaded boxes indicate wells with virus neutralization activity >50%; red shaded boxes indicate wells with virus neutralization activity >90%.

Serum dilution		16	17	18	19	20	Virus control	Cell control	VN50
1:12	A	113,7	138,3	134,2	99,3	104,8	100	0	50
1:24	B	112,1	108,5	113,6	97,8	111,1			
1:48	C	125,4	116,5	118,4	113,6	111,6			
1:96	D	122,3	67,9	72,3	67,1	91,5			
1:192	E	111,8	66,5	74,2	72,5	63,2			
1:384	F	119,7	77,2	46,3	53,6	54,6			
1:768	G	123,2	97,3	54,6	70,8	66,9			
1:1536	H	97,3	75,1	84,3	77,5	56,4			

**Table 9: Pseudovirus neutralization activity of sera generated from male rats in group 2**

Neutralization activity of each serum at a given serum dilution is calculated as % infectivity compared to the virus control. Green shaded boxes indicate wells with virus neutralization activity >50%; red shaded boxes indicate wells with virus neutralization activity >90%.

Serum dilution		31	32	33	34	35	Virus control	Cell control	VN50
1:12	A	90,8	10,1	8,5	100,0	18,1	100	0	50
1:24	B	89,1	38,4	31,9	119,3	39,9			
1:48	C	112,8	76,5	64,8	123,0	64,2			
1:96	D	118,6	75,9	61,1	104,4	62,3			
1:192	E	97,3	61,1	39,4	74,2	65,7			
1:384	F	99,3	62,6	46,8	77,1	64,8			
1:768	G	111,1	104,6	100,3	69,3	86,7			
1:1536	H	110,8	102,6	82,9	72,9	65,7			

**Table 10: Pseudovirus neutralization activity of sera generated from female rats in group 2**

Neutralization activity of each serum at a given serum dilution is calculated as % infectivity compared to the virus control. Green shaded boxes indicate wells with virus neutralization activity >50%; red shaded boxes indicate wells with virus neutralization activity >90%.

Serum dilution		46	47	48	49	50	Virus control	Cell control	VN50
1:12	A	28,7	99,8	9,9	15,3	0,8	100	0	50
1:24	B	53,8	122,7	37,7	34,1	1,5			
1:48	C	75,3	133,1	63,3	50,0	14,4			
1:96	D	82,8	126,1	55,3	62,6	26,4			
1:192	E	110,2	131,2	72,1	86,5	39,0			
1:384	F	88,0	66,3	45,4	57,4	35,4			
1:768	G	114,0	97,8	86,3	88,3	60,0			
1:1536	H	85,4	74,7	78,4	78,5	37,9			

**Table 11: Pseudovirus neutralization activity of sera generated from male rats in group 3**

Neutralization activity of each serum at a given serum dilution is calculated as % infectivity compared to the virus control. Green shaded boxes indicate wells with virus neutralization activity >50%; red shaded boxes indicate wells with virus neutralization activity >90%.

Serum dilution		61	62	63	64	65	Virus control	Cell control	VN50
1:12	A	20,3	72,8	6,0	4,4	14,9	100	0	50
1:24	B	43,2	84,4	31,3	8,1	41,3			
1:48	C	58,9	95,6	47,5	19,9	60,0			
1:96	D	78,6	99,6	73,0	33,6	83,4			
1:192	E	84,6	106,9	96,9	53,9	92,1			
1:384	F	95,9	109,3	87,1	62,9	95,2			
1:768	G	84,2	91,5	93,4	60,6	95,2			
1:1536	H	91,1	94,0	90,3	85,9	96,1			

**Table 12: Pseudovirus neutralization activity of sera generated from female rats in group 3**

Neutralization activity of each serum at a given serum dilution is calculated as % infectivity compared to the virus control. Green shaded boxes indicate wells with virus neutralization activity >50%; red shaded boxes indicate wells with virus neutralization activity >90%.

Serum dilution		76	77	78	79	80	Virus control	Cell control	VN50
1:12	A	1,7	10,0	63,3	0,0	0,4	100	0	50
1:24	B	5,8	25,1	86,7	1,4	2,3			
1:48	C	12,5	44,6	101,0	6,0	6,2			
1:96	D	24,7	58,1	103,5	12,2	20,5			
1:192	E	36,1	76,1	96,1	24,9	34,2			
1:384	F	58,5	90,9	99,0	48,5	43,1			
1:768	G	72,6	91,7	98,8	51,2	62,7			
1:1536	H	76,3	98,5	90,3	65,6	64,5			

**Table 13: Pseudovirus neutralization activity of sera generated from male rats in group 4**

Neutralization activity of each serum at a given serum dilution is calculated as % infectivity compared to the virus control. Green shaded boxes indicate wells with virus neutralization activity >50%; red shaded boxes indicate wells with virus neutralization activity >90%.

Serum dilution		91	92	93	94	95	Virus control	Cell control	VN50
1:12	A	0,0	0,0	2,9	0,6	1,0	100	0	50
1:24	B	0,0	0,3	5,2	1,0	1,6			
1:48	C	1,0	0,6	21,7	0,3	1,6			
1:96	D	3,2	1,9	22,7	3,6	5,2			
1:192	E	20,7	2,3	60,2	4,9	17,2			
1:384	F	45,6	11,3	69,3	16,8	31,1			
1:768	G	72,5	27,2	95,5	31,4	65,7			
1:1536	H	112,3	35,6	134,6	55,3	99,4			

**Table 14: Pseudovirus neutralization activity of sera generated from female rats in group 4**

Neutralization activity of each serum at a given serum dilution is calculated as % infectivity compared to the virus control. Green shaded boxes indicate wells with virus neutralization activity >50%; red shaded boxes indicate wells with virus neutralization activity >90%.

Serum dilution		106	107	108	109	110	Virus control	Cell control	VN50
1:12	A	0,7	0,3	2,4	0,0	0,7	100	0	50
1:24	B	2,9	0,1	12,7	0,1	0,1			
1:48	C	7,9	0,4	24,4	0,4	0,8			
1:96	D	28,6	1,0	39,2	0,7	1,6			
1:192	E	50,7	6,0	61,5	2,4	6,9			
1:384	F	66,8	16,9	63,0	7,1	15,8			
1:768	G	86,1	34,8	75,4	16,7	31,6			
1:1536	H	79,5	55,2	74,6	31,2	42,3			

**Table 15: Pseudovirus neutralization activity of sera generated from male rats in group 5**

Neutralization activity of each serum at a given serum dilution is calculated as % infectivity compared to the virus control. Green shaded boxes indicate wells with virus neutralization activity >50%; red shaded boxes indicate wells with virus neutralization activity >90%.

Serum dilution		121	122	123	124	125	Virus control	Cell control	VN50
1:12	A	0,0	0,2	0,7	0,2	0,7	100	0	50
1:24	B	0,9	0,0	0,0	0,0	0,9			
1:48	C	5,7	0,9	0,0	0,9	1,5			
1:96	D	16,1	4,6	2,0	1,1	9,6			
1:192	E	29,6	13,5	10,4	5,2	21,3			
1:384	F	47,8	23,9	19,6	8,0	37,6			
1:768	G	66,5	40,2	40,2	25,9	54,1			
1:1536	H	76,7	52,0	67,8	40,9	65,9			

**Table 16: Pseudovirus neutralization activity of sera generated from female rats in group 5**

Neutralization activity of each serum at a given serum dilution is calculated as % infectivity compared to the virus control. Green shaded boxes indicate wells with virus neutralization activity >50%; red shaded boxes indicate wells with virus neutralization activity >90%.

Serum dilution		136	137	138	139	140	Virus control	Cell control	VN50
1:12	A	0,0	0,2	0,0	0,0	0,4	100	0	50
1:24	B	0,4	0,0	0,9	0,0	0,0			
1:48	C	0,4	0,4	2,4	0,2	0,0			
1:96	D	4,4	2,9	11,0	0,2	0,0			
1:192	E	17,6	6,4	25,3	3,3	0,4			
1:384	F	19,6	12,3	28,6	4,2	2,0			
1:768	G	61,5	33,7	71,1	20,0	8,6			
1:1536	H	75,1	51,3	85,0	37,7	26,2			

**Table 17: Pseudovirus neutralization activity of sera generated from male rats in group 6**

Neutralization activity of each serum at a given serum dilution is calculated as % infectivity compared to the virus control. Green shaded boxes indicate wells with virus neutralization activity >50%; red shaded boxes indicate wells with virus neutralization activity >90%.

Serum dilution		151	152	153	154	155	Virus control	Cell control	VN50
1:12	A	27,4	105,2	62,6	108,1	122,0	100	0	50
1:24	B	54,0	106,8	67,8	108,1	124,8			
1:48	C	80,5	111,9	75,2	109,1	106,6			
1:96	D	98,4	107,1	81,0	115,5	99,7			
1:192	E	91,5	113,3	73,7	92,9	115,5			
1:384	F	87,7	104,3	94,0	100,1	94,3			
1:768	G	98,9	91,0	88,7	95,7	97,0			
1:1536	H	93,2	85,6	90,9	95,1	90,5			

**Table 18: Pseudovirus neutralization activity of sera generated from female rats in group 6**

Neutralization activity of each serum at a given serum dilution is calculated as % infectivity compared to the virus control. Green shaded boxes indicate wells with virus neutralization activity >50%; red shaded boxes indicate wells with virus neutralization activity >90%.

Serum dilution		166	167	168	169	170	Virus control	Cell control	VN50
1:12	A	143,0	101,3	134,0	4,0	31,0	100	0	50
1:24	B	90,6	109,4	104,8	14,6	61,7			
1:48	C	89,5	90,8	101,5	31,7	80,6			
1:96	D	90,7	89,6	106,1	52,1	93,8			
1:192	E	90,3	86,8	93,5	66,8	99,5			
1:384	F	96,0	104,4	101,0	77,5	92,4			
1:768	G	89,7	97,3	101,2	84,5	101,2			
1:1536	H	89,0	91,5	94,9	87,0	89,8			

**Table 19: Pseudovirus neutralization activity of sera generated from male rats in group 7**

Neutralization activity of each serum at a given serum dilution is calculated as % infectivity compared to the virus control. Green shaded boxes indicate wells with virus neutralization activity >50%; red shaded boxes indicate wells with virus neutralization activity >90%.

Serum dilution		181	182	183	184	185	Virus control	Cell control	VN50
1:12	A	0,2	0,0	0,0	0,0	0,0	100	0	50
1:24	B	0,2	1,2	0,7	0,0	0,0			
1:48	C	2,1	0,2	0,7	0,5	1,2			
1:96	D	11,5	0,0	0,9	1,2	0,2			
1:192	E	29,7	3,3	5,9	9,9	2,1			
1:384	F	63,6	16,3	22,9	23,6	10,8			
1:768	G	101,1	46,2	54,4	57,7	37,5			
1:1536	H	131,2	88,8	91,4	91,2	77,3			

**Table 20: Pseudovirus neutralization activity of sera generated from female rats in group 7**

Neutralization activity of each serum at a given serum dilution is calculated as % infectivity compared to the virus control. Green shaded boxes indicate wells with virus neutralization activity >50%; red shaded boxes indicate wells with virus neutralization activity >90%.

Serum dilution		196	197	198	199	200	Virus control	Cell control	VN50
1:12	A	0,0	0,0	0,2	0,0	0,0	100	0	50
1:24	B	0,0	0,2	0,2	0,0	0,0			
1:48	C	0,0	0,4	0,9	0,0	0,0			
1:96	D	0,0	0,0	1,3	1,1	0,0			
1:192	E	0,0	0,2	4,9	0,7	1,8			
1:384	F	2,9	5,3	15,5	4,0	9,9			
1:768	G	9,9	16,1	44,4	12,2	20,8			
1:1536	H	41,8	38,7	85,3	22,1	58,6			