

Experiment Number: 03038 - 04
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Sodium Tungstate Dihydrate
CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
Time Report Requested: 10:11:56
First Dose M/F: 01/17/12 / 01/16/12
Lab: BAT

Final Version 2

NTP Study Number: C03038
Lock Date: 05/25/2016
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.3_002
PWG Approval Date: NONE

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| B6C3F1/N MICE MALE | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | males (cont...) |
|--------------------|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|
| | | 0 7 3 2 | 0 7 1 3 | 0 7 3 2 | 0 6 9 4 | 0 7 3 0 | 0 6 1 3 | 0 7 3 1 | 0 6 8 8 | 0 6 3 9 | 0 6 6 2 | 0 7 5 4 | 0 5 7 6 | 0 7 3 3 | 0 6 1 3 | 0 7 3 1 | 0 7 3 3 | 0 6 9 8 | 0 6 8 3 | 0 6 3 3 | 0 7 3 0 | 0 7 7 3 | 0 7 3 2 | 0 7 3 0 | |
| 0 mg/L | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gallbladder | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum Pigment | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum Inflammation, Chronic Active Ulcer Peyer's Patch, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver Angiectasis Basophilic Focus Clear Cell Focus Eosinophilic Focus Extramedullary Hematopoiesis Fatty Change, Diffuse Infiltration Cellular, Mixed Cell | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | 2 | | | | | | | | | | | |
| | X | | X | | X | | X | | | | | | X | | X | X | | X | X | | X | X | |
| | | | | | X | X | X | | X | | | | X | X | X | X | | X | X | | X | X | X |
| | | | 1 | | | | | | | | | | | | 1 | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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| B6C3F1/N MICE MALE 0 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|-----------|--------------------|
| | 0 7 3 2 | 0 7 1 3 | 0 7 3 2 | 0 6 9 4 | 0 7 3 0 | 0 6 1 3 | 0 7 3 1 | 0 6 6 8 | 0 6 3 9 | 0 6 6 2 | 0 7 0 4 | 0 5 9 6 | 0 7 3 2 | 0 7 3 1 | 0 6 1 3 | 0 7 3 1 | 0 7 3 0 | 0 6 6 4 | 0 6 8 0 | 0 7 3 0 | 0 7 3 1 | 0 7 0 3 | 0 7 3 2 | 0 7 3 0 | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cardiomyopathy | | | | 2 | | | | | 1 | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| Atrium, Thrombus | | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| Coronary Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia | 1 | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypertrophy | 1 | | | | | 1 | 1 | | | 1 | | | 1 | 1 | | 1 | 1 | | | 1 | | | 1 | 1 | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcapsular, Hyperplasia | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Islets, Pancreatic | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | | | |
| Hyperplasia | 1 | | 1 | | 1 | 4 | 3 | 3 | | | | | 2 | | | | 2 | 2 | | 1 | 1 | | 1 | 1 | | | |
| Parathyroid Gland | + | + | + | + | M | + | + | + | + | + | M | + | + | M | + | + | + | + | + | + | + | + | + | + | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | M | + | + | | | |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Follicle, Cyst | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Follicle, Degeneration | | | 1 | 1 | | | | | | | | | | 1 | | 1 | | | 1 | | 1 | | | 1 | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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| B6C3F1/N MICE MALE | DAY ON TEST | 0 mg/L | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|--------------------|-------------|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 6 | 6 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | 0 |
| | 3 | 1 | 3 | 9 | 3 | 1 | 3 | 6 | 8 | 3 | 0 | 9 | 3 | 3 | 1 | 3 | 3 | 3 | 9 | 8 | 3 | 3 | 0 | 3 | 3 | 0 | 0 | 0 |
| | 2 | 3 | 2 | 4 | 0 | 3 | 1 | 8 | 9 | 2 | 4 | 6 | 2 | 1 | 3 | 1 | 0 | 1 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 0 | 0 | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|---|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Granuloma Sperm | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2 |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Cyst | | X | | | | | X | | | X | | | | | | X | | | | | | | | X | | | | |
| Inflammation, Suppurative | | | | | | | | | 4 | 3 | | | | | | | | | | | | | 4 | | 4 | | | |
| Inflammation, Chronic Active | | | | | | | | 4 | | | | 4 | | | | | | | | | | | | | 1 | | | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 |
| Testis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Germinal Epithelium, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Germinal Epithelium, Pigment | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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| B6C3F1/N MICE MALE 0 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | | | | | | | | | | | | | | | | |
|-----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | 0 7 3 2 | 0 7 1 3 | 0 7 3 2 | 0 6 9 4 | 0 7 3 1 | 0 6 3 3 | 0 7 6 8 | 0 6 3 1 | 0 6 8 9 | 0 6 3 2 | 0 7 5 4 | 0 6 3 6 | 0 7 7 1 | 0 6 3 3 | 0 7 7 1 | 0 6 3 3 | 0 7 7 6 | 0 6 6 8 | 0 7 3 3 | 0 7 3 0 | 0 7 3 1 | 0 6 7 0 | 0 6 6 4 | 0 7 6 0 | 0 7 7 1 | | | 0 6 8 2 | 0 6 3 0 | 0 7 3 3 | 0 7 7 0 | 0 6 6 4 | 0 7 3 1 | 0 7 3 2 | 0 6 3 4 | 0 7 3 5 | 0 6 3 6 | 0 7 6 7 | 0 6 3 8 | 0 7 6 9 | 0 6 3 0 | 0 7 6 1 | 0 6 3 2 |
| Bone Marrow | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypercellularity | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Neutrophil | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extramedullary Hematopoiesis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Neutrophil | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphatic Sinus, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extramedullary Hematopoiesis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pulp, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 6 | 6 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | | |
| | 3 | 1 | 3 | 9 | 3 | 1 | 3 | 6 | 8 | 3 | 0 | 9 | 3 | 3 | 1 | 3 | 3 | 3 | 9 | 8 | 3 | 3 | | |
| | 2 | 3 | 2 | 4 | 0 | 3 | 1 | 8 | 9 | 2 | 4 | 6 | 2 | 1 | 3 | 1 | 0 | 1 | 4 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|---|---|---|
| White Pulp, Atrophy | | | | | | | | | 3 | | | | | | | | 3 | | | | | | | | | | | | | | | |
| White Pulp, Hyperplasia | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | 2 | |
| Thymus | + | + | M | + | + | + | + | M | + | + | + | + | + | M | + | + | + | + | + | + | + | + | | | | | | | | M | + | + |
| Atrophy | | 4 | | | | | 4 | | | | | 3 | 4 | 3 | 1 | 3 | | | | | | | | | | | | | | | | |
| Hyperplasia, Atypical, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Mammary Gland | M | M | M | M | M | M | M | M | + | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Subcutaneous Tissue, Edema | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Fibro-Osseous Lesion | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Increased Bone | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Joint, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hemorrhage | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | |
| Thrombus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 03038 - 04

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 06/26/2019

Time Report Requested: 10:11:56

First Dose M/F: 01/17/12 / 01/16/12

Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B6C3F1/N MICE MALE | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 6 | 6 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| | | 3 | 1 | 3 | 9 | 3 | 1 | 3 | 6 | 8 | 3 | 0 | 9 | 3 | 3 | 1 | 3 | 3 | 3 | 9 | 8 | 3 | 3 | 0 | 3 | 3 |
| 0 mg/L | ANIMAL ID | 2 | 3 | 2 | 4 | 0 | 3 | 1 | 8 | 9 | 2 | 4 | 6 | 2 | 1 | 3 | 1 | 0 | 1 | 4 | 0 | 0 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |
| males (cont...) | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pigment | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombus | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Suppurative | | | | | | | | | | | | | 1 | | | | | | | | | | | | |
| Polyp, Inflammatory | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Olfactory Epithelium, Metaplasia, Respiratory | 1 | | 1 | | 2 | | | 1 | | | 1 | | | | | 1 | | 1 | | | 1 | | | | 1 |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | 2 | | 1 | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Bacteria | | | | | | | | | | | | | | | | | | | | | | | | | |
| Glomerulosclerosis | | | | | | | | | | | | 3 | | | | | | | | | | | | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | 1 | | 2 |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | 2 | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 03038 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
 Time Report Requested: 10:11:56
 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE MALE | DAY ON TEST | 0 mg/L | | | | | | | | | | | | | | | | | | | | males (cont...) | | | | | |
|--------------------------------------|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|
| | | 0 7 3 2 | 0 7 1 3 | 0 7 3 2 | 0 6 9 4 | 0 7 3 0 | 0 6 1 3 | 0 7 3 1 | 0 6 8 8 | 0 6 6 9 | 0 7 3 2 | 0 6 8 4 | 0 7 5 6 | 0 7 3 2 | 0 7 7 1 | 0 6 3 3 | 0 7 3 1 | 0 7 3 0 | 0 6 3 4 | 0 6 9 0 | 0 6 8 0 | | 0 7 3 1 | 0 7 0 3 | 0 7 3 2 | 0 7 3 3 | |
| ANIMAL ID | | 0 0 0 0 1 | 0 0 0 0 2 | 0 0 0 0 3 | 0 0 0 0 4 | 0 0 0 0 5 | 0 0 0 0 6 | 0 0 0 0 7 | 0 0 0 0 8 | 0 0 0 0 9 | 0 0 0 1 0 | 0 0 0 1 1 | 0 0 0 1 2 | 0 0 0 1 3 | 0 0 0 1 4 | 0 0 0 1 5 | 0 0 0 1 6 | 0 0 0 1 7 | 0 0 0 1 8 | 0 0 0 1 9 | 0 0 0 2 0 | 0 0 0 2 1 | 0 0 0 2 2 | 0 0 0 2 3 | 0 0 0 2 4 | 0 0 0 2 5 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineral | | 1 | 1 | 1 | | | | | 1 | | | | | | | | 1 | | | | | | 1 | | | | |
| Nephropathy, Chronic Progressive | | 1 | 2 | 1 | | 1 | | 1 | 1 | 4 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Pigment | | | | | 1 | | | 1 | 1 | 1 | | | 1 | 1 | | 1 | | | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 |
| Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Papilla, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Dilation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Inflammation, Suppurative | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | |
| Pelvis, Inflammation, Chronic Active | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Cyst | | X | | | | X | | | | | | | | | | | | | | | | X | | | | | |
| Renal Tubule, Regeneration | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| Ureter | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urethra | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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 1) Minimal 3) Moderate
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Experiment Number: 03038 - 04
 Test Type: CHRONIC
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| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------|
| B6C3F1/N MICE MALE | DAY ON TEST | 0730 | 0589 | 0697 | 0503 | 0773 | 0773 | 0773 | 0556 | 0557 | 0776 | 0776 | 0776 | 0673 | 0766 | 0666 | 0666 | 0773 | 0773 | 0446 | 0557 | 0773 | 0773 | 0773 | * TOTALS |
| | | 0309 | 0897 | 0902 | 0031 | 0331 | 0331 | 0641 | 0051 | 0332 | 0332 | 0678 | 0332 | 0735 | 0662 | 0662 | 0662 | 0331 | 0331 | 0668 | 0558 | 0732 | 0332 | 0331 | |
| | ANIMAL ID | 0002 | 0002 | 0002 | 0002 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0005 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------|
| Esophagus Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 2.0 |
| Gallbladder | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | 48 | |
| Intestine Large, Cecum Pigment | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 3 1.0 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Jejunum Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 4.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | 4 | | | | 1 4.0 |
| Peyer's Patch, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 4 | | | | 1 4.0 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Basophilic Focus | | | | | | | | | | | | | | | | | X | X | | | | | | | | 2 |
| Clear Cell Focus | | | | | X | X | | | | | | | | | | X | | | X | | | X | | | | 16 |
| Eosinophilic Focus | X | X | X | X | X | X | | | | | X | | | | X | | | | | | | X | | | | 23 |
| Extramedullary Hematopoiesis | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | | | 4 1.0 |
| Fatty Change, Diffuse | | | | | | | | | | | | | 4 | | | | | | | | | | | | | 2 2.5 |
| Infiltration Cellular, Mixed Cell | | | | | | 1 | | | | | | | | | | | | | | | | | | | | 1 1.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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Experiment Number: 03038 - 04
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 CAS Number: 10213-10-2

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 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE MALE 0 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|----------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 7 | 5 | 6 | 5 | 7 | 7 | 7 | 5 | 5 | 7 | 7 | 6 | 7 | 6 | 6 | 6 | 7 | 7 | 4 | 5 | 7 | 7 | 7 | | |
| | 3 | 8 | 9 | 0 | 3 | 3 | 3 | 6 | 0 | 3 | 3 | 2 | 3 | 7 | 3 | 8 | 6 | 3 | 3 | 6 | 7 | 3 | 3 | | |
| | 0 | 9 | 7 | 2 | 1 | 1 | 1 | 4 | 5 | 1 | 2 | 2 | 8 | 2 | 5 | 2 | 9 | 6 | 2 | 1 | 8 | 8 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 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 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |
| Mineral Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Fatty Change, Focal | | | | 2 | | | | | | 1 | | | | | | | | | | | | | | | |
| Hepatocyte, Necrosis | | | | 1 | | | | | | | | | | | | | | | | | 2 | | 4 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular Erosion | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tooth Dental Dysplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically M .. Missing tissue
 X .. Lesion present A .. Autolysis precludes evaluation
 I .. Insufficient tissue BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 03038 - 04

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Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------------|---|--|
| B6C3F1/N MICE MALE 0 mg/L | DAY ON TEST | 0 7 | 0 5 | 0 6 | 0 5 | 0 7 | 0 7 | 0 7 | 0 5 | 0 5 | 0 7 | 0 7 | 0 6 | 0 7 | 0 6 | 0 6 | 0 6 | 0 7 | 0 7 | 0 4 | 0 5 | 0 7 | 0 7 | 0 7 | * TOTALS | | |
| | | 3 | 8 | 9 | 0 | 3 | 3 | 3 | 6 | 0 | 3 | 3 | 2 | 3 | 7 | 3 | 8 | 6 | 3 | 3 | 6 | 7 | 3 | 3 | | | |
| | | 0 | 9 | 7 | 2 | 1 | 1 | 1 | 4 | 5 | 1 | 2 | 2 | 8 | 2 | 5 | 2 | 9 | 6 | 2 | 1 | 8 | 8 | 2 | | 1 | |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cardiomyopathy | | | | | | | | | 1 | | | 1 | | 1 | | 1 | | | | | 1 | | | | 7 1.1 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Atrium, Thrombus | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Coronary Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 2.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|---------------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | 1 | | | | | | | | 2 | | | | | | | | | | 1 | 5 1.2 | |
| Hypertrophy | | 1 | 1 | | | 1 | | | | | | 1 | | | | | | 1 | | | | 1 | 1 | | 19 1.0 | |
| Necrosis | | | | | | | | | 1 | | | | | | | | | | | | | | | | 1 1.0 | |
| Subcapsular, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Hyperplasia | 4 | 3 | 1 | 3 | 1 | 1 | 1 | 1 | 3 | 2 | 3 | 1 | | 2 | | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 37 1.8 |
| Parathyroid Gland | + | M | + | + | + | + | + | + | M | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | 44 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | 1 | | | | | | | | | | | 2 1.0 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Follicle, Degeneration | | | 1 | | | | | 1 | | | | | | | | | 1 | 1 | | | | | | 1 | 12 1.0 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 03038 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
 Time Report Requested: 10:11:56
 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE MALE 0 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|-----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|--------|
| | 0730 | 0738 | 0739 | 0750 | 0757 | 0771 | 0777 | 0777 | 0777 | 0754 | 0755 | 0771 | 0777 | 0777 | 0766 | 0777 | 0766 | 0766 | 0777 | 0777 | | | 0744 | 0755 | 0777 |
| ANIMAL ID | 00026 | 00027 | 00028 | 00029 | 00030 | 00031 | 00032 | 00033 | 00034 | 00035 | 00036 | 00037 | 00038 | 00039 | 00040 | 00041 | 00042 | 00043 | 00044 | 00045 | 00046 | 00047 | 00048 | 00049 | 00050 |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | | | | | | | | | | | 3 | | | | | | | | | | | | | | 1 3.0 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hypercellularity | | | | | | 1 | | | | 2 | 1 | 1 | | | 1 | | 1 | 1 | 1 | 2 | | 1 | 1 | | 15 1.2 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Hyperplasia, Lymphocyte | 3 | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Hyperplasia, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Infiltration Cellular, Neutrophil | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | 3 | 3 | | 2 3.0 |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Pigment | | | | | | | | | | | | | | | 2 | | | | | | | | | | 1 2.0 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | | | | | | | | | | | 2 | | | | | | | | | | | | | | 2 1.5 |
| Atrophy | | | | | | | | | | | | | | | 4 | | | | | | | | | | 4 3.3 |
| Extramedullary Hematopoiesis | | | 3 | | | | | | | | | | 1 | | | | | | | | | | | | 4 1.5 |
| Hyperplasia, Lymphocyte | | | | | | | | | | | | | | | 4 | | | | | 4 | | | | | 3 3.7 |
| Infiltration Cellular, Neutrophil | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | 4 | | | | | | 2 2.5 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Lymphatic Sinus, Ectasia | | | | | | | | | | | | | | | | | | | | 2 | | | | | 1 2.0 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Extramedullary Hematopoiesis | | | | | | | | | | 1 | | | 1 | 1 | 2 | | | | | 1 | | | 2 | | 10 1.4 |
| Red Pulp, Atrophy | | | 3 | 2 | 2 | | | | 2 | | | | | | | | | | | | | | | | 6 2.5 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 03038 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
 Time Report Requested: 10:11:56
 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE MALE | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| 0 mg/L | | 0730 | 0738 | 0739 | 0740 | 0753 | 0757 | 0773 | 0775 | 0777 | 0785 | 0785 | 0791 | 0793 | 0795 | 0797 | 0803 | 0803 | 0807 | 0807 | 0813 | | | 0813 | 0817 | 0817 | 0823 | 0823 | 0827 | 0827 | 0833 | 0833 | 0837 | 0837 |
| ANIMAL ID | | 00026 | 00007 | 00008 | 00009 | 00010 | 00011 | 00012 | 00013 | 00014 | 00015 | 00016 | 00017 | 00018 | 00019 | 00020 | 00021 | 00022 | 00023 | 00024 | 00025 | 00026 | 00027 | 00028 | 00029 | 00030 | 00031 | 00032 | 00033 | 00034 | 00035 | 00036 | | |
| White Pulp, Atrophy | | | 3 | 1 | 1 | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | 8 |
| White Pulp, Hyperplasia | | 2 | | | | | | 1 | | | | | | | | | | 1 | | | | | | | | | | | | | | | 3 | |
| Thymus | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 | |
| Atrophy | | | 4 | 3 | 4 | | 4 | | | | | | 4 | | | | | 4 | 3 | | 2 | 4 | | | | | | | 4 | 3 | | | 19 | |
| Hyperplasia, Atypical, Lymphocyte | | | | | | | | | | | 4 | | | | 4 | | | | | | | | | | | | | | | | | | 2 | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| Mammary Gland | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 1 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Subcutaneous Tissue, Edema | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Fibro-Osseous Lesion | | | | | | 1 | | | | | | | | | | | | | | | 1 | | | | | | | 1 | | | | | | 4 |
| Increased Bone | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | 2 |
| Joint, Degeneration | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | 2 | |
| Thrombus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 03038 - 04

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 06/26/2019

Time Report Requested: 10:11:56

First Dose M/F: 01/17/12 / 01/16/12

Lab: BAT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--------------------|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| ANIMAL ID | | 7 | 5 | 6 | 5 | 7 | 7 | 7 | 5 | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 6 | 6 | 7 | 7 | 4 | 5 | 7 | 7 | 7 | |
| B6C3F1/N MICE MALE | 0 mg/L | 3 | 8 | 9 | 0 | 3 | 3 | 3 | 6 | 0 | 3 | 3 | 3 | 2 | 3 | 7 | 3 | 8 | 6 | 3 | 3 | 6 | 7 | 3 | 3 | 3 | |
| | | 0 | 9 | 7 | 2 | 1 | 1 | 1 | 4 | 5 | 1 | 2 | 2 | 8 | 2 | 5 | 2 | 9 | 6 | 2 | 1 | 8 | 8 | 2 | 2 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 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 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | * TOTALS |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------|------------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Pigment | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | 1 | 1.0 |
| Thrombus | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Alveolar Epithelium, Hyperplasia | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Polyp, Inflammatory | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Olfactory Epithelium, Metaplasia, Respiratory | | | 1 | 1 | | 1 | | | 1 | 1 | | | | | | | 1 | 1 | 1 | 1 | | 2 | | | | | 19 | 1.1 |
| Respiratory Epithelium, Hyperplasia | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1.5 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--|--|--|----------|
| Ear | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------|------------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Bacteria | | | | | | | | | | | | | | | | | X | | | | | X | | | | | 2 | |
| Glomerulosclerosis | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | 2 | 2.0 |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1.7 |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | 1 | 2.0 |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | 1 | 2.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 03038 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
 Time Report Requested: 10:11:56
 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|--------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|
| | 0730 | 0738 | 0739 | 0750 | 0757 | 0771 | 0777 | 0777 | 0755 | 0755 | 0777 | 0777 | 0777 | 0766 | 0777 | 0766 | 0766 | 0766 | 0777 | 0777 | | 0744 | 0755 | 0777 | 0777 |
| 0 mg/L | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | 0036 | 0037 | 0038 | 0039 | 0040 | 0041 | 0042 | 0043 | 0044 | 0045 | 0046 | 0047 | 0048 | 0049 | 0050 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Metaplasia, Osseous | 1 | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Mineral | | 2 | 1 | 1 | 1 | | | 1 | | | 1 | 1 | | 1 | 1 | | | 1 | 1 | | | | 1 | | 18 |
| Nephropathy, Chronic Progressive | 1 | | 1 | 3 | 1 | 2 | 1 | 1 | | 3 | 1 | 2 | | 2 | 1 | 1 | 1 | 1 | 2 | 1 | | 1 | 1 | 1 | 4 |
| Pigment | 1 | | 1 | | 1 | 1 | 1 | 1 | | 1 | | 1 | | 1 | 1 | 2 | | 1 | 1 | 1 | | 1 | 1 | 1 | 30 |
| Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Papilla, Necrosis | | | | | | | | | | 4 | | | | | | | | | | | | | | | 1 |
| Pelvis, Dilation | | | | 3 | | | | | | | | | | | | | | | | | 3 | | | 3 | 3 |
| Pelvis, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pelvis, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2 |
| Renal Tubule, Cyst | | | | | | | | | | X | | | | | | | | | | | | | X | 5 | |
| Renal Tubule, Regeneration | 1 | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Ureter | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Urethra | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 |
| Urinary Bladder | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
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 2) Mild 4) Marked

Experiment Number: 03038 - 04
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Route: DOSED WATER
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CAS Number: 10213-10-2

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Time Report Requested: 10:11:56
First Dose M/F: 01/17/12 / 01/16/12
Lab: BAT

| B6C3F1/N MICE MALE 500 mg/L | DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | males (cont...) | | | | | |
|-----------------------------------|---|---|--|--|---|---|--|---|---|--|--|---|--|--|---|---|--|--|--|--|--|--------------------|--|--|--|---|---|
| | | 7 7 7 7 7 4 7 4 4 7 7 7 7 7 5 7 7 7 5 6 7 6 7 7 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 3 0 3 3 3 5 3 4 8 3 3 3 3 3 9 3 3 3 3 5 3 9 3 3 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 7 7 7 7 7 7 7 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Fatty Change, Focal | 1 | | | | | | | | | | | | | | | 2 | | | | | | | | | | 1 | |
| Hepatocyte, Necrosis | | | | | 1 | 2 | | 1 | | | | 1 | | | 1 | | | | | | | | | | | 2 | |
| Mesentery Polyarteritis Nodosa | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Mineral | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Polyarteritis Nodosa | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tooth Dental Dysplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically M .. Missing tissue 1-4 .. Lesion qualified as:
 X .. Lesion present A .. Autolysis precludes evaluation 1) Minimal 3) Moderate
 I .. Insufficient tissue BLANK .. Not examined microscopically 2) Mild 4) Marked

Experiment Number: 03038 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
 Time Report Requested: 10:11:56
 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|--------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0731 | 0739 | 0771 | 0773 | 0773 | 0775 | 0773 | 0774 | 0774 | 0774 | 0777 | 0774 | 0774 | 0777 | 0773 | 0773 | 0773 | 0773 | 0775 | 0776 | 0777 | 0776 | 0777 | 0777 | 0776 | | |
| 500 mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | | |

Polyarteritis Nodosa

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Acute | | | | | | | | | | | | | | 1 | | | | | | | | | | |
| Polyarteritis Nodosa | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombus | | | | | | | | | | | | | | X | | | | | | | | | | |
| Atrium, Thrombus | | | | | | | | | | | | | | | | | | | | | | X | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Accessory Adrenal Cortical Nodule | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Extramedullary Hematopoiesis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | 1 | | | | | | | 4 | | 1 | | | | | | | | | | | | |
| Hypertrophy | 1 | | | 1 | 1 | | | | | | | | 1 | | 1 | | | 1 | | 1 | | | | 1 | |
| Necrosis | | | | | | 4 | | | | | | | | | | | | | | | | | | | |
| Subcapsular, Hyperplasia | | | | 4 | | | | | | 4 | | | | | 2 | | | 2 | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | 2 | 4 | | 1 | 1 | | | 2 | 2 | | | | | | 3 | 1 | 2 | 1 | | 1 | 3 | 1 | 2 |
| Parathyroid Gland | M | + | + | + | M | M | + | M | + | + | + | + | + | + | M | + | + | + | + | M | + | + | + | + | |
| Cyst | | | | | | | | | | | | | | | | | | | | X | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | X | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 03038 - 04
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Sodium Tungstate Dihydrate
CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
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Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------------|
| B6C3F1/N MICE MALE | DAY ON TEST | 0 7 3 1 | 0 7 0 9 | 0 7 3 1 | 0 7 3 0 | 0 7 3 5 | 0 7 3 2 | 0 7 4 0 | 0 7 4 1 | 0 7 4 2 | 0 7 7 2 | 0 7 7 1 | 0 7 7 0 | 0 7 7 1 | 0 7 7 6 | 0 7 5 2 | 0 7 7 2 | 0 7 7 2 | 0 7 5 6 | 0 7 6 0 | 0 7 6 4 | 0 7 6 0 | 0 7 7 2 | 0 7 7 3 | 0 7 6 1 | males (cont...) |
| | ANIMAL ID | 0 0 0 5 1 | 0 0 0 5 2 | 0 0 0 5 3 | 0 0 0 5 4 | 0 0 0 5 5 | 0 0 0 5 6 | 0 0 0 5 7 | 0 0 0 5 8 | 0 0 0 5 9 | 0 0 0 6 0 | 0 0 0 6 1 | 0 0 0 6 2 | 0 0 0 6 3 | 0 0 0 6 4 | 0 0 0 6 5 | 0 0 0 6 6 | 0 0 0 6 7 | 0 0 0 6 8 | 0 0 0 6 9 | 0 0 0 7 0 | 0 0 0 7 1 | 0 0 0 7 2 | 0 0 0 7 3 | 0 0 0 7 4 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pars Distalis, Hyperplasia | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland C-cell, Hyperplasia Follicle, Degeneration | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + |
| | 2 | | | | | 1 | | | | | | | | | | 1 | | 1 | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis Atrophy Granuloma Sperm Inflammation, Chronic Active Spermatocoele | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | |
| Preputial Gland Cyst Inflammation, Suppurative Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | X | X | X | X | X | X | X | X | X | | |
| | 1 | | | | | 2 | | | | | | | | | | 4 | | 4 | | | | | | | | | | | | | | | | | | | | | | |
| Prostate Hyperplasia Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 2 | | | | | | | | | | | | | | | | | 2 | | 2 | | | | | | | | | | | | | | | | | | | | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Testis Inflammation, Suppurative | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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 M .. Missing tissue
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 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 03038 - 04
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
 Time Report Requested: 10:11:56
 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE MALE 500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|
| | 0731 | 0739 | 0771 | 0773 | 0775 | 0774 | 0777 | 0774 | 0774 | 0777 | 0777 | 0777 | 0777 | 0777 | 0755 | 0777 | 0777 | 0777 | 0755 | 0766 | 0777 | 0766 | 0777 | 0777 | 0766 | | | 0777 |
| Germinal Epithelium, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | | | | | | | | 1 | 1 | | | | | | | | | | | | | | | | | | 1 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hypercellularity | 2 | 1 | 1 | | 1 | 1 | 1 | 1 | | 1 | 2 | 1 | 1 | | 1 | 2 | 2 | 2 | | 2 | 1 | | 2 | 1 | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Hyperplasia, Plasma Cell | | | | | | | | | | | | | | | 3 | | 3 | | | | | | | | | | | |
| Infiltration Cellular, Neutrophil | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Erythrophagocytosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extramedullary Hematopoiesis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Amyloid | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extramedullary Hematopoiesis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pulp, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pulp, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | M | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 03038 - 04

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 06/26/2019

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First Dose M/F: 01/17/12 / 01/16/12

Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B6C3F1/N MICE MALE | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 4 | 4 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 5 | 6 | 7 | 6 | 7 | 7 | 6 |
| | | 3 | 0 | 3 | 3 | 3 | 5 | 3 | 4 | 8 | 3 | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 3 | 5 | 3 | 9 | 3 | 3 | 3 | 1 |
| | | 1 | 9 | 1 | 0 | 2 | 3 | 2 | 0 | 1 | 2 | 2 | 1 | 0 | 1 | 6 | 2 | 2 | 2 | 6 | 0 | 0 | 4 | 0 | 2 | 3 | 3 |
| 500 mg/L | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |

males
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|--|--|--|--|---|--|--|--|--|---|--|--|--|--|--|--|--|--|---|--|--|---|---|--|---|
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis Nodosa | 4 | | | | | 3 | | | | | 4 | | | | | | | | | 4 | | | 3 | 4 | | 4 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Edema | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibro-Osseous Lesion | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis Nodosa | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Artery, Amyloid | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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 Lab: BAT

| B6C3F1/N MICE MALE 500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|--------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0731 | 0739 | 0771 | 0773 | 0775 | 0777 | 0779 | 0781 | 0783 | 0785 | 0787 | 0789 | 0791 | 0793 | 0795 | 0797 | 0799 | 0801 | 0803 | 0805 | 0807 | 0809 | 0811 | 0813 | 0815 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0051 | |
| | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 4 | 4 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 5 | 6 | 7 | 6 | 7 | 7 | 6 | 0052 | |
| | 3 | 0 | 3 | 3 | 3 | 5 | 3 | 4 | 8 | 3 | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 5 | 3 | 9 | 3 | 3 | 3 | 1 | 0053 | |
| | 1 | 9 | 1 | 0 | 2 | 3 | 2 | 0 | 1 | 2 | 2 | 1 | 0 | 1 | 6 | 2 | 2 | 2 | 6 | 0 | 0 | 4 | 0 | 2 | 3 | 0054 | |

Alveolar Epithelium, Hyperplasia
 Alveolus, Pigment

2 4

Nose
 Foreign Body
 Inflammation, Suppurative
 Inflammation, Chronic Active
 Polyp, Inflammatory
 Olfactory Epithelium, Metaplasia, Respiratory
 Respiratory Epithelium, Accumulation, Hyaline Droplet
 Respiratory Epithelium, Hyperplasia

+
 X
 1
 1 1 1 1
 1 1 2 1 1 1
 1 2

Trachea

+ +

SPECIAL SENSES SYSTEM

Eye
 Phthisis Bulbi
 Cornea, Inflammation, Acute
 Lens, Cataract

+
 2

Harderian Gland
 Hyperplasia

+
 2 3

URINARY SYSTEM

Kidney
 Mineral
 Nephropathy, Chronic Progressive
 Pigment

+
 1 1 1 2 1 4 1 1 1 1 1 1 2 1 1 3 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 3 1 1 1 1 1

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 03038 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
 Time Report Requested: 10:11:56
 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE MALE 500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--------------------------------|------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0 5 4 7 | 0 6 9 0 | 0 6 2 9 | 0 7 3 1 | 0 7 3 1 | 0 7 3 2 | 0 7 3 1 | 0 7 3 2 | 0 7 3 2 | 0 7 3 1 | 0 7 3 2 | 0 7 3 1 | 0 6 6 0 | 0 7 3 2 | 0 7 2 3 | 0 7 3 1 | 0 4 9 6 | 0 7 3 1 | 0 7 3 1 | 0 5 7 1 | | 0 7 3 1 | 0 7 3 9 | 0 6 8 0 |
| ANIMAL ID | | 0 0 0 7 6 | 0 0 0 7 7 | 0 0 0 7 8 | 0 0 0 7 8 | 0 0 0 8 8 | 0 0 0 8 8 | 0 0 0 8 8 | 0 0 0 8 8 | 0 0 0 8 8 | 0 0 0 8 8 | 0 0 0 8 8 | 0 0 0 8 8 | 0 0 0 8 8 | 0 0 0 9 9 | 0 0 0 9 9 | 0 0 0 9 9 | 0 0 0 9 9 | 0 0 0 9 9 | 0 0 0 9 9 | 0 0 0 9 9 | 0 0 0 9 9 | 0 0 0 9 9 | 0 0 0 9 9 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Esophagus Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 1.0 |
| Gallbladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | | |
| Intestine Large, Cecum Hemorrhage Pigment | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 4.0 |
| | | | | | | 1 | | 1 | | 1 | | | | 1 | | | | 1 | | | | | | | | 7 | 1.0 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Intestine Large, Rectum Inflammation, Acute | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 1.0 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Angiectasis | | | | | 2 | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Basophilic Focus | | | | | | | | X | | | | | | X | | | | | | X | | X | | | | 5 | |
| Clear Cell Focus | | | | X | | X | X | | X | X | X | | | | | | X | | X | | | | | | | 14 | |
| Eosinophilic Focus | | | | X | | | X | X | X | | X | | | X | X | X | X | | X | X | | | | | | 20 | |
| Extramedullary Hematopoiesis | | | | | 1 | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Infiltration Cellular, Mixed Cell | | | | | | 1 | | | 1 | | | 1 | | 1 | | | | | | | | | | | | 6 | 1.0 |
| Mixed Cell Focus | | | | | | | | X | | | | | X | | | | | | | | | | | | | 4 | |
| Bile Duct, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
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Experiment Number: 03038 - 04
 Test Type: CHRONIC
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 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE MALE 500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|---------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|
| | 0547 | 0662 | 0673 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | | | 0677 | | |
| ANIMAL ID | 00076 | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | 00098 | 00099 | 00100 |
| Hepatocyte, Fatty Change, Focal | | | | | | | | | | | | | | | | | | | | | 3 | 5 | 1.8 | | |
| Hepatocyte, Necrosis | 2 | 1 | | | | | | | | | | | | | | | | | | 1 | 8 | 1.3 | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | 3 | | | |
| Polyarteritis Nodosa | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 | 4.0 |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | 4 | 2 | 3.5 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | 50 | | | |
| Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 1.0 | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | 50 | | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | 50 | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 1.0 | | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | 50 | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Erosion | 1 | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | |
| Mineral | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 1.0 | | |
| Polyarteritis Nodosa | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | | |
| Tooth | | | | | | | | | | | | | | | | | | | | | | 33 | | | |
| Dental Dysplasia | 2 | 3 | | | | | | | | | | | | | | | | | | 1 | 31 | 2.3 | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 3.0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | 50 | |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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| B6C3F1/N MICE MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|-----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-----|--|
| | 0547 | 0690 | 0629 | 0731 | 0772 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | | | | | |
| 500 mg/L | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
| 00076 | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | 00098 | 00099 | | | | |
| Polyarteritis Nodosa | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 4.0 | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cardiomyopathy | | | | | | | | | | | | | | | | 1 | | | | | | | | | 3 | 1.0 | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Polyarteritis Nodosa | | | | | | | | | | | | | | | | | | 4 | | | | | | | 1 | 4.0 | |
| Thrombus | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Atrium, Thrombus | | | X | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | | X | | | | | | | | | | 2 | | |
| Extramedullary Hematopoiesis | | | | | | | | | | | | | | | 1 | | | | | | | | | | 1 | 1.0 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 | | | 4 | 1.8 | |
| Hypertrophy | | | | 1 | | 1 | 2 | | | 1 | 1 | 1 | | | 1 | | 1 | 1 | 4 | | | 2 | 1 | | 20 | 1.3 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Subcapsular, Hyperplasia | | | | | | | | | | | | 2 | 2 | | | | | | | | | | | | 6 | 2.7 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | | | | | | | | 1 | | | | | | | | | | | | | | 1 | 1.0 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | 3 | 2 | 1 | 1 | 1 | 1 | 3 | 3 | 1 | | 3 | 3 | 1 | 2 | | 1 | | 1 | 3 | 4 | | 2 | | 1 | 33 | 1.9 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | 43 | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cyst | | | | | | | | | | | | | X | | | | | | | | | | | | 2 | | |

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 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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| B6C3F1/N MICE MALE 500 mg/L | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | ANIMAL ID | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 4 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 6 | |
| | | 4 | 9 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 9 | 3 | 1 | 3 | 7 | 3 | 3 | 0 | 8 | |
| | | 7 | 0 | 9 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 0 | 2 | 3 | 1 | 6 | 0 | 1 | 1 | 1 | 1 | 9 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|--|
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 2.5 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Follicle, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1.3 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 8 | 1.3 | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 2.0 | |
| Granuloma Sperm | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 2.0 | |
| Spermatocele | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 4.0 | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | X | 16 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 3 | 13 | 3.7 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Testis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | 1.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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|-----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|---|-----------|------------|-----------|------------|------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | | | | | |
| | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 4 | 7 | 7 | | | 7 | 5 | 7 | 7 | 7 | 6 |
| ANIMAL ID | 4 | 9 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 2 | 3 | 9 | 3 | 1 | 3 | 7 | 3 | 3 | 0 | 8 | | | |
| | 7 | 0 | 9 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 0 | 2 | 3 | 1 | 6 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 9 | 0 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 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 | | | |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | | |
| Germinal Epithelium, Degeneration | | | | 2 | 1 | 1 | 1 | | 1 | 1 | 1 | | 1 | 2 | 2 | 1 | | | | | 1 | | | | | 20 | 1.3 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hypercellularity | | | | 1 | 4 | | | 2 | 2 | 1 | 1 | 1 | 1 | | 2 | | 4 | 1 | 2 | 2 | | | | 2 | 3 | 3 | 35 | 1.7 |
| Lymph Node | | | | | | + | | + | | | | | | + | | + | | | | | | | | | | 4 | | |
| Hyperplasia, Lymphocyte | | | | | | 3 | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Lymph Node, Mandibular | | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Hyperplasia, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 4 | 2.5 | |
| Infiltration Cellular, Neutrophil | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | 1.0 | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Lymph Node, Mesenteric | | + | | M | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | 46 | | | |
| Atrophy | | | | | | | | | | | | | | 3 | | | | | | | | | | 3 | | 4 | 3.0 | |
| Erythrophagocytosis | | | | | | 1 | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Extramedullary Hematopoiesis | | | | 1 | | | | | | | | | | | | | | 1 | | 2 | | 1 | | 1 | | 5 | 1.2 | |
| Hemorrhage | | | | | | | | | | | | | | 2 | | | | | | | | | | 3 | | 2 | 2.5 | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | 4 | | | | | | | | 1 | 4.0 | |
| Spleen | | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Amyloid | | | | | | | | | | | | | | | | 4 | | | | | | | | | | 1 | 4.0 | |
| Extramedullary Hematopoiesis | | 2 | | 2 | 2 | 1 | | | | | | | | 1 | | 1 | 1 | 2 | | | | 2 | | 17 | 1.4 | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Red Pulp, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 4.0 | |
| White Pulp, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 6 | 3.3 | |
| Thymus | | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | M | + | + | I | 44 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 03038 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
 Time Report Requested: 10:11:56
 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE MALE | 500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--------------------|----------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|--|
| | | 0547 | 0667 | 0677 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | | 0777 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|-----|-----|
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 14 | 3.5 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Polyarteritis Nodosa | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Mammary Gland | M | M | M | M | M | M | M | M | M | M | M | M | M | M | + | M | M | M | M | M | M | M | M | M | M | 2 | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Subcutaneous Tissue, Edema | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.0 |
| Subcutaneous Tissue, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Fibro-Osseous Lesion | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1.0 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 |
| Polyarteritis Nodosa | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Artery, Amyloid | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 03038 - 04
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 Lab: BAT

| B6C3F1/N MICE MALE 500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-----|--------|-------|
| | 057 | 066 | 067 | 073 | 073 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | | 077 | | |
| ANIMAL ID | 00076 | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | 00098 | 00099 | 00100 | | | |
| Polyarteritis Nodosa | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 4.0 | |
| Glomerulus, Amyloid | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 |
| Pelvis, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Pelvis, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Renal Tubule, Cyst | | | | | | | | | | | X | | X | | | | | | | | | | | | | | 7 | |
| Renal Tubule, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3 1.0 |
| Renal Tubule, Regeneration | 1 | | 2 | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | | 2 | 2 | | | 1 | | 1 | 1 | 2 | | 21 1.4 | |
| Urinary Bladder Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 2.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 X .. Lesion present
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1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B6C3F1/N MICE MALE | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | |
| 1000 mg/L | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

males
(cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | |
| Gallbladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | |
| Intestine Large, Cecum Edema Pigment | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | |
| | 1 | | | 1 | | 1 | | | | | | | | | 1 | | 1 | 1 | | | | 1 | 1 | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon Edema Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | |
| Intestine Small, Ileum Edema | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | |
| Intestine Small, Jejunum Peyer's Patch, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | |
| Liver Basophilic Focus Clear Cell Focus Eosinophilic Focus Extramedullary Hematopoiesis Fatty Change, Diffuse Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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 + .. Tissue examined microscopically
 X .. Lesion present
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1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 03038 - 04
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Sodium Tungstate Dihydrate
CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
Time Report Requested: 10:11:56
First Dose M/F: 01/17/12 / 01/16/12
Lab: BAT

| B6C3F1/N MICE MALE 1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | |
|--------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--|
| | 0731 | 0621 | 0698 | 0732 | 0778 | 0776 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0673 | 0777 | 0777 | 0777 | 0676 | 0777 | 0777 | | |
| Hyperplasia, Nodular | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | 1 | | | 1 | | | | | | | | 3 | | | |
| Mixed Cell Focus | | | | | | | | X | | | X | | | X | | | | | | | X | | | |
| Hepatocyte, Fatty Change, Focal | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Hepatocyte, Necrosis | | | 1 | | | | | 3 | | | | | | | | | | | | | 3 | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | |
| Artery, Inflammation, Chronic Active | | | + | | | | | | | + | | | + | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 3 | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | + | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | + | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Mast Cell | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineral | | | | | | | | | | | | | | | | | | | | | | | | |
| Glands, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Tooth | | | | | | | | | | | | | | | | | | | | | | | | |
| Dental Dysplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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X .. Lesion present
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 Lab: BAT

| B6C3F1/N MICE MALE 1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|---------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0731 | 0621 | 0608 | 0703 | 0702 | 0708 | 0603 | 0708 | 0701 | 0702 | 0707 | 0707 | 0703 | 0703 | 0703 | 0703 | 0609 | 0703 | 0702 | 0703 | 0703 | 0605 | 0703 | 0703 | 0707 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0001 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0000 | |
| | 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 | 0001 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0000 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 2 | 2 | 2 | 0001 | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 1 | | | | | | | | | | | | | 1 | 1 | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| Mineral | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accessory Adrenal Cortical Nodule | | | | | | | | | X | | | | | | | | | | | | | | | |
| Angiectasis | 4 | | | | | | | | | | | | | | | | | | | | | | | |
| Extramedullary Hematopoiesis | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | 1 | | | | | | | | | | | | | | 2 | | | | | | | | |
| Hypertrophy | | | | 1 | | | | 1 | 1 | 1 | | | 1 | 1 | 1 | | | | 1 | | 1 | | 1 | |
| Subcapsular, Hyperplasia | | | | | | | | | | | | | | | | | | 4 | | | | 3 | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | 1 | 2 | 2 | | | 1 | 2 | | | 1 | 2 | 1 | | 1 | 2 | | 1 | 2 | | 1 | 2 |
| Parathyroid Gland | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | | | | | | | 4 | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|-----------------------|-----------------------|
| B6C3F1/N MICE MALE | DAY ON TEST | 0 7 | 0 6 | 0 6 | 0 7 | 0 7 | 0 7 | 0 6 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 6 | 0 7 | 0 7 | 0 7 | 0 7 | 0 6 | 0 7 | 0 7 | 0 7 | | | |
| | | 3 1 | 2 1 | 9 8 | 3 2 | 2 8 | 3 1 | 8 6 | 3 1 | 3 2 | 3 0 | 3 1 | 3 2 | 3 1 | 3 3 | 9 4 | 3 2 | 2 9 | 7 0 | 7 2 | 3 3 | 3 2 | 5 2 | 3 2 | | 3 1 | 3 2 |
| | ANIMAL ID | 0 0 1 0 1 | 0 0 1 0 2 | 0 0 1 0 3 | 0 0 1 0 4 | 0 0 1 0 5 | 0 0 1 0 6 | 0 0 1 0 7 | 0 0 1 0 8 | 0 0 1 0 9 | 0 0 1 0 0 | 0 0 1 0 1 | 0 0 1 0 2 | 0 0 1 0 3 | 0 0 1 0 4 | 0 0 1 0 5 | 0 0 1 0 6 | 0 0 1 0 7 | 0 0 1 0 8 | 0 0 1 0 9 | 0 0 1 0 0 | 0 0 1 0 1 | 0 0 1 0 2 | 0 0 1 0 3 | | 0 0 1 0 4 | 0 0 1 0 5 |

Infiltration Cellular, Lymphocyte
Follicle, Cyst
Follicle, Degeneration

1 3 1 X X

**males
(cont...)**

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Coagulating Gland

Epididymis +
Granuloma Sperm 1

Preputial Gland +
Cyst X X X X X X X X X X X X X X X X X X X
Inflammation, Suppurative 4 4 4 4 4
Inflammation, Chronic Active 4 4 4 1

Prostate +
Hyperplasia 1
Inflammation, Chronic Active 2 1
Artery, Inflammation, Chronic Active 2

Seminal Vesicle +
Inflammation, Chronic Active

Testis +
Germinal Epithelium, Atrophy 2
Germinal Epithelium, Degeneration 1 2 1 1 1 3 3 3 1 1 1 1

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 03038 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
 Time Report Requested: 10:11:56
 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE MALE 1000 mg/L | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | males (cont...) |
|---------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|
| | | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | | |
| | | 3 | 2 | 9 | 3 | 2 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 9 | 3 | 2 | 3 | 3 | 5 | 3 | 3 | 3 | 3 | | | |
| | | 1 | 1 | 8 | 2 | 8 | 1 | 6 | 1 | 2 | 0 | 1 | 2 | 1 | 1 | 0 | 4 | 2 | 9 | 0 | 2 | 2 | 2 | 2 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | | |

Mammary Gland
Cyst
Inflammation, Suppurative

M M M M M M M M M M M M M M M M + M M M M M M M M

Skin
Cyst
Ulcer

+ +

MUSCULOSKELETAL SYSTEM

Bone
Fibro-Osseous Lesion

+
1 1 1

Skeletal Muscle

NERVOUS SYSTEM

Brain
Infiltration Cellular, Lymphocyte
Necrosis
Choroid Plexus, Hyperplasia

+
1 2

Brain Trigeminal Ganglion

+

Peripheral Nerve

+

Spinal Cord

+

RESPIRATORY SYSTEM

Lung

+ +

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 03038 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1/N

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 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
 Time Report Requested: 10:11:56
 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE MALE 1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0731 | 0621 | 0618 | 0703 | 0702 | 0701 | 0606 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0606 | 0707 | 0707 | 0707 | 0707 | 0606 | 0707 | 0707 | 0707 | 0707 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0001 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0002 | | |
| Artery, Inflammation, Chronic Active | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Papilla, Mineral | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Papilla, Necrosis | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Cyst | | | | | | | | | | | X | | | | | | | X | | | | | | | | X | |
| Renal Tubule, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Renal Tubule, Regeneration | 1 | | | 1 | | 1 | | 1 | | 1 | 2 | 3 | | 1 | 1 | | 1 | 1 | 1 | | 1 | 2 | 1 | 1 | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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Experiment Number: 03038 - 04
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Date Report Requested: 06/26/2019
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 Lab: BAT

| B6C3F1/N MICE MALE 1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|-----|-----|
| | 0 7 3 1 | 0 7 3 2 | 0 7 3 2 | 0 5 0 9 | 0 7 3 2 | 0 7 3 0 | 0 7 3 2 | 0 7 3 1 | 0 5 7 5 | 0 7 3 1 | 0 6 8 6 | 0 7 0 1 | 0 7 3 1 | 0 7 3 1 | 0 7 3 1 | 0 6 4 9 | 0 7 3 2 | 0 7 3 1 | 0 6 3 5 | 0 7 3 2 | 0 7 0 2 | 0 7 0 2 | 0 7 0 1 | | | | |
| ANIMAL ID | 0 0 1 2 6 | 0 0 1 2 7 | 0 0 1 2 8 | 0 0 1 2 9 | 0 0 1 3 0 | 0 0 1 3 1 | 0 0 1 3 2 | 0 0 1 3 3 | 0 0 1 3 4 | 0 0 1 3 5 | 0 0 1 3 6 | 0 0 1 3 7 | 0 0 1 3 8 | 0 0 1 3 9 | 0 0 1 4 0 | 0 0 1 4 1 | 0 0 1 4 2 | 0 0 1 4 3 | 0 0 1 4 4 | 0 0 1 4 5 | 0 0 1 4 6 | 0 0 1 4 7 | 0 0 1 4 8 | 0 0 1 4 9 | | | |
| Hyperplasia, Nodular | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.5 | |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | | | | | 1 | | | | | | | | | | | 5 | 1.0 |
| Mixed Cell Focus | | | | X | | X | | | | | | | | X | | | | | X | | X | | X | | 11 | | |
| Hepatocyte, Fatty Change, Focal | | | | 1 | | | | | | | | | | | | | | | 1 | 1 | | | | | 4 | 1.0 | |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2.3 | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 6 | | |
| Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3.3 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Infiltration Cellular, Mast Cell | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | 2 | | | | | | | | | | 3 | 2.7 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Erosion | | | | | | | | | | | | | | | 1 | | | | | | | | | | 1 | 1.0 | |
| Mineral | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Glands, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Tooth | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | | + | + | + | + | 44 | | |
| Dental Dysplasia | 1 | 2 | 2 | 3 | 4 | 2 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 4 | | 2 | 1 | 2 | | 2 | 1 | 3 | 3 | 43 | 2.1 | | |
| Inflammation, Chronic Active | | | | | 3 | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 03038 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
 Time Report Requested: 10:11:56
 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE MALE 1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|---------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0 7 3 1 | 0 7 3 2 | 0 7 3 2 | 0 5 0 9 | 0 7 3 2 | 0 7 3 0 | 0 7 3 2 | 0 7 3 1 | 0 5 7 5 | 0 7 3 1 | 0 6 8 6 | 0 7 0 1 | 0 7 3 1 | 0 7 3 1 | 0 6 4 9 | 0 7 3 2 | 0 7 3 1 | 0 6 7 4 | 0 7 3 2 | 0 6 1 5 | | 0 7 3 2 | 0 7 0 2 | 0 7 3 1 | |
| ANIMAL ID | 0 0 1 2 6 | 0 0 1 2 7 | 0 0 1 2 8 | 0 0 1 2 9 | 0 0 1 3 0 | 0 0 1 3 1 | 0 0 1 3 2 | 0 0 1 3 3 | 0 0 1 3 4 | 0 0 1 3 5 | 0 0 1 3 6 | 0 0 1 3 7 | 0 0 1 3 8 | 0 0 1 3 9 | 0 0 0 4 0 | 0 0 0 4 1 | 0 0 0 4 2 | 0 0 0 4 3 | 0 0 0 4 4 | 0 0 0 4 5 | 0 0 0 4 6 | 0 0 0 4 7 | 0 0 0 4 8 | 0 0 0 4 9 | 0 0 0 5 0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|-------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cardiomyopathy | 1 | | | | | | | 1 | | | | | | | | | | | | | | | 1 | 6 1.0 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Mineral | | | | | | | | | | 1 | | | | | | | | | | | 1 | | | | 2 1.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Accessory Adrenal Cortical Nodule | | | X | | | | | | | | | | | | | | | | | | | | | 2 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Extramedullary Hematopoiesis | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 1.0 |
| Hyperplasia | | | | | | | | | | | | | | | | | | 1 | | | | | | 3 1.3 |
| Hypertrophy | | 1 | 1 | | | | | | | | 2 | | 4 | 1 | | | 1 | | 2 | 1 | 1 | 1 | 1 | 21 1.2 |
| Subcapsular, Hyperplasia | | | | | | 3 | | | | | | | | | | | 2 | | | | | | | 4 3.0 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Hyperplasia | | 1 | | 3 | 1 | 1 | 3 | 2 | 1 | 2 | | 1 | 1 | 2 | 2 | | 2 | 1 | 3 | | | 2 | 3 | 32 1.7 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | 48 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Pars Distalis, Hyperplasia | | | | | | | | | | 1 | | | | | | 1 | | | | | | | | 3 2.0 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
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 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 03038 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
 Time Report Requested: 10:11:56
 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|------------|
| | 0 7 3 1 | 0 7 3 2 | 0 7 3 2 | 0 5 0 9 | 0 7 3 2 | 0 7 3 0 | 0 7 3 2 | 0 7 3 1 | 0 5 7 5 | 0 7 3 1 | 0 6 8 6 | 0 7 0 1 | 0 7 3 1 | 0 7 3 1 | 0 6 4 9 | 0 7 3 2 | 0 7 3 1 | 0 6 4 2 | 0 7 3 2 | 0 6 1 5 | 0 7 3 2 | | | 0 7 0 2 | 0 7 3 1 | * TOTALS |
| 1000 mg/L | 0 0 1 2 6 | 0 0 1 2 7 | 0 0 1 2 8 | 0 0 1 2 9 | 0 0 1 3 0 | 0 0 1 3 1 | 0 0 1 3 2 | 0 0 1 3 3 | 0 0 1 3 4 | 0 0 1 3 5 | 0 0 1 3 6 | 0 0 1 3 7 | 0 0 1 3 8 | 0 0 1 3 9 | 0 0 0 4 0 | 0 0 1 4 1 | 0 0 1 4 2 | 0 0 1 4 3 | 0 0 1 4 4 | 0 0 1 4 5 | 0 0 1 4 6 | 0 0 1 4 7 | 0 0 1 4 8 | 0 0 1 4 9 | 1 2 8 | 1.0 1.6 |
| Infiltration Cellular, Lymphocyte Follicle, Cyst | 1 | | | | | | | | | | | | | | | | | | | | | | 1 2 | | | |
| Follicle, Degeneration | 3 | | | 2 | | | | | | | | | | | | | 1 | | 1 | | 8 | 1.6 | | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|---|--|-----|--|---|-----|-------------|--|----|-----|
| Coagulating Gland | | | | | | | | | | | | | | | | | | | | | | + | 1 | | | |
| Epididymis Granuloma Sperm | + | | | | | | | | | | | | | | | | | | | | | + | 50 1 1.0 | | | |
| Preputial Gland Cyst | + | | | | | | | | | | | | | | | | | | | | | X X | 50 20 | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | 4 | 8 3.8 | | | |
| Inflammation, Chronic Active | | | | 3 | | | | | | | | | | | | | 4 | | 2 | | 6 | 3.0 | | | | |
| Prostate Hyperplasia | + | | | | | | | | | | | | | | | | | | | | | + | 50 1 1.0 | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | 3 1.3 | | | |
| Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | | |
| Seminal Vesicle Inflammation, Chronic Active | + | | | | | | | | | | | | | | | | | | | | | + | 50 1 1.0 | | | |
| Testis Germinal Epithelium, Atrophy | + | | | | | | | | | | | | | | | | | | | | | + | 50 1 2.0 | | | |
| Germinal Epithelium, Degeneration | | | | 3 | | | | | | | | | | | | | 1 | | 1 1 | | 1 | | 1 | | 20 | 1.5 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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Experiment Number: 03038 - 04
 Test Type: CHRONIC
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 Lab: BAT

| B6C3F1/N MICE MALE 1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|---------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|
| | 0731 | 0732 | 0733 | 0739 | 0732 | 0733 | 0732 | 0731 | 0735 | 0731 | 0736 | 0737 | 0737 | 0737 | 0737 | 0733 | 0733 | 0734 | 0733 | 0732 | 0732 | | 0735 | 0732 | 0732 | 0732 |
| ANIMAL ID | 001 | 001 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|-----|--|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Hypercellularity | 1 | 1 | | 1 | 3 | 2 | 2 | 2 | | | | | | | 1 | 1 | | | | 1 | 1 | | | 1 | 1 | 1 | 26 | 1.6 | |
| Lymph Node | | | | + | | + | | | + | + | | | | | | | + | | | | | | | | | | 6 | | |
| Hyperplasia, Lymphocyte | | | | | | 4 | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | | |
| Hyperplasia, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2 | 3.0 | | |
| Hyperplasia, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 4.0 | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | 2 | | | | 2 | 2.5 | | |
| Extramedullary Hematopoiesis | | | 1 | | | 1 | | | | | | | | | | | 1 | 1 | | | | | 1 | | 5 | 1.0 | | | |
| Hyperplasia, Lymphocyte | | | | | | 4 | | | | | | | | | | | | | | | | | | | 1 | 4.0 | | | |
| Hyperplasia, Plasma Cell | | | | | | | 2 | | | | | | | 4 | | | | | | | | | | | 3 | 3.3 | | | |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | | | |
| Extramedullary Hematopoiesis | 1 | | | | | 1 | | | | | | | | | 2 | 1 | 2 | | 2 | 2 | | | | 2 | 10 | 1.6 | | | |
| Pigment | | | | | | | | | | | | | 2 | | | | | | | | | | | | 1 | 2.0 | | | |
| Capsule, Fibrosis | | | | | | | | | 1 | | | | | | | | | | | | | | | | 1 | 1.0 | | | |
| Red Pulp, Atrophy | | | | | | | | | | | | | 4 | | | | | | | | 4 | | | | 3 | 3.7 | | | |
| White Pulp, Atrophy | | | | 1 | | | | | | | | | 4 | | | | | | | | 3 | | | | 5 | 2.8 | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | M | + | 44 | | | | |
| Atrophy | | | | | | 4 | | | 4 | | 4 | | | 3 | | | | 4 | | 4 | | 4 | | 4 | 10 | 3.6 | | | |

INTEGUMENTARY SYSTEM

| | | |
|--|---------------------------------------|-----------------------------|
| * .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade | | |
| + .. Tissue examined microscopically | M .. Missing tissue | 1-4 .. Lesion qualified as: |
| X .. Lesion present | A .. Autolysis precludes evaluation | 1) Minimal 3) Moderate |
| I .. Insufficient tissue | BLANK .. Not examined microscopically | 2) Mild 4) Marked |

Experiment Number: 03038 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
 Time Report Requested: 10:11:56
 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE MALE 1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|-------|
| | 0731 | 0732 | 0733 | 0739 | 0732 | 0730 | 0732 | 0731 | 0735 | 0737 | 0736 | 0737 | 0737 | 0737 | 0737 | 0737 | 0736 | 0737 | 0737 | 0737 | 0736 | 0737 | 0737 | 0737 | | |
| ANIMAL ID | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | | |
| Mammary Gland Cyst Inflammation, Suppurative | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | + | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 4.0 |
| Skin Cyst Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2 4.0 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Fibro-Osseous Lesion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 4 1.0 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | + | 1 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain Infiltration Cellular, Lymphocyte Necrosis Choroid Plexus, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 2.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 |
| Brain Trigeminal Ganglion | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 03038 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
 Time Report Requested: 10:11:56
 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE MALE 1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|----------|
| | 0731 | 0732 | 0733 | 0734 | 0735 | 0736 | 0737 | 0738 | 0739 | 0731 | 0732 | 0733 | 0734 | 0735 | 0736 | 0737 | 0738 | 0739 | 0731 | 0732 | |
| ANIMAL ID | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | |
| Alveolar Epithelium, Hyperplasia | | | | 1 | | | | | | 1 | | | | | | | | | | 1 | 7 1.3 |
| Serosa, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | 1 | 1 1.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | 1 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Polyp, Inflammatory | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Olfactory Epithelium, Metaplasia, Respiratory | | | | 1 | | | | | 1 | | | | | 1 | | 1 | | | 1 | | 12 1.0 |
| Respiratory Epithelium, Hyperplasia | | | | 1 | | | | | | | | | | | | | | | | | 4 1.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Phthisis Bulbi | | | | | | | | | | | | | | | | | | | | | 1 |
| Cornea, Inflammation, Acute | | | | | | | | | | | | | | | | | | | 2 | | 1 2.0 |
| Retina, Dysplasia | | | | | | | | 1 | | | | | | | | | | | 3 | | 4 1.5 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | | | | | | | | | | | | | | | | | | | 1 |
| Infarct | | | | | | | | | | | | | | | | | | | | | 4 1.0 |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Mineral | | | | | | | | | 1 | 1 | | | | | 1 | | | | | 9 1.0 | |
| Nephropathy, Chronic Progressive | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 47 1.3 |
| Pigment | 1 | 1 | 1 | | 1 | | 1 | | | | | | | | | | | 3 | | 2 | 18 1.2 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 03038 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
 Time Report Requested: 10:11:56
 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE MALE 1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
| | 0731 | 0732 | 0733 | 0739 | 0732 | 0730 | 0732 | 0731 | 0735 | 0737 | 0736 | 0737 | 0737 | 0737 | 0737 | 0737 | 0736 | 0737 | 0737 | 0737 | 0736 | 0737 | 0737 | 0737 | | |
| ANIMAL ID | 00126 | 00127 | 00128 | 00129 | 00130 | 00131 | 00132 | 00133 | 00134 | 00135 | 00136 | 00137 | 00138 | 00139 | 00140 | 00141 | 00142 | 00143 | 00144 | 00145 | 00146 | 00147 | 00148 | 00149 | | |
| Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Papilla, Mineral | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Papilla, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Renal Tubule, Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | 2 | | | | | 1 2.0 |
| Renal Tubule, Cyst | | | | X | | | | | | | | | | X | | | X | | | | | | | | | 6 |
| Renal Tubule, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Renal Tubule, Regeneration | 3 | 1 | 1 | | 2 | 1 | 3 | 1 | 2 | 1 | | | 1 | | | 1 | | | 3 | 1 | 1 | 1 | | 1 | 32 1.4 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 03038 - 04
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Sodium Tungstate Dihydrate
CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
Time Report Requested: 10:11:56
First Dose M/F: 01/17/12 / 01/16/12
Lab: BAT

| B6C3F1/N MICE MALE | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|---------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|--|
| | | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | |
| 2000 mg/L | ANIMAL ID | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 9 | 3 | 3 | 3 | 8 | males (cont...) | |
| | | 1 | 4 | 0 | 2 | 1 | 2 | 1 | 1 | 1 | 3 | 1 | 7 | 0 | 1 | 2 | 1 | 2 | 4 | 0 | 2 | 9 | 1 | 2 | 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 | | |
| | | 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 | | |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gallbladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum Pigment | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 1 | 1 | 1 | 1 | | 1 | 1 | | | 1 | 1 | | 1 | | 1 | 1 | 1 | | | 1 | | 1 | 1 | | 1 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum Peyer's Patch, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | 2 | | | | | | | | | | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atypia Cellular | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Basophilic Focus | | | | | | | | | X | | | | | | | | | X | | | | | X | | |
| Clear Cell Focus | X | | | | | X | | | | | X | | | X | | | | | X | | X | | X | | |
| Eosinophilic Focus | X | | | | | | | | | | X | | | | X | | | | X | X | | X | X | | |
| Extramedullary Hematopoiesis | | | | | | | | | | 1 | | | | | | | | | | | | | | | |
| Fatty Change, Diffuse | | | | | | | | | | | | | 1 | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | X | | | | | |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | | | | | 1 | | | | | | | | | | |
| Karyomegaly | | | | | | | | | | | | | | | | | | | | | | | | | 2 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
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1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
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Experiment Number: 03038 - 04
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| B6C3F1/N MICE MALE 2000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | | | |
|---------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|---|
| | 0731 | 0644 | 0743 | 0773 | 0773 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | | | 0777 | 0777 | |
| Mixed Cell Focus | X | | | | | | | X | | | | X | | X | | | | | | | | | | | |
| Bile Duct, Cyst | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Fatty Change, Focal | | | | | | | | | | | | 2 | | | | | | 1 | | | | | | | |
| Hepatocyte, Multinucleated | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Necrosis | | | | | | | | | | | | 1 | | | | | 3 | | 2 | | | 2 | | | |
| Mesentery Fat, Necrosis | | + | | | | | | + | | | | | | | | | | + | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Stomach, Glandular Erosion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Epithelium, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tooth Dental Dysplasia | + | | | + | + | + | + | + | | | | + | | + | + | + | | + | + | | + | + | + | | |
| Inflammation, Suppurative | 3 | | | 2 | 2 | 1 | 2 | 1 | | | 2 | | | 2 | 1 | 3 | 2 | | 1 | 2 | | 3 | 2 | 1 | 1 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel Aorta, Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart Cardiomyopathy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mineral | | | | | 1 | | | | | | 1 | | | | | | | | | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

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First Dose M/F: 01/17/12 / 01/16/12
Lab: BAT

| B6C3F1/N MICE MALE 2000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | | | |
|---------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|------------------|------------------|------------------|
| | 0 7 3 1 | 0 6 4 4 | 0 7 3 0 | 0 7 3 2 | 0 7 3 1 | 0 7 3 2 | 0 7 3 1 | 0 7 3 1 | 0 7 3 1 | 0 7 3 1 | 0 7 3 1 | 0 4 0 3 | 0 7 3 0 | 0 7 3 3 | 0 7 3 3 | 0 7 3 3 | 0 4 2 4 | 0 7 3 3 | 0 7 5 9 | 0 7 7 3 | | | 0 7 7 3 | 0 7 7 3 | 0 6 8 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

Atrophy
Inflammation, Chronic Active 3

Preputial Gland
Cyst +
Hyperplasia +
Inflammation, Suppurative +
Inflammation, Chronic Active +

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | X | X | | X | X | | | | X | | | X | | | | | | | X | | | | X |
| | | | | | | | | | | | | | | 1 | | | | | | | | | | |
| | | | 3 | | | 2 | | | | | | 4 | | | | | 4 | | 1 | | 1 | | 1 | |

Prostate
Inflammation, Suppurative +

Seminal Vesicle
Inflammation, Suppurative +

Testis
Germinal Epithelium, Degeneration +

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | 2 | | | | | | | | | | 1 | 3 | | | | | 1 | 1 | | | 3 | 4 |

HEMATOPOIETIC SYSTEM

Bone Marrow
Hypercellularity +
Hypocellularity +

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | 2 | | | | | 1 | 1 | | | | 1 | | | | 2 | 1 | | | | 1 | 1 | |
| | | | | | | 2 | | | | | | | | | | | | | | | | | | |

Lymph Node +

Lymph Node, Mandibular
Atrophy +
Hyperplasia, Lymphocyte +

Lymph Node, Mesenteric +

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 03038 - 04

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 06/26/2019

Time Report Requested: 10:11:56

First Dose M/F: 01/17/12 / 01/16/12

Lab: BAT

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B6C3F1/N MICE MALE | DAY ON TEST | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 5 | 7 | 7 | 7 |
| | | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 9 | 3 | 3 | 3 | 8 |
| | | 1 | 4 | 0 | 2 | 1 | 2 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 2 | 4 | 0 | 2 | 9 | 1 | 2 | 1 |
| 2000 mg/L | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 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 | 6 | 7 | 8 | 9 | 0 | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

males
(cont...)

Infiltration Cellular, Lymphocyte

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infiltration Cellular, Histiocyte | | 1 | | | | | | | | | | | | | | | | | | | 4 | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | 3 | | | 1 | | | | | | | 1 | | | |
| Nose | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Metaplasia, Respiratory | | | | | | | | | | | | | | | | | | 1 | | 1 | | |
| Respiratory Epithelium, Accumulation, Hyaline | | | | | 1 | 1 | | | 1 | | 1 | | | | | | | 1 | | 1 | | |
| Droplet | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | 1 | 2 | | 2 | | | 1 |
| Trachea | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Phthisis Bulbi | | | | | | | | | | | | | | | | | | | X | | | | |
| Cornea, Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | 3 | |
| | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Harderian Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|--------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 03038 - 04
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Route: DOSED WATER
Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Sodium Tungstate Dihydrate
CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
Time Report Requested: 10:11:56
First Dose M/F: 01/17/12 / 01/16/12
Lab: BAT

| B6C3F1/N MICE MALE 2000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|-----------|--------------------|
| | 0 7 3 1 | 0 6 4 4 | 0 7 3 0 | 0 7 3 2 | 0 7 3 1 | 0 7 3 2 | 0 7 3 1 | 0 7 3 1 | 0 7 3 1 | 0 7 3 1 | 0 7 3 1 | 0 7 3 1 | 0 4 0 7 | 0 7 3 0 | 0 7 3 1 | 0 7 3 2 | 0 4 2 4 | 0 7 3 0 | 0 7 3 2 | 0 5 9 9 | 0 7 3 1 | 0 7 3 2 | 0 7 3 1 | 0 6 8 5 | | | |
| Cyst | | | | | X | X | X | | | | | | X | | | | | | X | | X | | | | | | |
| Infarct | | | | 1 | | | | | | | | | | | | 1 | | | | | | 1 | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | |
| Mineral | | 1 | | 1 | | | | | | | | | | 1 | | | | | | | | | | | | | |
| Nephropathy, Chronic Progressive | 1 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 3 | 2 | 1 | 2 | 1 | | 1 | 1 | 4 | 2 | 1 | 4 | 4 | | |
| Pigment | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| Thrombus | | | | | | | | | | | | | | | | | | | | | | | X | | | | |
| Artery, Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Atypia Cellular | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Cyst | X | | | | | | | | | | X | | | | | X | | | | | | | X | | | | |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Regeneration | 1 | 1 | 2 | 1 | 1 | 1 | 1 | | 1 | 2 | 1 | | 3 | 1 | 1 | 1 | | 2 | 1 | 1 | | 1 | 2 | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

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 Lab: BAT

| B6C3F1/N MICE MALE | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | | | |
|--------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|---|--|---|
| | | 7 | 7 | 5 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 3 | 7 | 5 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | | | 7 |
| 2000 mg/L | | 3 | 3 | 6 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 4 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 0 | 3 | 3 | 3 | 3 | 1 | | 0 | | |
| | | 1 | 2 | 8 | 9 | 2 | 2 | 1 | 1 | 2 | 3 | 1 | 4 | 0 | 2 | 2 | 2 | 2 | 1 | 1 | 0 | 1 | 1 | 1 | 2 | 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 | | |
| | | 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 | 2 | 0 | | | |
| | | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | | | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | | | | |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Gallbladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Pigment | 1 | 1 | | 1 | 1 | | 1 | 1 | | | | | 1 | | | | | 1 | 1 | | | | | 1 | 1 | 1 | 1 | 32 1.0 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Peyer's Patch, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Atypia Cellular | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 2 1.5 |
| Basophilic Focus | | | | X | | | | | | | X | | | | | | X | | | | | | X | | | | | 7 |
| Clear Cell Focus | X | X | | | | | | X | | | | | | | X | X | | | X | | | | | | | | | 13 |
| Eosinophilic Focus | X | | | | X | | | | | | | | | X | X | | X | | | | | X | | X | | | | 14 |
| Extramedullary Hematopoiesis | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Fatty Change, Diffuse | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | 2 1.5 |
| Hemorrhage | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | 1 4.0 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Infiltration Cellular, Mixed Cell | | | 1 | | 1 | | | | | | | | | | | | | | | | | | | | 1 | | | 4 1.0 |
| Karyomegaly | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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|---------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-----|-----|-----|-----|
| | 0731 | 0732 | 0736 | 0739 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | | | | | |
| ANIMAL ID | 00176 | 00177 | 00178 | 00179 | 00180 | 00181 | 00182 | 00183 | 00184 | 00185 | 00186 | 00187 | 00188 | 00189 | 00190 | 00191 | 00192 | 00193 | 00194 | 00195 | 00196 | 00197 | 00198 | 00199 | 00200 | | | | |
| Mixed Cell Focus | | | X | | | | | | | | | X | X | | | | | | X | | | X | | | | 9 | | | |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Hepatocyte, Fatty Change, Focal | | | 1 | | | | | | | | | 1 | | | | | | | 1 | | | | | | 5 | 1.2 | | | |
| Hepatocyte, Multinucleated | | | | | | | | | | | | | | | | | | | | | | | 1 | | | 1 | 1.0 | | |
| Hepatocyte, Necrosis | | | 1 | | | | | | | 1 | | | | | | | | 2 | 1 | | | | | | | 8 | 1.6 | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | + | | 4 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | 4 | | | 2 | 4.0 | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | 1.0 | |
| Epithelium, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | 1.0 |
| Tooth | + | | | | + | + | | | | | | + | + | + | + | + | | | | | | | | | | 35 | | | |
| Dental Dysplasia | 3 | | 2 | | 1 | 1 | | | | | | 2 | | 2 | 2 | | | | | 1 | 1 | 2 | 1 | 1 | 2 | 3 | 2 | 34 | 1.8 |
| Inflammation, Suppurative | | | | | | | | | | | | 2 | | | | | | | | | | 3 | | | | 3 | | 4 | 2.5 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|-----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Aorta, Necrosis | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 4 | 1.0 |
| Mineral | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | 1.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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Time Report Requested: 10:11:56

Route: DOSED WATER

CAS Number: 10213-10-2

First Dose M/F: 01/17/12 / 01/16/12

Species/Strain: MICE/B6C3F1/N

Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B6C3F1/N MICE MALE | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 7 | 7 | 5 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 3 | 7 | 5 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | |
| | | 3 | 3 | 6 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 4 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 0 | 3 | 3 | 1 |
| | | 1 | 2 | 8 | 9 | 2 | 2 | 2 | 1 | 1 | 2 | 3 | 1 | 4 | 0 | 2 | 2 | 2 | 1 | 1 | 0 | 1 | 1 | 3 | 2 |
| 2000 mg/L | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| | | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | |

Valve, Inflammation, Suppurative

1 1.0

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | X | | | | | | | | X | | | | | 2 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 3 1.0 |
| Hypertrophy | 1 | | | 1 | 1 | 1 | 1 | | 1 | | 1 | | | 1 | 1 | | | | | | | 1 | | 17 1.0 |
| Subcapsular, Hyperplasia | | | | | | | | | | | | | | 3 | | 4 | | | | | | | | 3 3.7 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | 2 | | 2 | | 1 | 1 | 1 | 1 | | 1 | 4 | | 1 | 1 | | | 2 | 1 | | | 1 | | 2 | 28 1.3 |
| Parathyroid Gland | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M + | 43 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Follicle, Degeneration | 1 | | | | | | | | 1 | | | 1 | 1 | | | | 1 | | | | | | | 9 1.0 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 .. Lesion qualified as:

X .. Lesion present

A .. Autolysis precludes evaluation

1) Minimal 3) Moderate

I .. Insufficient tissue

BLANK .. Not examined microscopically

2) Mild 4) Marked

Experiment Number: 03038 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
 Time Report Requested: 10:11:56
 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE MALE 2000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----|-----|
| | 0731 | 0732 | 0736 | 0739 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | | | |
| ANIMAL ID | 00176 | 00177 | 00178 | 00179 | 00180 | 00181 | 00182 | 00183 | 00184 | 00185 | 00186 | 00187 | 00188 | 00189 | 00190 | 00191 | 00192 | 00193 | 00194 | 00195 | 00196 | 00197 | 00198 | 00199 | 00200 | | |
| | 0 | 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 | 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 | 1 | 2.0 |
| | 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 | 15 | 1.0 |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 4 | 3.3 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 9 | 2.0 |

Atrophy
 Inflammation, Chronic Active 2 **1 3.0**
1 2.0

Preputial Gland
 Cyst 50 **15**
 Hyperplasia 1 1.0
 Inflammation, Suppurative 4 3.3
 Inflammation, Chronic Active 9 2.0

Prostate
 Inflammation, Suppurative 3 **1 3.0**

Seminal Vesicle
 Inflammation, Suppurative 1 **1 1.0**

Testis
 Germinal Epithelium, Degeneration 3 3 **50 20 2.2**

HEMATOPOIETIC SYSTEM

Bone Marrow
 Hypercellularity 2 1 **19 1.4**
 Hypocellularity 1 **1 2.0**

Lymph Node 1

Lymph Node, Mandibular
 Atrophy 3 **48 1 3.0**
 Hyperplasia, Lymphocyte 3 **1 3.0**

Lymph Node, Mesenteric M **48**

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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 Lab: BAT

| B6C3F1/N MICE MALE 2000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | | | |
|---------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|------|------|
| | 0731 | 0732 | 0736 | 0738 | 0739 | 0752 | 0777 | 0777 | 0766 | 0773 | 0773 | 0775 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | | | 0777 | 0777 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 7 | 7 | 5 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 3 | 7 | 5 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | |
| | 3 | 3 | 6 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 4 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 0 | 3 | 3 | |
| | 1 | 2 | 8 | 9 | 2 | 2 | 2 | 1 | 1 | 2 | 3 | 1 | 4 | 0 | 2 | 2 | 2 | 1 | 1 | 0 | 1 | 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 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 0 | |
| | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |

Infiltration Cellular, Lymphocyte

1 1 1.0

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | 1 | | | 3 | | 5 | 1.8 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 |
| Olfactory Epithelium, Metaplasia, Respiratory | | | 1 | | 1 | | | | | | | | | 1 | | | | | | 1 | | | 10 | 1.0 |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | 1 | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Respiratory Epithelium, Hyperplasia | 1 | | | | | | | | | | | | | | | | | | | | | 1 | 6 | 1.3 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Phthisis Bulbi | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Cornea, Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | 3 | | | | | | | | 1 | 3.0 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|
| | 07 | 07 | 05 | 07 | 07 | 05 | 07 | 07 | 06 | 07 | 03 | 07 | 05 | 07 | 07 | 07 | 05 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | |
| | ANIMAL ID | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| Cyst | | | | | | | | | | | | | | | | | | | | | X | | | | | | 7 |
| Infarct | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | 4 1.0 |
| Metaplasia, Osseous | | 1 | | | | | | | | | | | | | | | | | | | | | | | 1 | | 3 1.0 |
| Mineral | | | 1 | | | | | | | | | | 1 | | | | | | | | | | | | 1 | | 6 1.0 |
| Nephropathy, Chronic Progressive | | 1 | 4 | 1 | 4 | 1 | 1 | 1 | 2 | 4 | | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 2 | 1 | 3 | 3 | 1 | 1 | | 47 1.9 |
| Pigment | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 44 1.0 |
| Thrombus | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Artery, Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 3.0 |
| Artery, Inflammation, Chronic Active | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | 1 3.0 |
| Pelvis, Inflammation, Suppurative | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Renal Tubule, Atypia Cellular | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | 1 2.0 |
| Renal Tubule, Cyst | | | X | | | | | | | | X | | X | | X | | | | | | | | | X | | | 9 |
| Renal Tubule, Necrosis | | | | | | | | | | | 1 | | | | | | | | 2 | | | | | | 1 | | 3 1.3 |
| Renal Tubule, Regeneration | | 1 | 1 | | 1 | 1 | 3 | 1 | | | 3 | | 3 | 1 | 3 | 1 | | 1 | | 1 | 1 | 4 | 3 | 1 | 1 | 4 | 38 1.6 |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation, Suppurative | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

*** END OF MALE DATA ***

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

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I .. Insufficient tissue

M .. Missing tissue

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| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | |
|--|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B6C3F1/N MICE FEMALE 0 mg/L | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 7 | 6 | 5 | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 |
| | | 0 | 7 | 6 | 5 | 3 | 3 | 3 | 3 | 3 | 6 | 0 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |
| | ANIMAL ID | 2 | 6 | 0 | 1 | 1 | 1 | 1 | 0 | 9 | 3 | 0 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 6 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 5 |
| | | | | | | | | | | | | | | | | | | | | | | 6 |

females
(cont...)

ALIMENTARY SYSTEM

Esophagus
Inflammation, Chronic Active

| | |
|---|---|
| + | 1 |
|---|---|

Gallbladder

| | |
|---|--|
| + + + + + + + + + + + M + + + + + + + + + + + + + | |
|---|--|

Intestine Large, Cecum

| | |
|---|--|
| + | |
|---|--|

Intestine Large, Colon

| | |
|---|--|
| + | |
|---|--|

Intestine Large, Rectum

| | |
|---|--|
| + | |
|---|--|

Intestine Small, Duodenum

| | |
|---|--|
| + | |
|---|--|

Intestine Small, Ileum

| | |
|---|--|
| + | |
|---|--|

Intestine Small, Jejunum
Inflammation, Chronic
Inflammation, Chronic Active

| | |
|---|---|
| + | 1 |
|---|---|

Liver
Angiectasis
Basophilic Focus
Clear Cell Focus
Eosinophilic Focus
Erythrophagocytosis
Extramedullary Hematopoiesis
Fatty Change, Diffuse
Infiltration Cellular, Mixed Cell
Inflammation, Focal

| | |
|---|---------------------|
| + | |
| | X |
| | |
| | |
| | 1 1 |
| | 1 1 1 1 1 1 1 1 1 1 |
| | |
| | 1 1 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
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| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| B6C3F1/N MICE FEMALE 0 mg/L | DAY ON TEST | 0 7 | 0 6 | 0 5 | 0 5 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 6 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 4 | 0 5 | |
| | ANIMAL ID | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 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 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5
 females (cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mixed Cell Focus Hepatocyte, Fatty Change, Focal Hepatocyte, Necrosis | 1 | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Mesentery Fat, Necrosis | + | + | | | | | | | | + | | | | | | | | | | | | + | + | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas Basophilic Focus Acinus, Atrophy Duct, Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X |
| Salivary Glands Pigment | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 2 |
| Stomach, Forestomach Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 |
| Stomach, Glandular Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Tooth Dental Dysplasia | | | | | | | | | | | | | | + | X | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | | | | | | | | | + |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|---|

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 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 03038 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
 Time Report Requested: 10:11:56
 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females (cont...) |
|----------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 mg/L | 7 | 6 | 5 | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 5 | |
| | 0 | 7 | 6 | 5 | 3 | 3 | 3 | 3 | 6 | 0 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 6 | |
| | 2 | 6 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 9 | 3 | 0 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | | | | | | | | | | 2 | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Mineral | | | | | | | | | | 1 | | | | | | | | | | | | | | | |
| Thrombus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Artery, Metaplasia, Cartilagenous | | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | X | | | | | | | | | X | | |
| Extramedullary Hematopoiesis | | | | | | | | | | 2 | | | | | | | | | | | | | | | |
| Hypertrophy | | | | | | | | | | | | | | | 1 | | | | | | | | | | |
| Subcapsular, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | |
| Parathyroid Gland | + | M | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | | | | | 1 | 1 | 1 | 1 | 1 | | | | | | 1 | 1 | | | | | 1 | 1 | | | 1 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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Experiment Number: 03038 - 04
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 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
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 Lab: BAT

| B6C3F1/N MICE FEMALE 0 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) | | | |
|--------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|------------------|-----------------------|------------------|
| | 0 7 0 2 | 0 6 7 6 | 0 5 6 0 | 0 5 5 1 | 0 7 3 1 | 0 7 3 1 | 0 7 3 1 | 0 7 3 1 | 0 7 3 0 | 0 6 6 9 | 0 7 3 0 | 0 7 2 3 | 0 7 2 2 | 0 7 2 2 | 0 7 2 2 | 0 7 2 2 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | | | 0 4 3 2 | 0 5 3 6 | 0 5 6 6 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 2 0 1 | |
| Follicle, Degeneration | 2 | | | 1 | | | 2 | 1 | 1 | | 1 | 1 | 2 | | | | | | 3 | | | | 1 | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | X | | | | | X | | | | | | | | | | | | | X | |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Interstitial Cell, Hyperplasia | | | | | 2 | | | | | | | | | | | | | X | | | | X | X | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | | | | | | | | | | | | 4 | 2 | | | | | | 4 | | | | | | |
| Infiltration Cellular, Neutrophil | | | | | 1 | | | | | | | 1 | | | | | | | | | | | | | |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Polyarteritis Nodosa | | | | | 3 | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | 2 | | 1 | | | 1 | 4 | 1 | 2 | 4 | 1 | 3 | 4 | 4 | 2 | 2 | 2 | 2 | 3 | 2 | 1 | 2 | 1 | 1 | 2 |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | 2 | | |

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 I .. Insufficient tissue
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 Lab: BAT

| B6C3F1/N MICE FEMALE 0 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) | | |
|-----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|------------------|------------------|----------------------|----------------------|----------------------|
| | 0 7 0 2 | 0 6 7 6 | 0 5 6 0 | 0 5 5 1 | 0 7 3 1 | 0 7 3 1 | 0 7 3 1 | 0 7 3 1 | 0 6 3 0 | 0 7 3 9 | 0 7 3 0 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 4 3 2 | 0 5 6 6 | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 0 0 2 0 | 1 2 3 4 | females (cont...) | | |
| Hypercellularity | 2 | | 4 | | 1 | 1 | | | | | | | | 2 | 1 | 2 | | | 1 | | | | 4 | | 3 | 3 | | | |
| Hypocellularity | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | + | | | + | + | | | | | + | + | | | | | | | | + | | + | | | | | | 0 0 2 0 | 0 0 2 0 | females (cont...) |
| Hemorrhage | | | | 4 | | | | | | | | | | | | | | | 4 | | + | | | | | | | | |
| Hyperplasia, Lymphocyte | 2 | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis Nodosa | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 0 0 2 0 | 0 0 2 0 | females (cont...) |
| Atrophy | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extramedullary Hematopoiesis | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Mast Cell | | | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | |
| Lymph Node, Mesenteric | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 0 0 2 0 | 0 0 2 0 | females (cont...) | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extramedullary Hematopoiesis | | | | | | | | | | | | | | | | | | | | | | 1 | | | 2 | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 0 0 2 0 | 0 0 2 0 | females (cont...) | |
| Accessory Spleen | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extramedullary Hematopoiesis | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphocyte | | | | | | | | | | | | | | 2 | | | | | | | 2 | | | | | | | | |
| Hyperplasia, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigment | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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 X .. Lesion present
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| B6C3F1/N MICE FEMALE 0 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|------------------|------------------|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 7 0 2 | 0 6 7 6 | 0 5 6 0 | 0 5 5 1 | 0 7 3 1 | 0 7 3 1 | 0 7 3 1 | 0 7 3 1 | 0 7 3 0 | 0 6 6 9 | 0 7 3 0 | 0 7 3 0 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | | | 0 4 3 2 | 0 5 3 6 | 0 5 6 6 | | | | | | | | | | | | | | | | | |
| Red Pulp, Atrophy | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pulp, Atrophy | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pulp, Hyperplasia | | | | | | | | | | | | | | | | | | | | | 1 | 1 | | 2 | 1 | | | | | | | | | | | | | 2 | 1 | | | |
| Thymus | + | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Atypical, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | + | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibro-Osseous Lesion | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Increased Bone | | | | | | | | | | | | | | | | | | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Lymphocyte | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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| B6C3F1/N MICE FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) | | | |
|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0 7 0 2 | 0 6 7 6 | 0 5 6 0 | 0 5 5 1 | 0 7 3 1 | 0 7 3 1 | 0 7 3 1 | 0 7 3 1 | 0 7 3 0 | 0 6 6 9 | 0 7 3 0 | 0 7 3 0 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | | | 0 4 3 2 | 0 5 6 6 | |
| 0 mg/L | 0 0 2 0 1 | 0 0 2 0 2 | 0 0 2 0 3 | 0 0 2 0 4 | 0 0 2 0 5 | 0 0 2 0 6 | 0 0 2 0 7 | 0 0 2 0 8 | 0 0 2 0 9 | 0 0 2 0 0 | 0 0 2 0 1 | 0 0 2 0 2 | 0 0 2 0 3 | 0 0 2 0 4 | 0 0 2 0 5 | 0 0 2 0 6 | 0 0 2 0 7 | 0 0 2 0 8 | 0 0 2 0 9 | 0 0 2 0 0 | 0 0 2 0 1 | 0 0 2 0 2 | 0 0 2 0 3 | 0 0 2 0 4 | 0 0 2 0 5 |

Alveolar Epithelium, Hyperplasia

2

Nose

+ +

Olfactory Epithelium, Metaplasia

1

1

1

1

1

Respiratory Epithelium, Accumulation, Hyaline Droplet

Respiratory Epithelium, Hyperplasia

Trachea

+ +

Inflammation, Acute

1

Polyarteritis Nodosa

3

SPECIAL SENSES SYSTEM

Eye

+ +

Lens, Cataract

3

Harderian Gland

+ +

Hyperplasia

2

URINARY SYSTEM

Kidney

+ +

Glomerulopathy

4

Infarct

1

1

Mineral

1

Nephropathy, Chronic Progressive

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

Papilla, Necrosis

Renal Tubule, Accumulation, Hyaline Droplet

2

1

Renal Tubule, Cyst

X

Renal Tubule, Necrosis

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 .. Lesion qualified as:

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1) Minimal 3) Moderate

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|----------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------------------|----|
| | 07 | 06 | 05 | 05 | 07 | 07 | 07 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | | 04 |
| 0 mg/L | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
| | 12 | 34 | 56 | 78 | 90 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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Date Report Requested: 06/26/2019
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 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|----------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|----|
| | 0729 | 0727 | 0727 | 0729 | 0728 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | | |
| 0 mg/L | 002226 | 0007 | 0008 | 0009 | 0000 | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0000 | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0000 | 50 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Esophagus Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 1.0 |
| Gallbladder | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Intestine Small, Duodenum | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Intestine Small, Jejunum Inflammation, Chronic Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 1.0 |
| | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | 2 | 3.5 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Basophilic Focus | | | | | | X | | | | | | | | | | | | | | | | | | | X | | 2 | |
| Clear Cell Focus | | | | | | | | | | | | | | | | X | | | | | | | | | | | 1 | |
| Eosinophilic Focus | X | | | | | | X | | | X | X | | | | | | X | | | | X | | | | X | | 8 | |
| Erythrophagocytosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | 1.0 |
| Extramedullary Hematopoiesis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | 1.0 |
| Fatty Change, Diffuse | | | 2 | | 1 | | | | | | | | | | | | 2 | | | | | | | | 2 | | 6 | 1.5 |
| Infiltration Cellular, Mixed Cell | 1 | 1 | | | | 1 | | | | | 1 | 1 | 1 | | | | 1 | 1 | 1 | | 1 | | 1 | | | 24 | 1.0 | |
| Inflammation, Focal | | | | 1 | | 1 | | 1 | | | | 1 | 1 | 1 | | | | 1 | | | | 1 | 1 | | | 14 | 1.0 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically M .. Missing tissue
 X .. Lesion present A .. Autolysis precludes evaluation
 I .. Insufficient tissue BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 03038 - 04

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 06/26/2019

Time Report Requested: 10:11:56

First Dose M/F: 01/17/12 / 01/16/12

Lab: BAT

| B6C3F1/N MICE FEMALE 0 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|---|-----|----|----|---|-----|
| | 0 7 2 9 | 0 7 2 7 | 0 6 9 7 | 0 7 2 9 | 0 5 8 8 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 4 2 1 | | | | | | | | |
| | 0 0 2 2 6 | 0 0 2 2 7 | 0 0 2 2 8 | 0 0 2 2 9 | 0 0 2 3 0 | 0 0 2 3 1 | 0 0 2 3 2 | 0 0 2 3 3 | 0 0 2 3 4 | 0 0 2 3 5 | 0 0 2 3 6 | 0 0 2 3 7 | 0 0 2 3 8 | 0 0 2 3 9 | 0 0 2 4 0 | 0 0 2 4 1 | 0 0 2 4 2 | 0 0 2 4 3 | 0 0 2 4 4 | 0 0 2 4 5 | 0 0 2 4 6 | 0 0 2 4 7 | 0 0 2 4 8 | 0 0 2 4 9 | | | | | | | |
| Mixed Cell Focus Hepatocyte, Fatty Change, Focal Hepatocyte, Necrosis | X | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1.0 | | | | | | |
| Mesentery Fat, Necrosis | | | + | + | | | | | | | | | | | | | | | | | | | | + | 10 | 8 | 2.9 | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | |
| Pancreas Basophilic Focus Acinus, Atrophy Duct, Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 1 | 4.0 |
| Salivary Glands Pigment | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 2.0 |
| Stomach, Forestomach Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 3.0 |
| Stomach, Glandular Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | |
| Tooth Dental Dysplasia | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 1.0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|--|
| Blood Vessel | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|--|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 03038 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
 Time Report Requested: 10:11:56
 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|----------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|----------|
| | 07 | 07 | 06 | 07 | 05 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 04 | | |
| 0 mg/L | 29 | 27 | 27 | 29 | 28 | 22 | 22 | 22 | 22 | 22 | 23 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 21 | | |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | |
| | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | | |
| | 22 | 22 | 22 | 22 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 45 | | |
| | 67 | 77 | 88 | 99 | 00 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 | 00 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 89 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Mineral | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Thrombus | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Artery, Inflammation, Chronic Active | | | | | | | | 4 | | | | | | | | | | | | | | | | 1 4.0 |
| Artery, Metaplasia, Cartilagenous | | | | | | | 1 | | | | | | | | | | | | | | | | | 1 1.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | X | | | | | | | | | | | | 3 |
| Extramedullary Hematopoiesis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Subcapsular, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Hyperplasia | 1 | | | | | | | | | | 1 | | | | | | | | | | | 1 | | 5 1.0 |
| Parathyroid Gland | + | + | + | M | + | + | + | + | + | M | + | + | + | + | + | + | M | + | + | + | + | + | + | 45 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 1.0 |
| Cyst | | | | | | | | | | | | X | | | | | | | | | | | | 1 |
| Pars Distalis, Hyperplasia | | | | | | 1 | 1 | 1 | | | 3 | | | 2 | 2 | 2 | | | 1 | | 4 | | 2 | 21 1.4 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | 4 | | 1 4.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 03038 - 04
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 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
 Time Report Requested: 10:11:56
 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE FEMALE 0 mg/L | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|----------|
| | ANIMAL ID | 7 | 7 | 6 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | |
| | | 2 | 2 | 9 | 2 | 8 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | | |
| | | 9 | 7 | 7 | 9 | 8 | 9 | 9 | 9 | 9 | 9 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 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 | 0 | 0 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 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 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | | |
| Follicle, Degeneration | | 2 | | 2 | | 2 | | 1 | | 2 | | 2 | | | | 1 | | | | 2 | | 1 | | 19 | | 1.6 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------|---|-----|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|------------|
| Clitoral Gland | + | | | | | | | | | | | | | | | | | | | | | | | | 49 | | | | | | | | | | | | | | | | | | | |
| Ovary | + + + + + + + + + + + + + M + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | 49 | | | | | | | | | | | | | | | | | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2 | 3.0 | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2 | 4.0 | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 8 | | | | | | | | | | | | | | | | | | |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | X | 4 | | | | | | | | | | | | | | | | | | |
| Interstitial Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | | | | | | | | | | | | | | | | |
| Uterus | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | | | | | | | | | | | | | | | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3.3 | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Neutrophil | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 6 | 1.0 | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | | | | | | | | | | | | | | | | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.0 | | | | | | | | | | | | | | | | | |
| Polyarteritis Nodosa | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | 4 | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 1 | 3 | 4 | 4 | 1 | 2 | 4 | 2 | 2 | 4 | 3 | 3 | 4 | 2 | 1 | 1 | 41 | 2.3 |
| Vagina | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | | | | | | | | | | | | | | | | | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 3.0 | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 03038 - 04
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
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 CAS Number: 10213-10-2

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 Lab: BAT

| B6C3F1/N MICE FEMALE 0 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | | | |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|------|---|----|----|-----|-----|----|-----|-----|-----|
| | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | | 0729 | | | | | | | | | |
| ANIMAL ID | 002226 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | | | | | | | | | | |
| Bone Marrow | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | 48 | | | | | | | |
| Hypercellularity | | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | 17 | 2.1 | | | | | |
| Hypocellularity | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | | | | |
| Lymph Node | | | + | | | | | | | | | | | | | | | | | | | | | | 9 | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 4.0 | | | | |
| Hyperplasia, Lymphocyte Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2.7 | | | | |
| Polyarteritis Nodosa | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | | | | |
| Lymph Node, Mandibular | | | | | | | | | | | | | | | | | | | | | | | | | | 49 | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2 | 3.5 | | |
| Extramedullary Hematopoiesis | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | | |
| Hyperplasia, Plasma Cell Infiltration Cellular, Mast Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | |
| Lymph Node, Mesenteric | | | | | | | | | | | | | | | | | | | | | | | | | | | 49 | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 | 4.0 | |
| Extramedullary Hematopoiesis | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3 | 1.3 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 | 4.0 | |
| Hyperplasia, Plasma Cell Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 3.0 |
| Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Extramedullary Hematopoiesis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 5 | 1.6 |
| Hyperplasia, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 | |
| Hyperplasia, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 3.0 |
| Pigment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 4.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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1-4 .. Lesion qualified as:
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 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
 Time Report Requested: 10:11:56
 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|-------|--|
| | 0729 | 0727 | 0677 | 0729 | 0528 | 0722 | 0722 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | | | |
| 0 mg/L | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00226 | 0007 | 0008 | 0009 | 0000 | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0000 | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0000 | | |
| Red Pulp, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2 4.0 | |
| White Pulp, Atrophy | | | | | 2 | | | | | | | | | | | | | | | | | | | | 4 | 3 3.3 | |
| White Pulp, Hyperplasia | | | | | | | | | | | | | | | | | 3 | | | | | | | | | 7 1.6 | |
| Thymus | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 3 4.0 | |
| Hyperplasia, Atypical, Lymphocyte | 2 | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 2.0 | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Hyperplasia | | | | | | | | | | 2 | | | | | | | | | | | | | | | | 2 2.0 | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Fibro-Osseous Lesion | | | | | | | | | | 1 | | | | | | 1 | | | | | | | | 2 | 15 1.1 | | |
| Increased Bone | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | | |
| Skeletal Muscle | | | + | + | | | | | | | | | | | | | | | | | | | | | 2 | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 03038 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
 Time Report Requested: 10:11:56
 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|-----|
| | 0729 | 0727 | 0677 | 0729 | 0588 | 0729 | 0727 | 0729 | 0727 | 0729 | 0727 | 0729 | 0727 | 0729 | 0727 | 0729 | 0727 | 0729 | 0727 | 0729 | | |
| 0 mg/L | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | |
| | 002226 | 000222 | 000222 | 000222 | 000233 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | | |
| Alveolar Epithelium, Hyperplasia | | | | | | 1 | 4 | | | | | | | | | | | | 1 | | 4 | 2.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Olfactory Epithelium, Metaplasia | 1 | | 1 | | | 1 | 1 | 1 | | 1 | | | | | | | | 1 | 1 | 1 | 15 | 1.0 |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1.0 |
| Respiratory Epithelium, Hyperplasia | | | | | | 1 | | | | | | | | | | | | | | 1 | 2 | 1.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Polyarteritis Nodosa | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Glomerulopathy | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Infarct | | | | | | | | | | | | | | 1 | | | | 1 | | 1 | 5 | 1.0 |
| Mineral | | | | | | | | | | | | | | | | | | | | | 2 | 1.0 |
| Nephropathy, Chronic Progressive | 1 | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 33 | 1.0 |
| Papilla, Necrosis | | | | | | | | | | 1 | | | | | | | | | | | 1 | 1.0 |
| Renal Tubule, Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 |
| Renal Tubule, Cyst | | | | | | | | | | | | | | | | | | | | | 1 | |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | 2 | | 1 | 2.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

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 Lab: BAT

| B6C3F1/N MICE FEMALE | DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|----------------------|-------------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|
| | | 0729 | 0777 | 0672 | 0758 | 0772 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | | 0777 | 0777 |
| 0 mg/L | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 03038 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1/N

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 Lab: BAT

| B6C3F1/N MICE FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | females (cont...) | | |
|----------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------|------|
| | 0731 | 0731 | 0661 | 0661 | 0773 | 0773 | 0572 | 0772 | 0772 | 0662 | 0772 | 0772 | 0772 | 0662 | 0772 | 0772 | 0662 | 0772 | 0772 | 0662 | | 0772 | 0772 |
| 500 mg/L | 0051 | 0052 | 0053 | 0054 | 0055 | 0056 | 0057 | 0058 | 0059 | 0060 | 0061 | 0062 | 0063 | 0064 | 0065 | 0066 | 0067 | 0068 | 0069 | 0070 | 0071 | 0072 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gallbladder Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum Pigment | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum Peyer's Patch, Hyperplasia, Lymphocyte | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | 3 |
| Basophilic Focus | | | | | | X | | | | | X | | | | | | | X | | | | |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | X | | | |
| Eosinophilic Focus | X | X | X | | X | | | | X | X | X | | | | X | | | | | | | |
| Erythrophagocytosis | | | | | | | | | | | | | | | | | | | | | | 2 |
| Extramedullary Hematopoiesis | | | | | | | | | | | | | | | | | | | | | | 4 |
| Fatty Change, Diffuse | | | | | | | | | | | | | | | 1 | | | | | | | |
| Infiltration Cellular, Mixed Cell | | | 1 | | | | | 1 | 1 | | 1 | | | | | | | 1 | 1 | 1 | | 1 |
| Inflammation, Focal | 1 | | | | 1 | | | | | 1 | 1 | | | | 1 | 1 | 1 | | 1 | 1 | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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 Lab: BAT

| B6C3F1/N MICE FEMALE 500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) | | | | | |
|----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|------|------|------|
| | 0731 | 0731 | 0732 | 0732 | 0733 | 0733 | 0734 | 0734 | 0735 | 0735 | 0736 | 0736 | 0737 | 0737 | 0738 | 0738 | 0739 | 0739 | 0740 | 0740 | 0741 | 0741 | 0742 | | | 0742 | 0743 | 0743 | 0744 | 0744 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 7 | 7 | 6 | 6 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 2 | 2 | 2 | 2 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | |
| | 3 | 3 | 2 | 6 | 0 | 2 | 9 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 9 | 9 | 8 | 8 | 2 | 2 | 2 | 2 | 2 | |
| | 1 | 1 | 7 | 1 | 3 | 9 | 9 | 9 | 0 | 9 | 0 | 0 | 0 | 7 | 0 | 4 | 0 | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 9 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic Active Follicle, Degeneration | | | | | | | | | | | 1 | 1 | | | 1 | 1 | | | | | 1 | | | | | | | 3 | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | |
| Ovary Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M |
| Corpus Luteum, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicle, Cyst | | | X | X | | | X | | | | | | | | | | X | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Neutrophil | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | 1 | 2 | 2 | 2 | 2 | 2 | | 4 | 1 | | 2 | 2 | | 1 | 1 | 2 | 2 | | 3 | | 3 | | | 2 | 3 | 1 | | | |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hypercellularity | 2 | 1 | 1 | 1 | 2 | | 2 | | 1 | 4 | 1 | | | 1 | 3 | 1 | | | | | | | 1 | | | | 3 | 1 | 1 | 2 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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 Lab: BAT

| B6C3F1/N MICE FEMALE 500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|-----------|----------------------|--|
| | 0 7 3 1 | 0 7 3 1 | 0 6 2 7 | 0 6 6 1 | 0 7 0 3 | 0 7 2 9 | 0 5 9 9 | 0 7 2 9 | 0 7 3 0 | 0 7 2 9 | 0 7 3 0 | 0 7 2 7 | 0 6 3 4 | 0 7 3 0 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 6 8 8 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | | | | |
| Hypocellularity | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node Ectasia Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular Hyperplasia, Lymphocyte Hyperplasia, Plasma Cell | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Lymph Node, Mesenteric Angiectasis Atrophy Extramedullary Hematopoiesis Hyperplasia, Lymphocyte Hyperplasia, Plasma Cell Lymphatic Sinus, Ectasia | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | 4 | 4 | |
| Spleen Extramedullary Hematopoiesis White Pulp, Atrophy White Pulp, Hyperplasia | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | 1 | 1 | |
| Thymus Atrophy Hyperplasia, Atypical, Lymphocyte | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 2 | 3 | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 03038 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
 Time Report Requested: 10:11:56
 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE FEMALE 500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) | | | |
|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0 7 3 1 | 0 7 3 1 | 0 6 2 7 | 0 6 6 1 | 0 7 0 3 | 0 7 2 9 | 0 5 9 9 | 0 7 2 9 | 0 7 3 0 | 0 7 2 9 | 0 6 3 0 | 0 7 3 0 | 0 7 2 7 | 0 6 3 4 | 0 7 3 0 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 6 8 8 | 0 7 2 9 | | | 0 7 2 9 | 0 7 2 9 | |
| | 0 0 2 5 1 | 0 0 2 5 2 | 0 0 2 5 3 | 0 0 2 5 4 | 0 0 2 5 5 | 0 0 2 5 6 | 0 0 2 5 7 | 0 0 2 5 8 | 0 0 2 5 9 | 0 0 2 6 0 | 0 0 2 6 1 | 0 0 2 6 2 | 0 0 2 6 3 | 0 0 2 6 4 | 0 0 2 6 5 | 0 0 2 6 6 | 0 0 2 6 7 | 0 0 2 6 8 | 0 0 2 6 9 | 0 0 2 7 0 | 0 0 2 7 1 | 0 0 2 7 2 | 0 0 2 7 3 | 0 0 2 7 4 | 0 0 2 7 5 |

Hyperplasia

2 1

1

Skin
 Ulcer
 Epidermis, Hyperplasia

+ +

MUSCULOSKELETAL SYSTEM

Bone
 Fibro-Osseous Lesion
 Increased Bone

+
 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1

NERVOUS SYSTEM

Brain
 Compression
 Necrosis
 Polyarteritis Nodosa

+
 4
 3
 3

RESPIRATORY SYSTEM

Larynx
 Infiltration Cellular, Mixed Cell
 Lung
 Inflammation, Chronic Active
 Thrombus
 Alveolar Epithelium, Hyperplasia
 Nose
 Inflammation, Suppurative

+
 1 4 X 1
 +
 2

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically M .. Missing tissue
 X .. Lesion present A .. Autolysis precludes evaluation
 I .. Insufficient tissue BLANK .. Not examined microscopically
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| B6C3F1/N MICE FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | females (cont...) | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------------------|--|
| | 0 7 3 1 | 0 7 3 1 | 0 6 2 7 | 0 6 6 1 | 0 7 0 3 | 0 7 2 9 | 0 5 9 9 | 0 7 2 9 | 0 7 3 0 | 0 6 2 9 | 0 7 3 0 | 0 7 2 7 | 0 6 3 4 | 0 7 3 0 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 6 8 8 | 0 7 2 9 | 0 7 2 9 | | | |
| 500 mg/L | ANIMAL ID | | | | | | | | | | | | | | | | | | | | females (cont...) | | |
| | 0 0 2 5 1 | 0 0 2 5 2 | 0 0 2 5 3 | 0 0 2 5 4 | 0 0 2 5 5 | 0 0 2 5 6 | 0 0 2 5 7 | 0 0 2 5 8 | 0 0 2 5 9 | 0 0 2 6 0 | 0 0 2 6 1 | 0 0 2 6 2 | 0 0 2 6 3 | 0 0 2 6 4 | 0 0 2 6 5 | 0 0 2 6 6 | 0 0 2 6 7 | 0 0 2 6 8 | 0 0 2 6 9 | 0 0 2 7 0 | | 0 0 2 7 1 | |
| Olfactory Epithelium, Metaplasia | | 1 | 1 | | 1 | | | | | 1 | | | 1 | | | 1 | 1 | | | 1 | | | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | 1 | | | | | | | | | | | | | | | | | | | | 2 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy, Chronic Progressive | 1 | 1 | 1 | | | 1 | | 1 | | 1 | | | 1 | 2 | | | 1 | 1 | 1 | | 1 | 1 | |
| Pelvis, Dilation | | | | | | | | | | | | | 2 | | | | | | | | | | |
| Renal Tubule, Accumulation, Hyaline Droplet | | | | | | | | | | | | 2 | | | | | | | 3 | | | | |
| Renal Tubule, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Renal Tubule, Necrosis | | | 1 | | 1 | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Regeneration | | | | | | | | | | | | | | | | | | | 3 | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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Experiment Number: 03038 - 04
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 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
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 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|-----------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|-----------------|
| B6C3F1/N MICE FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | 500 mg/L | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 3 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 9 | 9 | 9 | 9 | 0 | 8 | 9 | 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 | 0 | 0 | 0 | 0 | | | |
| | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Gallbladder Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | 1 |
| Intestine Large, Cecum Pigment | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | 3 1.0 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Intestine Small, Jejunum Peyer's Patch, Hyperplasia, Lymphocyte | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | 1 4.0 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Angiectasis | 1 | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Basophilic Focus | | | | | X | | | | | | X | | | | | | X | X | | | | | | | | 7 | |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Eosinophilic Focus | X | | X | X | | | X | | | X | X | | | | | X | | | X | | X | | | | | 17 | |
| Erythrophagocytosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Extramedullary Hematopoiesis | | | | | | | | | | | | | | | | | | | | | | 1 | | | | 2 | 2.5 |
| Fatty Change, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Infiltration Cellular, Mixed Cell | | | 1 | | 1 | 1 | 1 | 1 | | | | | | 1 | | | 1 | 1 | 1 | 1 | 1 | | 2 | | | 22 | 1.0 |
| Inflammation, Focal | 1 | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | | 1 | | | 1 | 1 | | | 1 | 1 | | 1 | | | 24 | 1.0 | |

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 + .. Tissue examined microscopically M .. Missing tissue
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 Lab: BAT

| B6C3F1/N MICE FEMALE 500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------------|
| | 07 29 | 07 29 | 07 29 | 07 30 | 07 30 | 07 30 | 07 30 | 07 30 | 07 30 | 07 30 | 07 30 | 07 30 | 07 30 | 07 30 | 07 30 | 07 30 | 07 30 | 07 30 | 07 30 | 07 30 | | 07 30 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
| Inflammation, Chronic Active Mixed Cell Focus | | | | X | | | | | | X | | | | | | | | | | X | | | 1 3 |
| Tension Lipidosis | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hepatocyte, Fatty Change, Focal | | | | | | | | | | | | | | | | | | 1 | | | | | 2 |
| Hepatocyte, Necrosis | | | | | | | | | 1 | | | | | | | | | | | | | 1 | 4 1.0 |
| Mesentery Fat, Necrosis | | | | | | | | | | | | | | | + | + | + | | | + | + | | 12 9 3.7 |
| Pancreas Basophilic Focus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 1 |
| Acinus, Atrophy | | | | | | | | | | 1 | | | | | | | | | | | | | 1 1.0 |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 2 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Stomach, Glandular Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 6 |
| Glands, Necrosis | | | | | | | | | | | | | | | | | | | | | X | | 1 1 1.0 |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Tooth Dental Dysplasia | | | | | | | | | | | | | | | | | | | | | | | 5 5 1.0 |

CARDIOVASCULAR SYSTEM

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|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|--------------------------------|--|
| | 0729 | 0729 | 0729 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | | 0730 | 0730 | | | |
| ANIMAL ID | 0076 | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 | 0098 | 0099 | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Mineral | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Coronary Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 2 1 2.0 | |
| Valve, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 1 1.0 | |
| Valve, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 | |
| Valve, Thrombus | | | | | | | | | | | | | | | | | | | | | | | | | X 1 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 1 2.0 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Thrombus | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 1 1 1 10 1.2 | |
| Parathyroid Gland | M | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 40 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | X 2 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 2 1 2 1.5 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 1 1 1 1 1 2 4 2 2 2 1 23 1.6 | |

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|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------------|-------|--------|--------|
| | 0729 | 0729 | 0729 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | | 0730 | | | |
| ANIMAL ID | 0076 | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Inflammation, Chronic Active Follicle, Degeneration | 2 | | | | | | | | | 1 | 1 | | | 1 | 1 | | 2 | 1 | 1 | | | 17 1.0 1.2 | | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | | |
| Cyst | | | | X | | | | | | | | | | | | | | X | | | | 4 | | | |
| Corpus Luteum, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | | |
| Follicle, Cyst | | | | | X | | X | | | | | | | | | | | | | | | 7 | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | | |
| Infiltration Cellular, Neutrophil | | | | | | | | | | | | | | 1 | | | | | | | | 3 1.0 | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | 2 | | | 2 2.5 | | | |
| Inflammation, Acute | | | | | | 1 | | | 1 | | | | | | | | | | | | | 2 1.0 | | | |
| Endometrium, Hyperplasia, Cystic | | 1 | 2 | 2 | | 2 | 4 | 2 | 4 | 4 | 4 | | | | | | 3 | 1 | 1 | 1 | 3 | 1 | 3 | 3 | 36 2.2 |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Hypercellularity | 4 | | | | | | 1 | | | | | | | | 1 | 1 | | 3 | | | | 1 | 2 | 24 1.7 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 03038 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
 Time Report Requested: 10:11:56
 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE FEMALE 500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|-----------|
| | 079 | 079 | 079 | 073 | 073 | 073 | 073 | 073 | 073 | 073 | 073 | 073 | 073 | 073 | 073 | 073 | 073 | 073 | 073 | 073 | | 073 | 073 | | |
| ANIMAL ID | 0076 | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 | 0098 | 0099 | |
| Hypocellularity | | | 1 | | | | | | | | 1 | | | | | | | | | | | | | | 2 1.0 |
| Lymph Node Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | 8 4.0 |
| Lymph Node Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 4 4.0 |
| Lymph Node, Mandibular Hyperplasia, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | 49 3.0 |
| Lymph Node, Mandibular Hyperplasia, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Lymph Node, Mesenteric Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 49 4.0 |
| Lymph Node, Mesenteric Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 3 3.0 |
| Lymph Node, Mesenteric Extramedullary Hematopoiesis | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Lymph Node, Mesenteric Hyperplasia, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | 4 2 2 3.0 |
| Lymph Node, Mesenteric Hyperplasia, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | 2 1 2.0 |
| Lymph Node, Mesenteric Lymphatic Sinus, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 4.0 |
| Spleen Extramedullary Hematopoiesis | | | | | | | | | | | | | | | | | | | | | | | | | 48 18 1.2 |
| Spleen White Pulp, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Spleen White Pulp, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 1 1.5 |
| Thymus Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 48 3 3.0 |
| Thymus Hyperplasia, Atypical, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | 4 2 2.5 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | | | | | | | | | | | | | | | | | | | | | | | | | 50 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 03038 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
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 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
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 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE FEMALE 500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|--|
| | 0729 | 0729 | 0729 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | | |
| ANIMAL ID | 0076 | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 | 0098 | 0099 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.3 | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 4 1 4.0 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Fibro-Osseous Lesion | 1 | | 1 | | 1 | 1 | | 1 | | 1 | 1 | | | | | | | | | | | | | 1 | 23 1.1 | |
| Increased Bone | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Polyarteritis Nodosa | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Larynx | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Thrombus | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 5 1.8 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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Experiment Number: 03038 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
 Time Report Requested: 10:11:56
 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE FEMALE 500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|----|--|
| | 079 | 072 | 077 | 073 | 073 | 073 | 073 | 079 | 079 | 079 | 079 | 075 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | | 077 | | | | |
| ANIMAL ID | 0076 | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 | 0098 | 0099 | | |
| Olfactory Epithelium, Metaplasia | | | | | 1 | 1 | | 1 | | | | | | 1 | | | | 1 | 1 | | 1 | 1 | 1 | 1 | 18 | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | | | | | | | | | | 1 | | | | | | | | | | | | | | 1 | 2 | |
| Respiratory Epithelium, Hyperplasia | | | | | | 2 | | | | | | | | | | | | | | | | | | | 1 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lens, Cataract | | | | | | | | | | | | | | | | 2 | | | | | | | | | 1 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Infarct | | | | | 1 | 2 | | | | | | | | | | | | | | | | | | | 2 | |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | 1 | | | | | | | | | 1 | |
| Nephropathy, Chronic Progressive | | | | | 1 | 1 | | 1 | 1 | 1 | 1 | | | 2 | | | | 1 | 1 | 1 | | 1 | 1 | 1 | 26 | |
| Pelvis, Dilation | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Renal Tubule, Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Renal Tubule, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 | | | 2 | |
| Renal Tubule, Necrosis | | | | | | | | | | 1 | | | | | 1 | | | | | | | 1 | | | 5 | |
| Renal Tubule, Regeneration | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

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Experiment Number: 03038 - 04

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 06/26/2019

Time Report Requested: 10:11:56

First Dose M/F: 01/17/12 / 01/16/12

Lab: BAT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | females (cont...) |
|----------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| B6C3F1/N MICE FEMALE | | 7 | 7 | 6 | 5 | 5 | 6 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| 1000 mg/L | | 2 | 2 | 0 | 9 | 9 | 2 | 3 | 1 | 0 | 2 | 1 | 2 | 3 | 3 | 6 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | |
| ANIMAL ID | | 9 | 9 | 2 | 8 | 8 | 9 | 0 | 3 | 4 | 9 | 3 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gallbladder | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum Pigment | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum Peyer's Patch, Inflammation, Granulomatous | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver Angiectasis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 4 |
| Basophilic Focus | | | | | | | X | | | | | | | | | | | | | | | | | 1 |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | | | | | | X | X | | | | | X | | | | | | | X | | X | | X |
| Extramedullary Hematopoiesis | | | | | | | | | | | 1 | | | | | | | | | | | | | 2 |
| Fatty Change, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Focal | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | 2 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
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 1-4 .. Lesion qualified as:
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 2) Mild 4) Marked

Experiment Number: 03038 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
 Time Report Requested: 10:11:56
 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE FEMALE 1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--|-----------|----------------------|
| | 0 7 2 9 | 0 7 2 9 | 0 6 0 2 | 0 5 9 8 | 0 5 9 8 | 0 6 2 9 | 0 7 3 0 | 0 6 1 3 | 0 6 0 4 | 0 7 2 9 | 0 7 1 3 | 0 7 2 9 | 0 7 3 0 | 0 7 3 0 | 0 6 3 6 | 0 7 3 0 | 0 7 3 1 | 0 7 3 3 | 0 7 3 0 | 0 7 3 3 | 0 7 3 0 | 0 7 3 3 | 0 7 3 0 | | | |
| Bile Duct, Cyst | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Fatty Change, Focal Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Mesentery Inflammation, Granulomatous Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa Gingival, Foreign Body Gingival, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach Cyst Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular Cyst Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tooth Dental Dysplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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 Lab: BAT

| B6C3F1/N MICE FEMALE 1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------------|----------------------|
| | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00000000000000000000000000 | |

Heart
 Artery, Inflammation, Chronic
 Atrium, Thrombus
 +
 1

ENDOCRINE SYSTEM

Adrenal Cortex
 Accessory Adrenal Cortical Nodule
 Angiectasis
 Hypertrophy
 +
 X X X

Adrenal Medulla
 Hyperplasia
 +

Islets, Pancreatic
 Hyperplasia
 + + + I +
 1 3

Parathyroid Gland
 Cyst
 + M + + + + + + + + + + + M + + + + + + + + + M +
 X

Pituitary Gland
 Cyst
 Pars Distalis, Hyperplasia
 + + M +
 1 2 1 1 1 1 4 2 1

Thyroid Gland
 Angiectasis
 Follicle, Degeneration
 +
 1 2 1 1 4 3 4 2 1 4 2

GENERAL BODY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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| B6C3F1/N MICE FEMALE 1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) | |
|---|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|--|
| | 0 7 2 9 | 0 7 2 9 | 0 6 0 2 | 0 5 9 8 | 0 5 9 8 | 0 6 2 9 | 0 7 3 0 | 0 6 1 3 | 0 6 0 4 | 0 7 2 9 | 0 7 1 3 | 0 7 2 9 | 0 7 3 0 | 0 7 3 0 | 0 6 3 6 | 0 7 3 0 | 0 7 3 1 | 0 7 3 3 | 0 7 3 0 | 0 7 3 0 | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Lymph Node, Mandibular Hemorrhage | + | | | | | | | | | | | | | | | | | | | | 3 | | |
| Lymph Node, Mesenteric Atrophy | + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | |
| Extramedullary Hematopoiesis Hyperplasia, Lymphocyte Inflammation, Chronic Active | 2 4 | | | | | | | | | | | | | | | | | | | | 2 | | |
| Spleen Extramedullary Hematopoiesis | + + + A + | | | | | | | | | | | | | | | | | | | | 1 | | |
| Red Pulp, Atrophy | | | | | | | | | | | | | | | | | | | | | 3 | | |
| White Pulp, Atrophy | | | | | | | | | | | | | | | | | | | | | 2 | | |
| White Pulp, Hyperplasia | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Thymus Atrophy | + | | | | | | | | | | | | | | | | | | | | 3 | 4 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | | | | | | | | | | | | | | | | | | | | | | |
| Skin Sweat Gland, Hyperplasia | + | | | | | | | | | | | | | | | | | | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Fibro-Osseous Lesion | + | | | | | | | | | | | | | | | | | | | | 1 | 1 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 03038 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
 Time Report Requested: 10:11:56
 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE FEMALE 1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0729 | 0729 | 0662 | 0558 | 0558 | 0667 | 0776 | 0666 | 0666 | 0777 | 0777 | 0777 | 0777 | 0777 | 0666 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00030001 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00030002 | |
| | 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 | 00030003 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 00030004 | |

Increased Bone

2

Skeletal Muscle

+

NERVOUS SYSTEM

Brain

+ +

Cyst Epithelial Inclusion

Necrosis

2

1

RESPIRATORY SYSTEM

Lung

+ +

Alveolar Epithelium, Hyperplasia

1

Nose

+ +

Hemorrhage

Inflammation, Acute

Olfactory Epithelium, Metaplasia

4

1

1

1

1

1

1

Trachea

+ +

SPECIAL SENSES SYSTEM

Eye

+ + + + + + + + + + + + + + + M + + + + + + + +

Phthisis Bulbi

Lens, Cataract

Retina, Dysplasia

3

Harderian Gland

Hyperplasia

+ + + + + + + + + + + + + + + M + + + + + + + +

1

4

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 03038 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
 Time Report Requested: 10:11:56
 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE FEMALE 1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-----|
| | 0730 | 0734 | 0735 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | | | |
| ANIMAL ID | 00326 | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346 | 00347 | 00348 | 00349 | 00350 | 00351 | 00352 | 00353 | 00354 | 00355 | 00356 | 00357 | 00358 | 00359 | | |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Hepatocyte, Fatty Change, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 13 | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 10 | 3.6 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Gingival, Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 |
| Gingival, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | 49 | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 6 | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Tooth | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Dental Dysplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | 49 | |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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M .. Missing tissue
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1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 03038 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
 Time Report Requested: 10:11:56
 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE FEMALE 1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--------|
| | 0730 | 0734 | 0735 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | | 0737 |
| ANIMAL ID | 00026 | 00037 | 00038 | 00039 | 00040 | 00041 | 00042 | 00043 | 00044 | 00045 | 00046 | 00047 | 00048 | 00049 | 00050 | 00051 | 00052 | 00053 | 00054 | 00055 | 00056 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Artery, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Atrium, Thrombus | | X | | | | | | | | | | | | | | | | | | | | 1 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | | | | | | | | | 3 |
| Angiectasis | | | | | | | | | | | | | | | | | | | 4 | | | 1 4.0 |
| Hypertrophy | | | | 1 | | | | | | | | | | | | | | | | | | 1 1.0 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | 4 | | | | | | | | | | | | | | | | | | 1 4.0 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Hyperplasia | | | | | | | | | | | | | | | | | | 1 | | | | 4 1.5 |
| Parathyroid Gland | + | + | + | + | + | M | + | + | + | M | + | + | + | + | M | + | + | + | + | M | M | 42 |
| Cyst | | | | | | | | | | | | | | | | | X | | | | | 3 |
| Pituitary Gland | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | 47 |
| Cyst | | | | | | | | | | | | | | | | | | X | | | | 1 |
| Pars Distalis, Hyperplasia | | | | | | | | | 1 | | | | | 1 | 1 | | 2 | | 1 | | 4 | 1 1.6 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 49 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Follicle, Degeneration | 1 | | 1 | 1 | 1 | 1 | | | | | | | | | 2 | | | | 1 | 2 | 1 | 19 1.8 |

GENERAL BODY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 03038 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
 Time Report Requested: 10:11:56
 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE FEMALE 1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|--|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------|-------|----------------|--|
| | 07 30 | 02 45 | 07 30 | 07 29 | 07 29 | 07 29 | 07 29 | 07 29 | 07 29 | 07 29 | 07 29 | 07 29 | 07 29 | 07 29 | 07 29 | 07 29 | 07 29 | 07 29 | 07 29 | 07 29 | | 07 29 | | | | |
| ANIMAL ID | 00326 | 00327 | 00328 | 00329 | 00330 | 00331 | 00332 | 00333 | 00334 | 00335 | 00336 | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346 | 00347 | 00348 | 00349 | 00350 | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Lymph Node, Mandibular Hemorrhage | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | 48 1 3.0 | |
| Lymph Node, Mesenteric Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 1 4.0 | |
| Extramedullary Hematopoiesis | | 4 | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Hyperplasia, Lymphocyte Inflammation, Chronic Active | | | | | | 3 | | | | | | | | | | | | | | | | | | | 3 3.0 1 2.0 | |
| Spleen Extramedullary Hematopoiesis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 13 1.5 | |
| Red Pulp, Atrophy | | 4 | | | | | | | | | | | | | | | | | | | | | | | 3 3.3 | |
| White Pulp, Atrophy | | 4 | | | | | | | | | | | | | | | | | | | | | | | 3 2.7 | |
| White Pulp, Hyperplasia | 2 | | | | | | | | | | | | | 1 | | | | | | | | | | | 5 1.8 | |
| Thymus Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 4 3.8 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Skin Sweat Gland, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 1 4.0 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Fibro-Osseous Lesion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 8 1.0 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 03038 - 04
 Test Type: CHRONIC
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 Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Sodium Tungstate Dihydrate
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Date Report Requested: 06/26/2019
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 Lab: BAT

| B6C3F1/N MICE FEMALE 1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|
| | 0730 | 0734 | 0735 | 0737 | 0739 | 0740 | 0741 | 0742 | 0743 | 0744 | 0745 | 0746 | 0747 | 0748 | 0749 | 0750 | 0751 | 0752 | 0753 | 0754 | | 0755 | | | |
| ANIMAL ID | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | 0036 | 0037 | 0038 | 0039 | 0040 | 0041 | 0042 | 0043 | 0044 | 0045 | 0046 | 0047 | 0048 | 0049 | 0050 |

Increased Bone 1 2.0

Skeletal Muscle 1

NERVOUS SYSTEM

Brain 50
 Cyst Epithelial Inclusion 1
 Necrosis 2 1.5

RESPIRATORY SYSTEM

Lung 50
 Alveolar Epithelium, Hyperplasia 3 1.3

Nose 50
 Hemorrhage 1 4.0
 Inflammation, Acute 2 1.0
 Olfactory Epithelium, Metaplasia 15 1.0

Trachea 48

SPECIAL SENSES SYSTEM

Eye 48
 Phthisis Bulbi 1
 Lens, Cataract 1 3.0
 Retina, Dysplasia 1 1.0

Harderian Gland 48
 Hyperplasia 3 2.0

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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Experiment Number: 03038 - 04
 Test Type: CHRONIC
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 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B6C3F1/N MICE FEMALE | 1000 mg/L | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 7 | 2 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | | 3 | 4 | 3 | 2 | 2 | 2 | 0 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | |
| | | 0 | 5 | 0 | 9 | 9 | 9 | 0 | 9 | 9 | 9 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 9 | 9 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 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 | |
| | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 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 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Glomerulopathy, Hyaline | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Infarct | 1 | | | | | | | | | | | | | 1 | | | | | | 1 | | | | | | | 5 | 1.2 | |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Inflammation, Chronic | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Nephropathy, Chronic Progressive | 1 | | 1 | 1 | 1 | 1 | | | | 1 | | 1 | 1 | | | 1 | 1 | | 1 | | | | | | | 2 | 26 | 1.0 | |
| Pigment | | | | | | 1 | | | | | | | 1 | | | | | | | 1 | | | | | | 1 | 6 | 1.0 | |
| Pelvis, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Renal Tubule, Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Renal Tubule, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Renal Tubule, Regeneration | | | | 2 | 1 | 1 | | | | | | | | | | | | | | 1 | | | | | | | | 7 | 1.1 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 M .. Missing tissue
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Experiment Number: 03038 - 04
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Sodium Tungstate Dihydrate
CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
Time Report Requested: 10:11:56
First Dose M/F: 01/17/12 / 01/16/12
Lab: BAT

| B6C3F1/N MICE FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) |
|----------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 2000 mg/L | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 3 | 3 | 0 | 3 | 3 | 2 | 7 | 3 | 2 | 2 | 2 | 3 | 6 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | |
| | 0 | 0 | 6 | 0 | 0 | 2 | 0 | 0 | 9 | 9 | 9 | 0 | 7 | 9 | 9 | 1 | 1 | 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 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gallbladder Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum Pigment Polyarteritis Nodosa | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 1 | | 1 | 1 | | | | | | | | | | | 1 | | 1 | | 1 | | 1 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum Polyarteritis Nodosa | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | 3 |
| Intestine Small, Duodenum Polyarteritis Nodosa | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | 2 |
| Intestine Small, Ileum Polyarteritis Nodosa | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | 2 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | X |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | X |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | X |
| Extramedullary Hematopoiesis | | | | | | | X | | X | | | | | | | | | | X | | X |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 03038 - 04

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 06/26/2019

Time Report Requested: 10:11:56

First Dose M/F: 01/17/12 / 01/16/12

Lab: BAT

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | females (cont...) | |
|-----------------------------|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------|
| B6C3F1/N MICE FEMALE | | 0730 | 0730 | 0730 | 0733 | 0733 | 0722 | 0773 | 0773 | 0773 | 0773 | 0746 | 0766 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | | 0777 |
| 2000 mg/L | | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | | 0035 |
| ANIMAL ID | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | |
| Pituitary Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pars Distalis, Hyperplasia | | 1 | 2 | | 1 | | 4 | | | | | | | 1 | 1 | | 1 | 2 | 3 | 2 | | | |
| Thyroid Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Follicle, Degeneration | | | | | | | | | | 1 | | | | 1 | | 2 | | 1 | | + | 1 | 2 | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ovary | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | X | | | | | | | | | | | X | | | | X |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | X | | |
| Follicle, Hemorrhage | | | | | | | | | | | | | | | | | 2 | | | | | |
| Paraovarian Tissue, Cyst | | | | | | | | | | | | | X | | | | | X | | | | |
| Uterus | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | 4 | |
| Infiltration Cellular, Neutrophil | | | | | | | | | | | | | | 1 | | | | | 1 | | | 1 |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | 4 | | | | | | | | | | | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | 2 | | | | | | | | | | | | | | | |
| Polyarteritis Nodosa | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | | 4 | 1 | 4 | 1 | 1 | 2 | 4 | 1 | 1 | 1 | 4 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 03038 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 06/26/2019

Time Report Requested: 10:11:56

First Dose M/F: 01/17/12 / 01/16/12

Lab: BAT

| B6C3F1/N MICE FEMALE 2000 mg/L | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ANIMAL ID | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | | 3 | 3 | 0 | 3 | 3 | 2 | 7 | 3 | 2 | 2 | 2 | 3 | 6 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 0 | 0 | 6 | 0 | 0 | 2 | 0 | 0 | 9 | 9 | 9 | 0 | 7 | 9 | 9 | 9 | 9 | 9 | 1 | 1 | 1 | 1 | 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 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 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 |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |

females
(cont...)

Vagina
Polyarteritis Nodosa
+ +

4

HEMATOPOIETIC SYSTEM

Bone Marrow
Hypercellularity
Hypocellularity
I + + + + + + + + + + + + I + + + + + + + + + + + + + + + + +

4

1

2

1

1

1

2

1

1

2

1

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1

1

2

1

2

1

1

2

1

2

1

2

Lymph Node

+

Lymph Node, Mandibular

Atrophy
Hyperplasia, Lymphocyte
+
3

Lymph Node, Mesenteric

Extramedullary Hematopoiesis
Hyperplasia, Lymphocyte
Hyperplasia, Plasma Cell
Lymphatic Sinus, Ectasia
+
4 4 3

Spleen

Extramedullary Hematopoiesis
Infiltration Cellular, Histiocyte
Red Pulp, Atrophy
White Pulp, Atrophy
White Pulp, Hyperplasia
+
2 4 2 1

Thymus

Atrophy
+
3 4 2

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically M .. Missing tissue 1-4 .. Lesion qualified as:
 X .. Lesion present A .. Autolysis precludes evaluation 1) Minimal 3) Moderate
 I .. Insufficient tissue BLANK .. Not examined microscopically 2) Mild 4) Marked

Experiment Number: 03038 - 04

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: MICE/B6C3F1/N

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Sodium Tungstate Dihydrate

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Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------------------|---|
| B6C3F1/N MICE FEMALE 2000 mg/L | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | | 3 | 3 | 0 | 3 | 3 | 2 | 7 | 3 | 2 | 2 | 2 | 3 | 6 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 9 | 9 | 0 | 7 | 9 | 9 | 9 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 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 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | |
| | | | | | | | | | | | | | | | | | | | | | | | females (cont...) | |

Hyperplasia, Atypical, Lymphocyte

2

3

INTEGUMENTARY SYSTEM

Mammary Gland
Hyperplasia

+ + + + + + + + + + + M + + + + + + + + + + + + +

1

Skin
Infiltration Cellular, Mast Cell
Inflammation, Chronic Active
Ulcer

+ +

3
4
4

MUSCULOSKELETAL SYSTEM

Bone
Fibro-Osseous Lesion
Fibrous Osteodystrophy
Increased Bone

+ +

1
1

4

NERVOUS SYSTEM

Brain
Atrophy
Gliosis
Polyarteritis Nodosa

+ +

1

RESPIRATORY SYSTEM

Lung
Hemorrhage
Infiltration Cellular, Histiocyte

+ +

3

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 03038 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
 Time Report Requested: 10:11:56
 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE FEMALE 2000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females (cont...) | | | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|--|--|--|--|--|
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | | | | | | |
| | 3 | 3 | 0 | 3 | 3 | 2 | 7 | 3 | 2 | 2 | 2 | 3 | 6 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | | | | | |
| | 0 | 0 | 6 | 0 | 0 | 2 | 0 | 0 | 9 | 9 | 9 | 0 | 7 | 9 | 9 | 9 | 1 | 1 | 1 | 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 | 0 | 0 | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | | | | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 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 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 1 | | | | | | |
| Alveolar Epithelium, Hyperplasia | 1 | | 1 | | | | 1 | | | | | | 1 | | | | | | 1 | | | | | | | | | | | |
| Nose | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | + | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | |
| Inflammation, Acute | + | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| Nerve, Olfactory Epithelium, Atrophy | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Metaplasia | 1 | | | | | | 1 | | | | | | 1 | | | | | | 1 | | | | | | | | | | | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | + | | | | | | | | | | | | 1 | | | | | | | | | | | | 4 | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infarct | + | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| Metaplasia, Osseous | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy, Chronic Progressive | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | | | | | | |
| Pigment | 1 | | | | | | 1 | | | | | | 1 | | | | | | 1 | | | | | | | | | | | |
| Polyarteritis Nodosa | + | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | |
| Renal Tubule, Accumulation, Hyaline Droplet | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Necrosis | 4 | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| Renal Tubule, Regeneration | 1 | | | | | | 1 | | | | | | 1 | | | | | | 1 | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 03038 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
 Time Report Requested: 10:11:56
 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE FEMALE 2000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|-----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|--------|
| | 0730 | 0730 | 0731 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | | 0732 | 0732 | | |
| ANIMAL ID | 00076 | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | 00098 | 00099 | |
| Fatty Change, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | | 2 4.0 |
| Infiltration Cellular, Mixed Cell | | 1 | | 1 | | | | | | 1 | | | | | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | 23 1.0 |
| Inflammation, Focal | | | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | | | | 1 | 1 | | | | 1 | 1 | | | 1 | | 23 1.0 |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | X | | 2 |
| Hepatocyte, Necrosis | | | | | | | | | | 1 | | | | 1 | | | | | | | | | | | 5 1.6 |
| Mesentery | | | | + | | | | | + | | | | | | | | + | | | | | | | | 7 |
| Polyarteritis Nodosa | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Fat, Necrosis | | | | 4 | | | | | | | | | | | | | | | | | | | | | 4 3.5 |
| Pancreas | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 1.0 |
| Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Salivary Glands | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Stomach, Forestomach | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | 3 | | | | | | | | 3 | | | 2 3.0 |
| Stomach, Glandular | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | | | | | | | | | | | | | X | | | | | | X | X | | | 3 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | 1 | | | | | | | | | | | 1 1.0 |
| Polyarteritis Nodosa | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Tooth | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Dental Dysplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
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 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|----------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|--|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | |
| 2000 mg/L | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 8 | 3 | 3 | 6 | 2 | 2 | 2 | 3 | 3 | 3 | |
| | 0 | 0 | 1 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 7 | 3 | 0 | 0 | 8 | 7 | 9 | 9 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 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 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Polyarteritis Nodosa | | | | | | | 2 | | | | | | | | | | | | | | | | | 1 2.0 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cardiomyopathy | | | | | | | | | | | | | 1 | | | | | | | | | | | 3 1.0 |
| Inflammation, Chronic Active | | | | | | | | | | | | | 1 | | | | | | | | | | | 1 1.0 |
| Epicardium, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Valve, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Valve, Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Valve, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 1.0 |
| Valve, Thrombus | | | | | | | | | | | | | | | | | | | | | | | | 2 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | X | | | | | X | | | | | | | | 2 | |
| Extramedullary Hematopoiesis | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 | |
| Hyperplasia | | | | | | | | | | | | | | | | 2 | | | | | | | | 1 2.0 | |
| Hypertrophy | | | | | | | | | | | | | | | | 3 | | | | | | 1 | | 3 1.7 | |
| Necrosis | | | | | | | | | | 4 | | | | | | | | | | | | | | 1 4.0 | |
| Subcapsular, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | 49 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 1.0 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | 1 | | | | | | | | | | | | 1 | 1 | 4 1.0 | |
| Parathyroid Gland | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | M | + | + | M | M | + | 43 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 03038 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 06/26/2019
 Time Report Requested: 10:11:56
 First Dose M/F: 01/17/12 / 01/16/12
 Lab: BAT

| B6C3F1/N MICE FEMALE 2000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|--------|
| | 07030 | 07033 | 07032 | 07022 | 07022 | 07022 | 07022 | 07022 | 07022 | 07022 | 07022 | 07022 | 07022 | 07022 | 07022 | 07022 | 07022 | 07022 | 07022 | 07022 | | 07022 | 07022 | | |
| ANIMAL ID | 00376 | 00377 | 00378 | 00379 | 00380 | 00381 | 00382 | 00383 | 00384 | 00385 | 00386 | 00387 | 00388 | 00389 | 00390 | 00391 | 00392 | 00393 | 00394 | 00395 | 00396 | 00397 | 00398 | 00399 | 00400 |
| Pituitary Gland Pars Distalis, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | 1 | | | | | 1 | | | 4 | | | | | | 2 | | | | | | 1 | | 1 | 1 | 18 1.7 |
| Thyroid Gland Follicle, Degeneration | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | 2 | | 1 | | 2 | 1 | | | | | 2 | | 2 | 1 | | | | 1 | 1 | 16 1.4 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|--------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | | | 2 | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Follicle, Cyst | X | | | | | | | | | | | X | | | | | | | | | X | | | | 4 | |
| Follicle, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Paraovarian Tissue, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | | | | | 4 | | | | | | | | | | | | | | | | | | | | 2 4.0 | |
| Infiltration Cellular, Neutrophil | | | | | | | | | | | | | | | | | | | | | | | 1 | | 4 1.0 | |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | | | | | | | | | | | | 1 | | | 1 1.0 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Inflammation, Acute | | | 2 | | | | | | | | 1 | | | | | | | | | | | | | | 2 1.5 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Polyarteritis Nodosa | | | | | | | 3 | | | | | | | | | | | | | | | | 3 | | 2 3.0 | |
| Endometrium, Hyperplasia, Cystic | 4 | 4 | 2 | | 4 | | 1 | 3 | | 4 | 1 | | | 4 | 3 | | 3 | 4 | | 3 | 2 | 2 | 2 | 1 | 2 | 42 2.3 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
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|-----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|--------|--|
| | 0730 | 0730 | 0731 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | | | 0739 | | | |
| ANIMAL ID | 00376 | 00377 | 00378 | 00379 | 00380 | 00381 | 00382 | 00383 | 00384 | 00385 | 00386 | 00387 | 00388 | 00389 | 00390 | 00391 | 00392 | 00393 | 00394 | 00395 | 00396 | 00397 | 00398 | 00399 | | |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Polyarteritis Nodosa | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Hypercellularity | 1 | | 2 | | 4 | 2 | | 3 | 2 | 3 | 2 | 3 | 4 | | | | | | | | | | 2 | | 20 2.2 | |
| Hypocellularity | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Lymph Node | | | | | | | | | | + | | | | | | | | | | | | | | | 3 | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Hyperplasia, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Extramedullary Hematopoiesis | | | | 1 | | | | | | | | | | | 3 | | | | | | | | 1 | | 3 1.7 | |
| Hyperplasia, Lymphocyte | | | | | | | 2 | | | | | | | | | | | | | | | | 1 | 1 | 4 2.0 | |
| Hyperplasia, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Lymphatic Sinus, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Extramedullary Hematopoiesis | | | | 1 | | | | | | | 1 | | | 1 | 1 | 1 | | | | | | | 1 | | 8 1.3 | |
| Infiltration Cellular, Histiocyte | 4 | | | | | | | | | | | | | | | | | | | | | | | | 2 4.0 | |
| Red Pulp, Atrophy | | | 3 | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| White Pulp, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| White Pulp, Hyperplasia | | | | | | | | | | 1 | | | | | | | | | | | | 3 | 2 | 3 | 6 2.0 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | | | 4 | | | | | | | | | | | | | | 4 | | | | | | | | 5 3.4 | |

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| | 0730 | 0730 | 0731 | 0732 | 0733 | 0734 | 0735 | 0736 | 0737 | 0738 | 0739 | 0740 | 0741 | 0742 | 0743 | 0744 | 0745 | 0746 | 0747 | 0748 | | 0749 |
| ANIMAL ID | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 4 1.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Nerve, Olfactory Epithelium, Atrophy | | | | | | | | | | | | | | | | | | | 1 | | | 1 1.0 |
| Olfactory Epithelium, Metaplasia | 1 | | | | 1 | | | 1 | | | | 1 | 1 | 1 | | 1 | | | | 2 | 1 | 13 1.1 |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | 4 | | | 1 4.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | 1 | | | | | | | | | | | | | | | | | | | | | 3 2.0 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Infarct | | | 2 | | | | | | | | | | | | | | 1 | | | | | 3 1.3 |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | 1 | | | 1 1.0 |
| Nephropathy, Chronic Progressive | | 1 | | 1 | 1 | | 1 | | | | 1 | | 1 | 1 | | | 1 | 1 | | 1 | 1 | 27 1.0 |
| Pigment | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Polyarteritis Nodosa | | | | | | | | | | | | | | | | | | | | | 2 | 2 2.0 |
| Renal Tubule, Accumulation, Hyaline Droplet | | | | | | | | | | 3 | | | | | | | | | | | | 1 3.0 |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | 3 | | | | | | | 3 2.7 |
| Renal Tubule, Regeneration | 1 | | | | | | | | 3 | | | | 1 | | | | 1 | | 1 | | 1 | 7 1.3 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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