

TDMS No. 60311 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cobalt

CAS Number: 7440-48-4

Date Report Requested: 09/08/2011

Time Report Requested: 08:23:28

First Dose M/F: 05/15/06 / 05/15/06

Lab: BNW

F1_M3

C Number: C60311
Lock Date: 12/03/2008
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.4.2.1_003
PWG Approval Date: NONE

B6C3F1 MICE MALE	DAY ON TEST	0729	0638	0729	0679	0771	0664	0772	0770	0774	0779	0770	0661	0779	0779	0770	0779	0771	0770	0773	0770	0672	0773	0682	0771	0773	0676	0771	0773
	ANIMAL ID	0001	0002	0003	0004	0005	0006	0007	0008	0009	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023	0024	0025	0026	0027	0028

males (cont...)

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Gallbladder	+	+	+	A	+	+	M	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	A	A	+	+	+	+
Intestine Large, Cecum	+	+	+	A	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	A	A	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+
Intestine Large, Rectum	+	+	+	A	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	A	A	+	+	+	+
Intestine Small, Duodenum Inflammation, Chronic Active	+	+	+	A	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	A	A	+	+	+	+
Intestine Small, Ileum	+	+	+	A	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	A	A	+	+	+	+
Intestine Small, Jejunum	+	+	+	A	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	A	A	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Basophilic Focus												X																	X
Clear Cell Focus			X		X		X					X	X			X					X	X							
Eosinophilic Focus									X												X								
Mixed Cell Focus													X																
Necrosis																													4
Tension Lipidosis																													
Mesentery	+						+																+						
Fat, Necrosis	2						2																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

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		7	6	7	6	7	7	6	7	7	7	7	7	6	7	7	7	7	7	7	7	2	7	6	7	7
ANIMAL ID		2	3	2	4	2	3	8	2	3	0	2	2	3	5	2	2	3	2	3	3	2	3	8	1	3
		9	8	9	6	9	1	4	9	0	4	9	9	0	1	9	9	0	9	1	0	9	0	2	6	0
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	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	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	2	2	2	2
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach Hyperplasia, Squamous Ulcer		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Glandular Necrosis		+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	A	+	
Tooth Dysplasia															+						+					
															3										3	
CARDIOVASCULAR SYSTEM																										
Heart		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy							1		1					1		1				1			1			
Mineralization																									1	
Thrombosis																									2	
ENDOCRINE SYSTEM																										
Adrenal Cortex		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia								2																	3	
Hypertrophy			2	2	2						2		2				2		2							
Necrosis																										
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																										

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 X .. Lesion present A .. Autolysis precludes evaluation
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1-4 .. Lesion qualified as:
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B6C3F1 MICE MALE control	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		males (cont...)
	7	6	7	6	7	7	6	7	7	7	7	7	6	7	7	7	7	7	7	7	6	7	7	6	7			
	2	3	2	4	2	3	8	2	3	0	2	2	3	5	2	2	3	2	3	3	2	3	8	1	3	0		
	9	8	9	6	9	1	4	9	0	4	9	0	1	9	9	0	9	1	0	0	9	0	2	6	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	0	0	0	0	0	0	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	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	1		

Islets, Pancreatic Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+			
						3										2												
Parathyroid Gland	+	+	+	+	M	+	+	+	M	+	+	+	+	+	+	M	+	+	M	M	+	M	M	M	+			
Pituitary Gland Pars Distalis, Hyperplasia	+	+	+	I	+	+	+	+	+	+	+	+	+	M	+	+	I	+	+	+	+	+	+	+	+			
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis Granuloma Sperm	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			2			
Preputial Gland Ectasia Inflammation, Chronic Active	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+						
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	A	+					
Testes Germinal Epithelium, Degeneration	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	2	1	1	2	1	1

HEMATOPOIETIC SYSTEM

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B6C3F1 MICE MALE control	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	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	6	7	6	7	7	6	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	6	7	7		
	2	3	2	4	2	3	8	2	3	0	2	2	3	5	2	2	3	2	3	3	2	3	8	1	3		
	9	8	9	6	9	1	4	9	0	4	9	9	0	1	9	9	0	9	1	0	9	0	2	6	0		

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Lymph Node Renal, Hemorrhage																									+	+
Lymph Node, Bronchial	+	M	+	M	M	+	+	M	M	M	+	+	M	M	M	M	M	M	M	M	M	+	M	M		
Lymph Node, Mandibular	+	M	+	M	+	+	M	+	M	+	+	+	M	+	+	M	+	+	+	+	+	+	+	+		M
Lymph Node, Mediastinal	M	+	+	+	+	+	+	+	+	M	+	+	+	+	M	+	+	+	+	+	+	+	+	+		
Lymph Node, Mesenteric Hemorrhage	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+		
Spleen Hematopoietic Cell Proliferation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Thymus	+	+	+	+	M	+	+	+	+	+	+	+	+	M	M	+	+	+	+	M	+	+	+	+		

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		
Skin Inflammation, Chronic Active Subcutaneous Tissue, Edema	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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	0729	0638	0729	0646	0771	0676	0777	0682	0779	0693	0774	0699	0770	0604	0777	0611	0777	0617	0773	0633	0773	0638	0771	0677	0773	
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	
	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	

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Peripheral Nerve Degeneration																								
Spinal Cord																								

RESPIRATORY SYSTEM

Larynx	+	+	+	+	I	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Suppurative									1			1	1		1							1		
Inflammation, Chronic																								
Respiratory Epithelium, Metaplasia, Squamous																					1			
Squamous Epithelium, Erosion																								
Squamous Epithelium, Hyperplasia																								1
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Suppurative																								
Proteinosis													1											
Alveolar Epithelium, Hyperplasia					1																2			
Alveolus, Infiltration Cellular, Histiocyte				1								4	1											
Bronchiole, Epithelium, Hyperplasia							3																	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Suppurative				1	1			1					1	1	1									1
Olfactory Epithelium, Atrophy																						1		
Olfactory Epithelium, Metaplasia, Respiratory							2																	1
Respiratory Epithelium, Accumulation, Hyaline Droplet				1					1		1		1		1		1		2					

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	0729	0638	0779	0664	0772	0776	0667	0776	0777	0777	0777	0777	0666	0776	0777	0777	0777	0777	0777	0666	0777	0777	0666		
	0	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	6	7	7	6	7	7	7	7	7	6	7	7	7	7	7	7	7	6	7	7	7	7
	2	3	2	4	2	3	8	2	3	0	2	2	3	5	2	2	3	2	3	3	2	3	8	1	3
	9	8	9	6	9	1	4	9	0	4	9	9	0	1	9	9	0	9	1	0	9	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	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	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
	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
Respiratory Epithelium, Hyperplasia	1			1	1	1		1	2	1	1	1	2		2	1	2	2	1	2	2	1	2	1	
Respiratory Epithelium, Metaplasia, Squamous								1																	
Squamous Epithelium, Erosion																									
Turbinate, Atrophy								2																	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	A	+	+
SPECIAL SENSES SYSTEM																									
Eye	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	
Cataract																									
Cornea, Inflammation, Chronic Active														4			3								
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	
Hyperplasia														3											
URINARY SYSTEM																									
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst								2																	
Infarct		2				2																			
Nephropathy	1		1	2	4	2	1	1	1	2	1	2	1		1	1	1	2	3	3	2	2	1	1	1
Capsule, Hemorrhage																									
Pelvis, Inflammation, Suppurative																							2		
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Chronic Active																							3		
Transitional Epithelium, Hyperplasia																							3		

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	ANIMAL ID	2 9	6 1	2 9	2 9	3 0	3 0	2 9	3 0	4 6	3 0	2 9	3 0	3 1	2 9	2 9	3 0	2 9	2 8	3 9	3 0	3 0	3 0		2 9	
control	ANIMAL ID	0 0 0 2 6	0 0 0 2 7	0 0 0 2 8	0 0 0 2 9	0 0 0 3 0	0 0 0 3 1	0 0 0 3 2	0 0 0 3 3	0 0 0 3 4	0 0 0 3 5	0 0 0 3 6	0 0 0 3 7	0 0 0 3 8	0 0 0 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

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Gallbladder	+	+	+	+		+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	43	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	45	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	47	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+		+	+	+	+	44	
Intestine Small, Duodenum Inflammation, Chronic Active	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	45	1 4.0
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	45	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	45	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Basophilic Focus		X																				X		4	
Clear Cell Focus			X	X			X				X				X		X	X				X	X	17	
Eosinophilic Focus							X					X					X				X			6	
Mixed Cell Focus																								1	
Necrosis																		3						2	3.5
Tension Lipidosis																				1		1		2	1.0
Mesentery					+								+											5	
Fat, Necrosis					2								2											5	2.0

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B6C3F1 MICE MALE	DAY ON TEST	0 7 2 9	0 5 6 1	0 7 2 9	0 7 2 9	0 7 3 0	0 7 3 0	0 7 2 9	0 7 3 0	0 6 4 6	0 7 3 0	0 7 2 9	0 7 3 0	0 7 3 1	0 6 2 9	0 7 2 9	0 7 3 0	0 7 2 9	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	* TOTALS
	ANIMAL ID	0 0 0 2 6	0 0 0 2 7	0 0 0 2 8	0 0 0 2 9	0 0 0 3 0	0 0 0 3 1	0 0 0 3 2	0 0 0 3 3	0 0 0 3 3	0 0 0 3 3	0 0 0 3 3	0 0 0 3 3	0 0 0 3 3	0 0 0 3 3	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	

Pancreas	+ +	50	
Salivary Glands	+ +	50	
Stomach, Forestomach Hyperplasia, Squamous Ulcer	+ +	50	1 1.0 1 2.0
Stomach, Glandular Necrosis	+ +	48	1 1.0
Tooth Dysplasia	+ +	8	8 3.0

CARDIOVASCULAR SYSTEM

Heart	+ +	50	
Cardiomyopathy	1 +		13 1.1
Mineralization	+ +		1 1.0
Thrombosis	+ +		1 2.0

ENDOCRINE SYSTEM

Adrenal Cortex	+ +	50	
Hyperplasia	+ +		6 2.2
Hypertrophy	+ +		18 2.0
Necrosis	+ +		1 1.0
Adrenal Medulla	+ +	50	
Hyperplasia	+ +		2 2.0

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

+ .. Tissue examined microscopically

X .. Lesion present

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BLANK .. Not examined microscopically

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TDMS No. 60311 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cobalt

CAS Number: 7440-48-4

Date Report Requested: 09/08/2011

Time Report Requested: 08:23:28

First Dose M/F: 05/15/06 / 05/15/06

Lab: BNW

B6C3F1 MICE MALE control	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	5	7	7	7	7	7	6	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7		
		2	6	2	2	3	3	2	3	4	3	2	3	3	2	9	2	3	2	0	2	3	3	3	2		
		9	1	9	9	0	0	9	0	6	0	9	0	1	9	2	9	0	9	8	9	0	0	0	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		
		2	2	2	2	3	3	3	3	3	3	3	3	3	3	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		
Islets, Pancreatic Hyperplasia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	2 2.5	
Parathyroid Gland		M	+	M	M	+	M	M	M	+	+	M	M	M	+	+	M	+	M	+	M	+	+	+	M	29	
Pituitary Gland Pars Distalis, Hyperplasia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47	1 3.0
Thyroid Gland		+	+	+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49		
GENERAL BODY SYSTEM																											
NONE																											
GENITAL SYSTEM																											
Epididymis Granuloma Sperm		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	2 2.5
Preputial Gland Ectasia Inflammation, Chronic Active		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	1 4.0 1 3.0	
Prostate		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Seminal Vesicle		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48		
Testes Germinal Epithelium, Degeneration		+	+	+	+	+	+	+	2	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	9 1.6	
HEMATOPOIETIC SYSTEM																											

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TDMS No. 60311 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cobalt

CAS Number: 7440-48-4

Date Report Requested: 09/08/2011

Time Report Requested: 08:23:28

First Dose M/F: 05/15/06 / 05/15/06

Lab: BNW

B6C3F1 MICE MALE control	DAY ON TEST																						* TOTALS			
	0729	0729	0729	0729	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730		0730		
ANIMAL ID	000267	000268	000269	000270	000271	000272	000273	000274	000275	000276	000277	000278	000279	000280	000281	000282	000283	000284	000285	000286	000287	000288	000289	000290		
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Lymph Node Renal, Hemorrhage																								2 1 4.0		
Lymph Node, Bronchial	M	+	+	+	+	+	+	+	+	M	+	+	+	M	+	+	M	+	M	M	+	+	+	26		
Lymph Node, Mandibular	+	M	+	M	+	+	+	+	+	M	+	+	+	+	+	M	+	+	M	+	+	M	+	37		
Lymph Node, Mediastinal	+	+	M	+	M	M	M	M	M	+	M	+	M	+	+	+	+	M	M	M	+	M	+	34		
Lymph Node, Mesenteric Hemorrhage	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	47 1 4.0		
Spleen Hematopoietic Cell Proliferation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 5 2.2		
Thymus	+	+	M	+	+	+	M	+	+	+	+	+	+	+	+	M	+	+	M	+	+	+	+	42		
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	0	
Skin Inflammation, Chronic Active Subcutaneous Tissue, Edema	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1 3.0 1 3.0		
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		

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B6C3F1 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	* TOTALS
		7	5	7	7	7	7	7	6	7	7	7	7	6	7	7	6	7	7	7	7	7	7	7	
	control	2	6	2	2	3	3	2	3	4	3	2	3	3	2	9	2	3	3	2	0	3	3	3	
	ANIMAL ID	9	1	9	9	0	0	9	0	0	0	0	0	0	9	0	9	0	9	8	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	
		2	2	2	2	3	3	3	3	3	3	3	3	3	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	9	

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Peripheral Nerve Degeneration																									1
																									3.0
Spinal Cord																									1

RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Inflammation, Suppurative													1							1					7
Inflammation, Chronic										1															1.0
Respiratory Epithelium, Metaplasia, Squamous					1	1										1					1				7
Squamous Epithelium, Erosion										1															1.0
Squamous Epithelium, Hyperplasia										1															2
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation, Suppurative																								1	1
Proteinosis																								1	1.0
Alveolar Epithelium, Hyperplasia					4					2															4
Alveolus, Infiltration Cellular, Histocyte						1		1			1												3		10
Bronchiole, Epithelium, Hyperplasia							2	4							1										4
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation, Suppurative						1					1	2	2										1	1	16
Olfactory Epithelium, Atrophy														1										1	3
Olfactory Epithelium, Metaplasia, Respiratory												1	2											1	5
Respiratory Epithelium, Accumulation, Hyaline Droplet									1		2					1	1					1		13	

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B6C3F1 MICE MALE control	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	0729	0729	0729				
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			
Respiratory Epithelium, Hyperplasia	1	2		2	2	1	2	2	1	1	2	2	1	1	2	2	1	1	1	1	2	2	1	1	1	44	1.4	
Respiratory Epithelium, Metaplasia, Squamous											1	1														3	1.0	
Squamous Epithelium, Erosion											1															1	1.0	
Turbinate, Atrophy												1													1	3	1.3	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48		
SPECIAL SENSES SYSTEM																												
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	47		
Cataract															3												1	3.0
Cornea, Inflammation, Chronic Active											1	3															4	2.8
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49		
Hyperplasia																											1	3.0
URINARY SYSTEM																												
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Cyst																											1	2.0
Infarct																											2	2.0
Nephropathy	2	3	1	1	1	1	1	1	2		2	1	2	1		1	1	2	1	1	1	1	1	1	2	46	1.5	
Capsule, Hemorrhage																4											1	4.0
Pelvis, Inflammation, Suppurative																											1	2.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	48		
Inflammation, Chronic Active																											1	3.0
Transitional Epithelium, Hyperplasia																											1	3.0

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B6C3F1 MICE MALE	DAY ON TEST	0729	0729	0729	0678	0770	0771	0772	0773	0774	0775	0776	0777	0778	0779	0664	0667	0775	0773	0773	0773	0773	0773	0558	0559	males (cont...)
	ANIMAL ID	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Gallbladder	+	M	+	M	+	M	A	+	+	+	+	M	+	+	+	+	+	+	+	+	+	M	M	+	+
Intestine Large, Cecum	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	I	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum Inflammation, Acute	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																									
Basophilic Focus							X					X												X	
Clear Cell Focus										X	X	X	X	X	X						X	X	X		
Eosinophilic Focus																									X
Hepatodiaphragmatic Nodule Necrosis																	X								
Mesentery								+								+						+			
Fat, Necrosis																2							2		

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B6C3F1 MICE MALE 1.25 mg/m3	DAY ON TEST		ANIMAL ID																				males (cont...)		
	0 7 2 9	0 7 2 9	0 7 2 9	0 6 1 8	0 7 2 9	0 7 3 0	0 7 2 1	0 7 3 0	0 7 2 3	0 7 3 2	0 7 2 3	0 7 2 3	0 7 2 3	0 7 2 3	0 7 2 3	0 6 8 4	0 6 1 7	0 7 1 5	0 7 3 0	0 7 3 1	0 7 3 1	0 7 3 1		0 7 3 1	0 5 8 9
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Salivary Glands Inflammation, Chronic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach Hyperplasia, Squamous Inflammation, Chronic Active Ulcer	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1			1
Stomach, Glandular Necrosis Ulcer	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Tooth Dysplasia Inflammation, Chronic Active																		+							4

CARDIOVASCULAR SYSTEM

Heart Cardiomyopathy Inflammation, Suppurative Mineralization	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

ENDOCRINE SYSTEM

Adrenal Cortex Hyperplasia Hypertrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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B6C3F1 MICE MALE	DAY ON TEST	0729	0729	0729	0678	0770	0771	0773	0773	0777	0777	0779	0779	0779	0779	0668	0667	0777	0777	0777	0777	0777	0777	0777	0588	0666	0777	0777	0777	0777	0777	0777	males (cont...)
	ANIMAL ID	0001	0002	0003	0004	0005	0006	0007	0008	0009	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023	0024	0025	0026	0027	0028	0029	0030	0031	

Adrenal Medulla Hyperplasia	+																															
	2		2																													
Islets, Pancreatic Hyperplasia	+																															
Parathyroid Gland	M	M	+	M	M	+	+	+	+	+	M	+	+	+	+	M	M	M	+	+	+	+	I	M								
Pituitary Gland Pars Distalis, Hyperplasia	+																							3			3					
Thyroid Gland	+																															

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Coagulating Gland																															
Epididymis	+																														
Preputial Gland Ectasia Inflammation, Chronic Active	+																							3							
Prostate Inflammation, Acute	+																														
Seminal Vesicle	+																														

* .. 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 1-4 .. Lesion qualified as:
I .. Insufficient tissue BLANK .. Not examined microscopically 1) Minimal 3) Moderate
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TDMS No. 60311 - 06
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cobalt

CAS Number: 7440-48-4

Date Report Requested: 09/08/2011
 Time Report Requested: 08:23:28
 First Dose M/F: 05/15/06 / 05/15/06
 Lab: BNW

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

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle				+										+												+

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Histiocyte Necrosis																									

RESPIRATORY SYSTEM

Larynx	+	+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Suppurative																									
Inflammation, Chronic																									
Respiratory Epithelium, Metaplasia, Squamous	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Respiratory Epithelium, Vacuolization Cytoplasmic		1						1		1		1	1					1				1		1	
Squamous Epithelium, Erosion																		1							
Squamous Epithelium, Hyperplasia									1									1							
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Suppurative			3																						
Proteinosis	2		2	1	1	2		1	2	1	2	1	1	2	2	3	1		2	2	1	2	3	1	2
Alveolar/bronchiolar Epithelium, Hyperplasia	1		1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1
Alveolar/bronchiolar Epithelium, Vacuolization Cytoplasmic	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	2	2	1	1	1	1	1	1
Alveolar Epithelium, Hyperplasia	1			1	4	4		1			1	2	4	3	2		1		1		1	1			
Alveolus, Infiltration Cellular, Histiocyte	3	2	3	1	1	1	1	1	3	1	2	1	1	1	1	2	1	4	3	2	1	1	4	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

B6C3F1 MICE MALE 1.25 mg/m3	DAY ON TEST																								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		
	7	7	7	6	7	7	7	7	7	7	7	7	7	7	7	6	6	7	7	7	7	7	7	5	
	2	2	2	1	2	3	2	3	2	2	3	2	2	3	3	2	2	8	1	1	3	3	3	3	
	9	9	9	8	9	0	1	0	0	0	0	0	0	0	0	0	4	7	5	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	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	
	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

Bronchiole, Epithelium, Erosion				1																				1
Bronchiole, Epithelium, Hyperplasia	2											1												1
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Suppurative	2	2	2	2						1	3		2			2		1	2	3	1	2		1
Olfactory Epithelium, Atrophy	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2	1	1	1	1	1
Olfactory Epithelium, Hyperplasia			1			1	1					1		2		2	1	2	1				1	1
Olfactory Epithelium, Metaplasia, Respiratory	1	1	2	1			1			1	1								1	1			1	1
Olfactory Epithelium, Respiratory Metaplasia, Atypical												2		4	2	2				4				1
Respiratory Epithelium, Accumulation, Hyaline Droplet	1	1			2		1		1	1	1	1			1			1	1	1	1		1	
Respiratory Epithelium, Erosion																							1	
Respiratory Epithelium, Hyperplasia		1	1	1	1	1	1	1		1	1	1	1	1	1	1			2	2	1	2	1	1
Respiratory Epithelium, Metaplasia, Squamous	1	1	1			1	1	1			1	1	1	1	1	1	1	1	1	1	1	2	1	1
Respiratory Epithelium, Vacuolization Cytoplasmic	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	2	2		1
Squamous Epithelium, Erosion																								
Turbinate, Atrophy	1	2	2	1						2		1			1		1			2	1			1
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Epithelium, Vacuolization Cytoplasmic				1						1	1	2					2							1

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cornea, Inflammation, Chronic Active																								
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Zymbal's Gland																								

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 + .. Tissue examined microscopically
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 M .. Missing tissue
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 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

B6C3F1 MICE MALE	DAY ON TEST	0729	0660	0730	0735	0737	0633	0739	0672	0571	0731	0671	0667	0767	0671	0572	0772	0571	0773	0773	0671	0673	0661	0663	0663	* TOTALS
	ANIMAL ID	002226	002227	002228	002229	002230	002231	002232	002233	002234	002235	002236	002237	002238	002239	002240	002241	002242	002243	002244	002245	002246	002247	002248	002249	
		002250	002251	002252	002253	002254	002255	002256	002257	002258	002259	002260	002261	002262	002263	002264	002265	002266	002267	002268	002269	002270	002271	002272	002273	

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Gallbladder	+	+	+	+	A	+	+	+	+	+	A	A	M	+	+	+	+	+	+	+	+	M	M	+	37	
Intestine Large, Cecum	+	+	+	+	A	+	+	+	+	+	A	A	+	+	+	+	+	+	+	A	+	+	+	+	45	
Intestine Large, Colon	+	+	+	+	A	+	+	+	+	+	A	A	+	+	+	+	+	+	+	A	+	+	+	+	45	
Intestine Large, Rectum	+	+	+	+	A	+	+	+	I	+	+	A	A	+	+	+	+	+	+	A	+	+	+	+	44	
Intestine Small, Duodenum	+	+	+	+	A	+	+	+	+	+	A	A	+	+	+	+	+	+	+	A	+	+	+	+	44	
Intestine Small, Ileum Inflammation, Acute	+	+	+	+	A	+	+	+	+	+	A	A	+	+	+	+	+	+	+	A	+	+	+	+	45	1 4.0
Intestine Small, Jejunum	+	+	+	+	A	+	+	+	+	+	A	A	+	+	+	+	+	+	+	A	+	+	+	+	45	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Angiectasis																									1 2.0	
Basophilic Focus				X																					4	
Clear Cell Focus			X	X		X		X		X	X							X			X				17	
Eosinophilic Focus				X								X			X										5	
Hepatodiaphragmatic Nodule							X												X						3	
Necrosis					3								2										2		3 2.3	
Mesentery					+																		+	5		
Fat, Necrosis					2																		2		4 2.0	

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 + .. Tissue examined microscopically
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 M .. Missing tissue
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 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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 2) Mild 4) Marked

B6C3F1 MICE MALE 1.25 mg/m3	DAY ON TEST	ANIMAL ID																								* TOTALS
		0729	0660	0730	0733	0453	0733	0639	0752	0531	0771	0676	0712	0611	0717	0677	0777	0575	0777	0333	0733	0030	0033	0031	0031	

Pancreas	+	+	+	+	A	+	+	+	+	+	+	A	+	+	+	+	+	+	+	A	+	+	+	+	47
Salivary Glands Inflammation, Chronic	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49 1 2.0
Stomach, Forestomach Hyperplasia, Squamous Inflammation, Chronic Active Ulcer	+	+	+	+	A	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	48 2 1.5 1 1.0 5 1.8
Stomach, Glandular Necrosis Ulcer	+	+	+	+	A	+	+	+	+	+	+	A	A	+	+	+	+	+	+	+	A	+	+	+	46 1 1.0 1 3.0
Tooth Dysplasia Inflammation, Chronic Active															+									2 1 4.0 1 3.0	

CARDIOVASCULAR SYSTEM

Heart Cardiomyopathy Inflammation, Suppurative Mineralization	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 5 1.2 1 1.0 1 2.0
--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	-------------------------------

ENDOCRINE SYSTEM

Adrenal Cortex Hyperplasia Hypertrophy	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49 10 2.1 9 2.0
--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	-----------------------

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+ .. 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 MICE MALE 1.25 mg/m3	DAY ON TEST	0729	0660	0763	0773	0475	0763	0779	0751	0771	0672	0767	0676	0771	0776	0575	0773	0773	0731	0773	0666	0666	0666	* TOTALS
	ANIMAL ID	00226	00227	00228	00229	00230	00231	00232	00233	00234	00235	00236	00237	00238	00239	00240	00241	00242	00243	00244	00245	00246	00247	

Adrenal Medulla Hyperplasia	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	2 2.0		
Islets, Pancreatic Hyperplasia	+	+	+	+	A	+	+	+	+	+	2	A	+	+	+	+	+	+	+	2	3	A	+	+	+	+	47	3 2.3
Parathyroid Gland	+	M	M	M	A	M	M	M	M	+	M	M	M	M	+	+	+	+	M	M	+	+	M	+	+	25		
Pituitary Gland Pars Distalis, Hyperplasia	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	2 3.0	
Thyroid Gland	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49		

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Coagulating Gland																											1	
Epididymis	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49		
Preputial Gland Ectasia Inflammation, Chronic Active	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1 3.0 1 3.0	
Prostate Inflammation, Acute	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	1 3.0	
Seminal Vesicle	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	48	

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+ .. 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 MICE MALE	DAY ON TEST	0729	0660	0730	0743	0770	0679	0762	0572	0751	0771	0676	0771	0676	0777	0575	0773	0773	0131	0733	0668	0666	0663	* TOTALS
	ANIMAL ID	002226	002227	002228	002229	002230	002231	002232	002233	002234	002235	002236	002237	002238	002239	002240	002241	002242	002243	002244	002245	002246	002247	

Congestion
Inflammation, Chronic Active 1 3.0
2 1 2.0

Testes
Germinal Epithelium, Degeneration 49
14 1.6

HEMATOPOIETIC SYSTEM

Bone Marrow 49

Lymph Node, Bronchial 32

Lymph Node, Mandibular 23

Lymph Node, Mediastinal 34

Lymph Node, Mesenteric Hemorrhage 44
1 4.0

Spleen Infarct 48
1 3.0

Thymus 44

INTEGUMENTARY SYSTEM

Mammary Gland 0

Skin Inflammation, Chronic Active 50
1 3.0

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 BLANK .. Not examined microscopically

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

B6C3F1 MICE MALE	DAY ON TEST	0730	0729	0731	0674	0731	0671	0673	0673	0636	0662	0666	0629	0672	0677	0677	0669	0676	0677	0677	0677	0677	males (cont...)
	ANIMAL ID	0040	0044	0044	0044	0044	0044	0044	0044	0044	0044	0044	0044	0044	0044	0044	0044	0044	0044	0044	0044	0044	

ALIMENTARY SYSTEM

Esophagus Arteriole, Inflammation, Acute	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
	3																							
Gallbladder Degeneration, Hyaline	+	+	M	+	+	M	I	+	+	+	+	+	M	M	+	+	I	I	+	A	+	+	M	+
	3																							
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	A	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+
Intestine Small, Duodenum Ulcer	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+
												4												
Intestine Small, Ileum Inflammation, Chronic Active	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	A	+	+	+
												3												
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	A	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Basophilic Focus												X												
Clear Cell Focus	X													X										
Eosinophilic Focus												X												
Fatty Change																								
Hemorrhage												3												
Inflammation, Chronic																								
Necrosis												2												

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+ .. Tissue examined microscopically

X .. Lesion present

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1-4 .. Lesion qualified as:

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2) Mild 4) Marked

B6C3F1 MICE MALE	DAY ON TEST	0730	0723	0773	0664	0773	0667	0733	0046	0072	0057	0077	0077	0077	0066	0077	0066	0077	0066	0077	0077	0077	0077	0077		
	ANIMAL ID	0040	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004		
2.5 mg/m3		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...)

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node																									
Lymph Node, Bronchial	M	+	+	M	+	M	+	+	+	+	M	M	+	+	M	+	M	M	+	+	M	M	M	+	
Lymph Node, Mandibular	M	+	M	+	M	+	M	+	+	+	+	+	+	M	+	M	+	+	M	+	M	M	M	+	+
Lymph Node, Mediastinal	+	M	+	+	M	+	M	+	+	+	+	+	+	+	+	+	+	+	M	+	M	M	M	+	M
Lymph Node, Mesenteric Hyperplasia, Lymphoid	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Thymus	+	+	M	+	+	M	+	+	+	+	+	+	+	+	M	+	+	+	+	+	M	+	+	+	+

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
Skin Inflammation, Chronic Active Metaplasia, Osseous	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

* .. 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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 BLANK .. Not examined microscopically
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 1) Minimal 3) Moderate
 2) Mild 4) Marked

B6C3F1 MICE MALE	DAY ON TEST	0730	0723	0771	0643	0771	0663	0733	0066	0026	0016	0071	0077	0077	0067	0076	0077	0067	0077	0077	0077	0077
	ANIMAL ID	0040	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
2.5 mg/m3		12	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2

males (cont...)

Skeletal Muscle

NERVOUS SYSTEM

Brain +

RESPIRATORY SYSTEM

Larynx +

Inflammation, Suppurative

Arteriole, Inflammation, Acute 3

Respiratory Epithelium, Metaplasia, Squamous 1

Respiratory Epithelium, Vacuolization 1

Cytoplasmic

Squamous Epithelium, Hyperplasia 1 1

Lung +

Inflammation, Suppurative 1 2 1

Proteinosis 3 4 3 3 4 3 3 2 2 2 2 3 3 4 4 3 2 4 3 3 3 3 4 3 2

Alveolar/bronchiolar Epithelium, Hyperplasia 2 2 2 1 1 1 2 2 1 2 1 2 1 2 2 1 1 1 2 1 1 1 2 1

Alveolar/bronchiolar Epithelium, Vacuolization 3 3 3 2 2 2 2 2 2 2 1 2 2 2 3 2 2 1 2 1 2 2 2 1 2

Cytoplasmic

Alveolar Epithelium, Hyperplasia 1 1 1 4 1 1 1 1 1 4

Alveolus, Infiltration Cellular, Histiocyte 3 3 3 2 2 2 3 1 3 2 3 3 3 2 2 3 2 3 2 2 2 2 2 3 2

Bronchiole, Epithelium, Erosion 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 1 2 1

Bronchiole, Epithelium, Hyperplasia 1 1 3 1 2 1

Nose +

Inflammation, Suppurative 4 3 4 3 3 3 4 2 3 4 3 4 2 1 4 3 3 2 2 3 3 2 4 2 3

Olfactory Epithelium, Atrophy 1 1 1 1 1 2 1 2 1 1 1 1 1 1 1 1 1 2 2 1 2 1

Olfactory Epithelium, Hyperplasia 1 1

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+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

B6C3F1 MICE MALE 2.5 mg/m3	DAY ON TEST																				ANIMAL ID	males (cont...)				
	0730	0731	0732	0733	0734	0735	0736	0737	0738	0739	0740	0741	0742	0743	0744	0745	0746	0747	0748	0749			0750			
Olfactory Epithelium, Metaplasia, Respiratory	4	3	3	3	3	2	3		2	2	2	1	1	3	3	3	3	4	1	2	3		2	2		
Olfactory Epithelium, Respiratory Metaplasia, Atypical		1					1						1				1						1	1		
Respiratory Epithelium, Accumulation, Hyaline Droplet	1	1	1	1		1			1	1	1				1	1	1		1	1				2		
Respiratory Epithelium, Hyperplasia		1	1	1	1		2						1	1	1	1	1	1	2	1		1	2	1		
Respiratory Epithelium, Metaplasia, Squamous		1		2		1	1		1		1	1			1	1	1	1	2	1	1	1	2	1	1	
Respiratory Epithelium, Vacuolization Cytoplasmic		1	1	1	1	1	1	1	2	2		1		1			1			1	1	1	1	1	1	
Squamous Epithelium, Erosion					1												1									
Turbinate, Atrophy	3	3	2	3	2	2	3	2	2	2	2	2	2	2	2	3	2	3	2	2	2	3	2	2	2	
Trachea Epithelium, Vacuolization Cytoplasmic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+	+	+	+	+	
	1	2		1		3	1		1			2		1	2	2	1		1		2	2	2	2	2	
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	A	+	+	+	+
Cornea, Inflammation, Chronic Active																										
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infarct																										
Nephropathy	1	1	1	1	1	3	1	2	1	1	1	2	1	1	1	1	2	1	1	2	1	1	1	1	3	
Thrombosis																										
Renal Tubule, Hyperplasia																						3				
Renal Tubule, Necrosis																	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

B6C3F1 MICE MALE	DAY ON TEST	07030	07030	07030	07030	07030	07030	07030	07030	07030	07030	07030	07030	07030	07030	07030	07030	07030	07030	07030	07030	07030	07030	07030	07030	07030	males (cont...)
	ANIMAL ID	00401	00402	00403	00404	00405	00406	00407	00408	00409	00410	00411	00412	00413	00414	00415	00416	00417	00418	00419	00420	00421	00422	00423	00424	00425	

Urinary Bladder
Transitional Epithelium, Hyperplasia

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
													3													

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

B6C3F1 MICE MALE	DAY ON TEST	0660	0730	0723	0722	0533	0722	0722	0466	0591	0662	0763	0675	0733	0653	0733	0393	0733	0372	0700	0733	0733	0388	0382	* TOTALS
	ANIMAL ID	00426	00427	00428	00429	00430	00431	00432	00433	00434	00435	00436	00437	00438	00439	00440	00441	00442	00443	00444	00445	00446	00447	00448	

ALIMENTARY SYSTEM

Esophagus Arteriole, Inflammation, Acute	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1 3.0
Gallbladder Degeneration, Hyaline	+	+	+	+	A	M	I	+	A	+	+	+	A	+	+	+	+	+	+	A	+	+	A	34	1 3.0	
Intestine Large, Cecum	+	+	+	+	A	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	A	+	+	A	44	
Intestine Large, Colon	+	+	+	+	A	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	A	+	+	A	45	
Intestine Large, Rectum	+	+	+	+	A	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	A	+	+	A	45	
Intestine Small, Duodenum Ulcer	+	+	+	+	A	+	+	+	A	+	+	+	A	+	+	+	+	+	+	+	A	+	+	A	44	1 4.0
Intestine Small, Ileum Inflammation, Chronic Active	+	+	+	+	A	+	+	+	A	+	+	+	A	+	+	+	+	+	+	+	A	+	+	A	43	1 3.0
Intestine Small, Jejunum	+	+	+	+	A	+	+	+	A	+	+	+	A	+	+	+	+	+	+	+	A	+	+	A	43	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Basophilic Focus							X										X			X					6	
Clear Cell Focus								X				X								X					8	
Eosinophilic Focus	X						X													X					4	
Fatty Change									2																1	2.0
Hemorrhage																									1	3.0
Inflammation, Chronic							2																		1	2.0
Necrosis																									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

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BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

B6C3F1 MICE MALE 2.5 mg/m3	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	* TOTALS		
	ANIMAL ID	6	7	7	7	5	7	7	4	5	6	6	7	6	7	7	6	7	3	7	7	3	7	3			
Tension Lipidosis		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2 1.5		
Mesentery Fat, Necrosis		6	3	2	2	3	2	2	6	9	1	2	3	5	3	3	8	3	9	3	2	0	3	3	5	5 2.0	
Pancreas Atrophy		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	1 2.0	
Salivary Glands		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50		
Stomach, Forestomach Hyperplasia, Squamous Ulcer		6	7	7	7	9	9	9	0	7	7	0	2	0	0	0	0	0	0	0	0	0	0	0	50	2 2.0	
Stomach, Glandular Necrosis Arteriole, Inflammation, Acute		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	48	1 2.0	
Tooth Dysplasia		2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	2	1 3.0	
		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	2 3.5
CARDIOVASCULAR SYSTEM																											
Heart Cardiomyopathy Necrosis																								50	12 1.0		
																								1	1 3.0		
ENDOCRINE SYSTEM																											
Adrenal Cortex Hyperplasia																								50	2 2.0		

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B6C3F1 MICE MALE 2.5 mg/m3	DAY ON TEST																								* TOTALS		
	0660	0733	0723	0729	0573	0772	0779	0446	0559	0661	0667	0772	0663	0775	0773	0668	0773	0773	0339	0333	0776	0773	0773	0338			
ANIMAL ID	00426	00442	00422	00422	00433	00433	00433	00433	00433	00433	00433	00433	00433	00433	00433	00433	00433	00433	00433	00433	00433	00433	00433	00433			
Hypertrophy	2						2						2	2	2					2					12 2.0		
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Parathyroid Gland	M	+	M	+	M	M	+	+	M	M	+	+	+	M	+	M	+	+	+	+	M	+	+	M	+	26	
Pituitary Gland Pars Distalis, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	A	48	1 2.0	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
GENERAL BODY SYSTEM																											
NONE																											
GENITAL SYSTEM																											
Epididymis Granuloma Sperm	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1 2.0
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	49	
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	48	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Testes Germinal Epithelium, Degeneration	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	8 1.6

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 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 60311 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cobalt

CAS Number: 7440-48-4

Date Report Requested: 09/08/2011

Time Report Requested: 08:23:28

First Dose M/F: 05/15/06 / 05/15/06

Lab: BNW

B6C3F1 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	
		6	7	7	7	5	7	7	4	5	6	6	7	6	7	7	6	7	3	7	7	7	7	7	7	3
		6	3	2	2	3	2	2	6	9	1	2	3	5	3	3	8	3	3	9	3	2	0	3	3	8
2.5 mg/m3	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	
		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
		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	9	
																							* TOTALS			

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymph Node																									1
Lymph Node, Bronchial	M	M	M	+	M	M	M	M	M	+	M	+	M	M	M	M	M	+	+	+	M	+	M	20	
Lymph Node, Mandibular	M	+	M	M	+	+	M	M	+	+	+	+	M	+	M	M	M	M	+	+	+	+	M	M	27
Lymph Node, Mediastinal	+	+	+	+	M	+	+	+	A	+	+	+	+	M	+	+	+	+	+	M	+	+	M	M	36
Lymph Node, Mesenteric Hyperplasia, Lymphoid	+	M	+	+	M	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	A	+	+	A	44
																								1	1.0
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	49
Thymus	+	+	M	+	A	+	+	+	A	+	+	+	+	+	+	+	+	+	M	+	+	+	M	I	40

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	0	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation, Chronic Active																								3	2	3.0
Metaplasia, Osseous																									1	2.0

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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1-4 .. Lesion qualified as:
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B6C3F1 MICE MALE	DAY ON TEST																						ANIMAL ID		
	0660	0730	0772	0773	0572	0772	0772	0466	0566	0666	0667	0676	0776	0776	0667	0776	0676	0773	0373	0772	0772	0373			0773
2.5 mg/m3	00426	00427	00428	00429	00430	00431	00432	00433	00434	00435	00436	00437	00438	00439	00440	00441	00442	00443	00444	00445	00446	00447	00448	00449	
* TOTALS																									
Skeletal Muscle	+ +																						3		
NERVOUS SYSTEM																									
Brain	+ +																						50		
RESPIRATORY SYSTEM																									
Larynx	+ +																						49		
Inflammation, Suppurative																							2 1.0		
Arteriole, Inflammation, Acute																							1 3.0		
Respiratory Epithelium, Metaplasia, Squamous	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Respiratory Epithelium, Vacuolization																							49 1.0		
Cytoplasmic	1	1																					24 1.0		
Squamous Epithelium, Hyperplasia																							5 1.0		
Lung	+ +																						50		
Inflammation, Suppurative																							6 1.5		
Proteinosis	3	3	4	4	4	3	3	4	2	3	3	3	2	3	3	3	4	4	4	2	4	4	3	3	
Alveolar/bronchiolar Epithelium, Hyperplasia																							49 3.1		
Alveolar/bronchiolar Epithelium, Vacuolization	1	1	3	1	1	2	2	2	1	3	2	2	1	1	1	1	2	2	1	2	2	2	2	2	
Cytoplasmic	1	2	3	2	1	2	2	1	1	1	2	2	2	2	2	3	2	1	2	2	3	2	2		
Alveolar Epithelium, Hyperplasia																							47 1.9		
Alveolus, Infiltration Cellular, Histocyte	1				1	2					1	2	1			1	4			3	1			4	4
Bronchiole, Epithelium, Erosion	4	2	4	4	4	2	2	3	1	4	2	3	2	2	2	2	2	2	4	2	2	4	2	2	
Bronchiole, Epithelium, Hyperplasia	3																							24 1.8	
Nose	+ +																						50		
Inflammation, Suppurative	1	3	2	2	3	2	2	2	1	3	4	3	3	3	2	3	3	2	3	3	4	3	1	1	
Olfactory Epithelium, Atrophy																							49 2.7		
Olfactory Epithelium, Hyperplasia	1	1	1	1	1	1					1	1	1	1	2	2	1	2	1	1	1	1	1	1	
																						42 1.2			
																						17 1.0			

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

+ .. Tissue examined microscopically

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M .. Missing tissue

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BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

B6C3F1 MICE MALE	DAY ON TEST																								* TOTALS	
	06	07	07	07	05	07	07	04	05	06	06	07	06	07	07	06	07	07	03	07	07	07	03			
2.5 mg/m3	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			
	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44			
	22	22	22	22	33	33	33	33	33	33	33	33	33	33	44	44	44	44	44	44	44	44	44			
	66	77	88	99	00	11	22	33	44	55	66	77	88	99	00	11	22	33	44	55	66	77	88			
Olfactory Epithelium, Metaplasia, Respiratory	1	3	2	3		1	1	2	3	2	3	3	3	1	3	1	1	3	1	2	2	3	1	44	2.3	
Olfactory Epithelium, Respiratory Metaplasia, Atypical							1										2					1		9	1.1	
Respiratory Epithelium, Accumulation, Hyaline Droplet		1			1		1	1	1	1	1	2	1	1	1			1		1		2	2	29	1.1	
Respiratory Epithelium, Hyperplasia	1		1	1	1	1	2			2	1	2	1	1	1	1	1	1	1	1	1	2	1	36	1.2	
Respiratory Epithelium, Metaplasia, Squamous	1	1	1	1		1	1	1		1	1			1	1		1	1	1		1	1	1	35	1.1	
Respiratory Epithelium, Vacuolization Cytoplasmic	1	2	1			1	1	1	1	1	1	1	2	1	1	1	1	1	2	1		1	1	2	39	1.2
Squamous Epithelium, Erosion																								2	1.0	
Turbinate, Atrophy	1	2	1	3	2	3	2	2	2	2	2	3	2	2	2	1	2	2	1	1	2	2	1	2	49	2.1
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	48		
Epithelium, Vacuolization Cytoplasmic		1	2	1			2					2	1			1	2	1	2		2	2	2	31	1.6	
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	A	+	+	+	A	+	+	+	+	+	+	A	+	+	+	+	+	A	+	A	43	
Cornea, Inflammation, Chronic Active																							1	1	1.0	
Harderian Gland	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	48		
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	49		
Infarct																			3					1	3.0	
Nephropathy	1	1	1	1		1	1			1				1	1	1	1	3	1	1	1	2	1	42	1.3	
Thrombosis																			2					1	2.0	
Renal Tubule, Hyperplasia																								1	3.0	
Renal Tubule, Necrosis																								1	2.0	

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

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B6C3F1 MICE MALE	DAY ON TEST	0730	0722	0722	0671	0739	0655	0771	0777	0777	0777	0575	0777	0777	0423	0552	0557	0700	0477	0722	0699	0773	0773	males (cont...)
	ANIMAL ID	0060	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Gallbladder	+	+	+	+	+	+	+	+	+	A	+	+	+	M	M	+	+	+	A	A	I	+	M	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	A	+	+	A	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	A	+	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	A	A	+	A	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	A	A	+	A	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	A	A	+	A	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																								
Basophilic Focus				X																				
Eosinophilic Focus																								X
Hepatodiaphragmatic Nodule																								
Necrosis															X							X		
Mesentery																								
Fat, Necrosis																								
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																								

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TDMS No. 60311 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cobalt

CAS Number: 7440-48-4

Date Report Requested: 09/08/2011

Time Report Requested: 08:23:28

First Dose M/F: 05/15/06 / 05/15/06

Lab: BNW

B6C3F1 MICE MALE 5.0 mg/m3	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	ANIMAL ID	males (cont...)		
		7	7	7	6	7	6	5	7	7	7	7	5	7	7	7	4	5	5	7	4	7	6	7			7	
		3	2	2	1	3	9	5	1	2	3	0	3	8	3	3	2	3	7	0	7	2	9	3	3			
		0	9	9	8	0	8	4	6	9	1	6	1	6	1	0	0	5	7	5	8	6	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			
		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6			
		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	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		
Parathyroid Gland		M	+	+	M	+	M	+	+	M	M	M	M	+	M	+	+	+	+	+	+	M	+	+	M	M		
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	M	+	+	+	+	+	+	+		
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	I	+	+	+	+	+	+	+	+	+	+	+	+	+		
GENERAL BODY SYSTEM																												
Tissue NOS																												
GENITAL SYSTEM																												
Coagulating Gland																												
Epididymis																												
Penis Inflammation, Acute																												
Preputial Gland																												
Prostate																												
Seminal Vesicle Inflammation, Chronic Active																												
Testes Germinal Epithelium, Degeneration Interstitial Cell, Hyperplasia																												

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

B6C3F1 MICE MALE 5.0 mg/m3	DAY ON TEST	0730	0722	0779	0668	0770	0664	0575	0771	0777	0777	0777	0575	0777	0777	0474	0575	0575	0770	0474	0772	0669	0776	0777	0373	0773	ANIMAL ID	males (cont...)	
	ANIMAL ID	0060	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066			0066
Bone Marrow Angiectasis Thrombosis		+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Lymph Node																													
Lymph Node, Bronchial		+	+	+	M	+	M	M	+	M	+	M	+	M	M	M	+	M	+	M	+	+	+	M	+	+			
Lymph Node, Mandibular		+	+	+	+	M	M	M	M	+	+	+	+	+	+	+	M	M	+	M	+	M	M	+	+	+			
Lymph Node, Mediastinal Hyperplasia, Lymphoid		M	+	M	+	+	+	+	+	+	M	M	+	+	+	+	M	+	+	+	+	+	+	+	+	+			
Lymph Node, Mesenteric Arteriole, Inflammation, Chronic Active		+	+	+	M	+	+	+	M	M	+	+	+	+	+	+	+	+	+	+	M	+	A	+	+	+			
Spleen		+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+			
Thymus		+	+	+	M	+	M	+	+	+	+	+	+	+	M	M	+	+	+	M	+	+	+	+	+	+			
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			
Skin Inflammation, Chronic Active		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
																												4	
MUSCULOSKELETAL SYSTEM																													
Bone		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			

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+ .. Tissue examined microscopically

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1-4 .. Lesion qualified as:

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2) Mild 4) Marked

B6C3F1 MICE MALE	DAY ON TEST																				males (cont...)				
	5.0 mg/m3	0730	0722	0729	0618	0739	0668	0554	0776	0777	0777	0777	0575	0777	0777	0424	0555	0577	0770	0477		0676	0777	0677	0373
ANIMAL ID		0060	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066
		12	34	56	78	90	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	

Skeletal Muscle +

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Peripheral Nerve																								
Spinal Cord																								

RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Inflammation, Suppurative	1																										
Respiratory Epithelium, Erosion																											
Respiratory Epithelium, Metaplasia, Squamous	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Respiratory Epithelium, Vacuolization Cytoplasmic	1	1					1	1			1			1			1	1	1	1	2	1					
Squamous Epithelium, Erosion																											
Squamous Epithelium, Hyperplasia	1														1			1	1	1							
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Inflammation, Suppurative	2 1 3 1																										
Proteinosis	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	4	4	4	4	4	4	4	4			
Alveolar/bronchiolar Epithelium, Hyperplasia	3	3	3	3	3	3	2	3	3	3	1	3	3	2	3	2	3	2	3	2	2	1	2	2	1		
Alveolar/bronchiolar Epithelium, Vacuolization Cytoplasmic	4	3	4	4	4	4	1	3	3	3	3	3	2	3	3	4	3	2	2	1	2			3	4	3	
Alveolar Epithelium, Hyperplasia	4	4	1	1	2	2	2	2	1	2			2	1	2	1	3			2	2	4	1	3	4	3	2
Alveolus, Infiltration Cellular, Histiocyte	3	3	2	3	3	3	4	4	3	2	3	3	3	3	3	3	4	3	3	2	4			4	3	3	
Bronchiole, Epithelium, Erosion																											

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X .. Lesion present
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B6C3F1 MICE MALE 5.0 mg/m3	DAY ON TEST																				ANIMAL ID	males (cont...)					
	0730	0732	0739	0761	0773	0765	0758	0771	0777	0771	0777	0757	0771	0777	0771	0777	0744	0755	0755	0777			0747	0777	0766	0777	0733
Bronchiole, Epithelium, Hyperplasia	2	2	3			1					1								2			1					
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Suppurative	4	3	2	3	3	3	3	2	3	3	2	4	4	4	3	2	3	2	4	4	3	3	3	4	2		
Olfactory Epithelium, Atrophy			1	1			1	1				1	3	1		1	2	2	2		1	1		1	1		
Olfactory Epithelium, Hyperplasia							1							1		1											
Olfactory Epithelium, Metaplasia, Respiratory	3	3	3	3	4	4	3	3	4	3	4	3	3	3	3	3	3	3	3	4	3	3	4	4	3		
Olfactory Epithelium, Respiratory Metaplasia, Atypical								1																			
Respiratory Epithelium, Accumulation, Hyaline Droplet								1						1		1											
Respiratory Epithelium, Hyperplasia		1	1	1			1		1		1							1		1		1		1	1		
Respiratory Epithelium, Metaplasia, Squamous	1	1	2		1		2			1		1				1	1	2			1			1	1		
Respiratory Epithelium, Vacuolization Cytoplasmic	1	2	1	1	1	1	2	3		2		2		1	2		1	2	1		1	1		1	1		
Turbinate, Atrophy	4	3	4	3	3	4	3	4	4	3	4	3	3	3	4	3	3	3	3	3	3	2	3	3	4	3	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Suppurative																											
Epithelium, Vacuolization Cytoplasmic	2	2		1	2		1	1	1	2	1	1	1	2	1		1	2		1	2	1				2	
SPECIAL SENSES SYSTEM																											
Eye	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	A	+	+	A	+	+		
Cataract																											
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																											2
URINARY SYSTEM																											

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 + .. Tissue examined microscopically
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1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 60311 - 06

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 09/08/2011

Test Type: CHRONIC

Cobalt

Time Report Requested: 08:23:28

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 7440-48-4

First Dose M/F: 05/15/06 / 05/15/06

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE 5.0 mg/m3	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	males (cont...)	
		7	7	7	6	7	6	5	7	7	7	7	5	7	7	7	4	5	5	7	4	7	6	7	7		
		3	2	2	1	3	9	5	1	2	3	0	3	8	3	3	2	3	7	0	7	2	9	3	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		
	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		
		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	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	
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Infarct						2						2															
Nephropathy		1	1	1	1		1		1	1	1	1		1	1	1	1				1	1	1	1			
Arteriole, Inflammation, Chronic Active																											
Renal Tubule, Hyperplasia																											
Urinary Bladder		+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Hemorrhage																											
Arteriole, Inflammation, Chronic Active																											

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B6C3F1 MICE MALE 5.0 mg/m3	DAY ON TEST	0 5 7 1	0 6 8 1	0 7 3 1	0 6 1 7	0 6 9 2	0 6 7 9	0 6 4 6	0 6 2 9	0 5 9 3	0 7 7 0	0 7 3 1	0 7 3 7	0 2 3 1	0 7 3 0	0 7 3 0	0 6 3 5	0 7 3 0	0 7 2 9	0 7 3 0	0 5 8 6	0 5 6 2	0 6 7 8	* TOTALS		
	ANIMAL ID	0 0 6 2 6	0 0 6 2 7	0 0 6 2 8	0 0 6 2 9	0 0 6 3 0	0 0 6 3 1	0 0 6 3 2	0 0 6 3 3	0 0 6 3 4	0 0 6 3 5	0 0 6 3 6	0 0 6 3 7	0 0 6 3 8	0 0 6 4 9	0 0 6 4 0	0 0 6 4 1	0 0 6 4 2	0 0 6 4 3	0 0 6 4 4	0 0 6 4 5	0 0 6 4 6	0 0 6 4 7		0 0 6 4 8	0 0 6 4 9
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Gallbladder	M	+	M	+	+	+	M	+	+	+	+	+	+	+	+	+	A	+	+	+	A	M	M	A	35	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	A	45	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	A	46	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	48	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	A	44	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	A	44	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	A	44	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Angiectasis										3														1	3.0	
Basophilic Focus	X		X			X																			4	
Eosinophilic Focus							X																		2	
Hepatodiaphragmatic Nodule																						X			3	
Necrosis															1										1	1.0
Mesentery					+					+											+				3	
Fat, Necrosis						2					2											2			3	2.0
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy											1														1	1.0

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B6C3F1 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	* TOTALS
		5	6	7	6	6	7	6	6	7	5	7	7	7	2	7	7	7	6	7	7	5	5	6	6	7	8	
5.0 mg/m3	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	
		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
		2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5		
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0		

Salivary Glands + 50

Stomach, Forestomach	+ +	50		
Hyperplasia, Squamous			3	4 2.8
Inflammation, Chronic Active			2	3 2.0
Ulcer				3 3.0

Stomach, Glandular	+ +	49		
Ulcer			3	1 3.0

Tooth					
Dysplasia				+	1
				4	1 4.0

CARDIOVASCULAR SYSTEM

Heart	+ +	50		
Cardiomyopathy			1 1 1 1 1 2	8 1.3
Hemorrhage				1 3.0
Pericardium, Inflammation, Chronic				1 2.0

ENDOCRINE SYSTEM

Adrenal Cortex	+ +	50		
Hyperplasia			2	1 2.0
Hypertrophy				2 2.0
Adrenal Medulla	+ + + + + + + + + + + + + + + + + + M + + + + +	48		
Islets, Pancreatic	+ +	50		
Hyperplasia				2 2.5

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TDMS No. 60311 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cobalt

CAS Number: 7440-48-4

Date Report Requested: 09/08/2011

Time Report Requested: 08:23:28

First Dose M/F: 05/15/06 / 05/15/06

Lab: BNW

B6C3F1 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			
	ANIMAL ID	5	6	7	6	6	7	6	6	7	5	7	7	7	2	7	7	7	6	7	7	5	5	6	7	8	6	7	8	9	0	0	0	0	0	0	0	0	
5.0 mg/m3		7	8	3	1	9	2	4	6	2	9	3	3	3	2	3	3	3	3	3	2	3	3	1	8	6	6	7	8	9	0	0	0	0	0	0	0		
		1	1	1	7	1	9	9	0	9	3	0	1	1	7	1	0	0	5	0	9	0	0	2	6	2	6	2	7	8	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	
		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																												* TOTALS											

Parathyroid Gland	+	M	M	M	M	+	M	M	+	M	+	+	+	+	+	M	+	M	+	+	M	M	+	M	+			27												
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49

GENERAL BODY SYSTEM

Tissue NOS																											+	1
------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---	----------

GENITAL SYSTEM

Coagulating Gland																											1													
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Penis																												1												
Inflammation, Acute																											+	2	1 2.0											
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation, Chronic Active																												1	3.0											
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Germinal Epithelium, Degeneration																													21 1.5											
Interstitial Cell, Hyperplasia			1		1	1		2		1		2				4				1	1				1	1											1 1.0			

HEMATOPOIETIC 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

B6C3F1 MICE MALE 5.0 mg/m3	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					
	5	6	7	6	6	7	6	6	7	5	7	7	7	2	7	7	7	6	7	7	5		5	6		
ANIMAL ID		7	8	3	1	9	2	4	6	2	9	3	3	3	2	3	3	3	3	3	1	8	6	7	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		
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	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		
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49		
Angiectasis																					2			1 2.0		
Thrombosis																								1 2.0		
Lymph Node															+									1		
Lymph Node, Bronchial	+	M	M	+	+	M	M	M	+	+	M	+	+	M	+	+	M	M	M	M	M	+	M	+	24	
Lymph Node, Mandibular	M	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	M	37	
Lymph Node, Mediastinal Hyperplasia, Lymphoid	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	44		
																					2			1 2.0		
Lymph Node, Mesenteric Arteriole, Inflammation, Chronic Active	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	M	+	+	+	+	42		
																					4			1 4.0		
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48		
Thymus	+	+	+	M	+	+	M	+	M	+	M	+	+	+	+	+	+	M	+	+	+	M	+	38		
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	0	
Skin	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49		
Inflammation, Chronic Active																						4		2 4.0		
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	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

B6C3F1 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	
	5	6	7	6	6	7	6	6	7	5	7	7	7	2	7	7	7	6	7	7	5	5	6	5	6	6	7	8	
	7	8	3	1	9	2	4	6	2	9	3	3	3	2	3	3	3	3	3	1	8	6	2	8	6	7	8		
	1	1	1	7	1	9	9	0	9	3	0	1	1	7	1	0	0	5	0	0	2	3	0	2	6	2	8		
5.0 mg/m3	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	
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	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	0	0	* TOTALS	

Skeletal Muscle

1

NERVOUS SYSTEM

Brain

+ 50

Peripheral Nerve

+ 1

Spinal Cord

+ 1

RESPIRATORY SYSTEM

Larynx

+ 50

Inflammation, Suppurative

1 1 1 4 1.0

Respiratory Epithelium, Erosion

1 1.0

Respiratory Epithelium, Metaplasia, Squamous

1 49 1.0

Respiratory Epithelium, Vacuolization

1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 32 1.1

Cytoplasmic

Squamous Epithelium, Erosion

1 1.0

Squamous Epithelium, Hyperplasia

1 1 1 8 1.0

Lung

+ 50

Inflammation, Suppurative

3 3 2 4 4 16 2.3

Proteinosis

4 4 4 4 4 4 4 4 4 4 4 4 1 4 4 4 4 4 4 4 4 4 4 4 4 50 3.9

Alveolar/bronchiolar Epithelium, Hyperplasia

3 3 2 1 2 2 2 2 1 2 3 2 3 1 2 3 3 1 3 3 3 3 1 2 2 50 2.3

Alveolar/bronchiolar Epithelium, Vacuolization

4 3 3 2 2 3 3 3 3 3 4 3 4 2 3 4 4 4 4 3 4 4 2 3 2 48 3.1

Cytoplasmic

Alveolar Epithelium, Hyperplasia

43 2.0

Alveolus, Infiltration Cellular, Histiocyte

1 3 2 4 4 4 3 3 3 3 3 3 1 4 3 4 3 4 3 3 3 3 3 4 4 48 3.1

Bronchiole, Epithelium, Erosion

2 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

| B6C3F1 MICE MALE
5.0 mg/m3 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|--|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|----------|----|-----|----|-----|-----|-----|
| | 0571000626 | 0683192466 | 0731719299 | 0866724690 | 0966724690 | 1066724690 | 1166724690 | 1266724690 | 1366724690 | 1466724690 | 1566724690 | 1666724690 | 1766724690 | 1866724690 | 1966724690 | 2066724690 | 2166724690 | 2266724690 | 2366724690 | 2466724690 | | | | | | | |
| ANIMAL ID | 00626 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | | | | | | |
| Bronchiole, Epithelium, Hyperplasia | 1 | | | 1 | | | | | | | | | | | | | | | | | | 11 | 1.5 | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | | |
| Inflammation, Suppurative | 3 | 1 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 3 | 4 | 3 | 4 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 50 | 3.1 | | |
| Olfactory Epithelium, Atrophy | 1 | | 1 | 1 | | 2 | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | | | | 1 | 1 | | 1 | 1 | 31 | 1.2 | | |
| Olfactory Epithelium, Hyperplasia | 2 | | | | | | | | | 1 | | | | 1 | 1 | | | | | | | | 1 | 8 | 1.1 | | |
| Olfactory Epithelium, Metaplasia, Respiratory | 3 | 2 | 2 | 3 | 4 | 3 | 3 | 3 | 4 | 2 | 4 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 4 | 2 | 3 | 2 | 50 | 3.1 |
| Olfactory Epithelium, Respiratory Metaplasia, Atypical | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | | | | | | | 1 | 1 | | | | | | | | | 1 | | | | | 1 | | 7 | 1.0 | | |
| Respiratory Epithelium, Hyperplasia | 1 | | | | | 1 | | | | | 1 | 1 | 1 | | | | | | 1 | 1 | | 1 | | 19 | 1.0 | | |
| Respiratory Epithelium, Metaplasia, Squamous | 2 | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 33 | 1.2 | |
| Respiratory Epithelium, Vacuolization Cytoplasmic | | | 1 | | 1 | 1 | | 1 | | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | | 1 | | 2 | 1 | 1 | 37 | 1.4 |
| Turbinate, Atrophy | 3 | 2 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 3 | 1 | 3 | 4 | 4 | 2 | 4 | 3 | 4 | 4 | 3 | 4 | 3 | 50 | 3.3 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | 1 | | | | | | 1 | 1.0 | | |
| Epithelium, Vacuolization Cytoplasmic | 1 | | | | 2 | 2 | | 2 | 1 | | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | | 37 | 1.4 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 | | | |
| Cataract | | 2 | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 | | 2 | 1.5 | | |
| URINARY 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------|------------------|---------------|
| B6C3F1 MICE MALE

5.0 mg/m3 | DAY ON TEST | 0
5
7
1 | 0
6
8
1 | 0
7
3
1 | 0
6
1
7 | 0
6
9
2 | 0
7
6
4 | 0
6
2
6 | 0
6
9
3 | 0
5
7
3 | 0
7
7
0 | 0
7
7
3 | 0
7
7
3 | 0
2
3
2 | 0
7
3
1 | 0
7
3
3 | 0
6
3
3 | 0
7
2
0 | 0
7
7
0 | 0
5
3
2 | 0
6
1
6 | 0
5
8
6 | 0
5
6
2 | 0
6
7
8 | * TOTALS | | |
| | ANIMAL ID | 0
6
2
6 | 0
6
2
7 | 0
6
2
8 | 0
6
2
9 | 0
0
3
0 | 0
0
3
1 | 0
0
3
2 | 0
0
3
3 | 0
0
3
4 | 0
0
3
5 | 0
0
3
6 | 0
0
3
7 | 0
0
3
8 | 0
0
4
9 | 0
0
4
0 | 0
0
4
1 | 0
0
4
2 | 0
0
4
3 | 0
0
4
4 | 0
0
4
5 | 0
0
4
6 | 0
0
4
7 | 0
0
4
8 | | 0
0
4
9 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.3 |
| Nephropathy | | | | | | | | | | | | | | | | | | | | | | | | | | | 37 1.1 |
| Arteriole, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Renal Tubule, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | | 47 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Arteriole, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

*** END OF MALE DATA ***

* .. 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 MICE FEMALE | DAY ON TEST | 0732 | 0733 | 0738 | 0764 | 0773 | 0777 | 0777 | 0764 | 0747 | 0777 | 0777 | 0777 | 0755 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0766 | |
| | control | 032 | 033 | 038 | 034 | 033 | 033 | 033 | 039 | 039 | 031 | 032 | 033 | 033 | 039 | 033 | 033 | 033 | 033 | 033 | 033 | 033 | 033 | 033 | |
| | ANIMAL ID | 0010 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | females
(cont...) |
| | | 1100 | 1101 | 1101 | 1101 | 1101 | 1101 | 1101 | 1101 | 1101 | 1101 | 1101 | 1101 | 1101 | 1101 | 1101 | 1101 | 1101 | 1101 | 1101 | 1101 | 1101 | 1101 | 1101 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gallbladder | + | + | + | + | + | + | A | M | M | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum Hemorrhage | + | + | M | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | M | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | A | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | A | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | A | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | |
| Clear Cell Focus | | | | | | | | | X | | | | | | | | | | | | | | | |
| Eosinophilic Focus | X | | | | | | | X | | | | | | | | | | | | | X | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | 2 | | | | | 2 | 3 | | | | | 3 | | | | | | | | | | |
| Tension Lipidosis | | 1 | | | | | | | | 2 | | | | | | | | | | | | | 2 | |
| Vacuolization Cytoplasmic | | | | | | | | | | | 1 | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Hemorrhage | | | + | | + | | | | | | + | | | + | | + | + | | | | + | | | |

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 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

| B6C3F1 MICE FEMALE
control | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|-------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|------------------|------------------|----------------------|
| | 0
7
3
2 | 0
7
3
3 | 0
3
8
3 | 0
6
4
9 | 0
7
3
1 | 0
7
3
1 | 0
7
3
2 | 0
6
9
7 | 0
4
9
1 | 0
7
3
2 | 0
7
3
3 | 0
7
3
3 | 0
7
3
1 | 0
5
9
9 | 0
7
3
3 | 0
7
3
3 | 0
7
3
3 | 0
7
3
2 | 0
7
3
3 | 0
7
3
2 | 0
7
3
1 | 0
7
3
3 | 0
7
3
2 | | | | |
| Fat, Necrosis | | | 2 | 2 | | | | | | 2 | | | | 2 | | | 2 | 2 | 2 | | | 2 | | | 0
0
1
0 | | |
| Pancreas Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 0
0
1
0 | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 0
0
1
0 | | |
| Stomach, Forestomach Ulcer | + | + | + | + | + | + | + | + | 1 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 0
0
1
0 | | |
| Stomach, Glandular Ulcer | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 0
0
1
0 | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 0
0
1
0 | |
| Cardiomyopathy | | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | 0
0
1
0 | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | 0
0
1
0 | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | 0
0
1
0 | |
| Capillary, Hyperplasia | | | 3 | | | | | | | | | | | | | | | | | | | | | | | 0
0
1
0 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 0
0
1
0 | |
| Hyperplasia | | | | 2 | | | | | | | | | | | | | | | | | | | | | | 0
0
1
0 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 0
0
1
0 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 2 | | | | 0
0
1
0 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 0
0
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

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

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Parathyroid Gland | + | M | M | + | M | + | M | + | M | + | M | M | + | M | M | M | + | M | + | M | M | + | + | + | + |
| Pituitary Gland | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Pars Distalis, Hyperplasia | | | | | | | | 1 | | 2 | 2 | | | | | 2 | 2 | | | | | 2 | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + |
| Ovary | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | 2 | 2 | | | | 2 | | | | | 1 | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | 4 | | | | | | | | | | |
| Uterus | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic Active | | | | | | | | | | | | 4 | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | 3 | 3 | | | 2 | 3 | 2 | | 3 | 4 | | 2 | | 3 | 3 | 1 | 4 | | 3 | 2 | 2 | 3 | 2 | 3 | 2 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node | | | | | | | | | | + | | | | | | | | | | | | + | | | + |
| Iliac, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | 3 | | 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

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

Renal, Hyperplasia, Lymphoid

Lymph Node, Bronchial

Lymph Node, Mandibular

Lymph Node, Mediastinal
Hyperplasia, Lymphoid

Lymph Node, Mesenteric
Hyperplasia, Lymphoid

Spleen
Hematopoietic Cell Proliferation
Necrosis

Thymus

INTEGUMENTARY SYSTEM

Mammary Gland
Hyperplasia

Skin
Inflammation, Chronic Active

MUSCULOSKELETAL SYSTEM

Bone
Hyperostosis

* .. 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

TDMS No. 60311 - 06

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 09/08/2011

Test Type: CHRONIC

Cobalt

Time Report Requested: 08:23:28

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 7440-48-4

First Dose M/F: 05/15/06 / 05/15/06

Species/Strain: MICE/B6C3F1

Lab: BNW

| 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 |
|-------------|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | B6C3F1 MICE FEMALE control | 7 | 7 | 3 | 6 | 7 | 7 | 7 | 6 | 4 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 |
| | 3 | 3 | 8 | 4 | 3 | 3 | 3 | 9 | 9 | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | |
| | 2 | 3 | 3 | 9 | 1 | 1 | 2 | 7 | 9 | 1 | 2 | 3 | 1 | 9 | 3 | 3 | 3 | 2 | 3 | 2 | 1 | 1 | 3 | 2 | 9 | 9 | 4 | 9 | |
| 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 | |
| | 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 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 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 | 6 | 7 | | |

females (cont...)

NERVOUS SYSTEM

Brain +

RESPIRATORY SYSTEM

Larynx + + A + + + + + + + + I + + + + + + + + + + + + + + + +
Respiratory Epithelium, Metaplasia, Squamous 1 1
Squamous Epithelium, Erosion
Squamous Epithelium, Hyperplasia

Lung + + A +
Alveolar Epithelium, Hyperplasia
Alveolus, Infiltration Cellular, Histiocyte 1 2 1 2

Nose +
Inflammation, Suppurative
Olfactory Epithelium, Atrophy 1 1
Olfactory Epithelium, Hyperplasia
Olfactory Epithelium, Metaplasia, Respiratory
Respiratory Epithelium, Accumulation, Hyaline Droplet 1 1 1 1 1
Respiratory Epithelium, Hyperplasia 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1
Respiratory Epithelium, Hyperplasia, Histiocytic

Trachea + + A + + + + + + + M +

SPECIAL SENSES SYSTEM

Eye + + A + + + + + A +

* .. 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

TDMS No. 60311 - 06
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Cobalt
 CAS Number: 7440-48-4

Date Report Requested: 09/08/2011
 Time Report Requested: 08:23:28
 First Dose M/F: 05/15/06 / 05/15/06
 Lab: BNW

| B6C3F1 MICE FEMALE
control | 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 | 0 | 0 | 0 | 0 | 0 | | |
| | 7 | 7 | 3 | 6 | 7 | 7 | 7 | 6 | 4 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | | |
| | 3 | 3 | 8 | 4 | 3 | 3 | 3 | 9 | 9 | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | | |
| | 2 | 3 | 3 | 9 | 1 | 1 | 2 | 7 | 9 | 1 | 2 | 3 | 1 | 9 | 3 | 3 | 3 | 2 | 3 | 2 | 1 | 1 | 3 | 2 | 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 | 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 | 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 | | |
| Harderian Gland
Hyperplasia | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Amyloid Deposition | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | | | 1 | | 2 | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | | | |
| Renal Tubule, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |

* .. 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 MICE FEMALE | 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 |
| | | 7 | 2 | 7 | 7 | 5 | 5 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | | 3 | 2 | 3 | 3 | 2 | 8 | 3 | 9 | 3 | 0 | 5 | 3 | 3 | 3 | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| control | 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 |
| | | 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 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 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 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | 0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|-------|-------|--|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Gallbladder | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44 | | |
| Intestine Large, Cecum Hemorrhage | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | 1 3.0 | |
| Intestine Large, Colon | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | | |
| Intestine Large, Rectum | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | | |
| Intestine Small, Duodenum | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 | | |
| Intestine Small, Ileum | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 | | |
| Intestine Small, Jejunum | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 | | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | | |
| Basophilic Focus | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 6 2.7 | | |
| Tension Lipidosis | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | 5 1.8 | | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | | |
| Mesentery | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 18 | | |
| Fat, Hemorrhage | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 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

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BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

| B6C3F1 MICE FEMALE
control | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--|
| | 0732 | 0273 | 0773 | 0572 | 0558 | 0733 | 0698 | 0772 | 0776 | 0673 | 0773 | 0773 | 0773 | 0473 | 0773 | 0773 | 0275 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | | |
| 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 | | |
| Fat, Necrosis | 2 | 2 | | | | | 2 | 2 | | 2 | | | | | 2 | | | | 2 | 2 | 2 | | | 2 | 18 2.0 | |
| Pancreas Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 1 1.0 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Stomach, Forestomach Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 2 1.0 | |
| Stomach, Glandular Ulcer | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 1 1.0 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | | | 1 | | | | | | 1 | | | | | | 1 | | | | | | | | | | 6 1.2 | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | 1 | | | | 1 1.0 | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Capillary, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 1 2.0 | |
| Adrenal Medulla Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 2 2.0 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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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 BLANK .. Not examined microscopically
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 1) Minimal 3) Moderate
 2) Mild 4) Marked

| B6C3F1 MICE FEMALE
control | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-----|-----|-----|
| | 0732 | 0233 | 0733 | 0732 | 0523 | 0553 | 0763 | 0678 | 0772 | 0771 | 0773 | 0773 | 0773 | 0773 | 0430 | 0733 | 0723 | 0725 | 0722 | 0721 | 0722 | 0721 | 0723 | 0723 | | | | | |
| 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 | 00150 | | | | |
| Parathyroid Gland | + | + | M | + | M | M | + | + | + | + | + | + | + | M | + | + | M | M | M | M | + | + | + | + | M | 28 | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | 47 | | |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | 1 | | | | | | | | | | | 2 | 1.0 | | |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | 2 | | 2 | | 2 | | | | | | | | | 12 | 2.0 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | M | + | + | + | M | + | + | + | + | + | + | + | M | + | + | + | + | M | + | + | + | M | + | + | 43 | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 8 | 1.9 | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 4.0 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | 2 | 3.0 | |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | | 41 | 2.8 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Iliac, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 11 | |
| Renal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 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

| B6C3F1 MICE FEMALE
control | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----|----------------|-------|
| | 0732 | 0223 | 0773 | 0773 | 0552 | 0553 | 0773 | 0668 | 0779 | 0773 | 0665 | 0773 | 0773 | 0773 | 0473 | 0773 | 0773 | 0275 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | | | | |
| ANIMAL ID | 00126 | 00117 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | | | | |
| Renal, Hyperplasia, Lymphoid | 3 | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | | | |
| Lymph Node, Bronchial | M | M | M | M | + | + | M | M | + | + | + | M | M | M | + | M | M | + | M | + | M | M | M | + | 22 | | | |
| Lymph Node, Mandibular | + | + | M | + | + | + | M | + | + | + | M | + | M | M | + | + | M | + | + | + | + | M | M | M | + | 40 | | |
| Lymph Node, Mediastinal
Hyperplasia, Lymphoid | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | M | + | 42 | 1 2.0 | |
| Lymph Node, Mesenteric
Hyperplasia, Lymphoid | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | 1 2.0 | |
| Spleen
Hematopoietic Cell Proliferation
Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | 5 2.6
1 3.0 | |
| Thymus | + | + | + | + | + | M | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | 46 | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | M | + | + | + | + | + | + | 48 | 1 3.0 |
| Skin
Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 2.5 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone
Hyperostosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 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
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

| B6C3F1 MICE FEMALE
control | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|-------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|-----|-----|
| | 0732 | 0233 | 0733 | 0732 | 0583 | 0573 | 0768 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | | | |
| ANIMAL ID | 0012 | 0017 | 0018 | 0019 | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | | | |
| Harderian Gland Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | 4 | 2.0 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Amyloid Deposition | | 4 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Cyst | | | | 4 | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Nephropathy | 1 | | 1 | 1 | | | 1 | | | | 1 | 1 | 1 | 3 | 1 | | 1 | | 1 | 1 | 1 | | 1 | 1 | 35 | 1.1 | |
| Renal Tubule, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | 2 | | | | | | | | | | 1 | 2.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |

* .. 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 MICE FEMALE
1.25 mg/m3 | 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 |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ANIMAL ID | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 |
| | | 3 | 3 | 1 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 3 | 9 | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | |
| | | 3 | 3 | 2 | 3 | 2 | 2 | 9 | 3 | 1 | 2 | 1 | 3 | 1 | 3 | 3 | 8 | 8 | 2 | 6 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |

females (cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Gallbladder | + | + | + | + | + | + | + | + | M | + | + | + | A | I | + | + | A | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Duodenum Inflammation, Acute Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tension Lipidosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Mesentery 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:
1) Minimal 3) Moderate
2) Mild 4) Marked

| B6C3F1 MICE FEMALE

1.25 mg/m3 | DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|---|---|---|--|--|--|--|---|--|--|--|--|--|---|--|--|--|--|--|---|--|---|--|--|--|---|----------------------|
| | | 7 7 7 7 7 7 6 7 7 7 7 7 7 6 7 7 6 6 7 5 7 7 7 7 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 3 3 1 3 3 3 4 3 3 3 3 3 3 6 3 3 3 9 3 0 3 3 3 3 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | 3 | | | | | | 2 | | | | | | 2 | | | | | | 2 | | 2 | | | | | |
| Pancreas | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach Ulcer | + | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Stomach, Glandular Ulcer | + | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart
Cardiomyopathy
Mineralization
Necrosis | + | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex
Hyperplasia
Hypertrophy | + | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Adrenal Medulla
Hyperplasia | + | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Islets, Pancreatic
Hyperplasia | + | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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 MICE FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|----------------------|
| | 0733 | 0733 | 0713 | 0733 | 0733 | 0732 | 0764 | 0773 | 0773 | 0773 | 0773 | 0773 | 0766 | 0773 | 0773 | 0766 | 0766 | 0773 | 0755 | 0773 | 0773 | 0773 | 0766 | | |
| 1.25 mg/m3 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | | |
| | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | | |
| | 12 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Parathyroid Gland | + | + | + | M | + | M | + | + | M | M | M | + | + | + | + | + | + | + | + | + | M | + | + | + | M |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Angiectasis | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | | | | | | 2 | | | | | | 3 | | | | | | | | | | | | | 2 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Follicular Cell, Hyperplasia | | | | | | | | | 1 | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | M | + | + | + | + |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | | | | 4 | | | 2 | | | | 3 | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | 2 | | | 2 | 4 | 3 | 2 | 2 | 2 | 1 | | 3 | 4 | | 3 | 4 | | | 2 | 2 | 2 | 3 | 1 | 2 | 2 | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymph Node | | | | + | | + | + | + | | | | | | | | | | | + | | | | | | + | |
| Lumbar, Ectasia | | | | 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

| B6C3F1 MICE FEMALE
1.25 mg/m3 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|
| | 0733 | 0733 | 0713 | 0733 | 0733 | 0732 | 0769 | 0773 | 0773 | 0773 | 0773 | 0773 | 0766 | 0773 | 0773 | 0766 | 0766 | 0773 | 0755 | 0773 | | | 0773 | 0773 |
| | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 |
| | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 |
| Renal, Ectasia | | | | | | 2 | | 3 | | | | | | | | | | | | | | | | |
| Renal, Erythrophagocytosis | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Bronchial | + | M | + | + | + | M | + | M | + | + | M | + | + | A | + | + | + | + | + | + | + | M | + | + |
| Lymph Node, Mandibular
Hyperplasia, Lymphoid | M | + | + | M | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | M |
| Lymph Node, Mediastinal | + | + | M | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | M | + | + | + | M |
| Lymph Node, Mesenteric
Ectasia
Hyperplasia, Lymphoid | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | 3 |
| Spleen
Hematopoietic Cell Proliferation
Hyperplasia, Lymphoid | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 3 | + | + | + | + | + |
| Thymus | + | + | M | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skin
Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. 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 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 | | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 7 | 5 | 7 | 7 | 7 | 7 | 6 | | |
| 1.25 mg/m3 | 3 | 3 | 1 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 3 | 9 | 3 | 0 | 3 | 3 | 3 | 3 | 5 | | |
| | 3 | 3 | 2 | 3 | 2 | 2 | 9 | 3 | 1 | 2 | 1 | 3 | 3 | 1 | 3 | 3 | 8 | 8 | 2 | 6 | 2 | 2 | 1 | 6 | | |
| 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 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | | |

Skeletal Muscle +

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Meninges, Infiltration Cellular, Mononuclear Cell | 3 | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Larynx | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Respiratory Epithelium, Metaplasia, Squamous | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| Respiratory Epithelium, Vacuolization Cytoplasmic | 1 | 1 | 1 | 1 | 1 | | | 1 | | | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | | | 1 | |
| Squamous Epithelium, Erosion | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Squamous Epithelium, Hyperplasia | | | | | | | | | | 1 | | 1 | 1 | | | 2 | 1 | | | | | 1 | 1 |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Suppurative | | | | | | | 1 | | | | | | | | | | | | | | | | |
| Proteinosis | 2 | 1 | | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | | 1 | 2 | | 1 | 1 | 1 |
| Alveolar/bronchiolar Epithelium, Hyperplasia | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 |
| Alveolar/bronchiolar Epithelium, Vacuolization Cytoplasmic | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| Alveolar Epithelium, Hyperplasia | 1 | 1 | 3 | 1 | 4 | 1 | | 1 | 1 | | 1 | | 2 | 2 | 1 | 1 | | 1 | | | | 1 | |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | 2 | 1 | 1 | 2 | 3 | 3 | 3 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | | 1 | 1 | 1 | 2 | 2 | 1 |
| Bronchiole, Epithelium, Hyperplasia | | | | | | | | | | 1 | 1 | 1 | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Suppurative | 3 | 2 | 2 | 2 | 3 | | 1 | 3 | 3 | 3 | 3 | 1 | 3 | 2 | | 1 | 3 | 3 | 2 | 1 | 2 | 2 | 3 |

* .. 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

| B6C3F1 MICE FEMALE
1.25 mg/m3 | 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 | | | | | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 7 | 5 | | 7 | 7 | 7 | 7 | 6 | |
| 3 | 3 | 1 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 3 | 9 | 3 | 0 | 3 | 3 | 3 | 3 | 5 | | |
| 3 | 3 | 2 | 3 | 2 | 2 | 9 | 3 | 1 | 2 | 1 | 3 | 3 | 1 | 3 | 3 | 8 | 8 | 2 | 6 | 2 | 2 | 2 | 1 | 1 | 6 | | |
| 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 | | |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 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 | |
| Olfactory Epithelium, Atrophy | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | | | | 1 | 2 | | |
| Olfactory Epithelium, Hyperplasia | | | | 1 | 1 | | 1 | | 1 | | | | | | 1 | | | | 1 | | | | | 1 | | | |
| Olfactory Epithelium, Metaplasia, Respiratory | 3 | 2 | 1 | | 3 | | 2 | 1 | 1 | 1 | | | | 1 | | | | 3 | 2 | 1 | 2 | | 1 | 1 | 2 | | |
| Olfactory Epithelium, Respiratory Metaplasia, Atypical | | | | 2 | | 3 | | | | | 1 | 2 | 2 | | 2 | 1 | | | | | | 1 | | | | | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | 1 | 1 | 1 | | 2 | | 2 | 1 | 1 | 1 | 1 | | 2 | 1 | | 1 | 1 | 1 | 1 | | 1 | | 1 | 1 | 1 | | |
| Respiratory Epithelium, Hyperplasia | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| Respiratory Epithelium, Metaplasia, Squamous | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | | |
| Respiratory Epithelium, Vacuolization Cytoplasmic | 1 | | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| Squamous Epithelium, Erosion | | | | | | | | | 1 | 1 | | 1 | | | | | 1 | | | | | | | | 1 | | |
| Turbinate, Atrophy | 2 | 2 | 1 | 2 | 3 | 2 | 4 | 2 | 2 | 3 | 2 | | 2 | 1 | | 1 | 1 | 4 | 3 | 1 | 2 | 1 | 3 | 2 | 1 | | |
| Pleura | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Epithelium, Vacuolization Cytoplasmic | 1 | 1 | 2 | 2 | 2 | | | 1 | 1 | | | 1 | 2 | 1 | | 1 | | | 2 | 1 | 1 | 1 | 1 | | 1 | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phthisis Bulbi | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | |
| Cornea, Inflammation, Chronic Active | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | |
| Zymbal's 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 MICE FEMALE
1.25 mg/m3 | DAY ON TEST | 0
5
3
7 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
6
7
3 | 0
7
3
1 | 0
7
3
1 | 0
3
9
1 | 0
5
3
7 | 0
7
3
2 | 0
6
3
4 | 0
5
1
5 | 0
7
3
1 | 0
7
3
1 | 0
7
3
2 | 0
6
3
2 | 0
7
3
1 | 0
7
3
2 | 0
7
3
0 | 0
7
3
2 | 0
7
3
3 | 0
7
3
3 | 0
7
3
3 | * TOTALS |
|----------------------------------|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
| | ANIMAL ID | 0
0
3
2
6 | 0
0
3
2
7 | 0
0
3
2
8 | 0
0
3
2
9 | 0
0
3
3
0 | 0
0
3
3
1 | 0
0
3
3
2 | 0
0
3
3
3 | 0
0
3
3
4 | 0
0
3
3
5 | 0
0
3
3
6 | 0
0
3
3
7 | 0
0
3
3
8 | 0
0
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3
9 | 0
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0 | 0
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3
1 | 0
0
3
3
2 | 0
0
3
3
3 | 0
0
3
3
4 | 0
0
3
3
5 | 0
0
3
3
6 | 0
0
3
3
7 | 0
0
3
3
8 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Gallbladder | + | + | A | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | I | A | + | + | + | + | + | 41 | |
| Intestine Large, Cecum | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | 47 | |
| Intestine Large, Colon | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Intestine Large, Rectum | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Intestine Small, Duodenum | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | 47 | |
| Inflammation, Acute | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Intestine Small, Ileum | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | 46 | |
| Intestine Small, Jejunum | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | 47 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Basophilic Focus | | | | | | | | | | | | | X | | | | | | | | | | | | | | | 2 | |
| Clear Cell Focus | | | | | | | | | | | | | | X | | | | | | | | | | | | | | 1 | |
| Eosinophilic Focus | | | | X | | | | | | | | | | | | | | | | X | | | | | | | | 2 | |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Necrosis | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | 3 2.7 | |
| Tension Lipidosis | | | | 2 | | | | | | | | 1 | | | | | | | | | | | | | | | | 5 1.8 | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | 1 2.0 | |
| Mesentery | | | | + | | | + | | | + | | | | + | | + | | | | | | + | | | | | | 13 | |
| Inflammation, Chronic Active | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | 1 2.0 | |

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

+ .. Tissue examined microscopically

X .. Lesion present

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| B6C3F1 MICE FEMALE
1.25 mg/m3 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------|
| | 0537 | 0773 | 0773 | 0773 | 0673 | 0773 | 0773 | 0339 | 0533 | 0773 | 0773 | 0651 | 0577 | 0773 | 0773 | 0773 | 0773 | 0676 | 0773 | 0773 | 0773 | 0773 | 0773 | | |
| 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 | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 11 2.2 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach
Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
2 2.5 |
| Stomach, Glandular
Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
2 2.5 |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.0 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 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

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1) Minimal 3) Moderate

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| B6C3F1 MICE FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--------------|--------------|---------------|
| | 0537 | 0773 | 0773 | 0773 | 0673 | 0773 | 0773 | 0339 | 0537 | 0773 | 0773 | 0657 | 0577 | 0773 | 0773 | 0773 | 0773 | 0677 | 0773 | 0773 | 0773 | 0773 | 0773 | | | | | |
| 1.25 mg/m3 | 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 | | | | |
| Parathyroid Gland | + | M | M | M | M | M | + | + | M | + | M | M | M | M | + | + | M | M | M | + | + | M | M | + | + | 28 | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | 2 | | | | | | 2 | | | | | | | | 5 2.2 | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | M | + | 44 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | 2 2.5 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | 4 2.8 | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 | |
| Endometrium, Hyperplasia, Cystic | | 1 | 3 | 2 | 2 | | 2 | 3 | | | 3 | 2 | | 3 | | 4 | | 2 | 3 | 2 | | 3 | 4 | 1 | 3 | 2 | 3 | 38 2.5 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | | 8 | |
| Lumbar, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 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

| B6C3F1 MICE FEMALE
1.25 mg/m3 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|-----|-----|---|----|----|-----|-----|
| | 0537 | 0733 | 0733 | 0733 | 0673 | 0773 | 0773 | 0393 | 0533 | 0773 | 0773 | 0653 | 0573 | 0773 | 0773 | 0773 | 0673 | 0773 | 0773 | 0773 | | | | | | | | |
| ANIMAL ID | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | | | | | | | | |
| Renal, Ectasia | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 | | | | | | |
| Renal, Erythrophagocytosis | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | | | | |
| Lymph Node, Bronchial | M | + | + | M | M | + | + | + | M | M | + | + | + | + | M | + | M | M | + | M | M | + | + | + | + | 33 | | |
| Lymph Node, Mandibular
Hyperplasia, Lymphoid | M | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | 41 | 1 | 4.0 |
| Lymph Node, Mediastinal | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | M | M | + | + | M | + | M | + | + | 39 | | |
| Lymph Node, Mesenteric
Ectasia
Hyperplasia, Lymphoid | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | 1 | 3.0 |
| Spleen
Hematopoietic Cell Proliferation
Hyperplasia, Lymphoid | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | 4 | 2.5 | |
| Thymus | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Skin
Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 3.0 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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

| B6C3F1 MICE FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|----------|
| | 0537 | 0777 | 0777 | 0777 | 0677 | 0777 | 0777 | 0377 | 0577 | 0777 | 0777 | 0677 | 0577 | 0777 | 0777 | 0777 | 0777 | 0677 | 0777 | 0777 | 0777 | 0777 | | |
| 1.25 mg/m3 | 037 | 037 | 037 | 037 | 077 | 037 | 037 | 097 | 037 | 037 | 037 | 017 | 007 | 037 | 037 | 037 | 037 | 087 | 037 | 037 | 037 | 037 | | |
| ANIMAL ID | 00326 | 00327 | 00328 | 00329 | 00330 | 00331 | 00332 | 00333 | 00334 | 00335 | 00336 | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346 | 00347 | | |

Skeletal Muscle

+

2

NERVOUS SYSTEM

Brain

Meninges, Infiltration Cellular, Mononuclear Cell

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 | 2.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|

RESPIRATORY SYSTEM

Larynx

Inflammation, Suppurative
 Inflammation, Chronic Active
 Respiratory Epithelium, Metaplasia, Squamous
 Respiratory Epithelium, Vacuolization Cytoplasmic
 Squamous Epithelium, Erosion
 Squamous Epithelium, Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 2.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 49 | 1.0 | |
| | | | | 1 | 1 | | 1 | | | | | 1 | | | | | 1 | | 1 | 1 | 1 | 1 | | 24 | 1.0 | |
| | | | | | | | | | 1 | | | 1 | 1 | | | | | | 1 | | | | | | 2 | 1.0 |
| | | | | | 1 | | | | | 1 | 1 | | 1 | 1 | | | | | 1 | | | | | 13 | 1.1 | |

Lung

Inflammation, Suppurative
 Proteinosis
 Alveolar/bronchiolar Epithelium, Hyperplasia
 Alveolar/bronchiolar Epithelium, Vacuolization Cytoplasmic
 Alveolar Epithelium, Hyperplasia
 Alveolus, Infiltration Cellular, Histiocyte
 Bronchiole, Epithelium, Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 3 | 1.3 |
| 2 | | | | | | | | | | | | | | | | 1 | | | | | | | | | | |
| 1 | 1 | 1 | 2 | 2 | 1 | 2 | | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 45 | 1.4 | |
| 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 49 | 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 | 48 | 1.1 | |
| | | 1 | | | 1 | | 2 | | 1 | 1 | | | | | 2 | | 1 | 1 | 1 | 2 | | | 4 | 3 | 27 | 1.6 |
| 3 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 3 | 1 | 2 | 1 | 1 | 49 | 1.6 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1.0 | |

Nose

Inflammation, Suppurative

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| 1 | 3 | 2 | 4 | 2 | 2 | 3 | 1 | 2 | 1 | 3 | 2 | 3 | | 3 | 2 | 3 | 1 | 3 | 3 | 2 | 2 | 3 | 2 | 1 | 47 | 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

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

| B6C3F1 MICE FEMALE
1.25 mg/m3 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|------|--|
| | 0537 | 0077 | 0077 | 0077 | 0067 | 0077 | 0077 | 0033 | 0055 | 0077 | 0077 | 0066 | 0055 | 0077 | 0077 | 0077 | 0077 | 0066 | 0077 | 0077 | | | 0077 | 0077 | 0077 | 0077 | |
| ANIMAL ID | 00326 | 00337 | 00338 | 00339 | 00300 | 00301 | 00302 | 00303 | 00304 | 00305 | 00306 | 00307 | 00308 | 00309 | 00310 | 00311 | 00312 | 00313 | 00314 | 00315 | 00316 | 00317 | 00318 | 00319 | 00320 | | |
| Olfactory Epithelium, Atrophy | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | | 2 | 1 | | 44 | | |
| Olfactory Epithelium, Hyperplasia | | | 1 | | | 1 | 1 | 1 | 1 | 2 | 1 | | | 1 | | 2 | 1 | | 1 | | 1 | | 1 | | 22 | | |
| Olfactory Epithelium, Metaplasia, Respiratory | | 2 | | | 3 | 1 | | | | | 2 | | 1 | | 3 | | | 1 | 3 | 2 | | | | 1 | 26 | | |
| Olfactory Epithelium, Respiratory Metaplasia, Atypical | | | | | | 1 | | 1 | 2 | | 1 | | 2 | | 1 | 2 | | | | 2 | | 1 | 1 | | 18 | | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | 1 | 1 | 1 | 1 | | 2 | 1 | | 1 | 1 | | 2 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | 38 | | |
| Respiratory Epithelium, Hyperplasia | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | 2 | 40 | | |
| Respiratory Epithelium, Metaplasia, Squamous | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | | 1 | 1 | 49 | | |
| Respiratory Epithelium, Vacuolization Cytoplasmic | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 2 | 1 | 1 | 1 | 1 | 1 | | 1 | | 1 | 40 | | |
| Squamous Epithelium, Erosion | | | | | 2 | | | | | | | | | | | | | | | | 1 | | | | 7 | | |
| Turbinate, Atrophy | | 2 | 2 | 2 | 2 | 2 | 2 | | 4 | | 2 | 2 | 2 | | 3 | 2 | 4 | 2 | 3 | 3 | 2 | 2 | 2 | 1 | 2 | 44 | |
| Pleura | | | | + | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Trachea | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation, Suppurative Epithelium, Vacuolization Cytoplasmic | | 1 | | | | | | 2 | | 1 | 2 | | 1 | | | | | 1 | | 2 | | 2 | 2 | | 26 | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | 46 | |
| Phthisis Bulbi | | | | | | | | | | | 3 | | | | | | | | | | 2 | | | | 2 | | |
| Cornea, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | 2 | | | | | 2 | | |
| Harderian Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | 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

| B6C3F1 MICE FEMALE
2.5 mg/m3 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|-----------|----------------------|
| | 0733 | 0733 | 0733 | 0593 | 0577 | 0567 | 0557 | 0577 | 0577 | 0556 | 0567 | 0577 | 0577 | 0556 | 0567 | 0577 | 0577 | 0577 | 0577 | 0556 | 0577 | 0577 | 0566 | 0555 | | | |
| | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | | | |
| Fat, Necrosis | | | | | | 2 | 2 | 2 | | | | | 2 | 2 | | | | | | | | | | 2 | | | |
| Pancreas Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Stomach, Forestomach Hyperplasia, Squamous Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 | + | + | | | |
| Stomach, Glandular Metaplasia, Hepatocyte | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 2 | + | + | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart Cardiomyopathy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| | | | | | | | | 1 | 1 | | | | 1 | | | | | | | | | 1 | | 1 | | | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Parathyroid Gland | + | + | M | M | + | M | + | + | + | M | + | M | M | M | + | + | + | M | + | M | + | M | + | M | | | |
| Pituitary Gland | + | + | + | + | + | M | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | | | | |

* .. 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 MICE FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|----------------------|
| | 0733 | 0646 | 0533 | 0709 | 0733 | 0771 | 0772 | 0773 | 0673 | 0573 | 0773 | 0747 | 0646 | 0773 | 0773 | 0773 | 0676 | 0773 | 0773 | 0773 | | 0575 | 0773 |
| 2.5 mg/m3 | ANIMAL ID | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
| | 00526 | 00527 | 00528 | 00529 | 00530 | 00531 | 00532 | 00533 | 00534 | 00535 | 00536 | 00537 | 00538 | 00539 | 00540 | 00541 | 00542 | 00543 | 00544 | 00545 | | 00546 | 00547 |
| Fat, Necrosis | | | | | | | | | | | | | | | | | 2 | 2 | 2 | 2 | | | 10 2.0 |
| Pancreas Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
2 2.5 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach Hyperplasia, Squamous Ulcer | + | + | 2 | + | + | + | + | + | + | + | + | + | + | + | + | + | 2 | + | + | + | + | + | 50
3 2.3
1 3.0 |
| Stomach, Glandular Metaplasia, Hepatocyte | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 49
1 2.0 |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Heart Cardiomyopathy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
11 1.0 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 2.0 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | 49 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parathyroid Gland | M | M | M | + | + | + | + | M | M | M | M | + | + | + | M | + | + | M | M | M | M | + | 24 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |

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

| B6C3F1 MICE FEMALE | 2.5 mg/m3 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--------------------|-----------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|
| | | 0733 | 0646 | 0533 | 0709 | 0733 | 0731 | 0772 | 0773 | 0663 | 0557 | 0773 | 0459 | 0667 | 0773 | 0773 | 0773 | 0667 | 0773 | 0773 | 0557 | | 0773 |
| ANIMAL ID | | 00526 | 00052 | 00052 | 00052 | 00052 | 00052 | 00052 | 00052 | 00052 | 00052 | 00052 | 00052 | 00052 | 00052 | 00052 | 00052 | 00052 | 00052 | 00052 | 00052 | 00052 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 6 | 5 | 7 | 7 | 4 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 7 |
| | | 3 | 4 | 3 | 0 | 3 | 3 | 3 | 7 | 9 | 3 | 0 | 5 | 9 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 9 | 3 |
| | | 3 | 6 | 3 | 9 | 3 | 1 | 2 | 3 | 7 | 3 | 2 | 9 | 8 | 3 | 3 | 3 | 6 | 2 | 1 | 2 | 3 | 2 |

Pars Distalis, Hyperplasia

2 4

2 2

3

6 2.5

Thyroid Gland

+ 50

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland

+ + + M M + I M + M + M + + + + + + + + + + + 41

Ovary

+ 50

Cyst

4 2 2 3 1 3 11 2.7

Thrombosis

4 1 3 1 4.0

Uterus

+ 50

Inflammation, Chronic Active

1 2 2 2 3 3 2 3 3 3 1 3 3 3 3 3 2 1 1 3.0

Endometrium, Hyperplasia, Cystic

40 2.3

Vagina

1

HEMATOPOIETIC SYSTEM

Bone Marrow

+ 50

Lymph Node

+ 7

Iliac, Ectasia

1 3.0

Lymph Node, Bronchial

+ + + + M + + + M + + + M + M + M + M + + M M + + 34

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

+ .. Tissue examined microscopically

X .. Lesion present

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A .. Autolysis precludes evaluation

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1-4 .. Lesion qualified as:

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| B6C3F1 MICE FEMALE
2.5 mg/m3 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|--|
| | 0733 | 0646 | 0533 | 0709 | 0773 | 0773 | 0773 | 0773 | 0657 | 0573 | 0773 | 0744 | 0666 | 0773 | 0773 | 0773 | 0666 | 0773 | 0773 | 0773 | | 0773 | 0573 | 0773 | | | |
| ANIMAL ID | 00526 | 00527 | 00528 | 00529 | 00530 | 00531 | 00532 | 00533 | 00534 | 00535 | 00536 | 00537 | 00538 | 00539 | 00540 | 00541 | 00542 | 00543 | 00544 | 00545 | 00546 | 00547 | 00548 | 00549 | 00550 | | |
| Lymph Node, Mandibular | M | + | M | M | + | + | + | M | + | + | + | + | M | + | + | + | + | M | + | + | + | M | + | M | + | 38 | |
| Lymph Node, Mediastinal | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | 44 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | A | + | + | + | + | + | + | + | 47 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | 48 | |
| Hematopoietic Cell Proliferation | | | | | 2 | | | | | | | | | | | | | | | | | | | | | 4 3.0 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Thymus | + | M | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | A | + | + | + | + | + | + | 46 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | 2 | | | | | | | | 1 2.0 | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Inflammation, Chronic Active | | | | | 4 | | | | | | | | | | | | | | | | | | | | | 2 4.0 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | + | 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

| B6C3F1 MICE FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|--------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|
| | 0733 | 0646 | 0533 | 0709 | 0733 | 0733 | 0733 | 0733 | 0677 | 0593 | 0730 | 0745 | 0669 | 0773 | 0773 | 0773 | 0676 | 0773 | 0773 | 0773 | | 0575 | 0732 | | |
| 2.5 mg/m3 | 00526 | 00527 | 00528 | 00529 | 00530 | 00531 | 00532 | 00533 | 00534 | 00535 | 00536 | 00537 | 00538 | 00539 | 00540 | 00541 | 00542 | 00543 | 00544 | 00545 | 00546 | 00547 | 00548 | 00549 | 00550 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|
| Larynx | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Respiratory Epithelium, Metaplasia, Squamous | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 50 1.0 |
| Respiratory Epithelium, Vacuolization Cytoplasmic | 1 | 1 | | 1 | 1 | | | 1 | | 1 | | | | 1 | | 1 | | 2 | 1 | 1 | | 1 | 1 | 1 | 1 | 31 1.0 |
| Squamous Epithelium, Erosion | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | 7 1.0 |
| Squamous Epithelium, Hyperplasia | 1 | 1 | 1 | 1 | | | | 1 | | 1 | | 1 | | | 1 | | | 1 | | | | | | | 1 | 21 1.0 |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 |
| Inflammation, Suppurative | | | | | | | | | | 1 | | | | | | | | | | | | | | | | 2 1.0 |
| Proteinosis | 3 | 2 | 3 | 3 | 2 | 3 | 4 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 3 | 1 | 3 | 4 | 3 | 3 | 4 | 2 | 3 | 3 | 50 2.6 |
| Thrombosis | | | 3 | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Alveolar/bronchiolar Epithelium, Hyperplasia | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 3 | 2 | 1 | 2 | 1 | | 2 | 3 | 2 | 1 | 2 | 2 | 2 | 49 1.9 |
| Alveolar/bronchiolar Epithelium, Vacuolization Cytoplasmic | 2 | 2 | 1 | 2 | 1 | 2 | 3 | 2 | 2 | 1 | 1 | 1 | 2 | 3 | 1 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 49 1.9 |
| Alveolar Epithelium, Hyperplasia | | | 1 | | | 1 | | 2 | | 2 | | | 1 | 1 | | 2 | | 4 | 1 | 1 | 1 | | 1 | 3 | 26 1.4 | |
| Alveolus, Infiltration Cellular, Histiocyte | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 4 | 2 | 4 | 2 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 50 2.5 |
| Bronchiole, Epithelium, Erosion | | | 1 | | | | | | | | | | 1 | | | | | | | | | | | | | 4 1.0 |
| Bronchiole, Epithelium, Hyperplasia | | | 1 | | | | | | | 1 | | | 1 | | 1 | | 1 | | | 1 | | | 1 | | | 12 1.1 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation, Suppurative | 1 | 4 | 2 | 3 | 4 | 4 | 4 | 4 | 4 | 2 | 3 | 2 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 50 3.1 |
| Olfactory Epithelium, Atrophy | | 1 | 1 | 1 | 1 | 1 | | | | 2 | 1 | 1 | 1 | | 2 | 1 | | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 39 1.2 |
| Olfactory Epithelium, Hyperplasia | | | | | | | | | | 1 | | | | | 1 | 1 | | 1 | 1 | 1 | | | 1 | 1 | 1 | 16 1.0 |
| Olfactory Epithelium, Metaplasia, Respiratory | 1 | 4 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 1 | 3 | 4 | 2 | | 4 | 2 | 3 | | 3 | 3 | | 3 | 2 | 44 2.7 |
| Olfactory Epithelium, Respiratory Metaplasia, Atypical | | | | 2 | | 1 | | | | | | 1 | | | | 2 | | | 2 | | 1 | 2 | | 2 | | 14 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
 2) Mild 4) Marked

| B6C3F1 MICE FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|---|-------|-------|-------|-----------|------------|
| | 0733 | 0646 | 0553 | 0770 | 0773 | 0773 | 0773 | 0667 | 0557 | 0774 | 0774 | 0446 | 0667 | 0777 | 0777 | 0777 | 0666 | 0777 | 0777 | 0777 | | | 0557 | 0777 | | | |
| 2.5 mg/m3 | ANIMAL ID | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
| 00526 | 00527 | 00528 | 00529 | 00530 | 00531 | 00532 | 00533 | 00534 | 00535 | 00536 | 00537 | 00538 | 00539 | 00540 | 00541 | 00542 | 00543 | 00544 | 00545 | 00546 | | | 00547 | 00548 | 00549 | 00550 | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | | 1 | | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 40 | 1.2 |
| Respiratory Epithelium, Hyperplasia | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 40 | 1.1 |
| Respiratory Epithelium, Metaplasia, Squamous | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 2 | 1 | 2 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 49 | 1.4 |
| Respiratory Epithelium, Vacuolization Cytoplasmic | | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | | 2 | 1 | 1 | 1 | 47 | 1.1 |
| Squamous Epithelium, Erosion | | | | 1 | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Turbinate, Atrophy | 3 | 4 | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 4 | 4 | 2 | 2 | 4 | 4 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 50 | 2.9 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Epithelium, Vacuolization Cytoplasmic | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | | 1 | | 2 | | 2 | | 2 | 2 | | 2 | 1 | | 3 | 1 | 1 | 2 | 37 | 1.6 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Cornea, Inflammation, Chronic Active | | 3 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Infarct | | | | 2 | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 |
| Nephropathy | | 1 | 1 | | | | | | | | 1 | | 1 | | 1 | | 1 | | 1 | | | | | | | 20 | 1.1 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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

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

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

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gallbladder | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basophilic Focus | | | | X | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | X | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tension Lipidosis | | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | + | | | | + | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | 2 | | | | 2 | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B6C3F1 MICE FEMALE | 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 |
| | | 3 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 6 | 6 | 6 | 7 | 7 | 5 | 5 | 7 | 7 | 3 | 3 | 3 | 3 | 3 |
| | | 5 | 3 | 6 | 3 | 1 | 0 | 3 | 3 | 7 | 1 | 3 | 3 | 3 | 6 | 3 | 3 | 5 | 0 | 8 | 6 | 3 | 3 | 0 | 3 | 3 | 0 | 3 | 3 | 1 | 1 | 1 |
| | | 4 | 2 | 3 | 2 | 8 | 9 | 2 | 1 | 1 | 8 | 2 | 1 | 2 | 0 | 3 | 3 | 4 | 4 | 4 | 0 | 2 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 5.0 mg/m3 | 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 |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | | 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 | 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 | 6 | 7 | 8 | 9 | 0 | 1 | |

females (cont...)

Atrophy

Salivary Glands

Stomach, Forestomach
Hyperplasia, Squamous
Metaplasia, Hepatocyte

Stomach, Glandular

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

CARDIOVASCULAR SYSTEM

Heart
Cardiomyopathy
Inflammation, Suppurative
Necrosis
Thrombosis

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

ENDOCRINE SYSTEM

Adrenal Cortex
Hyperplasia

Adrenal Medulla
Hyperplasia

Islets, Pancreatic
Hyperplasia

Parathyroid Gland

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | |
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| M | + | M | M | + | M | + | + | M | + | + | + | + | + | + | M | + | + | + | + | M | + | + | + | M | M | + | | | | | |

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

| B6C3F1 MICE FEMALE

5.0 mg/m3 | 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 | |
| | 3 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 6 | 6 | 6 | 7 | 7 | 5 | 5 | 7 | |
| | 5 | 3 | 6 | 3 | 1 | 0 | 3 | 3 | 7 | 1 | 3 | 3 | 3 | 6 | 3 | 3 | 5 | 0 | 8 | 6 | 3 | 3 | 0 | 3 | 3 | |
| 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 | | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pituitary Gland
Pars Distalis, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | 2 | | | 2 | | | | | | | | | | | | | 3 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | M | + | + | + | M | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | M | + | + | + | M |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | | 1 | 1 | 3 | 3 | 2 | 2 | | | | | | | 2 | 3 | | | | | | | 3 | 2 | | | 2 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Bronchial | + | + | M | M | M | + | + | + | + | M | M | M | M | M | + | M | M | + | + | M | + | + | M | M | M | |
| Inflammation, Suppurative | | | | | | | 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

| B6C3F1 MICE FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|---|-----------|----------------------|--|---|--|--|--|---|--|--|
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1 | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | 1 | | | | | | | | | | | 1 | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Metaplasia, Squamous | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | |
| Respiratory Epithelium, Vacuolization
Cytoplasmic | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | | | 1 | 1 | | | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | |
| Squamous Epithelium, Erosion | | | | | | | | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Epithelium, Hyperplasia | 1 | | | | 1 | | | | 1 | 1 | 1 | | | | 1 | | | | 1 | | | | | | 1 | | | | | | | | | | |
| Lung | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | 2 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | |
| Proteinosis | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | | | | | | | | | | | |
| Alveolar/bronchiolar Epithelium, Hyperplasia | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 2 | 3 | | | | | | | | | | |
| Alveolar/bronchiolar Epithelium, Vacuolization
Cytoplasmic | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 2 | 4 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | | 2 | 4 | 4 | 3 | 4 | 4 | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | 1 | | | 1 | 1 | | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | |
| Alveolar Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | 2 | 4 | 2 | 3 | 3 | 2 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 2 | 4 | 4 | 3 | 4 | 4 | 2 | 3 | 3 | 3 | | | | | | | | | | |
| Bronchiole, Epithelium, Erosion | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bronchiole, Epithelium, Hyperplasia | 1 | 2 | 2 | | 1 | 1 | 1 | 1 | | 1 | 1 | 4 | | 1 | | | 1 | | 1 | | | 1 | 1 | 1 | 1 | | | | | | | | | | |
| Nose | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | 2 | 4 | 4 | 3 | 4 | 3 | 4 | 3 | 3 | 4 | 3 | 3 | 2 | 4 | 3 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 2 | | | | | | | | | | |
| Olfactory Epithelium, Atrophy | 2 | 1 | | | | 1 | 1 | 1 | | | | | | | 1 | | | | 1 | 2 | | | | 1 | 1 | 1 | | | | | | | | | |
| Olfactory Epithelium, Hyperplasia | 1 | | | | | 1 | | | | | | | | | | | | | | | | | | | 1 | | | | 1 | | | | 1 | | |
| Olfactory Epithelium, Metaplasia, Respiratory | 4 | 3 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 2 | 4 | 3 | 4 | 3 | 2 | 2 | 2 | | | | | | | | | | |
| Olfactory Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Respiratory Metaplasia,
Atypical | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Accumulation, Hyaline
Droplet | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | |
| Respiratory Epithelium, Hyperplasia | 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

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

| B6C3F1 MICE FEMALE
5.0 mg/m3 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|-----------|----------------------|
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4 | 0
6
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2 | 0
7
3
3 | 0
5
0
5 | 0
5
3
3 | 0
7
3
1 | | | |
| Respiratory Epithelium, Metaplasia, Squamous | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | |
| Respiratory Epithelium, Vacuolization
Cytoplasmic | 1 | 1 | 1 | 1 | | 1 | 1 | 2 | 1 | 2 | 1 | | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | |
| Squamous Epithelium, Erosion | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Turbinate, Atrophy | 3 | 2 | 3 | 3 | 3 | 4 | 2 | 2 | 3 | 4 | 2 | 4 | 4 | 3 | 3 | 4 | 3 | 4 | 4 | 3 | 4 | 3 | 3 | 3 | 4 | |
| Pleura | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Suppurative
Epithelium, Vacuolization Cytoplasmic | | | 2 | 1 | 1 | 2 | 2 | 2 | | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | | 2 | 2 | | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | 3 | | | |
| Nephropathy | | 1 | | | 1 | | | | 1 | 1 | | | | 1 | | | 1 | | 1 | | 1 | | 1 | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. 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 MICE FEMALE
5.0 mg/m3 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|---|----|
| | 0732 | 0610 | 0713 | 0500 | 0711 | 0713 | 0608 | 0504 | 0702 | 0703 | 0703 | 0604 | 0703 | 0407 | 0703 | 0604 | 0703 | 0703 | 0607 | 0505 | 0506 | 0703 | 0703 | 0703 | | | |
| ANIMAL ID | 00726 | 00727 | 00728 | 00729 | 00730 | 00731 | 00732 | 00733 | 00734 | 00735 | 00736 | 00737 | 00738 | 00739 | 00740 | 00741 | 00742 | 00743 | 00744 | 00745 | 00746 | 00747 | 00748 | 00749 | | | |
| Atrophy | 1 | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | 2 | | | | 1 2.0 | | |
| Metaplasia, Hepatocyte | | | | | | | | | | 3 | | | | | | | | | | | | | | | 1 3.0 | | |
| Stomach, Glandular | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cardiomyopathy | | | | | | 1 | | | | 1 | | | | | | | | | | | 1 | 1 | | | 9 1.0 | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| Necrosis | | | | | | | | | | | | | | | | 2 | | | | | | | | | 1 2.0 | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | 1 | | | 2 | 3 1.7 | | |
| Adrenal Medulla | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| Islets, Pancreatic | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| Parathyroid Gland | M | M | + | + | + | + | + | M | M | + | + | + | M | M | + | M | + | + | + | + | I | + | + | + | M | + | 32 |

* .. 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 MICE FEMALE
5.0 mg/m3 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------------|----------------------|--|
| | 0732 | 0610 | 0732 | 0506 | 0772 | 0776 | 0658 | 0574 | 0772 | 0773 | 0643 | 0773 | 0473 | 0763 | 0673 | 0773 | 0773 | 0673 | 0559 | 0556 | | 0773 | 0773 | 0773 | | | |
| ANIMAL ID | 00726 | 00727 | 00728 | 00729 | 00730 | 00731 | 00732 | 00733 | 00734 | 00735 | 00736 | 00737 | 00738 | 00739 | 00740 | 00741 | 00742 | 00743 | 00744 | 00745 | 00746 | 00747 | 00748 | 00749 | 00750 | | |
| Lymph Node, Mandibular | M | M | + | M | + | + | M | + | M | + | + | + | M | M | + | M | + | + | + | + | + | M | M | M | + | 31 | |
| Lymph Node, Mediastinal
Hyperplasia, Lymphoid
Inflammation, Suppurative | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46
1 4.0
1 4.0 | |
| Lymph Node, Mesenteric | + | + | M | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | 47 | | |
| Spleen
Hematopoietic Cell Proliferation | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49
1 2.0 | | |
| Thymus
Hyperplasia, Lymphoid | + | + | + | + | + | + | M | + | + | + | + | M | I | + | + | + | + | + | + | + | + | + | + | + | 46
1 4.0 | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Larynx | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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
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 BLANK .. Not examined microscopically

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

| B6C3F1 MICE FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----------|
| | 0732 | 0610 | 0732 | 0506 | 0773 | 0776 | 0658 | 0574 | 0733 | 0733 | 0733 | 0643 | 0733 | 0473 | 0763 | 0763 | 0773 | 0676 | 0555 | 0557 | 0773 | 0773 | 0773 | | |
| 5.0 mg/m3 | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00726 | 00727 | 00728 | 00729 | 00730 | 00731 | 00732 | 00733 | 00734 | 00735 | 00736 | 00737 | 00738 | 00739 | 00740 | 00741 | 00742 | 00743 | 00744 | 00745 | 00746 | 00747 | 00748 | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.0 |
| Inflammation, Chronic Active | | | | | | | 1 | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Respiratory Epithelium, Metaplasia, Squamous | 1 | | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 47 | 1.1 |
| Respiratory Epithelium, Vacuolization Cytoplasmic | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | 1 | | | | | 1 | 1 | 1 | 1 | 1 | 34 | 1.0 |
| Squamous Epithelium, Erosion | | | | | | | | 1 | | | | | | | | | | | | | | | 1 | 4 | 1.0 |
| Squamous Epithelium, Hyperplasia | 1 | | 1 | | | 1 | 2 | 1 | | | | 1 | | | | | 1 | | 1 | 1 | | | 1 | 21 | 1.0 |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Suppurative | 3 | | | | | | | 1 | | | | 3 | | | | | | | | | 3 | | 1 | 15 | 1.7 |
| Proteinosis | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 50 | 3.9 |
| Alveolar/bronchiolar Epithelium, Hyperplasia | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 3 | 50 | 2.7 |
| Alveolar/bronchiolar Epithelium, Vacuolization Cytoplasmic | 3 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | | 4 | 3 | 3 | 3 | 4 | 2 | 4 | 3 | 3 | 2 | 4 | 48 | 3.5 |
| Alveolar Epithelium, Hyperplasia | 1 | 4 | 4 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | | 1 | 1 | | | 1 | | 2 | 1 | 41 | 1.4 |
| Alveolar Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Alveolus, Infiltration Cellular, Histiocyte | 3 | 4 | 2 | 3 | 4 | 3 | 3 | 3 | 3 | 4 | 4 | | 4 | 3 | 2 | 4 | 3 | 2 | 3 | 2 | 3 | 4 | 4 | 49 | 3.1 |
| Bronchiole, Epithelium, Erosion | | | | | | | | | | | | 1 | | | | | | | | | | | 1 | 3 | 1.0 |
| Bronchiole, Epithelium, Hyperplasia | | | | | | 1 | 1 | 1 | | 1 | 1 | 1 | | | | | | | | 1 | 2 | | | 26 | 1.2 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Suppurative | 2 | 4 | 3 | 4 | 4 | 3 | 4 | 4 | 3 | 3 | 3 | 4 | 4 | 3 | 2 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 4 | 50 | 3.3 |
| Olfactory Epithelium, Atrophy | | | | 1 | | 1 | | | 1 | 1 | 2 | 1 | | 2 | 1 | 1 | | 1 | | | | 2 | 1 | 24 | 1.2 |
| Olfactory Epithelium, Hyperplasia | | | | | | 1 | | | | | 1 | 1 | | | | | | | | | | | | 8 | 1.0 |
| Olfactory Epithelium, Metaplasia, Respiratory | 4 | 1 | 3 | 3 | 4 | 2 | 4 | 3 | 3 | 3 | 3 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 3 | 4 | 50 | 3.3 |
| Olfactory Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Olfactory Epithelium, Respiratory Metaplasia, Atypical | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | | | | 1 | 1 | 1 | | | | 1 | | | | | 1 | | | | 1 | | 1 | | 1 | 10 | 1.0 |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | 1 | 1 | | | | | | | | | | | | | 9 | 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

| B6C3F1 MICE FEMALE
5.0 mg/m3 | DAY ON TEST | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|--|-------------|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|----|-----|-----|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 | 0 |
| Respiratory Epithelium, Metaplasia, Squamous | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 50 | 1.5 |
| Respiratory Epithelium, Vacuolization
Cytoplasmic | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 47 | 1.1 |
| Squamous Epithelium, Erosion | 1 | 1 | | | | | | | | | 1 | | | 1 | | | | | | | | | | | | 5 | 1.0 |
| Turbinate, Atrophy | 4 | 2 | 4 | 3 | 4 | 3 | 4 | 4 | 3 | 4 | 3 | 4 | 4 | 3 | 4 | 4 | 3 | 3 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 50 | 3.4 |
| Pleura | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Trachea | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Inflammation, Suppurative | 1 | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Epithelium, Vacuolization
Cytoplasmic | 2 | | 2 | 1 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | | 1 | | 2 | 2 | 2 | 2 | 1 | | 2 | 1 | 2 | 39 | 1.8 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Nephropathy | 1 | | 1 | | | | 1 | | 1 | | | | | 1 | | 1 | | | | 1 | 1 | | 1 | 1 | 1 | 19 | 1.0 |
| Urinary Bladder | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |

*** END OF REPORT ***

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+ .. Tissue examined microscopically

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