

**TDMS No.** 60311 - 06

**Test Type:** CHRONIC

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Cobalt

**CAS Number:** 7440-48-4

**Date Report Requested:** 09/08/2011

**Time Report Requested:** 08:22:41

**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

<b>B6C3F1 MICE MALE</b>	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	6	7	6	7	7	6	7	7	7	7	7	6	7	7	7	7	7	7	7	7	6	7	7	7	6	7	7	6	7	7	6	7	7	6	7	7	6	7	7	
<b>control</b>	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	2	2	2	2	2	2	2	2	2
																								<b>males</b>					<b>(cont...)</b>													

**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 Adenoma	+	+	+	A	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+																X	A	A	+							
Intestine Small, Ileum Adenoma	+	+	+	A	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	A	A	+																							
Intestine Small, Jejunum	+	+	+	A	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	A	A	+																							
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
Hemangiosarcoma																																															X	X				
Hemangiosarcoma, Multiple																																																				
Hepatoblastoma																																																				
Hepatocellular Adenoma																																																		X		
Hepatocellular Adenoma, Multiple	X			X			X			X					X																																			X		
Hepatocellular Carcinoma			X			X																																													X	
Hepatocellular Carcinoma, Multiple							X			X																																								X		
Histiocytic Sarcoma																																																				X
Lymphoma Malignant							X			X																																										

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

B6C3F1 MICE MALE control	DAY ON TEST	0729	0638	0729	0642	0731	0678	0772	0677	0777	0677	0777	0677	0777	0677	0777	0677	0777	0677	0777	0677	0777	0677	0777	ANIMAL ID	males (cont...)	
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000			
Mesentery		+					+																				
Pancreas Lymphoma Malignant		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Salivary Glands Histiocytic Sarcoma Lymphoma Malignant		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Stomach, Forestomach Lymphoma Malignant		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Stomach, Glandular Lymphoma Malignant		+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+		
Tooth															+												
<b>CARDIOVASCULAR SYSTEM</b>																											
Heart Hemangiosarcoma Lymphoma Malignant		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
<b>ENDOCRINE SYSTEM</b>																											
Adrenal Cortex Hepatocellular Carcinoma, Metastatic, Liver Lymphoma Malignant Bilateral, Subcapsular, Adenoma		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		

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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	ANIMAL ID	males (cont...)																												
		7	6	7	6	7	7	6	7	7	7	7	6	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		9	8	9	6	9	1	4	9	0	4	9	9	0	1	9	9	0	9	1	0	9	0	2	8	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	
Lymphoma Malignant																																																					X
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+																												
Parathyroid Gland		+	+	+	+	M	+	+	+	M	+	+	+	+	+	M	+	+	M	M	+	M	M	M	+																												
Pituitary Gland		+	+	+	I	+	+	+	+	+	+	+	+	M	+	+	I	+	+	+	+	+	+	+	+																												
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+																												
<b>GENERAL BODY SYSTEM</b>																																																					
NONE																																																					
<b>GENITAL SYSTEM</b>																																																					
Epididymis		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+																												
Preputial Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+																												
Prostate		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+																												
Lymphoma Malignant					X																																																
Seminal Vesicle		+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+																												
Testes		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+																												
Histiocytic Sarcoma																																																					
Lymphoma Malignant					X																																																
Interstitial Cell, Adenoma																																																			X		

**HEMATOPOIETIC SYSTEM**

- \* .. Total animals with tissue examined microscopically; Total animals with tumor
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B6C3F1 MICE MALE control	DAY ON TEST	0729	0638	0729	0642	0723	0771	0664	0772	0777	0777	0777	0777	0777	0661	0777	0777	0777	0777	0777	0667	0777	0777	0777	0667	0777	0777
	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
Bone Marrow		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hemangiosarcoma		X																									
Histiocytic Sarcoma																										X	
Lymphoma Malignant																											
Lymph Node																											
Renal, Histiocytic Sarcoma																	+									+	
																											X
Lymph Node, Bronchial		+	M	+	M	M	+	+	M	M	M	+	+	M	M	M	M	M	M	M	M	M	+	M	M		
Lymphoma Malignant							X					X															
Lymph Node, Mandibular		+	M	+	M	+	+	M	+	M	+	+	+	M	+	+	M	+	+	+	+	+	+	+	+	+	M
Histiocytic Sarcoma																										X	
Lymphoma Malignant												X															
Lymph Node, Mediastinal		M	+	+	+	+	+	+	+	M	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+
Histiocytic Sarcoma																										X	
Lymphoma Malignant							X					X															
Lymph Node, Mesenteric		+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+
Histiocytic Sarcoma																										X	
Lymphoma Malignant												X															
Spleen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hemangiosarcoma																											X
Histiocytic Sarcoma																									X		
Lymphoma Malignant					X			X																			
Thymus		+	+	+	+	M	+	+	+	+	+	+	+	M	M	+	+	+	+	M	+	+	+	+	+	+	+
Histiocytic Sarcoma																										X	

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		07	06	07	06	07	07	06	07	07	07	07	07	06	07	07	07	07	07	07	07	06	07	07			07																									

Lymphoma Malignant

X

**INTEGUMENTARY SYSTEM**

Mammary Gland

M M

Skin

+ +

Subcutaneous Tissue, Neural Crest Tumor

X

**MUSCULOSKELETAL SYSTEM**

Bone

+ +

**NERVOUS SYSTEM**

Brain

+ +

Lymphoma Malignant

Peripheral Nerve

Spinal Cord

**RESPIRATORY SYSTEM**

Larynx

+ + + + I + + + + + + + + A + + + + + + + + + + + +

Lung

+ +

Alveolar/Bronchiolar Adenoma

X

X

Alveolar/Bronchiolar Carcinoma

X

X

X

X

Alveolar/Bronchiolar Carcinoma, Multiple

X

Hepatocellular Carcinoma, Metastatic, Liver

X

X

X

X

X

Histiocytic Sarcoma

X

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| B6C3F1 MICE MALE<br>control | DAY ON TEST | 0729 | 0638 | 0729 | 0642 | 0731 | 0674 | 0778 | 0779 | 0779 | 0779 | 0779 | 0665 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0667 | 0779 | 0779 | 0677 | 0779 | 0677 | 0779 | ANIMAL ID | males<br>(cont...) |
|-----------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
|                             | 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 |           |                    |

Lymphoma Malignant

X X

Nose

+ +

Lymphoma Malignant

X

Trachea

+ + + + + + + + + + + + A + + + + + + + + A + +

Lymphoma Malignant

X

**SPECIAL SENSES SYSTEM**

Eye

+ + + A + + + + + + + + + + + + + + + + + + A +

Harderian Gland

+ A +

Adenoma

X X X X X

Carcinoma

Lymphoma Malignant

X X

**URINARY SYSTEM**

Kidney

+ +

Histiocytic Sarcoma

X

Lymphoma Malignant

X

Urinary Bladder

+ + + + + + + + + + + + A + + + + + + + + + + +

Lymphoma Malignant

X X

**SYSTEMIC LESIONS**

Multiple Organ

+ +

Histiocytic Sarcoma

X

Lymphoma Malignant

X X X

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| B6C3F1 MICE MALE<br>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 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |          |
|                             |             | 2 | 6 | 2 | 2 | 3 | 3 | 2 | 3 | 4 | 3 | 2 | 3 | 2 | 9 | 2 | 3 | 2 | 0 | 2 | 3 | 3 | 3 | 3 | 2 |          |
|                             |             | 9 | 1 | 9 | 9 | 0 | 0 | 9 | 0 | 6 | 0 | 9 | 0 | 9 | 2 | 9 | 0 | 9 | 8 | 9 | 0 | 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 | 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 |          |

ALIMENTARY SYSTEM

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| Esophagus                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Gallbladder                          | + | + | + | + | I | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 43      |
| Intestine Large, Cecum               | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 45      |
| Intestine Large, Colon               | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 47      |
| Intestine Large, Rectum              | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | I | + | + | + | + | 44      |
| Intestine Small, Duodenum<br>Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 45<br>1 |
| Intestine Small, Ileum<br>Adenoma    | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 45<br>1 |
| Intestine Small, Jejunum             | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 45      |
| Liver                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Hemangiosarcoma                      |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3       |
| Hemangiosarcoma, Multiple            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   | 1       |
| Hepatoblastoma                       |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   | X |   |   |   |   | 2       |
| Hepatocellular Adenoma               | X |   |   |   | X |   |   |   |   |   | X |   |   | X |   |   |   |   | X |   |   | X | X |   | 15      |
| Hepatocellular Adenoma, Multiple     |   |   |   | X | X |   |   |   | X |   |   | X |   | X |   |   | X |   |   |   | X |   |   |   | 13      |
| Hepatocellular Carcinoma             |   | X |   | X |   | X |   | X | X |   | X |   |   | X |   |   | X |   |   |   |   |   |   |   | 15      |
| Hepatocellular Carcinoma, Multiple   | X |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 10      |
| Histiocytic Sarcoma                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |
| Lymphoma Malignant                   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3       |

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| B6C3F1 MICE MALE<br>control | DAY ON TEST | 0729   | 0561   | 0779   | 0777   | 0777   | 0777   | 0777   | 0676   | 0777   | 0777   | 0777   | 0777   | 0676   | 0777   | 0777   | 0777   | 0777   | 0777   | 0777   | 0777   | 0777   | 0777   | 0777   | * TOTALS |
|-----------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|
|                             | ANIMAL ID   | 000267 | 000019 | 000090 | 000001 | 000002 | 000003 | 000003 | 000003 | 000003 | 000003 | 000003 | 000003 | 000003 | 000003 | 000003 | 000003 | 000003 | 000003 | 000003 | 000003 | 000003 | 000003 | 000003 |          |

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mesentery            |   |   |   | + |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   | 5  |
| Pancreas             | + | + | + | + | + | + | + | + | + |   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Salivary Glands      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Histiocytic Sarcoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Stomach, Glandular   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Tooth                |   |   |   |   | + |   |   |   |   |   |   | + | + |   |   | + |   |   | + |   |   |   | + |   | 8  |

**CARDIOVASCULAR SYSTEM**

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Heart              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemangiosarcoma    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

**ENDOCRINE SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocellular Carcinoma, Metastatic, Liver |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lymphoma Malignant                          |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Bilateral, Subcapsular, Adenoma             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | 1  |
| Adrenal Medulla                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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



TDMS No. 60311 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cobalt

CAS Number: 7440-48-4

Date Report Requested: 09/08/2011

Time Report Requested: 08:22:41

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

Lab: BNW

| B6C3F1 MICE MALE<br>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 |
|-----------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|----------|
|                             |             | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7  | 7  |          |
|                             | ANIMAL ID   | 2 | 6 | 2 | 2 | 3 | 3 | 2 | 3 | 4 | 3 | 2 | 3 | 3 | 2 | 9 | 2 | 3 | 2 | 3 | 3 | 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 | 0  |    |          |
|                             | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |    |          |
|                             | 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  |    |          |
| Bone Marrow                 | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |    |          |
| Hemangiosarcoma             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |    |          |
| Histiocytic Sarcoma         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |    |          |
| Lymphoma Malignant          |             |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |    |          |
| Lymph Node                  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |    |          |
| Renal, Histiocytic Sarcoma  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |    |          |
| Lymph Node, Bronchial       | M           | + | + | + | + | + | + | + | + | + | M | + | + | + | M | + | + | M | + | M | M | + | + | +  | 26 |          |
| Lymphoma Malignant          |             |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 3  |          |
| Lymph Node, Mandibular      | +           | M | + | M | + | + | + | + | + | + | M | + | + | + | + | + | M | + | + | M | + | + | M | +  | +  | 37       |
| Histiocytic Sarcoma         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |          |
| Lymphoma Malignant          |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |          |
| Lymph Node, Mediastinal     | +           | + | M | + | M | M | M | M | M | M | + | M | + | M | + | + | + | + | M | M | M | + | M | +  | +  | 34       |
| Histiocytic Sarcoma         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |          |
| Lymphoma Malignant          |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2  |          |
| Lymph Node, Mesenteric      | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M  | 47 |          |
| Histiocytic Sarcoma         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |          |
| Lymphoma Malignant          |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |          |
| Spleen                      | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50 |          |
| Hemangiosarcoma             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X |   |   |   |    | 3  |          |
| Histiocytic Sarcoma         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |          |
| Lymphoma Malignant          |             |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 3  |          |
| Thymus                      | +           | + | M | + | + | + | M | + | + | + | + | + | + | + | M | + | + | M | + | + | + | + | + | +  | 42 |          |
| Histiocytic Sarcoma         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |          |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

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

| B6C3F1 MICE MALE<br>control                 | DAY ON TEST   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |
|---|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
|   | 0729  | 0726  | 0722  | 0722  | 0723  | 0723  | 0722  | 0723  | 0723  | 0723  | 0723  | 0723  | 0723  | 0723  | 0723  | 0723  | 0723  | 0723  | 0723  | 0723  | 0723  | 0723  | 0723  | 0723  |          |       |
| 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 |
| Lymphoma Malignant                          |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |       |
| <b>INTEGUMENTARY SYSTEM</b>                 |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |
| Mammary Gland                               | M |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 0        |       |
| Skin  | + |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 50       |       |
| Subcutaneous Tissue, Neural Crest Tumor     |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |       |
| <b>MUSCULOSKELETAL SYSTEM</b>               |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |
| Bone  | + |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 50       |       |
| <b>NERVOUS SYSTEM</b>                       |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |
| Brain                                       | + |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 50       |       |
| Lymphoma Malignant                          |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |       |
| Peripheral Nerve                            | +   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |       |
| Spinal Cord                                 | +   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |       |
| <b>RESPIRATORY SYSTEM</b>                   |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |
| Larynx                                      | + |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 48       |       |
| Lung  | + |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 50       |       |
| Alveolar/Bronchiolar Adenoma                |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 7        |       |
| Alveolar/Bronchiolar Carcinoma              | X X   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 8        |       |
| Alveolar/Bronchiolar Carcinoma, Multiple    | X   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 3        |       |
| Hepatocellular Carcinoma, Metastatic, Liver | X   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 9        |       |
| Histiocytic Sarcoma                         | X   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |       |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

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

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Cobalt

CAS Number: 7440-48-4

Date Report Requested: 09/08/2011

Time Report Requested: 08:22:41

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

Lab: BNW

|                                 |                     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |  |
|---------------------------------|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|--|
| B6C3F1 MICE MALE<br><br>control | DAY ON TEST         | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |          |  |
|                                 | ANIMAL ID           | 2 | 6 | 2 | 2 | 3 | 3 | 2 | 3 | 4 | 3 | 2 | 3 | 3 | 2 | 9 | 2 | 3 | 2 | 0 | 7 | 2 | 3 | 3 | 3        |  |
|                                 |                     | 9 | 1 | 9 | 9 | 0 | 0 | 9 | 0 | 6 | 0 | 9 | 0 | 1 | 9 | 2 | 9 | 0 | 9 | 8 | 9 | 0 | 0 | 0 | 0        |  |
|                                 | Lymphoma Malignant  |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3        |  |
|                                 | Nose                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50       |  |
|                                 | Lymphoma Malignant  |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2        |  |
|                                 | Trachea             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48       |  |
|                                 | Lymphoma Malignant  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |  |
| <b>SPECIAL SENSES SYSTEM</b>    |                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |  |
|                                 | Eye                 | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 47       |  |
|                                 | Harderian Gland     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49       |  |
|                                 | Adenoma             |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | 6        |  |
|                                 | Carcinoma           |   |   |   |   | X |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2        |  |
|                                 | Lymphoma Malignant  |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3        |  |
| <b>URINARY SYSTEM</b>           |                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |  |
|                                 | Kidney              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50       |  |
|                                 | Histiocytic Sarcoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |  |
|                                 | Lymphoma Malignant  |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2        |  |
|                                 | Urinary Bladder     | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 48       |  |
|                                 | Lymphoma Malignant  |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3        |  |
| <b>SYSTEMIC LESIONS</b>         |                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |  |
|                                 | Multiple Organ      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50       |  |
|                                 | Histiocytic Sarcoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |  |
|                                 | Lymphoma Malignant  |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4        |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

|                         |                   |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------------------------|-------------------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>B6C3F1 MICE MALE</b> | DAY ON TEST       | 0729      | 0729 | 0729 | 0628 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0628 | 0628 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0528 | 0528 | 0528 |
|                         | <b>1.25 mg/m3</b> | 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 | 0020 | 0020 |
|                         |                   |           | 12   | 03   | 04   | 05   | 06   | 07   | 08   | 09   | 00   | 01   | 02   | 03   | 04   | 05   | 06   | 07   | 08   | 09   | 00   | 01   | 02   | 03   | 04   | 05   | 06   | 07   |

males  
(cont...)

**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                           | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum                         | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Cholangiocarcinoma                               |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hemangiosarcoma                                  |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hemangiosarcoma, Multiple                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatoblastoma                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatocellular Adenoma                           |   |   | X |   |   | X |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatocellular Adenoma, Multiple                 |   |   |   |   | X | X |   | X |   | X | X | X | X | X | X | X |   | X | X |   | X |   |   |   |   |   |   |   |
| Hepatocellular Carcinoma                         |   | X |   | X |   |   |   | X |   |   |   | X |   |   | X | X |   |   |   |   |   |   | X |   |   |   |   |   |
| Hepatocellular Carcinoma, Multiple               |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   | X |   |   |
| Sarcoma, Metastatic, Mesentery                   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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



TDMS No. 60311 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cobalt

CAS Number: 7440-48-4

Date Report Requested: 09/08/2011

Time Report Requested: 08:22:41

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

Lab: BNW

|  |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>B6C3F1 MICE MALE</b><br><b>1.25 mg/m3</b> | DAY ON TEST | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 8 | 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 |
|  |             | 2 | 2 | 2 | 1 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 8 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 8 |
|  | 9           | 9 | 9 | 8 | 9 | 0 | 1 | 0 | 9 | 0 | 9 | 9 | 1 | 0 | 9 | 9 | 4 | 7 | 5 | 0 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |             | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 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 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 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 | 2 | 3 | 4 | 5 |   |   |   |   |   |   |   |   |   |   |   |   |
|  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

males (cont...)

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Islets, Pancreatic<br>Adenoma<br>Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   | X |   |
| Parathyroid Gland                          | M | M | + | M | M | + | + | + | + | + | + | M | + | + | + | + | M | M | M | + | + | + | + | + | + | I | M |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pituitary Gland                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thyroid Gland                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coagulating Gland<br>Adenoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Epididymis<br>Alveolar/Bronchiolar Carcinoma, Metastatic,<br>Lung<br>Hemangiosarcoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   | X |   |   |
| Preputial Gland  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Prostate   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Seminal Vesicle  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Testes   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

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



| B6C3F1 MICE MALE<br>1.25 mg/m3 | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | ANIMAL ID | males<br>(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 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7         | 0                  | 0 |   |
|                                | 2           | 2 | 2 | 1 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 2 | 2 | 8 | 1 | 1 | 3 | 3         | 3                  | 0 | 0 |
|                                | 9           | 9 | 9 | 8 | 9 | 0 | 1 | 0 | 9 | 0 | 9 | 9 | 1 | 0 | 9 | 9 | 4 | 7 | 5 | 0 | 1         | 1                  | 0 | 0 |
|                                | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         | 0                  | 0 | 0 |
|                                | 0           | 0 | 0 | 0 | 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                  | 0 | 0 |
|                                | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2         | 2                  | 0 | 0 |
|                                | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1         | 2                  | 0 | 0 |

Alveolar/Bronchiolar Carcinoma, Metastatic, Lung

X

HEMATOPOIETIC SYSTEM

Bone Marrow  
Hemangiosarcoma

+ +

Lymph Node, Bronchial  
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung  
Hepatocellular Carcinoma, Metastatic, Liver

M M M + + + M + M + + + + + + + + M M + + + M + + X

Lymph Node, Mandibular

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

Lymph Node, Mediastinal  
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung  
Hepatocellular Carcinoma, Metastatic, Liver

+ + + + + M + M M + + M M + + M + + + M M + + X

Lymph Node, Mesenteric  
Lymphoma Malignant

+ + + + + + + + + + + + + + + + + I + + + + + +

Spleen  
Hemangioma

+ X

Thymus  
Hepatocellular Carcinoma, Metastatic, Liver

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

INTEGUMENTARY SYSTEM

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

| B6C3F1 MICE MALE<br>1.25 mg/m3                   | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | males<br>(cont...) |      |      |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|------|------|
|  | 0729        | 0729 | 0729 | 0678 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0664 | 0664 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 |                    | 0558 | 0558 |
|  | 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 |      |
| Mammary Gland                                    | M           | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M                  | M    | M    |
| Skin   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                  | +    | +    |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |      | X    |
| Subcutaneous Tissue, Fibrous Histiocytoma        |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |      | X    |

**MUSCULOSKELETAL SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thoracic, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   | X |

**NERVOUS SYSTEM**

|       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**RESPIRATORY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Larynx                                      | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lung  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Adenoma                |   |   |   |   |   | X |   |   |   |   |   | X | X |   |   |   |   |   |   |   | X |   |   |   |   |   | X |   |
| Alveolar/Bronchiolar Adenoma, Multiple      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Alveolar/Bronchiolar Carcinoma              | X |   |   | X | X | X |   |   |   | X |   |   |   | X | X |   |   |   |   |   |   |   | X |   |   | X |   |   |
| Alveolar/Bronchiolar Carcinoma, Multiple    |   |   | X |   |   |   |   |   | X | X |   |   |   |   |   |   |   |   |   | X | X | X | X |   |   | X |   |   |
| Carcinoma, Metastatic, Islets, Pancreatic   |   |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   |   |   |   | X | X | X | X |   |   | X |   | X |
| Hepatoblastoma, Metastatic, Liver           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Hepatocellular Carcinoma, Metastatic, Liver |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

|  |             |                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|-------------|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>B6C3F1 MICE MALE</b><br><br><b>1.25 mg/m3</b> | 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 |   |
|  |             | 7                      | 7 | 7 | 6 | 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 | 5 |
|  |             | 2                      | 2 | 2 | 1 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 2 | 2 | 8 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 8 |
|  |             | 9                      | 9 | 9 | 8 | 9 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 9 | 4 | 7 | 5 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 9 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |             | 2                      | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
|  |             | 0                      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |             | 1                      | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
|  |             | <b>males (cont...)</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|
| Nose                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |   |
| Glands, Olfactory Epithelium, Adenoma |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | X |

|         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**SPECIAL SENSES SYSTEM**

|     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma         |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Carcinoma       |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

|                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Zymbal's Gland |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

**URINARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Hepatocellular Carcinoma, Metastatic, Liver      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**SYSTEMIC LESIONS**

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Multiple Organ     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

|                         |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |                 |
|-------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------------|
| <b>B6C3F1 MICE MALE</b> | DAY ON TEST | 0729   | 0660   | 0730   | 0730   | 0457   | 0633   | 0762   | 0759   | 0751   | 0771   | 0672   | 0711   | 0677   | 0722   | 0723   | 0571   | 0723   | 0733   | 0731   | 0730   | 0673   | 0661   | 0663   | <b>* TOTALS</b> |
|                         | 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 |                 |

**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                           | + | + | + | + | A | + | + | + | + | + | A | A | + | + | + | + | + | + | + | A | + | + | + | + | 45 |
| Intestine Small, Jejunum                         | + | + | + | + | A | + | + | + | + | + | A | A | + | + | + | + | + | + | + | A | + | + | + | + | 45 |
| Liver  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Cholangiocarcinoma                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Hemangiosarcoma                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Hemangiosarcoma, Multiple                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | 1  |
| Hepatoblastoma                                   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | 2  |
| Hepatocellular Adenoma                           |   |   | X |   |   | X |   |   |   | X | X |   |   |   | X |   |   |   |   | X |   |   |   |   | 9  |
| Hepatocellular Adenoma, Multiple                 |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   | X | X | X |   |   |   |   |   | 16 |
| Hepatocellular Carcinoma                         |   |   | X |   | X |   |   |   |   |   | X |   |   | X |   |   | X |   |   |   |   | X |   | X | 15 |
| Hepatocellular Carcinoma, Multiple               |   |   |   |   |   |   | X |   |   |   |   | X | X |   |   |   |   |   |   |   |   |   |   |   | 6  |
| Sarcoma, Metastatic, Mesentery                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

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

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**  
 Cobalt  
**CAS Number:** 7440-48-4

**Date Report Requested:** 09/08/2011  
**Time Report Requested:** 08:22:41  
**First Dose M/F:** 05/15/06 / 05/15/06  
**Lab:** BNW

| B6C3F1 MICE MALE<br>1.25 mg/m3 | DAY ON TEST | 0729   | 0660   | 0763   | 0773   | 0475   | 0673   | 0762   | 0755   | 0773   | 0676   | 0776   | 0676   | 0776   | 0767   | 0777   | 0575   | 0777   | 0777   | 0676   | 0666   | 0666   | * TOTALS |
|--------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|
|                                | ANIMAL ID   | 002267 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 |          |
|                                |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   |   |   |  |     |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|---|---|---|--|-----|
| Mesentery Sarcoma                                    |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + | 51 |   |   |   |   |  |     |
| Pancreas Carcinoma, Metastatic, Islets, Pancreatic   | + | + | + | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | +  | + | + | + | + |  | 471 |
| Salivary Glands                                      | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | + | + | + | + |  | 49  |
| Stomach, Fore stomach Sarcoma, Metastatic, Mesentery | + | + | + | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | +  | + | + | + | + |  | 481 |
| Stomach, Glandular Sarcoma, Metastatic, Mesentery    | + | + | + | + | A | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | A | + | +  | + | + | + | + |  | 461 |
| Tooth  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |    |   |   |   |   |  | 2   |

**CARDIOVASCULAR SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| Heart Alveolar/Bronchiolar Carcinoma, Metastatic, Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 501 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|

**ENDOCRINE SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |     |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|-----|
| Adrenal Cortex Subcapsular, Adenoma                              | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  | 494 |
| Adrenal Medulla Alveolar/Bronchiolar Carcinoma, Metastatic, Lung | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  | 491 |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

| B6C3F1 MICE MALE<br>1.25 mg/m3       | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |              |
|--------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|--------------|
|                                      | 0729        | 0660 | 0770 | 0773 | 0453 | 0733 | 0633 | 0729 | 0751 | 0771 | 0776 | 0677 | 0671 | 0767 | 0773 | 0775 | 0779 | 0773 | 0773 | 0771 | 0773 | 0669 | 0661 | 0663 |          |              |
| ANIMAL ID                            | 0022        | 0022 | 0022 | 0022 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 |          |              |
| Islets, Pancreatic Adenoma Carcinoma | +           | +    | +    | +    | A    | +    | +    | +    | +    | +    | +    | A    | +    | +    | +    | +    | +    | +    | +    | +    | A    | +    | +    | +    | +        | 47<br>1<br>2 |
| Parathyroid Gland                    | +           | M    | M    | M    | A    | M    | M    | M    | M    | +    | M    | M    | M    | M    | +    | +    | +    | +    | M    | M    | +    | +    | M    | +    | +        | 25           |
| Pituitary Gland                      | +           | +    | +    | +    | A    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | 49           |
| Thyroid Gland                        | +           | +    | +    | +    | A    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | 49           |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |              |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Coagulating Gland Adenoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1<br>1       |
| Epididymis Alveolar/Bronchiolar Carcinoma, Metastatic, Lung Hemangiosarcoma | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49<br>1<br>1 |
| Preputial Gland   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50           |
| Prostate  | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49           |
| Seminal Vesicle   | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 48           |
| Testes  | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49           |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

|                         |                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>B6C3F1 MICE MALE</b> | <b>DAY ON TEST</b> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                         |                    | 7 | 6 | 7 | 7 | 4 | 7 | 6 | 7 | 5 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 3 | 7 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|                         |                    | 2 | 6 | 3 | 3 | 5 | 3 | 3 | 2 | 5 | 3 | 3 | 2 | 1 | 1 | 2 | 2 | 7 | 2 | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 9 | 1 | 3 | 9 | 1 | 3 | 9 | 1 | 3 | 9 | 1 | 3 |
|                         |                    | 9 | 0 | 0 | 0 | 7 | 0 | 9 | 9 | 1 | 1 | 1 | 1 | 7 | 7 | 9 | 3 | 1 | 9 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 8 | 1 | 8 | 1 | 8 | 1 | 8 | 1 | 8 | 1 | 8 | 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 |
| <b>1.25 mg/m3</b>       | <b>ANIMAL ID</b>   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|                         |                    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|                         |                    | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
|                         |                    | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 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 | 1 | 1 |
| <b>* TOTALS</b>         |                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

Alveolar/Bronchiolar Carcinoma, Metastatic, Lung

1

**HEMATOPOIETIC SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |           |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------|
| Bone Marrow                                      | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         | <b>49</b> |
| Hemangiosarcoma                                  |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |           |
| Lymph Node, Bronchial                            | M | + | + | + | A | + | + | + | + | M | M | + | + | + | + | M | + | M | + | M | M | M | + | M |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>32</b> |           |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |           |
| Hepatocellular Carcinoma, Metastatic, Liver      |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |           |
| Lymph Node, Mandibular                           | + | + | M | + | M | M | + | M | + | M | M | M | M | + | + | M | M | + | + | M | M | + | + | M | M | + | + | M | M | + | + | M | M | + | + | + | + | <b>23</b> |           |
| Lymph Node, Mediastinal                          | + | + | + | + | A | M | + | M | + | + | + | + | + | + | M | M | + | + | M | M | + | + | M | M | + | + | M | + | + | + | + | + | + | + | + | + | + | <b>34</b> |           |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |           |
| Hepatocellular Carcinoma, Metastatic, Liver      |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |           |
| Lymph Node, Mesenteric                           | + | + | + | + | A | + | + | + | + | + | + | M | + | + | + | + | M | + | + | + | + | M | + | + | + | A | + | M | + | + | + | + | + | + | + | + | + | <b>44</b> |           |
| Lymphoma Malignant                               |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |           |
| Spleen   | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | <b>48</b> |           |
| Hemangioma                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |           |
| Thymus   | + | + | + | + | A | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | <b>44</b> |           |
| Hepatocellular Carcinoma, Metastatic, Liver      |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |           |

**INTEGUMENTARY SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

| B6C3F1 MICE MALE<br>1.25 mg/m3                             | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    | * TOTALS |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|----------|
|  | 0729        | 0660 | 0763 | 0773 | 0455 | 0733 | 0633 | 0729 | 0511 | 0771 | 0776 | 0677 | 0677 | 0771 | 0677 | 0777 | 0577 | 0777 | 0777 | 0777 | 0676 | 0666 | 0666 |    |          |
| ANIMAL ID  | 0022        | 0022 | 0022 | 0022 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 |    |          |
| 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    | 0  |          |
| Skin   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50 |          |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung           |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1    |    |          |
| Subcutaneous Tissue, Fibrous Histiocytoma                  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1    |    |          |
| <b>MUSCULOSKELETAL SYSTEM</b>                              |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |          |
| Bone   | +           | +    | +    | +    | A    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 49   |    |          |
| Skeletal Muscle  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 3    |    |          |
| Thoracic, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 3    |    |          |
| <b>NERVOUS SYSTEM</b>                                      |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |          |
| Brain  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50   |    |          |
| <b>RESPIRATORY SYSTEM</b>                                  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |          |
| Larynx   | +           | +    | +    | +    | A    | +    | +    | +    | +    | +    | +    | +    | A    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 47   |    |          |
| Lung   | +           | +    | +    | +    | A    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 49   |    |          |
| Alveolar/Bronchiolar Adenoma                               |             |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      | X    |      |      | X    | X    |      | 10   |    |          |
| Alveolar/Bronchiolar Adenoma, Multiple                     |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1    |    |          |
| Alveolar/Bronchiolar Carcinoma                             | X           | X    | X    |      |      |      |      | X    |      |      | X    | X    | X    |      |      | X    |      | X    | X    | X    |      |      | 20   |    |          |
| Alveolar/Bronchiolar Carcinoma, Multiple                   |             |      |      | X    |      | X    |      | X    | X    | X    | X    | X    |      | X    | X    |      | X    |      |      |      | X    |      | 18   |    |          |
| Carcinoma, Metastatic, Islets, Pancreatic                  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1    |    |          |
| Hepatoblastoma, Metastatic, Liver                          | X           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      | 2    |    |          |
| Hepatocellular Carcinoma, Metastatic, Liver                |             |      |      |      |      |      | X    |      |      |      | X    |      |      |      | X    |      |      |      |      | X    | X    |      | 6    |    |          |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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



| B6C3F1 MICE MALE<br>1.25 mg/m3                                | DAY ON TEST |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |         | * TOTALS |
|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|----------|
|   | 0729        | 0660   | 0763   | 0773   | 0455   | 0733   | 0633   | 0729   | 0551   | 0771   | 0776   | 0676   | 0767   | 0667   | 0776   | 0777   | 0577   | 0773   | 0773   | 0133   | 0391   | 0661   | 0663   | 0666    |          |
| ANIMAL ID   | 002267      | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022  |          |
| Nose<br>Glands, Olfactory Epithelium, Adenoma                 | +           | +      | +      | +      | A      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 49<br>1 |          |
| Trachea   | +           | +      | +      | +      | A      | +      | +      | +      | +      | I      | +      | +      | A      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 47      |          |
| <b>SPECIAL SENSES SYSTEM</b>                                  |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |         |          |
| Eye   | +           | +      | +      | +      | A      | +      | +      | +      | +      | +      | +      | A      | +      | +      | +      | +      | +      | +      | +      | +      | A      | +      | +      | 46      |          |
| Harderian Gland<br>Adenoma                                    | +           | +      | +      | +      | A      | +      | +      | +      | +      | +      | +      | A      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 48<br>3 |          |
| Carcinoma   |             |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |        |        |        | 1       |          |
| Zymbal's Gland  |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | +      |        | 1       |          |
| <b>URINARY SYSTEM</b>   |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |         |          |
| Kidney<br>Alveolar/Bronchiolar Carcinoma, Metastatic,<br>Lung | +           | +      | +      | +      | A      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 49<br>3 |          |
| Hepatocellular Carcinoma, Metastatic, Liver                   |             |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |        |        |        | 1       |          |
| Urinary Bladder   | +           | +      | +      | +      | A      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | A      | +      | +      | 48      |          |
| <b>SYSTEMIC LESIONS</b>                                       |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |         |          |
| Multiple Organ<br>Lymphoma Malignant                          | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50<br>1 |          |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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|   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                                  |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------------------|
| <b>B6C3F1 MICE MALE</b><br><b>2.5 mg/m3</b> | DAY ON TEST | 0730 | 0729 | 0771 | 0764 | 0773 | 0766 | 0777 | 0733 | 0746 | 0773 | 0752 | 0777 | 0777 | 0777 | 0766 | 0776 | 0777 | 0766 | 0777 | 0777 | 0777 | 0777 | 0777 | <b>males</b><br><b>(cont...)</b> |
|   | 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 |                                  |
|   |             | 12   | 34   | 56   | 78   | 90   | 11   | 23   | 45   | 67   | 89   | 00   | 12   | 34   | 56   | 78   | 90   | 01   | 23   | 45   | 67   | 89   | 00   | 12   |                                  |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Gallbladder<br>Lymphoma Malignant               | + | + | M | + | + | M | I | + | + | + | + | + | + | M | M | + | + | I | I | + | A | + | + | M | + |
| Intestine Large, Cecum                          | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | A | + | + | + | + |   |
| Intestine Large, Colon                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + |   |
| Intestine Large, Rectum                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + |   |
| Intestine Small, Duodenum<br>Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + |   |
| Intestine Small, Ileum<br>Lymphoma Malignant    | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | A | + | + | + | + |   |
| Intestine Small, Jejunum<br>Lymphoma Malignant  | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | A | + | + | + | + |   |
| Liver   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Hemangiosarcoma                                 |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |
| Hepatocellular Adenoma                          |   |   |   |   |   |   | X |   |   |   | X |   | X |   |   | X |   |   |   | X | X | X | X |   |   |
| Hepatocellular Adenoma, Multiple                |   | X |   |   |   |   | X |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatocellular Carcinoma                        |   |   |   |   |   |   |   |   |   |   | X |   |   |   | X | X |   |   |   | X |   |   |   | X |   |
| Hepatocellular Carcinoma, Multiple              |   |   |   |   | X |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

TDMS No. 60311 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cobalt

CAS Number: 7440-48-4

Date Report Requested: 09/08/2011

Time Report Requested: 08:22:41

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

Lab: BNW

|                         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                            |
|-------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------------|
| <b>B6C3F1 MICE MALE</b> | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |                            |
|                         |             | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 3 | 4 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 6 | 7 | 7 |   | 7 |                            |
| <b>2.5 mg/m3</b>        | ANIMAL ID   | 3 | 2 | 3 | 4 | 3 | 3 | 3 | 6 | 6 | 2 | 6 | 1 | 3 | 2 | 9 | 2 | 5 | 2 | 2 | 2 | 3 | 9 | 2 | 2 |                            |
|                         |             | 0 | 9 | 1 | 7 | 1 | 1 | 1 | 1 | 0 | 9 | 2 | 9 | 0 | 9 | 9 | 2 | 9 | 9 | 0 | 2 | 9 | 2 | 9 | 9 |                            |
|                         |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | <b>males<br/>(cont...)</b> |
|                         |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |                            |

Mesentery

+ +

Pancreas

+ +

Salivary Glands

+ +

Stomach, Forestomach

+ +

Stomach, Glandular

+ +

Tooth

+

CARDIOVASCULAR SYSTEM

Heart

+ +

Alveolar/Bronchiolar Carcinoma, Metastatic, Lung

Hemangiosarcoma

X

ENDOCRINE SYSTEM

Adrenal Cortex

+ +

Alveolar/Bronchiolar Carcinoma, Metastatic, Lung

Subcapsular, Adenoma

X

Adrenal Medulla

+ +

Islets, Pancreatic

+ +

Parathyroid Gland

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

- \* .. Total animals with tissue examined microscopically; Total animals with tumor
- + .. Tissue examined microscopically
- X .. Lesion present
- I .. Insufficient tissue

- M .. Missing tissue
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Cobalt

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|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                    |   |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|
| <b>B6C3F1 MICE MALE</b><br><b>2.5 mg/m3</b> | 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 | males<br>(cont...) |   |
|   |             | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 3 | 4 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 |                    |   |
|   |             | 3 | 2 | 3 | 4 | 3 | 3 | 3 | 6 | 6 | 2 | 6 | 1 | 3 | 2 | 9 | 2 | 5 | 2 | 2 | 2 | 3 | 9 | 2 |                    | 2 |
| 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 |                    |   |
|   | 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                  |   |
| Pituitary Gland                             | +           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                    |   |
| Thyroid Gland                               | +           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                    |   |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

|                 |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |
|-----------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|---|---|
| Epididymis      | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |
| Preputial Gland | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |
| Prostate        | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A | + | + | + |
| Seminal Vesicle | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A | + | + | + |
| Testes          | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |

**HEMATOPOIETIC SYSTEM**

|   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|
| Bone Marrow<br>Hemangiosarcoma  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |
| Lymph Node<br>Axillary, Lymphoma Malignant<br>Deep Cervical, Lymphoma Malignant<br>Iliac, Lymphoma Malignant<br>Renal, Lymphoma Malignant |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

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

| B6C3F1 MICE MALE<br>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 | males<br>(cont...) |   |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|
|   |             | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 3 | 4 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 |                    | 7 |
|   |             | 3 | 2 | 3 | 4 | 3 | 3 | 3 | 6 | 6 | 2 | 6 | 1 | 3 | 2 | 9 | 2 | 5 | 2 | 2 | 2 | 3 | 9 | 2 |                    | 3 |
|   |             | 0 | 9 | 1 | 7 | 1 | 1 | 1 | 1 | 0 | 9 | 2 | 9 | 0 | 9 | 7 | 9 | 2 | 9 | 9 | 0 | 2 | 9 | 2 | 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                  |   |
|   |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4                  |   |
|   |             | 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 |
| Lymph Node, Bronchial<br>Alveolar/Bronchiolar Carcinoma, Metastatic,<br>Lung<br>Lymphoma Malignant  |             | M | + | + | M | + | M | + | + | + | + | M | M | + | + | M | + | M | M | + | + | M | M | M | +                  |   |
| Lymph Node, Mandibular<br>Lymphoma Malignant  |             | M | + | M | + | M | + | M | + | + | + | + | + | + | M | + | M | + | + | M | + | M | M | M | +                  | + |
| Lymph Node, Mediastinal<br>Alveolar/Bronchiolar Carcinoma, Metastatic,<br>Lung<br>Hepatocellular Carcinoma, Metastatic, Liver<br>Lymphoma Malignant |             | + | M | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | M | + | M | M | M | +                  | M |
|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |                    |   |
|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                    |   |
| Lymph Node, Mesenteric<br>Hemangiosarcoma<br>Lymphoma Malignant   |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | +                  |   |
| Spleen<br>Hemangiosarcoma<br>Lymphoma Malignant   |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                  |   |
|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                    |   |
| Thymus<br>Alveolar/Bronchiolar Carcinoma, Metastatic,<br>Lung<br>Hemangiosarcoma<br>Lymphoma Malignant  |             | + | + | M | + | + | M | + | + | + | + | + | + | + | M | + | + | + | + | + | + | M | + | + | +                  |   |
|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                    |   |
|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                    |   |
|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                    |   |

**INTEGUMENTARY SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

| B6C3F1 MICE MALE<br>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 | ANIMAL ID | males<br>(cont...) |   |  |
|-------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|---|--|
|                               | 7           | 7 | 7 | 6 | 7 | 6 | 7 | 3 | 4 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 |           |                    |   |  |
|                               | 3           | 2 | 3 | 4 | 3 | 3 | 3 | 6 | 6 | 2 | 6 | 1 | 3 | 2 | 9 | 2 | 5 | 2 | 9 | 9 | 3 | 9 | 2 | 3 | 2         | 2                  | 0 |  |
|                               | 0           | 9 | 1 | 7 | 1 | 1 | 1 | 1 | 0 | 9 | 2 | 9 | 0 | 9 | 7 | 9 | 2 | 9 | 9 | 0 | 2 | 9 | 9 | 0 | 0         | 0                  | 0 |  |

Mammary Gland M

Skin +  
Subcutaneous Tissue, Hemangiosarcoma  
Subcutaneous Tissue, Neural Crest Tumor

MUSCULOSKELETAL SYSTEM

Bone +

Skeletal Muscle  
Head, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung  
Thoracic, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung

NERVOUS SYSTEM

Brain +

RESPIRATORY SYSTEM

Larynx +

Lung  
Alveolar/Bronchiolar Adenoma X  
Alveolar/Bronchiolar Adenoma, Multiple X  
Alveolar/Bronchiolar Carcinoma X  
Alveolar/Bronchiolar Carcinoma, Multiple X  
Hepatocellular Carcinoma, Metastatic, Liver X  
Lymphoma Malignant X

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue  
M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

TDMS No. 60311 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cobalt

CAS Number: 7440-48-4

Date Report Requested: 09/08/2011

Time Report Requested: 08:22:41

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

Lab: BNW

| B6C3F1 MICE MALE<br>2.5 mg/m3   | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | males<br>(cont...) |  |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|--|
|   | 0<br>7<br>3<br>0 | 0<br>7<br>2<br>9 | 0<br>7<br>3<br>1 | 0<br>6<br>4<br>7 | 0<br>7<br>3<br>1 | 0<br>6<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>3<br>6<br>1 | 0<br>4<br>6<br>0 | 0<br>7<br>2<br>9 | 0<br>5<br>6<br>2 | 0<br>7<br>1<br>9 | 0<br>7<br>3<br>0 | 0<br>7<br>2<br>9 | 0<br>6<br>9<br>7 | 0<br>7<br>2<br>9 | 0<br>6<br>5<br>2 | 0<br>7<br>2<br>9 | 0<br>7<br>3<br>0 | 0<br>6<br>9<br>2 | 0<br>7<br>2<br>9 | 0<br>7<br>3<br>0 | 0<br>7<br>2<br>9 | 0<br>7<br>2<br>9 |                  |                    |  |
| ANIMAL ID   | 0<br>4<br>0<br>1 | 0<br>4<br>0<br>2 | 0<br>4<br>0<br>3 | 0<br>4<br>0<br>4 | 0<br>4<br>0<br>5 | 0<br>4<br>0<br>6 | 0<br>4<br>0<br>7 | 0<br>4<br>0<br>8 | 0<br>4<br>0<br>9 | 0<br>4<br>0<br>0 | 0<br>4<br>0<br>1 | 0<br>4<br>0<br>2 | 0<br>4<br>0<br>3 | 0<br>4<br>0<br>4 | 0<br>4<br>0<br>5 | 0<br>4<br>0<br>6 | 0<br>4<br>0<br>7 | 0<br>4<br>0<br>8 | 0<br>4<br>0<br>9 | 0<br>4<br>0<br>0 | 0<br>4<br>0<br>1 | 0<br>4<br>0<br>2 | 0<br>4<br>0<br>3 | 0<br>4<br>0<br>4 | 0<br>4<br>0<br>5 |                    |  |
| Nose<br>Lymphoma Malignant  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |                    |  |
| Trachea<br>Alveolar/Bronchiolar Carcinoma, Metastatic,<br>Lung                      | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | I                | +                | +                | +                | +                | +                |                    |  |
| <b>SPECIAL SENSES SYSTEM</b>  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                    |  |
| Eye   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | A                | +                | +                | +                | +                | +                | A                | +                | +                | +                | +                |                    |  |
| Harderian Gland<br>Adenoma  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | X                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |                    |  |
| <b>URINARY SYSTEM</b>   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                    |  |
| Kidney<br>Alveolar/Bronchiolar Carcinoma, Metastatic,<br>Lung<br>Lymphoma Malignant | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |                    |  |
| Urinary Bladder<br>Hemangiosarcoma  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | X                |                    |  |
| <b>SYSTEMIC LESIONS</b>   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                    |  |
| Multiple Organ<br>Lymphoma Malignant  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |                    |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

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

|                         |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                 |
|-------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|
| <b>B6C3F1 MICE MALE</b> | DAY ON TEST | 0660  | 0730  | 0723  | 0722  | 0733  | 0722  | 0729  | 0460  | 0557  | 0667  | 0667  | 0770  | 0672  | 0773  | 0667  | 0773  | 0339  | 0733  | 0220  | 0773  | 0773  | 0338  | 0778  | <b>* TOTALS</b> |
|                         | 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                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50      |
| Gallbladder<br>Lymphoma Malignant               | + | + | + | + | A | M | I | + | A | + | + | + | A | + | + | + | + | + | + | + | A | + | + | A  | 34<br>1 |
| 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<br>Lymphoma Malignant | + | + | + | + | A | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | A | + | + | A  | 44<br>1 |
| Intestine Small, Ileum<br>Lymphoma Malignant    | + | + | + | + | A | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | A | + | + | A  | 43<br>1 |
| Intestine Small, Jejunum<br>Lymphoma Malignant  | + | + | + | + | A | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | A | + | + | A  | 43<br>1 |
| Liver   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50      |
| Hemangiosarcoma                                 |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  |         |
| Hepatocellular Adenoma                          |   |   |   | X |   |   |   |   | X |   | X |   |   |   |   |   |   |   |   | X |   | X |   | 13 |         |
| Hepatocellular Adenoma, Multiple                |   | X |   |   |   |   |   | X | X |   |   |   | X |   | X |   |   |   |   |   |   |   |   | 8  |         |
| Hepatocellular Carcinoma                        |   |   |   |   |   |   |   |   | X |   |   |   |   |   | X | X | X | X | X |   |   |   |   | 11 |         |
| Hepatocellular Carcinoma, Multiple              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | 3  |         |
| Lymphoma Malignant                              |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |         |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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



| B6C3F1 MICE MALE<br>2.5 mg/m3                    | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----------|
|  | 0660        | 0730  | 0773  | 0772  | 0753  | 0772  | 0772  | 0746  | 0756  | 0766  | 0767  | 0766  | 0777  | 0766  | 0777  | 0766  | 0777  | 0766  | 0777  | 0733  | 0773  | 0773  | 0773  |    |          |
| ANIMAL ID  | 00426       | 00442 | 00442 | 00442 | 00442 | 00442 | 00442 | 00442 | 00442 | 00442 | 00442 | 00442 | 00442 | 00442 | 00442 | 00442 | 00442 | 00442 | 00442 | 00442 | 00442 | 00442 | 00442 |    |          |
| Mesentery  |             |       |       |       | +     |       |       |       |       | +     |       |       |       |       |       |       |       |       |       |       |       | +     |       | 5  |          |
| Pancreas   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |
| Salivary Glands                                  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |
| Stomach, Forestomach                             | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |
| Stomach, Glandular                               | +           | +     | +     | +     | A     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | A     | 48 |          |
| Tooth  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | +     | 2  |          |
| <b>CARDIOVASCULAR SYSTEM</b>                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          |
| Heart  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1  |          |
| Hemangiosarcoma                                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1  |          |
| <b>ENDOCRINE SYSTEM</b>                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          |
| Adrenal Cortex                                   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1  |          |
| Subcapsular, Adenoma                             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1  |          |
| Adrenal Medulla                                  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |
| Islets, Pancreatic                               | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |
| Parathyroid Gland                                | M           | +     | M     | +     | M     | M     | +     | +     | M     | M     | +     | +     | +     | M     | +     | M     | +     | +     | +     | +     | M     | +     | M     | 26 |          |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

TDMS No. 60311 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cobalt

CAS Number: 7440-48-4

Date Report Requested: 09/08/2011

Time Report Requested: 08:22:41

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

Lab: BNW

| B6C3F1 MICE MALE<br>2.5 mg/m3     | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |
|-----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|                                   | 0660        | 0730  | 0773  | 0772  | 0772  | 0753  | 0773  | 0772  | 0722  | 0766  | 0799  | 0711  | 0723  | 0753  | 0733  | 0783  | 0733  | 0731  | 0740  | 0773  | 0773  | 0773  | 0773  | 0738  |       |          |
|                                   | ANIMAL ID   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
|                                   | 00426       | 00442 | 00442 | 00442 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00445 | 00440 |          |
| Pituitary Gland                   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | A     | 48    |          |
| Thyroid Gland                     | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50    |          |
| <b>GENERAL BODY SYSTEM</b>        |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| NONE                              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| <b>GENITAL SYSTEM</b>             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Epididymis                        | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |
| Preputial Gland                   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | I     | 49       |
| Prostate                          | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | A     | 48       |
| Seminal Vesicle                   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49       |
| Testes                            | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |
| <b>HEMATOPOIETIC SYSTEM</b>       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Bone Marrow                       | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |
| Hemangiosarcoma                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       | 2        |
| Lymph Node                        |             |       |       |       |       |       |       |       |       |       |       |       | +     |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Axillary, Lymphoma Malignant      |             |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Deep Cervical, Lymphoma Malignant |             |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Iliac, Lymphoma Malignant         |             |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Renal, Lymphoma Malignant         |             |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       | 1        |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

| B6C3F1 MICE MALE<br>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 | 0  | 0  | * TOTALS |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|----------|
|  | ANIMAL ID   | 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  |          |
| Lymph Node, Bronchial                            | M           | M | M | + | M | M | M | M | M | M | + | M | + | M | M | M | M | M | + | + | + | M | + | M | 20 |    |          |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |          |
| Lymphoma Malignant                               |             |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |          |
| Lymph Node, Mandibular                           | M           | + | M | M | + | + | M | M | + | + | + | + | M | + | M | M | M | M | + | + | + | + | M | M | 27 |    |          |
| Lymphoma Malignant                               |             |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |          |
| Lymph Node, Mediastinal                          | +           | + | + | + | M | + | + | + | A | + | + | + | + | M | + | + | + | + | + | + | M | + | + | M | M  | 36 |          |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             |   |   |   |   |   |   |   |   | X |   |   |   | X |   |   |   |   |   |   |   |   |   |   |    | 3  |          |
| Hepatocellular Carcinoma, Metastatic, Liver      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |          |
| Lymphoma Malignant                               |             |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |          |
| Lymph Node, Mesenteric                           | +           | M | + | + | M | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | A | + | + | A  | 44 |          |
| Hemangiosarcoma                                  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |    | 1  |          |
| Lymphoma Malignant                               |             |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |          |
| Spleen   | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | 49 |    |          |
| Hemangiosarcoma                                  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X |    | 4  |          |
| Lymphoma Malignant                               |             |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |          |
| Thymus   | +           | + | M | + | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + | M | + | + | + | M | +  | 40 |          |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |          |
| Hemangiosarcoma                                  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |          |
| Lymphoma Malignant                               |             |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |          |

INTEGUMENTARY SYSTEM

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

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

| B6C3F1 MICE MALE | 2.5 mg/m3 | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |
|------------------|-----------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|
|                  |           | 0660        | 0730  | 0773  | 0772  | 0523  | 0723  | 0722  | 0466  | 0597  | 0617  | 0667  | 0767  | 0673  | 0733  | 0833  | 0630  | 0733  | 0374  | 0779  | 0773  |          | 0738  | 0382  |
| ANIMAL ID        |           | 00426       | 00447 | 00448 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444    | 00445 | 00440 |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|
| 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 |   |
| Subcutaneous Tissue, Hemangiosarcoma    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | 1  |   |
| Subcutaneous Tissue, Neural Crest Tumor |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | 1  |   |

**MUSCULOSKELETAL SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Skeletal Muscle  |   |   |   |   | + |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   | + | 3  |
| Head, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung     |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Thoracic, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |   |   |   |   | X |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | X | 3  |

**NERVOUS SYSTEM**

|       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

**RESPIRATORY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Larynx                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | 49 |
| Lung  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Alveolar/Bronchiolar Adenoma                | X | X |   | X |   | X |   |   |   |   |   |   |   |   |   |   | X |   | X |   |   |   |   | 14 |
| Alveolar/Bronchiolar Adenoma, Multiple      |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Alveolar/Bronchiolar Carcinoma              |   | X | X |   |   | X | X |   |   |   |   |   |   |   | X |   | X | X |   |   |   |   | X | 18 |
| Alveolar/Bronchiolar Carcinoma, Multiple    | X |   |   | X | X |   |   |   | X |   | X | X | X | X | X |   | X |   |   |   | X | X | X | 24 |
| Hepatocellular Carcinoma, Metastatic, Liver |   |   |   |   |   |   |   |   | X |   |   |   |   |   | X |   |   |   |   | X |   |   |   | 7  |
| Lymphoma Malignant                          |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

| 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     |         |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|--------------|---------|
|  |             | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 4 | 5 | 6 | 6 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 3 | 7 | 7 | 7 | 7            |              | 3       |
| 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            |              |         |
|  |             | 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            |              |         |
| Nose<br>Lymphoma Malignant                                     |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50<br>1      |              |         |
| Trachea<br>Alveolar/Bronchiolar Carcinoma, Metastatic,<br>Lung |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A<br>48<br>1 |              |         |
| <b>SPECIAL SENSES SYSTEM</b>                                   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |              |              |         |
| Eye  |             | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | A | + | + | + | + | + | A | +            | +            | A<br>43 |
| Harderian Gland<br>Adenoma                                     |             | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A<br>48<br>4 |              |         |
| <b>URINARY SYSTEM</b>  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |              |              |         |
| Kidney<br>Alveolar/Bronchiolar Carcinoma, Metastatic,<br>Lung  |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +            | A<br>49<br>1 |         |
| Lymphoma Malignant   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |              | X<br>1       |         |
| Urinary Bladder<br>Hemangiosarcoma                             |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +            | 50<br>1      |         |
| <b>SYSTEMIC LESIONS</b>  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |              |              |         |
| Multiple Organ<br>Lymphoma Malignant                           |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +            | 50<br>1      |         |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

TDMS No. 60311 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cobalt

CAS Number: 7440-48-4

Date Report Requested: 09/08/2011

Time Report Requested: 08:22:41

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

Lab: BNW

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

ALIMENTARY SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gallbladder                                      | + | + | + | + | + | + | + | + | + | A | + | + | + | M | M | + | + | + | A | A | I | + | M | + |   |   |
| Lymphoma Malignant                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Intestine Large, Cecum                           | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | A | + | + |   |   |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Intestine Large, Colon                           | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + |   |   |
| Intestine Large, Rectum                          | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Intestine Small, Duodenum                        | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | A | + | A | + | + |   |   |
| Lymphoma Malignant                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Intestine Small, Ileum                           | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | A | + | A | + | + |   |   |
| Lymphoma Malignant                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Intestine Small, Jejunum                         | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | A | + | A | + | + |   |   |
| Lymphoma Malignant                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Liver  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Cholangiocarcinoma                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Hepatocellular Adenoma                           | X |   | X |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   | X |   |   |   |   | X |   |   |
| Hepatocellular Adenoma, Multiple                 |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
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| B6C3F1 MICE MALE<br>5.0 mg/m3                    | DAY ON TEST      |                  |                  |                  |                  |                  |             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |   | ANIMAL ID | males<br>(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|---|-----------|--------------------|
|  | 0<br>7<br>3<br>0 | 0<br>7<br>2<br>9 | 0<br>7<br>2<br>9 | 0<br>6<br>1<br>8 | 0<br>7<br>3<br>0 | 0<br>6<br>9<br>8 | 0<br>5<br>4 | 0<br>7<br>1<br>6 | 0<br>7<br>2<br>1 | 0<br>7<br>3<br>6 | 0<br>7<br>0<br>1 | 0<br>5<br>8<br>6 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>0 | 0<br>4<br>2<br>5 | 0<br>5<br>3<br>7 | 0<br>5<br>7<br>5 | 0<br>7<br>0<br>8 | 0<br>4<br>7<br>6 | 0<br>7<br>2<br>9 | 0<br>6<br>9<br>1 | 0<br>7<br>3<br>0 | 0<br>6<br>3<br>0 |   |   |           |                    |
| Hepatocellular Carcinoma                         | X                |                  |                  |                  |                  |                  | X           |                  |                  |                  |                  |                  |                  | X                | X                |                  |                  |                  |                  |                  |                  |                  |                  |   |   |           |                    |
| Hepatocellular Carcinoma, Multiple               |                  |                  |                  |                  |                  |                  |             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |   |           |                    |
| Lymphoma Malignant                               |                  |                  |                  |                  |                  |                  |             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |   |           |                    |
| Mesentery  |                  |                  |                  |                  |                  |                  |             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |   |           |                    |
| Pancreas   | +                | +                | +                | +                | +                | +                | +           | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | + | + | +         |                    |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |                  |                  |                  |                  |                  |                  |             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X |   |           |                    |
| Lymphoma Malignant                               |                  |                  |                  |                  |                  |                  |             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |   |           |                    |
| Salivary Glands                                  | +                | +                | +                | +                | +                | +                | +           | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | + | + | +         |                    |
| Stomach, Forestomach                             | +                | +                | +                | +                | +                | +                | +           | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | + | + | +         |                    |
| Lymphoma Malignant                               |                  |                  |                  |                  |                  |                  |             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |   |           |                    |
| Stomach, Glandular                               | +                | +                | +                | +                | +                | +                | +           | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | A                | +                | +                | +                | + | + | +         |                    |
| Lymphoma Malignant                               |                  |                  |                  |                  |                  |                  |             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |   |           |                    |
| Tooth  |                  |                  |                  |                  |                  |                  |             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |   |           |                    |
| <b>CARDIOVASCULAR SYSTEM</b>                     |                  |                  |                  |                  |                  |                  |             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |   |           |                    |
| Heart  | +                | +                | +                | +                | +                | +                | +           | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | + | + | +         |                    |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |                  |                  |                  |                  |                  |                  |             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X |   |           |                    |
| Lymphoma Malignant                               |                  |                  |                  |                  |                  |                  |             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |   |           |                    |
| <b>ENDOCRINE SYSTEM</b>                          |                  |                  |                  |                  |                  |                  |             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |   |           |                    |
| Adrenal Cortex                                   | +                | +                | +                | +                | +                | +                | +           | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | + | + | +         |                    |
| Lymphoma Malignant                               |                  |                  |                  |                  |                  |                  |             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |   |           |                    |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

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

|                         |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                            |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------------|
| <b>B6C3F1 MICE MALE</b> | DAY ON TEST | 0730 | 0722 | 0729 | 0613 | 0739 | 0655 | 0771 | 0777 | 0777 | 0777 | 0575 | 0777 | 0777 | 0777 | 0442 | 0557 | 0557 | 0770 | 0476 | 0776 | 0677 | 0777 | 0077 | <b>males<br/>(cont...)</b> |
|                         | 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 |                            |

Subcapsular, Adenoma

X

Adrenal Medulla  
Lymphoma Malignant

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

Islets, Pancreatic

+ +

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  
Alveolar/Bronchiolar Carcinoma, Metastatic,  
Lung

+  
X

Epididymis  
Alveolar/Bronchiolar Carcinoma, Metastatic,  
Lung

+ +

Penis

Preputial Gland

+ +

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
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|                         |             |                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|-------------------------|-------------|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| <b>B6C3F1 MICE MALE</b> | DAY ON TEST | 0                      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |  |
|                         |             | 7                      | 7 | 7 | 6 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 4 | 5 | 5 | 7 | 4 | 7 | 6 | 7 | 7 |   |  |
| <b>5.0 mg/m3</b>        | ANIMAL ID   | 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 | 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 |   |  |
|                         |             | 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 | 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 |  |
|                         |             | <b>males (cont...)</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Prostate   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Seminal Vesicle                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Testes   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**HEMATOPOIETIC SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone Marrow                                      | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Lymphoma Malignant                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lymph Node                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Deep Cervical, Lymphoma Malignant                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lumbar, Lymphoma Malignant                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lymph Node, Bronchial                            | + | + | + | M | + | M | M | + | M | + | M | + | M | M | M | M | + | M | + | M | + | + | + | M | + |  |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |  |
| Lymph Node, Mandibular                           | + | + | + | + | M | M | M | M | + | + | + | + | + | + | + | + | M | M | + | M | + | M | M | + | + |  |
| Lymphoma Malignant                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lymph Node, Mediastinal                          | M | + | M | + | + | + | + | + | + | M | M | + | + | + | + | M | + | + | + | + | + | + | + | + | + |  |
| Lymphoma Malignant                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lymph Node, Mesenteric                           | + | + | + | M | + | + | + | M | M | + | + | + | + | + | + | + | + | + | + | + | M | + | A | + | + |  |
| Lymphoma Malignant                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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**TDMS No.** 60311 - 06  
**Test Type:** CHRONIC  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Cobalt  
**CAS Number:** 7440-48-4

**Date Report Requested:** 09/08/2011  
**Time Report Requested:** 08:22:41  
**First Dose M/F:** 05/15/06 / 05/15/06  
**Lab:** BNW

| <b>B6C3F1 MICE MALE</b><br><br><b>5.0 mg/m3</b>            | 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 | <b>ANIMAL ID</b> | <b>males</b><br><b>(cont...)</b> |  |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------|----------------------------------|--|
|  |             | 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 | 1 | 9 | 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 | 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                |                                  |  |
| Spleen   |             | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | A | + | + | + | + | + |   |                  |                                  |  |
| Hemangioma   |             |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                  |                                  |  |
| Hemangiosarcoma  |             |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                  |                                  |  |
| Lymphoma Malignant   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |                  |                                  |  |
| Thymus   |             | + | + | + | M | + | M | + | + | + | + | + | + | M | M | + | + | + | M | + | + | + | + | + |   |                  |                                  |  |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |                  |                                  |  |
| <b>INTEGUMENTARY SYSTEM</b>                                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                  |                                  |  |
| 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   |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                  |                                  |  |
| Subcutaneous Tissue, Lymphoma Malignant                    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                  |                                  |  |
| <b>MUSCULOSKELETAL SYSTEM</b>                              |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                  |                                  |  |
| Bone   |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                  |                                  |  |
| Skeletal Muscle  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                  |                                  |  |
| Thoracic, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                  |                                  |  |
| <b>NERVOUS SYSTEM</b>                                      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                  |                                  |  |
| Brain  |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                  |                                  |  |
| Peripheral Nerve   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                  |                                  |  |
| Spinal Cord  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                  |                                  |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

|                         |             |                        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------------------------|-------------|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>B6C3F1 MICE MALE</b> | DAY ON TEST | 0730                   | 0722 | 0722 | 0671 | 0739 | 0655 | 0771 | 0777 | 0777 | 0777 | 0575 | 0777 | 0777 | 0777 | 0474 | 0575 | 0575 | 0777 | 0474 | 0777 | 0676 | 0777 | 0777 |      |
|                         | 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 |
| <b>5.0 mg/m3</b>        |             | 12                     | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    |
|                         |             | <b>males (cont...)</b> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

**RESPIRATORY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Larynx   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lung   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Adenoma                     |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Alveolar/Bronchiolar Carcinoma                   |   | X |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   | X |
| Alveolar/Bronchiolar Carcinoma, Multiple         | X |   | X |   | X | X | X | X | X |   | X | X | X | X | X | X |   | X | X | X |   | X | X |   |
| Cholangiocarcinoma, Metastatic, Liver            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |
| Hepatocellular Carcinoma, Metastatic, Liver      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Nose   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |
| Lymphoma Malignant                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Trachea  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**SPECIAL SENSES SYSTEM**

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye                | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | A | + | + |
| Harderian Gland    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma            |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**URINARY SYSTEM**

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

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

| 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 | ANIMAL ID | males<br>(cont...) |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                  |             | 7 | 7 | 7 | 6 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 4 | 5 | 5 | 7 | 4 | 7 | 6 |           |                    | 7 | 7 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 5.0 mg/m3        |             | 3 | 2 | 2 | 1 | 3 | 9 | 5 | 1 | 2 | 3 | 0 | 3 | 8 | 3 | 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 | 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 | 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 |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |  |
| Urinary Bladder Lymphoma Malignant                                  | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + |  |

SYSTEMIC LESIONS

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Multiple Organ Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| <b>B6C3F1 MICE MALE</b><br><b>5.0 mg/m3</b> | 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 |   |                 |
|   | 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 |                 |
|   |             | 5 | 6 | 7 | 6 | 6 | 7 | 6 | 6 | 7 | 5 | 7 | 7 | 7 | 2 | 7 | 7 | 7 | 3 | 3 | 3 | 3 | 3 | 2 | 7 | 7 | 7 | 5 | 5 | 6 | 5 | 6 | 7 | 8 | 9 | 0 | 0 |   |                 |
|   |             | 7 | 8 | 3 | 1 | 9 | 2 | 4 | 6 | 2 | 9 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 8 | 6 | 6 | 6 | 2 | 6 | 6 | 7 | 8 | 9 | 0 | 0 | 0 | 0 | 0 |   |                 |
|   |             | 1 | 1 | 1 | 7 | 1 | 9 | 9 | 0 | 9 | 3 | 0 | 1 | 1 | 7 | 1 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
|   |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 |                 |
|   |             | 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 | 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               |
|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|----|
| Esophagus  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | +  | 50 |
| Gallbladder                                      | M | + | M | + | + | + | M | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | M | M | A |   |   |   |   |   |   |   |   |   |   |   |   |    | 35 |    |
| Lymphoma Malignant                               |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |    |    |
| Intestine Large, Cecum                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | A |   |   |   |   |   |   |   |   |   |   |   |   |    | 45 |    |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |    |    |
| Lymphoma Malignant                               |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |    |    |
| Intestine Large, Colon                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | A |   |   |   |   |   |   |   |   |   |   |   |   |    | 46 |    |
| Intestine Large, Rectum                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 48 |    |
| Intestine Small, Duodenum                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | A |   |   |   |   |   |   |   |   |   |   |   |   |    | 44 |    |
| Lymphoma Malignant                               |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |    |    |
| Intestine Small, Ileum                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | A |   |   |   |   |   |   |   |   |   |   |   |   |    | 44 |    |
| Lymphoma Malignant                               |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |    |    |
| Intestine Small, Jejunum                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | A |   |   |   |   |   |   |   |   |   |   |   |   |    | 44 |    |
| Lymphoma Malignant                               |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |    |    |
| Liver  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |    |    |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |    |    |
| Cholangiocarcinoma                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |    |    |
| Hepatocellular Adenoma                           |   |   |   | X |   |   |   |   | X |   |   |   |   |   |   |   |   | X |   |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 11 |    |    |
| Hepatocellular Adenoma, Multiple                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |    |    |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

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

| B6C3F1 MICE MALE<br>5.0 mg/m3                    | DAY ON TEST |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | * TOTALS |        |        |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|--------|
|  | 0571        | 068317 | 076679 | 086629 | 096729 | 106660 | 116733 | 126733 | 136733 | 146733 | 156733 | 166733 | 176733 | 186733 | 196733 | 206733 | 216733 | 226733 | 236733 | 246733 | 256733 | 266733 | 276733 | 286733 |          | 296733 | 306733 |
| ANIMAL ID  | 006266      | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666   | 006666 |        |
| Hepatocellular Carcinoma                         |             |        |        |        |        | X      | X      |        | X      | X      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          | 8      |        |
| Hepatocellular Carcinoma, Multiple               |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |          | 1      |        |
| Lymphoma Malignant                               |             |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |          | 1      |        |
| Mesentery  |             |        |        | +      |        |        |        |        | +      |        |        |        |        |        |        |        |        |        |        |        |        | +      |        |        |          | 3      |        |
| Pancreas   | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +        | 50     |        |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          | 1      |        |
| Lymphoma Malignant                               |             |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |          | 1      |        |
| Salivary Glands                                  | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +        | 50     |        |
| Stomach, Forestomach                             | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +        | 50     |        |
| Lymphoma Malignant                               |             |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |          | 1      |        |
| Stomach, Glandular                               | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +        | 49     |        |
| Lymphoma Malignant                               |             |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |          | 1      |        |
| Tooth  |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | +      |        |        |          | 1      |        |
| <b>CARDIOVASCULAR SYSTEM</b>                     |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |        |        |
| Heart  | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +        | 50     |        |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             |        |        | X      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          | 2      |        |
| Lymphoma Malignant                               |             |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |          | 1      |        |
| <b>ENDOCRINE SYSTEM</b>                          |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |        |        |
| Adrenal Cortex                                   | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +        | 50     |        |
| Lymphoma Malignant                               |             |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |          | 1      |        |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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



| B6C3F1 MICE MALE                                 | DAY ON TEST |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            | * TOTALS |    |  |
|--|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|----------|----|--|
|  | 05711000626 | 0683167290 | 0731924633 | 0861799000 | 0916243333 | 1007666666 | 1157299000 | 1206333333 | 1357299000 | 1407333333 | 1557299000 | 1607333333 | 1757299000 | 1807333333 | 1957299000 | 2007333333 | 2157299000 | 2207333333 | 2357299000 | 2407333333 | 2557299000 | 2607333333 | 2757299000 | 2807333333 |          |    |  |
| 5.0 mg/m3  | ANIMAL ID   |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |          |    |  |
|  | 00626       | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662    |    |  |
| Prostate   | +           | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +        | 50 |  |
| Seminal Vesicle                                  | +           | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +        | 50 |  |
| Testes   | +           | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +        | 50 |  |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             |            |            |            |            |            |            |            |            |            |            |            |            | X          |            |            |            |            |            |            |            |            |            |            |          | 1  |  |
| Lymphoma Malignant                               |             |            |            |            |            |            |            |            |            |            |            |            |            | X          |            |            |            |            |            |            |            |            |            |            |          | 1  |  |
| <b>HEMATOPOIETIC SYSTEM</b>                      |             |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |          |    |  |
| Bone Marrow                                      | +           | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +        | 49 |  |
| Lymphoma Malignant                               |             |            |            |            |            |            |            | X          |            |            |            |            |            | X          |            |            |            |            |            |            |            |            |            |            |          | 2  |  |
| Lymph Node                                       |             |            |            |            |            |            |            |            |            |            |            |            |            | +          |            |            |            |            |            |            |            |            |            |            |          | 1  |  |
| Deep Cervical, Lymphoma Malignant                |             |            |            |            |            |            |            |            |            |            |            |            |            | X          |            |            |            |            |            |            |            |            |            |            |          | 1  |  |
| Lumbar, Lymphoma Malignant                       |             |            |            |            |            |            |            |            |            |            |            |            |            | X          |            |            |            |            |            |            |            |            |            |            |          | 1  |  |
| Lymph Node, Bronchial                            | +           | M          | M          | +          | +          | M          | M          | M          | +          | +          | M          | +          | +          | M          | +          | +          | M          | M          | M          | M          | M          | M          | +          | M          | +        | 24 |  |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             |            |            | X          |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |          | 2  |  |
| Lymph Node, Mandibular                           | M           | +          | +          | +          | +          | +          | +          | M          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | M        | 37 |  |
| Lymphoma Malignant                               |             |            |            |            |            |            |            |            |            |            |            |            |            | X          |            |            |            |            |            |            |            |            |            |            |          | 1  |  |
| Lymph Node, Mediastinal                          | +           | +          | +          | +          | +          | +          | +          | M          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +        | 44 |  |
| Lymphoma Malignant                               |             |            |            |            |            |            |            |            |            |            |            |            |            | X          |            |            |            |            |            |            |            |            |            |            |          | 1  |  |
| Lymph Node, Mesenteric                           | +           | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | A          | M          | +          | +          | +          | +          | +          | M        | 42 |  |
| Lymphoma Malignant                               |             |            |            |            |            |            |            | X          |            |            |            |            |            | X          |            |            |            |            |            |            |            |            |            |            |          | 2  |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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



| B6C3F1 MICE MALE<br>5.0 mg/m3                              | DAY ON TEST  |           |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |       | * TOTALS |  |
|--|--------------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------|----------|--|
|  | 057126901267 | 066723311 | 0779233331 | 0881233331 | 0992233331 | 1003233331 | 1114233331 | 1225233331 | 1336233331 | 1447233331 | 1558233331 | 1669233331 | 1770233331 | 1881233331 | 1992233331 | 2003233331 | 2114233331 | 2225233331 | 2336233331 | 2447233331 | 2558233331 | 2669233331 | 2770233331 |       |          |  |
| ANIMAL ID  | 00626        | 00662     | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662      | 00662 |          |  |
| Spleen   | +            | +         | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +     | 48       |  |
| Hemangioma   |              |           |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |       | 1        |  |
| Hemangiosarcoma  |              |           |            |            |            |            | X          |            |            |            |            |            |            |            |            | X          |            |            |            |            |            |            |            |       | 3        |  |
| Lymphoma Malignant   |              |           |            |            |            |            |            |            |            |            |            |            | X          |            |            |            |            |            |            |            |            |            |            |       | 2        |  |
| Thymus   | +            | +         | +          | M          | +          | +          | M          | +          | M          | +          | M          | +          | +          | +          | +          | +          | +          | M          | +          | +          | +          | M          | +          | +     | 38       |  |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung           |              |           |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |       | 1        |  |
| <b>INTEGUMENTARY SYSTEM</b>                                |              |           |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |       |          |  |
| 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       |  |
| Subcutaneous Tissue, Lymphoma Malignant                    |              |           |            |            |            |            |            |            |            |            |            |            |            |            | X          |            |            |            |            |            |            |            |            |       | 1        |  |
| <b>MUSCULOSKELETAL SYSTEM</b>                              |              |           |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |       |          |  |
| Bone   | +            | +         | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +     | 50       |  |
| Skeletal Muscle  |              |           |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |       | 1        |  |
| Thoracic, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |              |           |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |       | 1        |  |
| <b>NERVOUS SYSTEM</b>                                      |              |           |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |       |          |  |
| Brain  | +            | +         | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +          | +     | 50       |  |
| Peripheral Nerve   | +            |           |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |       | 1        |  |
| Spinal Cord  | +            |           |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |       | 1        |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

TDMS No. 60311 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cobalt

CAS Number: 7440-48-4

Date Report Requested: 09/08/2011

Time Report Requested: 08:22:41

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

Lab: BNW

|                         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |   |   |
|-------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|---|
| <b>B6C3F1 MICE MALE</b> | 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 |
|                         |             | 5 | 6 | 7 | 6 | 6 | 7 | 6 | 6 | 7 | 5 | 7 | 7 | 7 | 2 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 5 | 6               | 6 | 6 |
|                         |             | 7 | 8 | 3 | 1 | 9 | 2 | 4 | 6 | 2 | 9 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 1 | 8 | 6               | 6 | 7 |
| <b>5.0 mg/m3</b>        | 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 |   |
|                         |             | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4               | 5 |   |
|                         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |   |   |

**RESPIRATORY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Larynx   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Lymphoma Malignant                               |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Lung   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Alveolar/Bronchiolar Adenoma                     | X |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   | <b>3</b>  |
| Alveolar/Bronchiolar Carcinoma                   | X |   |   |   |   | X |   |   | X |   |   |   |   | X |   |   |   | X |   |   |   | X |   |   | <b>10</b> |
| Alveolar/Bronchiolar Carcinoma, Multiple         |   | X | X | X | X | X |   | X | X | X |   |   | X |   | X | X | X |   |   | X | X | X |   |   | <b>36</b> |
| Cholangiocarcinoma, Metastatic, Liver            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Hepatocellular Carcinoma, Metastatic, Liver      |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Lymphoma Malignant                               |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Nose   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Lymphoma Malignant                               |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Trachea  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |

**SPECIAL SENSES SYSTEM**

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |           |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|-----------|
| Eye                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | A        | <b>45</b> |
| Harderian Gland    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +        | <b>50</b> |
| Adenoma            |   |   |   |   |   | X |   |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   |   | <b>4</b> |           |
| Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |          | <b>1</b>  |

**URINARY SYSTEM**

|        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

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



|                           |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                          |
|---------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| <b>B6C3F1 MICE FEMALE</b> | 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 |                          |
|                           | ANIMAL ID   | 0010 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 |                          |
| <b>control</b>            |             | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | <b>females (cont...)</b> |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gallbladder<br>Lymphoma Malignant                         | + | + | + | + | + | + | A | M | M | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum                                    | + | + | M | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon                                    | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum                                   | + | + | M | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum<br>Lymphoma Malignant           | + | + | A | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum<br>Carcinoma<br>Lymphoma Malignant | + | + | A | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum                                  | + | + | A | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemangiosarcoma   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |
| Hepatocellular Adenoma                                    |   |   |   |   | X |   |   |   |   | X |   |   | X |   |   |   | X |   |   | X |   |   |   |   |
| Hepatocellular Adenoma, Multiple                          |   |   |   |   |   |   | X |   | X |   |   |   |   |   |   | X | X |   |   | X |   | X | X |   |
| Hepatocellular Carcinoma                                  |   |   |   | X |   | X |   |   | X |   |   |   |   |   |   |   | X |   | X |   |   |   |   |   |
| Hepatocellular Carcinoma, Multiple                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |
| Lymphoma Malignant  |   |   |   |   |   |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |
| Mast Cell Tumor Malignant                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

TDMS No. 60311 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Cobalt

CAS Number: 7440-48-4

Date Report Requested: 09/08/2011

Time Report Requested: 08:22:41

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

Lab: BNW

| B6C3F1 MICE FEMALE<br>control                                | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  | females<br>(cont...) |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|----------------------|
|  | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>3<br>8<br>3      | 0<br>6<br>4<br>9      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>2      | 0<br>6<br>9<br>7      | 0<br>4<br>9<br>9      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>5<br>9<br>9      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>2      |                       |  |                      |
| ANIMAL ID  | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 |  |                      |
| Mesentery<br>Lymphoma Malignant                              |                       |                       | +                     |                       | +                     |                       |                       |                       |                       | +                     |                       |                       |                       | +                     |                       | +                     | +                     | +                     |                       |                       | +                     |                       |                       |                       |  |                      |
| Pancreas<br>Lymphoma Malignant                               | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |                       | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |  |                      |
| Sarcoma, Metastatic, Skin                                    |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |  |                      |
| Salivary Glands<br>Lymphoma Malignant                        | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | X                     |  |                      |
| Stomach, Forestomach<br>Lymphoma Malignant                   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |  |                      |
| Squamous Cell Papilloma                                      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |                      |
| Stomach, Glandular   | +                     | +                     | A                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |                       |  |                      |
| <b>CARDIOVASCULAR SYSTEM</b>                                 |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |                      |
| Heart<br>Alveolar/Bronchiolar Carcinoma, Metastatic,<br>Lung | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | X                     |  |                      |
| Lymphoma Malignant   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |  |                      |
| <b>ENDOCRINE SYSTEM</b>                                      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |                      |
| Adrenal Cortex<br>Lymphoma Malignant                         | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |  |                      |
| Adrenal Medulla<br>Lymphoma Malignant                        | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | X                     |  |                      |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

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

Pheochromocytoma Benign

Islets, Pancreatic

Parathyroid Gland

Pituitary Gland

Pars Distalis, Adenoma

Thyroid Gland

Follicular Cell, Adenoma

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| + | M | M | + | M | + | M | + | M | + | M | M | + | M | M | M | + | M | + | M | M | + | + | + | + |
| + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | X | + |
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland

Ovary

Cystadenoma

Lymphoma Malignant

Yolk Sac Carcinoma

Uterus

Histiocytic Sarcoma

Lymphoma Malignant

Polyp Stromal

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + |
| + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + |
| + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |

HEMATOPOIETIC SYSTEM

\* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

| B6C3F1 MICE FEMALE<br>control                    | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | females<br>(cont...) |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
|  | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>3<br>8<br>3      | 0<br>6<br>4<br>9      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>2      | 0<br>6<br>9<br>7      | 0<br>4<br>9<br>9      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>5<br>9<br>9      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>2      |                       |                       |                      |
| ANIMAL ID  | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>2 | 0<br>0<br>1<br>0<br>3 | 0<br>0<br>1<br>0<br>4 | 0<br>0<br>1<br>0<br>5 | 0<br>0<br>1<br>0<br>6 | 0<br>0<br>1<br>0<br>7 | 0<br>0<br>1<br>0<br>8 | 0<br>0<br>1<br>0<br>9 | 0<br>0<br>1<br>1<br>0 | 0<br>0<br>1<br>1<br>1 | 0<br>0<br>1<br>1<br>2 | 0<br>0<br>1<br>1<br>3 | 0<br>0<br>1<br>1<br>4 | 0<br>0<br>1<br>1<br>5 | 0<br>0<br>1<br>1<br>6 | 0<br>0<br>1<br>1<br>7 | 0<br>0<br>1<br>1<br>8 | 0<br>0<br>1<br>1<br>9 | 0<br>0<br>1<br>1<br>0 | 0<br>0<br>1<br>1<br>1 | 0<br>0<br>1<br>1<br>2 | 0<br>0<br>1<br>2<br>3 | 0<br>0<br>1<br>2<br>4 | 0<br>0<br>1<br>2<br>5 |                      |
| Bone Marrow                                      | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |                      |
| Lymphoma Malignant                               |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                      |
| Mast Cell Tumor Malignant                        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                      |
| Lymph Node                                       |                       |                       |                       |                       |                       |                       |                       |                       | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | +                     |                       |                       | +                     |                      |
| Axillary, Lymphoma Malignant                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                      |
| Iliac, Lymphoma Malignant                        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                      |
| Lumbar, Carcinoma, Metastatic, Kidney            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                      |
| Lumbar, Lymphoma Malignant                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                      |
| Renal, Lymphoma Malignant                        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                      |
| Lymph Node, Bronchial                            | +                     | M                     | M                     | M                     | M                     | +                     | +                     | +                     | +                     | M                     | M                     | M                     | +                     | +                     | +                     | +                     | +                     | +                     | M                     | M                     | M                     | +                     | M                     | M                     | +                     |                      |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                      |
| Lymphoma Malignant                               |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                      |
| Lymph Node, Mandibular                           | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | M                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |                      |
| Lymphoma Malignant                               |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                      |
| Mast Cell Tumor Malignant                        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                      |
| Lymph Node, Mediastinal                          | +                     | M                     | A                     | +                     | +                     | +                     | M                     | +                     | +                     | +                     | +                     | M                     | +                     | +                     | M                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |                      |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                      |
| Lymphoma Malignant                               |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                      |
| Mast Cell Tumor Malignant                        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                      |
| Lymph Node, Mesenteric                           | +                     | +                     | A                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |                      |
| Lymphoma Malignant                               |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       | X                     |                       |                       | X                     |                       |                       |                       |                       |                       |                       | X                     |                       | X                     |                       |                      |
| Sarcoma, Metastatic, Skin                        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                      |
| Spleen   | +                     | +                     | A                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |                      |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

| B6C3F1 MICE FEMALE<br>control                    | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | females<br>(cont...) |  |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|--|
|  | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>3<br>8<br>3      | 0<br>6<br>4<br>9      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>2      | 0<br>6<br>9<br>7      | 0<br>4<br>9<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>5<br>9<br>1      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>3      |                       |                      |  |
| ANIMAL ID  | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>2 | 0<br>0<br>1<br>0<br>3 | 0<br>0<br>1<br>0<br>4 | 0<br>0<br>1<br>0<br>5 | 0<br>0<br>1<br>0<br>6 | 0<br>0<br>1<br>0<br>7 | 0<br>0<br>1<br>0<br>8 | 0<br>0<br>1<br>0<br>9 | 0<br>0<br>1<br>1<br>0 | 0<br>0<br>1<br>1<br>1 | 0<br>0<br>1<br>1<br>2 | 0<br>0<br>1<br>1<br>3 | 0<br>0<br>1<br>1<br>4 | 0<br>0<br>1<br>1<br>5 | 0<br>0<br>1<br>1<br>6 | 0<br>0<br>1<br>1<br>7 | 0<br>0<br>1<br>1<br>8 | 0<br>0<br>1<br>1<br>9 | 0<br>0<br>1<br>1<br>0 | 0<br>0<br>1<br>1<br>1 | 0<br>0<br>1<br>1<br>2 | 0<br>0<br>1<br>1<br>3 | 0<br>0<br>1<br>1<br>4 | 0<br>0<br>1<br>1<br>5 |                      |  |
| Hemangiosarcoma                                  |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                      |  |
| Lymphoma Malignant                               |                       |                       |                       |                       |                       |                       |                       | X                     | X                     |                       | X                     |                       | X                     |                       |                       |                       |                       |                       |                       | X                     |                       |                       | X                     |                       |                       |                      |  |
| Mast Cell Tumor Malignant                        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                      |  |
| Thymus   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | M                     | +                    |  |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                    |  |
| Lymphoma Malignant                               |                       |                       |                       |                       |                       |                       |                       | X                     | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                      |  |
| Neoplasm Nos                                     |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                      |  |
| <b>INTEGUMENTARY SYSTEM</b>                      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                      |  |
| Mammary Gland Carcinoma                          | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                    |  |
| Skin   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                    |  |
| Subcutaneous Tissue, Neural Crest Tumor          |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                      |  |
| Subcutaneous Tissue, Sarcoma                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                    |  |
| <b>MUSCULOSKELETAL SYSTEM</b>                    |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                      |  |
| Bone   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                    |  |
| <b>NERVOUS SYSTEM</b>                            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                      |  |
| Brain  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                    |  |
| <b>RESPIRATORY SYSTEM</b>                        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                      |  |
| Larynx   | +                     | +                     | A                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | I                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |                      |  |
| Lymphoma Malignant                               |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                      |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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



| B6C3F1 MICE FEMALE<br>control               | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | females<br>(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
|   | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>3<br>8<br>3      | 0<br>6<br>4<br>9      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>2      | 0<br>6<br>9<br>7      | 0<br>4<br>9<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>5<br>9<br>1      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>3      | 0<br>6<br>4<br>9      |                       |                      |
| ANIMAL ID                                   | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>0<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 |                      |
| Lung  | +                     | +                     | A                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |                      |
| Alveolar/Bronchiolar Adenoma                | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                      |
| Alveolar/Bronchiolar Carcinoma              |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                      |
| Alveolar/Bronchiolar Carcinoma, Multiple    |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                      |
| Hepatocellular Carcinoma, Metastatic, Liver |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                      |
| Histiocytic Sarcoma                         |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                      |
| Lymphoma Malignant                          |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                      |
| Nose  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |                      |
| Trachea                                     | +                     | +                     | A                     | +                     | +                     | +                     | +                     | +                     | +                     | M                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |                      |
| <b>SPECIAL SENSES SYSTEM</b>                |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                      |
| Eye   | +                     | +                     | A                     | +                     | +                     | +                     | +                     | A                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |                      |
| Harderian Gland Adenoma                     | +                     | +                     | A                     | +                     | +                     | +                     | +                     | +                     | +                     | X                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |                      |
| <b>URINARY SYSTEM</b>                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                      |
| Kidney                                      | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |                      |
| Lymphoma Malignant                          |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                      |
| Transitional Epithelium, Carcinoma          |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                      |
| Urinary Bladder                             | +                     | +                     | A                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |                      |
| Lymphoma Malignant                          |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                      |
| <b>SYSTEMIC LESIONS</b>                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                      |
| Multiple Organ                              | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |                      |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

| B6C3F1 MICE FEMALE<br>control | DAY ON TEST | ANIMAL ID |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | females<br>(cont...) |      |      |      |      |
|-------------------------------|-------------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------|------|------|------|
|                               |             | 0732      | 0733 | 0738 | 0739 | 0741 | 0742 | 0747 | 0748 | 0752 | 0757 | 0759 | 0761 | 0762 | 0763 | 0767 | 0769 | 0771 | 0772 | 0773 | 0777 | 0779 | 0781 | 0782 | 0783 |                      | 0787 | 0789 | 0791 | 0792 |
|                               |             | 0         | 0    | 0    | 0    | 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    | 7                    | 7    | 7    | 7    |      |
|                               |             | 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    | 3    | 3    |      |
|                               |             | 2         | 3    | 3    | 9    | 1    | 1    | 2    | 7    | 9    | 1    | 2    | 3    | 1    | 9    | 3    | 3    | 3    | 2    | 3    | 2    | 1    | 1    | 3    | 2    | 4                    | 5    | 9    | 5    |      |
|                               |             | 0         | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0                    | 0    | 0    | 0    |      |
|                               |             | 0         | 0    | 0    | 0    | 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    | 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    | 5    |      |      |
| Histiocytic Sarcoma           |             |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |      |      |      |      |
| Lymphoma Malignant            |             |           |      |      |      |      |      | X    | X    |      | X    |      | X    |      |      |      |      |      |      | X    |      |      |      |      |      |                      |      |      |      |      |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

| B6C3F1 MICE FEMALE<br>control | DAY ON TEST | 0732  | 0223  | 0773  | 0773  | 0552  | 0553  | 0776  | 0679  | 0773  | 0673  | 0773  | 0773  | 0773  | 0473  | 0773  | 0772  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  | * TOTALS |
|-------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|                               | 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 |          |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|--|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       | 50                                     |
| Gallbladder<br>Lymphoma Malignant   | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | 44<br>3 |  |
| Intestine Large, Cecum  | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       | 46                                     |
| Intestine Large, Colon  | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       | 46                                     |
| Intestine Large, Rectum   | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       | 46                                     |
| Intestine Small, Duodenum<br>Lymphoma Malignant   | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       | 45<br>1                                |
| Intestine Small, Ileum<br>Carcinoma<br>Lymphoma Malignant   | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       | 45<br>1<br>1                           |
| Intestine Small, Jejunum  | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       | 45                                     |
| Liver<br>Hemangiosarcoma<br>Hepatocellular Adenoma<br>Hepatocellular Adenoma, Multiple<br>Hepatocellular Carcinoma<br>Hepatocellular Carcinoma, Multiple<br>Lymphoma Malignant<br>Mast Cell Tumor Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       | 50<br>2<br>9<br>10<br>6<br>4<br>9<br>1 |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

| B6C3F1 MICE FEMALE<br>control  | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |  |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|
|  | 0<br>7<br>3<br>2      | 0<br>2<br>2<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>2      | 0<br>5<br>2<br>3      | 0<br>5<br>8<br>3      | 0<br>7<br>3<br>3      | 0<br>6<br>9<br>8      | 0<br>7<br>3<br>2      | 0<br>7<br>0<br>1      | 0<br>6<br>5<br>5      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>3      | 0<br>4<br>0<br>0      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>5      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      |                       |  |
| ANIMAL ID  | 0<br>0<br>1<br>2<br>6 | 0<br>0<br>1<br>2<br>7 | 0<br>0<br>1<br>2<br>8 | 0<br>0<br>1<br>2<br>9 | 0<br>0<br>1<br>3<br>0 | 0<br>0<br>1<br>3<br>1 | 0<br>0<br>1<br>3<br>2 | 0<br>0<br>1<br>3<br>3 | 0<br>0<br>1<br>3<br>4 | 0<br>0<br>1<br>3<br>5 | 0<br>0<br>1<br>3<br>6 | 0<br>0<br>1<br>3<br>7 | 0<br>0<br>1<br>3<br>8 | 0<br>0<br>1<br>3<br>9 | 0<br>0<br>1<br>4<br>0 | 0<br>0<br>1<br>4<br>1 | 0<br>0<br>1<br>4<br>2 | 0<br>0<br>1<br>4<br>3 | 0<br>0<br>1<br>4<br>4 | 0<br>0<br>1<br>4<br>5 | 0<br>0<br>1<br>4<br>6 | 0<br>0<br>1<br>4<br>7 | 0<br>0<br>1<br>4<br>8 | 0<br>0<br>1<br>4<br>9 | 0<br>0<br>1<br>5<br>0 |  |
| Mesentery<br>Lymphoma Malignant  | +                     |                       | +                     |                       |                       |                       | +                     | +                     |                       | +                     |                       |                       |                       | +                     |                       |                       |                       | +                     | +                     | +                     |                       |                       |                       | +                     | 18<br>1               |  |
| Pancreas<br>Lymphoma Malignant<br>Sarcoma, Metastatic, Skin                        | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | X                     | X                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | X                     | +                     | +                     | +                     | 50<br>4<br>1          |  |
| Salivary Glands<br>Lymphoma Malignant  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50<br>1               |                       |  |
| Stomach, Forestomach<br>Lymphoma Malignant<br>Squamous Cell Papilloma              | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 50<br>1<br>1          |                       |  |
| Stomach, Glandular   | +                     | +                     | +                     | +                     | +                     | A                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 48                    |                       |  |
| <b>CARDIOVASCULAR SYSTEM</b>   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |
| Heart<br>Alveolar/Bronchiolar Carcinoma, Metastatic,<br>Lung<br>Lymphoma Malignant | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50<br>1<br>2          |                       |  |
| <b>ENDOCRINE SYSTEM</b>  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |
| Adrenal Cortex<br>Lymphoma Malignant   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50<br>1               |                       |  |
| Adrenal Medulla<br>Lymphoma Malignant  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50<br>1               |                       |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

| B6C3F1 MICE FEMALE<br>control | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |    |
|-------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----|
|                               | 0732        | 0273  | 0773  | 0773  | 0528  | 0553  | 0776  | 0677  | 0779  | 0773  | 0676  | 0773  | 0773  | 0773  | 0773  | 0474  | 0773  | 0773  | 0272  | 0773  | 0773  | 0773  | 0773  | 0773  |          |    |
| ANIMAL ID                     | 00126       | 00117 | 00108 | 00109 | 00100 | 00101 | 00102 | 00103 | 00104 | 00105 | 00106 | 00107 | 00108 | 00109 | 00110 | 00111 | 00112 | 00113 | 00114 | 00115 | 00116 | 00117 | 00118 | 00119 | 00120    |    |
| Pheochromocytoma Benign       |             |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |    |
| Islets, Pancreatic            | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |    |
| Parathyroid Gland             | +           | +     | M     | +     | M     | M     | +     | +     | +     | +     | +     | +     | M     | +     | +     | M     | M     | M     | M     | +     | +     | +     | +     | M     | 28       |    |
| Pituitary Gland               | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | M     | +     | +     | 47       |    |
| Pars Distalis, Adenoma        |             |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 3     |          |    |
| Thyroid Gland                 | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |    |
| Follicular Cell, Adenoma      |             |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       | 1     |          |    |
| <b>GENERAL BODY SYSTEM</b>    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |    |
| NONE                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |    |
| <b>GENITAL SYSTEM</b>         |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |    |
| Clitoral Gland                | +           | M     | +     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | M     | +     | +     | +     | +     | M     | +     | +     | +     | M     | +     | +        | 43 |
| Ovary                         | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 48 |
| Cystadenoma                   | X           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |    |
| Lymphoma Malignant            |             |       |       |       |       |       |       | X     |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2        |    |
| Yolk Sac Carcinoma            |             |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       | 1        |    |
| Uterus                        | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49       |    |
| Histiocytic Sarcoma           |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     | 1        |    |
| Lymphoma Malignant            |             |       |       |       |       |       |       | X     |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 3        |    |
| Polyp Stromal                 |             | X     |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       | 2        |    |

**HEMATOPOIETIC SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

| B6C3F1 MICE FEMALE<br>control                    | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |    |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----|
|  | 0732        | 0223  | 0073  | 0073  | 0052  | 0055  | 0076  | 0067  | 0077  | 0067  | 0077  | 0077  | 0077  | 0044  | 0077  | 0077  | 0022  | 0077  | 0033  | 0033  | 0033  | 0033  | 0033  |       |          |    |
| 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    |    |
| Bone Marrow                                      | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |    |
| Lymphoma Malignant                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       | 2        |    |
| Mast Cell Tumor Malignant                        |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |    |
| Lymph Node                                       |             |       |       |       | +     |       |       |       | +     | +     | +     |       |       |       | +     | +     |       |       |       |       |       | +     |       | +     | 11       |    |
| Axillary, Lymphoma Malignant                     |             |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       | 1        |    |
| Iliac, Lymphoma Malignant                        |             |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       | X     |       |       | 2        |    |
| Lumbar, Carcinoma, Metastatic, Kidney            |             |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |    |
| Lumbar, Lymphoma Malignant                       |             |       |       |       |       |       |       |       | X     |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       | 3        |    |
| Renal, Lymphoma Malignant                        |             |       |       |       |       |       |       |       | X     | X     | X     |       |       |       |       |       |       |       |       |       |       |       |       |       | 4        |    |
| Lymph Node, Bronchial                            | M           | M     | M     | M     | +     | +     | M     | M     | +     | +     | +     | M     | M     | M     | +     | M     | M     | +     | M     | +     | M     | M     | M     | M     | +        | 22 |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2        |    |
| Lymphoma Malignant                               |             |       |       |       |       |       |       |       |       |       | X     | X     |       |       |       |       |       |       |       |       | X     | X     |       |       | 6        |    |
| Lymph Node, Mandibular                           | +           | +     | M     | +     | +     | +     | M     | +     | +     | +     | M     | +     | M     | M     | +     | +     | M     | +     | +     | +     | +     | M     | M     | M     | +        | 40 |
| Lymphoma Malignant                               |             |       |       |       |       |       |       | X     | X     | X     |       |       |       |       |       |       |       | X     |       | X     | X     |       |       |       | 9        |    |
| Mast Cell Tumor Malignant                        |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |    |
| Lymph Node, Mediastinal                          | +           | +     | +     | +     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | M     | M     | +        | 42 |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2        |    |
| Lymphoma Malignant                               |             |       |       |       |       |       |       |       |       |       | X     | X     |       |       |       |       |       |       | X     |       | X     | X     | X     |       | 9        |    |
| Mast Cell Tumor Malignant                        |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |    |
| Lymph Node, Mesenteric                           | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 49 |
| Lymphoma Malignant                               |             |       |       |       |       |       | X     | X     | X     | X     |       |       |       |       |       |       |       |       | X     |       | X     | X     | X     |       | 13       |    |
| Sarcoma, Metastatic, Skin                        |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |    |
| Spleen   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49       |    |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

| B6C3F1 MICE FEMALE<br>control                    | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |  |  |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--|--|
|  | 0732        | 0233  | 0733  | 0732  | 0523  | 0553  | 0763  | 0678  | 0773  | 0773  | 0673  | 0773  | 0773  | 0773  | 0473  | 0773  | 0772  | 0775  | 0772  | 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 | 00150    |  |  |
| Hemangiosarcoma                                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       | 2        |  |  |
| Lymphoma Malignant                               |             |       |       |       |       |       | X     | X     | X     | X     |       |       |       |       |       |       |       |       |       |       | X     | X     |       |       | 12       |  |  |
| Mast Cell Tumor Malignant                        |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |  |  |
| Thymus   | +           | +     | +     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | M     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | 46       |  |  |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |  |  |
| Lymphoma Malignant                               |             |       |       |       |       |       |       | X     | X     | X     |       |       |       |       |       |       |       | X     |       | X     | X     | X     |       |       | 10       |  |  |
| Neoplasm Nos                                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |  |  |
| <b>INTEGUMENTARY SYSTEM</b>                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |  |  |
| Mammary Gland Carcinoma                          | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | M     | +     | +     | +     | +     | M     | +     | +     | +     | +     | +     | 48       |  |  |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |  |  |
| Skin   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |  |  |
| Subcutaneous Tissue, Neural Crest Tumor          |             |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |  |  |
| Subcutaneous Tissue, Sarcoma                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       | 2        |  |  |
| <b>MUSCULOSKELETAL SYSTEM</b>                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |  |  |
| Bone   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |  |  |
| <b>NERVOUS SYSTEM</b>                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |  |  |
| Brain  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |  |  |
| <b>RESPIRATORY SYSTEM</b>                        |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |  |  |
| Larynx   | +           | +     | +     | +     | I     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 47    |          |  |  |
| Lymphoma Malignant                               |             |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       | X     |       |       | X     |       |       | 3     |          |  |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

| B6C3F1 MICE FEMALE<br>control               | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |  |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--|
|   | 0732        | 0733  | 0733  | 0732  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  |          |  |
| 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 |          |  |
| Lung  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49    |          |  |
| Alveolar/Bronchiolar Adenoma                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     | 3     |          |  |
| Alveolar/Bronchiolar Carcinoma              |             |       | X     |       |       | X     |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       | 4     |          |  |
| Alveolar/Bronchiolar Carcinoma, Multiple    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |          |  |
| Hepatocellular Carcinoma, Metastatic, Liver | X           |       | X     |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       | 5     |          |  |
| Histiocytic Sarcoma                         |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       | 1     |          |  |
| Lymphoma Malignant                          |             |       |       |       |       |       |       | X     | X     | X     |       |       |       |       |       |       |       |       |       |       |       |       |       | 5     |          |  |
| Nose  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50    |          |  |
| Trachea                                     | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 48    |          |  |
| <b>SPECIAL SENSES SYSTEM</b>                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |  |
| Eye   | +           | +     | +     | +     | +     | A     | +     | A     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 46    |          |  |
| Harderian Gland Adenoma                     | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49    |          |  |
|   | X           |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       | 3     |          |  |
| <b>URINARY SYSTEM</b>                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |  |
| Kidney                                      | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50    |          |  |
| Lymphoma Malignant                          |             |       |       |       |       |       |       | X     | X     | X     |       |       |       |       |       |       |       |       |       |       | X     |       |       | 5     |          |  |
| Transitional Epithelium, Carcinoma          |             |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |          |  |
| Urinary Bladder                             | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49    |          |  |
| Lymphoma Malignant                          |             |       |       |       |       |       |       | X     | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 3     |          |  |
| <b>SYSTEMIC LESIONS</b>                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |  |
| Multiple Organ                              | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50    |          |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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







| B6C3F1 MICE FEMALE<br>1.25 mg/m3        | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | females<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
|   | 0733        | 0733 | 0772 | 0773 | 0773 | 0773 | 0776 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 |      |                      |
| 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 |                      |
| Sarcoma                                 |             |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |
| Pancreas Lymphoma Malignant             | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                      |
| Salivary Glands Lymphoma Malignant      | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                      |
| Stomach, Forestomach Lymphoma Malignant | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                      |
| Stomach, Glandular Lymphoma Malignant   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                      |
| <b>CARDIOVASCULAR SYSTEM</b>            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |
| Heart Lymphoma Malignant                | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                      |
| <b>ENDOCRINE SYSTEM</b>                 |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |
| Adrenal Cortex Lymphoma Malignant       | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                      |
| Adrenal Medulla Pheochromocytoma Benign | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                      |
| Islets, Pancreatic                      | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                      |
| Parathyroid Gland                       | +           | +    | +    | M    | +    | M    | +    | +    | M    | M    | M    | +    | +    | +    | +    | +    | +    | +    | +    | +    | M    | +    | +    | M    |                      |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



| B6C3F1 MICE FEMALE<br>1.25 mg/m3                 | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females<br>(cont...) |      |      |      |      |      |   |   |   |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|------|------|------|---|---|---|
|  | 0733        | 0733 | 0713 | 0733 | 0733 | 0732 | 0769 | 0773 | 0773 | 0773 | 0773 | 0773 | 0766 | 0773 | 0773 | 0766 | 0766 | 0773 | 0755 | 0773 |           |                      | 0773 | 0773 | 0773 | 0766 | 0766 |   |   |   |
| Lymphoma Malignant                               |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |      | X    | X |   |   |
| Lymph Node                                       |             |      | +    |      |      |      | +    | +    | +    |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |      |      | + |   | + |
| Deep Cervical, Lymphoma Malignant                |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |      |      | X |   |   |
| Lumbar, Lymphoma Malignant                       |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |      |      |   |   | X |
| Pancreatic, Lymphoma Malignant                   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |      |      |   |   | X |
| Renal, Lymphoma Malignant                        |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |      |      |   |   | X |
| Lymph Node, Bronchial                            | +           | M    | +    | +    | +    | M    | +    | M    | +    | +    | M    | +    | +    | A    | +    | +    | +    | +    | +    | +    | +         | +                    | +    | M    | +    | +    | +    |   |   |   |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |      |      |   |   |   |
| Lymphoma Malignant                               |             |      |      |      |      |      |      |      |      |      |      | X    |      |      |      | X    | X    | X    | X    |      |           |                      |      |      |      |      |      |   | X |   |
| Lymph Node, Mandibular                           | M           | +    | +    | M    | +    | +    | +    | +    | +    | +    | M    | +    | M    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    | +    | +    | +    | +    | + | M |   |
| Lymphoma Malignant                               |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    | X    | X    |      |      |           |                      |      |      |      |      |      |   |   |   |
| Lymph Node, Mediastinal                          | +           | +    | M    | +    | +    | +    | +    | +    | +    | +    | M    | +    | M    | +    | +    | +    | +    | +    | +    | +    | M         | +                    | +    | +    | M    | +    |      |   |   |   |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |      |      |   |   |   |
| Lymphoma Malignant                               |             |      |      |      |      |      |      |      |      |      | X    |      |      |      | X    | X    | X    | X    |      |      |           |                      |      |      |      |      |      |   | X |   |
| Lymph Node, Mesenteric                           | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | A    | +    | +    | +    | +    | +    | +    | +         | +                    | +    | +    | +    | +    | +    | + | + |   |
| Lymphoma Malignant                               |             |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      | X    | X    | X    | X    |           |                      |      |      |      |      |      |   | X |   |
| Sarcoma, Metastatic, Skin                        |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |      |      |   |   |   |
| Spleen   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | A    | +    | +    | +    | +    | +    | +    | +         | +                    | +    | +    | +    | +    | +    | + | + |   |
| Hemangioma                                       |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |      |      |   |   |   |
| Lymphoma Malignant                               |             |      |      |      |      |      | X    |      |      |      |      |      | X    |      | X    | X    | X    |      | X    |      |           |                      |      |      |      |      |      |   | X |   |
| Thymus   | +           | +    | M    | M    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | M    | +    | +    | +    | +    | + | + |   |
| Lymphoma Malignant                               |             |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      | X    | X    | X    |      |           |                      |      |      |      |      |      |   | X |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

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

|                           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>B6C3F1 MICE FEMALE</b> | 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 |
|                           | ANIMAL ID   | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 |
| <b>1.25 mg/m3</b>         |             | 3 | 3 | 1 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 3 | 9 | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 9 | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 3 |
|                           |             | 3 | 3 | 2 | 3 | 2 | 9 | 3 | 1 | 2 | 1 | 3 | 1 | 3 | 3 | 8 | 8 | 2 | 6 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
|                           |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                           |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                           |             | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|                           |             | 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 | 2 | 3 |

females  
(cont...)

**INTEGUMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Skin                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Subcutaneous Tissue, Hemangiosarcoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Sarcoma           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   | X |
| Subcutaneous Tissue, Sarcoma, Multiple |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**MUSCULOSKELETAL SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Skeletal Muscle  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Thoracic, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

**NERVOUS SYSTEM**

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Brain              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

**RESPIRATORY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Larynx                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| Lung                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Alveolar/Bronchiolar Adenoma           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Alveolar/Bronchiolar Adenoma, Multiple |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Alveolar/Bronchiolar Carcinoma         |   |   |   |   |   | X | X | X |   | X |   | X |   |   |   |   |   |   | X |   | X | X | X |   |   |   |   |   |   |   |   |   |   |   |   |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

| B6C3F1 MICE FEMALE<br>1.25 mg/m3  | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females<br>(cont...) |      |      |      |      |      |     |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|------|------|------|-----|
|   | 0733        | 0733 | 0713 | 0733 | 0733 | 0733 | 0764 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0766 | 0773 | 0773 | 0766 | 0766 | 0773 | 0755 |           |                      | 0773 | 0773 | 0773 | 0773 | 0766 |     |
|   | 033         | 033  | 032  | 033  | 032  | 032  | 039  | 033  | 031  | 032  | 031  | 033  | 033  | 031  | 033  | 033  | 038  | 038  | 032  | 036  | 032       | 032                  | 033  | 033  | 031  | 031  | 035  | 036 |
|   | 000         | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000       | 000                  | 000  | 000  | 000  | 000  | 000  | 000 |
|   | 330         | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333       | 333                  | 333  | 333  | 333  | 333  | 333  | 333 |
|   | 000         | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000       | 000                  | 000  | 000  | 000  | 000  | 000  | 000 |
|   | 112         | 113  | 114  | 115  | 116  | 117  | 118  | 119  | 110  | 111  | 112  | 113  | 114  | 115  | 116  | 117  | 118  | 119  | 110  | 111  | 112       | 112                  | 112  | 112  | 112  | 112  | 112  | 112 |
| Alveolar/Bronchiolar Carcinoma, Multiple<br>Hepatocellular Carcinoma, Metastatic, Liver<br>Lymphoma Malignant | X           |      |      |      |      |      | X    |      |      |      |      |      |      | X    |      | X    |      | X    |      |      |           |                      |      |      |      |      | X    |     |
| Nose<br>Lymphoma Malignant  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    | +    | +    | +    | +    | +   |
| Pleura<br>Alveolar/Bronchiolar Carcinoma, Metastatic,<br>Lung   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |      |      |     |
| Trachea<br>Lymphoma Malignant   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    | +    | +    | +    | +    | X   |
| <b>SPECIAL SENSES SYSTEM</b>  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |      |      |     |
| Eye<br>Carcinoma, Metastatic, Harderian Gland   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | A    | +    | +    | +    | A    | +    | +    | +         | +                    | +    | +    | +    | +    | +    | +   |
| Harderian Gland<br>Adenoma<br>Carcinoma<br>Lymphoma Malignant   | +           | +    | X    | +    | +    | X    | +    | +    | +    | +    | +    | +    | +    | A    | +    | +    | +    | +    | +    | +    | +         | +                    | +    | X    | +    | +    | +    | +   |
| Zymbal's Gland  |             | +    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |      |      |     |
| <b>URINARY SYSTEM</b>   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |      |      |     |
| Kidney<br>Lymphoma Malignant  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    | +    | +    | +    | +    | +   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

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









| B6C3F1 MICE FEMALE<br>1.25 mg/m3 | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    | * TOTALS |
|----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----------|
|                                  | 0537        | 0771  | 0771  | 0773  | 0673  | 0773  | 0773  | 0391  | 0572  | 0772  | 0776  | 0575  | 0773  | 0773  | 0773  | 0773  | 0773  | 0678  | 0773  | 0773  | 0773  | 0773  | 0773  |    |          |
| ANIMAL ID                        | 00326       | 00332 | 00332 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 |    |          |
| Pituitary Gland                  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |
| Lymphoma Malignant               |             |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       | 2  |          |
| Pars Distalis, Adenoma           |             |       |       |       | X     |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 4  |          |
| Pars Intermedia, Adenoma         |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1  |          |
| Thyroid Gland                    | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |
| Lymphoma Malignant               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1  |          |
| <b>GENERAL BODY SYSTEM</b>       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          |
| NONE                             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          |
| <b>GENITAL SYSTEM</b>            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          |
| Clitoral Gland                   | +           | +     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | I     | +     | +     | +     | M     | +  | 44       |
| Ovary                            | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +  | 50       |
| Cystadenoma                      |             |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       | 4  |          |
| Hemangiosarcoma                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1  |          |
| Lymphoma Malignant               |             |       |       |       |       |       |       | X     |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       | 4  |          |
| Uterus                           | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |
| Hemangiosarcoma                  |             |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       | 2  |          |
| Lymphoma Malignant               |             |       |       |       |       |       |       | X     |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       | 4  |          |
| Polyp Stromal                    |             |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1  |          |
| Endometrium, Carcinoma           |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1  |          |
| <b>HEMATOPOIETIC SYSTEM</b>      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          |
| Bone Marrow                      | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

TDMS No. 60311 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cobalt

CAS Number: 7440-48-4

Date Report Requested: 09/08/2011

Time Report Requested: 08:22:41

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

Lab: BNW

| B6C3F1 MICE FEMALE<br>1.25 mg/m3                 | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |                       |                       |                       |    |    |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----|----|
|  | 0<br>5<br>3<br>7      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>6<br>7<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>3<br>9<br>7      | 0<br>5<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>6<br>3<br>4      | 0<br>5<br>3<br>5      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>2      | 0<br>6<br>8<br>1      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>0      |                       | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      |                       |    |    |
| ANIMAL ID  | 0<br>0<br>3<br>2<br>6 | 0<br>0<br>3<br>2<br>7 | 0<br>0<br>3<br>2<br>8 | 0<br>0<br>3<br>2<br>9 | 0<br>0<br>3<br>3<br>0 | 0<br>0<br>3<br>3<br>1 | 0<br>0<br>3<br>3<br>2 | 0<br>0<br>3<br>3<br>3 | 0<br>0<br>3<br>3<br>4 | 0<br>0<br>3<br>3<br>5 | 0<br>0<br>3<br>3<br>6 | 0<br>0<br>3<br>3<br>7 | 0<br>0<br>3<br>3<br>8 | 0<br>0<br>3<br>3<br>9 | 0<br>0<br>3<br>3<br>0 | 0<br>0<br>3<br>3<br>1 | 0<br>0<br>3<br>3<br>2 | 0<br>0<br>3<br>3<br>3 | 0<br>0<br>3<br>3<br>4 | 0<br>0<br>3<br>3<br>5 | 0<br>0<br>3<br>3<br>6 | 0<br>0<br>3<br>3<br>7 | 0<br>0<br>3<br>3<br>8 | 0<br>0<br>3<br>3<br>9 | 0<br>0<br>3<br>3<br>0 |    |    |
| Lymphoma Malignant                               |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |    |    |
| Lymph Node                                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 8                     |    |    |
| Deep Cervical, Lymphoma Malignant                |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |    |    |
| Lumbar, Lymphoma Malignant                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |    |    |
| Pancreatic, Lymphoma Malignant                   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |    |    |
| Renal, Lymphoma Malignant                        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 4                     |    |    |
| Lymph Node, Bronchial                            | M                     | +                     | +                     | M                     | M                     | +                     | +                     | +                     | M                     | M                     | +                     | +                     | +                     | +                     | M                     | +                     | M                     | M                     | M                     | +                     | M                     | M                     | +                     | +                     | +                     | 33 |    |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |    |    |
| Lymphoma Malignant                               |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 10                    |    |    |
| Lymph Node, Mandibular                           | M                     | +                     | +                     | M                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | M                     | +                     | M                     | +                     | +                     | +                     | +                     | 41 |    |
| Lymphoma Malignant                               |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 8                     |    |    |
| Lymph Node, Mediastinal                          | +                     | +                     | +                     | +                     | +                     | +                     | M                     | +                     | M                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | M                     | M                     | +                     | +                     | M                     | +                     | M                     | +                     | +  | 39 |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |    |    |
| Lymphoma Malignant                               |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 12                    |    |    |
| Lymph Node, Mesenteric                           | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 49 |    |
| Lymphoma Malignant                               |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 11                    |    |    |
| Sarcoma, Metastatic, Skin                        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |    |    |
| Spleen   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 49 |    |
| Hemangioma                                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |    |    |
| Lymphoma Malignant                               |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 11                    |    |    |
| Thymus   | +                     | +                     | +                     | +                     | M                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 46                    |    |    |
| Lymphoma Malignant                               |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 11                    |    |    |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

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







|                           |             |                          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------|-------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>B6C3F1 MICE FEMALE</b> | DAY ON TEST | 0733                     | 0733 | 0733 | 0593 | 0577 | 0562 | 0573 | 0573 | 0551 | 0568 | 0571 | 0577 | 0556 | 0574 | 0577 | 0577 | 0577 | 0577 | 0583 | 0573 | 0573 | 0562 | 0553 |
|                           | ANIMAL ID   | 0050                     | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 |
| <b>2.5 mg/m3</b>          |             | 1                        | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    |
|                           |             | <b>females (cont...)</b> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

**ALIMENTARY SYSTEM**

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Gallbladder                      | + | + | + | + | + | + | + | + | + | + | I | + | + | + | M | M | + | M | + | + | A | M | + | + |
| Intestine Large, Cecum           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + |
| Intestine Small, Ileum           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Adenoma           |   |   | X |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   | X |   |   |   |   |   |
| Hepatocellular Adenoma, Multiple |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatocellular Carcinoma         |   |   |   |   |   |   |   |   | X |   |   |   | X |   |   |   |   |   |   |   |   |   | X |   |
| Histiocytic Sarcoma              |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant               |   | X | X |   |   | X |   |   | X |   |   | X |   |   | X |   |   |   |   |   |   |   | X |   |
| Mesentery                        |   |   |   |   |   | + | + | + |   |   |   | + |   | + |   |   |   |   |   |   |   | + |   |   |
| Pancreas                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant               |   |   | X |   |   | X |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   | X | X |
| Salivary Glands                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
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| B6C3F1 MICE FEMALE<br>2.5 mg/m3                                | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females<br>(cont...) |      |      |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|
|  | 0733        | 0733 | 0733 | 0593 | 0577 | 0567 | 0557 | 0577 | 0577 | 0556 | 0567 | 0577 | 0556 | 0567 | 0577 | 0577 | 0577 | 0577 | 0558 | 0573 |           |                      | 0573 | 0566 |
|  | 0050        | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050      | 0050                 | 0050 |      |
| Lymphoma Malignant   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      | X X  |
| Stomach, Forestomach<br>Lymphoma Malignant                     | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    |      |
| Stomach, Glandular<br>Lymphoma Malignant                       | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    | X    |
| <b>CARDIOVASCULAR SYSTEM</b>                                   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |
| Heart<br>Hemangiosarcoma                                       | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    |      |
| <b>ENDOCRINE SYSTEM</b>  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |
| Adrenal Cortex<br>Lymphoma Malignant<br>Subcapsular, Carcinoma | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    | X    |
| Adrenal Medulla<br>Lymphoma Malignant                          | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    | X    |
| Islets, Pancreatic   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    |      |
| Parathyroid Gland  | +           | +    | M    | M    | +    | M    | +    | +    | +    | M    | +    | M    | M    | M    | +    | +    | +    | M    | +    | M    | +         | M                    | +    | M    |
| Pituitary Gland<br>Pars Distalis, Adenoma                      | +           | +    | +    | +    | +    | M    | +    | +    | +    | +    | +    | I    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    |      |
| Thyroid Gland  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    |      |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
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| B6C3F1 MICE FEMALE   | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females<br>(cont...) |      |      |      |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|------|
|  | 0733        | 0733 | 0733 | 0593 | 0577 | 0562 | 0573 | 0573 | 0553 | 0563 | 0591 | 0567 | 0577 | 0553 | 0563 | 0573 | 0573 | 0538 | 0573 | 0573 |           |                      | 0562 | 0553 |      |
| 2.5 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 |      |      |
|  | 5501        | 5502 | 5503 | 5504 | 5505 | 5506 | 5507 | 5508 | 5509 | 5510 | 5511 | 5512 | 5513 | 5514 | 5515 | 5516 | 5517 | 5518 | 5519 | 5520 | 5521      | 5522                 | 5523 | 5524 | 5525 |
| Renal, Lymphoma Malignant  |             |      |      |      |      |      |      | X    |      |      | X    |      |      |      |      |      |      |      |      | X    |           |                      |      | X    |      |
| Lymph Node, Bronchial<br>Alveolar/Bronchiolar Carcinoma, Metastatic,<br>Lung<br>Lymphoma Malignant   | +           | M    | +    | +    | M    | M    | +    | +    | +    | M    | M    | +    | +    | +    | +    | +    | +    | +    | +    | +    | M         | +                    | +    | M    | M    |
|  |             |      |      | X    |      |      |      |      |      |      |      | X    |      |      | X    |      |      |      |      | X    |           |                      |      |      |      |
| Lymph Node, Mandibular<br>Lymphoma Malignant   | +           | +    | +    | +    | +    | M    | +    | M    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | M    | M    | +    |
|  |             |      |      | X    |      |      |      |      |      |      |      | X    |      |      | X    |      |      |      |      |      |           |                      |      |      | X    |
| Lymph Node, Mediastinal<br>Alveolar/Bronchiolar Carcinoma, Metastatic,<br>Lung<br>Lymphoma Malignant | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | M    | +    | +    | +    | +    | +    | +    | M    | +         | M                    | M    | +    | +    |
|  |             |      |      |      |      |      | X    |      |      |      | X    |      |      |      |      |      |      |      |      |      |           |                      |      |      | X    |
| Lymph Node, Mesenteric<br>Histiocytic Sarcoma<br>Lymphoma Malignant                                  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | M    | +    | +    |
|  |             |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |           |                      |      |      | X    |
|  |             | X    | X    |      |      |      |      |      | X    |      |      | X    |      |      |      | X    |      |      |      | X    |           |                      |      | X    | X    |
| Spleen<br>Hemangiosarcoma<br>Lymphoma Malignant  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | A         | +                    | +    | +    | +    |
|  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      | X    |
|  |             | X    | X    |      |      | X    |      |      | X    |      |      | X    |      |      |      | X    |      |      |      | X    |           |                      |      | X    | X    |
| Thymus<br>Lymphoma Malignant<br>Osteosarcoma, Metastatic, Bone                                       | +           | +    | +    | +    | M    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    | +    | +    |
|  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      | X    |
|  |             |      | X    |      |      |      |      |      |      |      |      | X    |      |      |      | X    |      |      |      |      |           |                      |      | X    | X    |
|  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           | X                    |      |      |      |
| <b>INTEGUMENTARY SYSTEM</b>  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |
| Mammary Gland<br>Carcinoma   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    | +    | +    |
|  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      | X    |

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 + .. Tissue examined microscopically  
 X .. Lesion present  
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M .. Missing tissue  
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| B6C3F1 MICE FEMALE | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | females<br>(cont...) |
|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------------|
|                    | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>5<br>9<br>3 | 0<br>5<br>7<br>1 | 0<br>6<br>7<br>7 | 0<br>5<br>6<br>2 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>2 | 0<br>5<br>5<br>1 | 0<br>6<br>9<br>8 | 0<br>7<br>1<br>2 | 0<br>7<br>0<br>3 | 0<br>5<br>7<br>1 | 0<br>6<br>4<br>6 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>2 | 0<br>5<br>8<br>7 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>3 | 0<br>6<br>3<br>6 | 0<br>5<br>2<br>7 |                  |                      |
| 2.5 mg/m3          | ANIMAL ID        |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                      |
|                    | 0<br>5<br>0<br>1 | 0<br>5<br>0<br>2 | 0<br>5<br>0<br>3 | 0<br>5<br>0<br>4 | 0<br>5<br>0<br>5 | 0<br>5<br>0<br>6 | 0<br>5<br>0<br>7 | 0<br>5<br>0<br>8 | 0<br>5<br>0<br>9 | 0<br>5<br>0<br>0 | 0<br>5<br>0<br>1 | 0<br>5<br>0<br>2 | 0<br>5<br>0<br>3 | 0<br>5<br>0<br>4 | 0<br>5<br>0<br>5 | 0<br>5<br>0<br>6 | 0<br>5<br>0<br>7 | 0<br>5<br>0<br>8 | 0<br>5<br>0<br>9 | 0<br>5<br>0<br>0 | 0<br>5<br>0<br>1 | 0<br>5<br>0<br>2 | 0<br>5<br>0<br>3 | 0<br>5<br>0<br>4 |                      |

Skin  
Subcutaneous Tissue, Sarcoma + + + + + + + + + + X + + + + + + + + + + + + + + + X

**MUSCULOSKELETAL SYSTEM**

Bone  
Osteosarcoma + X + + + + +  
Vertebra, Schwannoma Malignant, Metastatic, Peripheral Nerve

Skeletal Muscle  
Thoracic, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung + X

**NERVOUS SYSTEM**

Brain +  
Peripheral Nerve  
Schwannoma Malignant

**RESPIRATORY SYSTEM**

Larynx +  
Lung  
Alveolar/Bronchiolar Adenoma + + + + + + + + + + + + + + + + + X + + + + + X  
Alveolar/Bronchiolar Carcinoma X X X X X X X X X X X X X X X X  
Alveolar/Bronchiolar Carcinoma, Multiple X X X X X X X X X X X X X X X X  
Hepatocellular Carcinoma, Metastatic, Liver X X X X X X X X X X X X X X X X  
Histiocytic Sarcoma X X X X X X X X X X X X X X X X

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

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

| B6C3F1 MICE FEMALE                               | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | females<br>(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
|  | 0733        | 0733 | 0733 | 0593 | 0577 | 0662 | 0573 | 0773 | 0773 | 0567 | 0677 | 0773 | 0567 | 0677 | 0773 | 0773 | 0577 | 0677 | 0773 | 0773 | 0577 | 0677 | 0773 | 0773 |      |                      |
| 2.5 mg/m3  | ANIMAL ID   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |
|  | 0050        | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 |                      |
| Lymphoma Malignant                               |             |      |      |      |      |      |      |      | X    |      |      | X    |      |      |      | X    |      |      |      |      |      |      |      |      |      |                      |
| Osteosarcoma, Metastatic, Bone                   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      | X    |                      |
| Nose   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                      |
| Trachea  | +           | +    | +    | +    | I    | +    | +    | +    | +    | +    | I    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                      |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |
| <b>SPECIAL SENSES SYSTEM</b>                     |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |
| Eye  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | A    | +    | +    | +    | +    |                      |
| Harderian Gland                                  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                      |
| Adenoma  |             |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |                      |
| Lymphoma Malignant                               |             |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |
| Zymbal's Gland                                   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | +    |                      |
| <b>URINARY SYSTEM</b>                            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |
| Kidney   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                      |
| Lymphoma Malignant                               |             |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      | X    |      |      |      |      |      |      | X    | X    |                      |
| Urinary Bladder                                  | +           | +    | +    | +    | +    | +    | I    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                      |
| Lymphoma Malignant                               |             |      |      |      |      |      |      |      |      |      | X    |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |                      |
| <b>SYSTEMIC LESIONS</b>                          |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |
| Multiple Organ                                   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                      |
| Histiocytic Sarcoma                              |             |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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





| B6C3F1 MICE FEMALE                                       | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |              |         |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--------------|---------|
|  | 0733        | 0646  | 0533  | 0709  | 0733  | 0771  | 0772  | 0773  | 0653  | 0573  | 0774  | 0466  | 0777  | 0773  | 0773  | 0671  | 0733  | 0733  | 0733  | 0573  |          | 0733         |         |
| 2.5 mg/m3  | ANIMAL ID   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |              |         |
|  | 00526       | 00552 | 00552 | 00552 | 00553 | 00553 | 00553 | 00553 | 00553 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 |          | 00555        |         |
| Lymphoma Malignant                                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 2            |         |
| Stomach, Forestomach Lymphoma Malignant                  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50<br>1      |         |
| Stomach, Glandular Lymphoma Malignant                    | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | A     | +     | +     | +     | +     | +        | 49<br>1      |         |
| <b>CARDIOVASCULAR SYSTEM</b>                             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |              |         |
| Heart Hemangiosarcoma                                    | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | X     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50<br>1      |         |
| <b>ENDOCRINE SYSTEM</b>                                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |              |         |
| Adrenal Cortex Lymphoma Malignant Subcapsular, Carcinoma | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50<br>1<br>2 |         |
| Adrenal Medulla Lymphoma Malignant                       | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | I        | +            | 49<br>1 |
| Islets, Pancreatic                                       | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50           |         |
| Parathyroid Gland  | M           | M     | M     | +     | +     | +     | +     | M     | M     | M     | M     | +     | +     | +     | M     | +     | +     | M     | M     | M     | M        | +            | 24      |
| Pituitary Gland Pars Distalis, Adenoma                   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +            | 48<br>1 |
| Thyroid Gland  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50           |         |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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





| B6C3F1 MICE FEMALE   | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |       |       |  |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|--|
|  | 0733        | 0646  | 0533  | 0709  | 0733  | 0731  | 0732  | 0733  | 0673  | 0573  | 0733  | 0740  | 0666  | 0773  | 0773  | 0773  | 0667  | 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 | 00548 | 00549 | 00550 |  |
| Renal, Lymphoma Malignant  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 4     |  |
| Lymph Node, Bronchial<br>Alveolar/Bronchiolar Carcinoma, Metastatic,<br>Lung   | +           | +     | +     | +     | M     | +     | +     | +     | M     | +     | +     | +     | M     | +     | M     | +     | M     | +     | +     | M     | M        | +     | +     |       |       | 34    |  |
| Lymphoma Malignant   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       | X     |       | 5     |  |
| Lymph Node, Mandibular<br>Lymphoma Malignant                                   | M           | +     | M     | M     | +     | +     | +     | M     | +     | +     | +     | +     | M     | +     | +     | +     | +     | M     | +     | +     | +        | M     | +     | M     | +     | 38    |  |
| Lymph Node, Mediastinal<br>Alveolar/Bronchiolar Carcinoma, Metastatic,<br>Lung | +           | +     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | M     | +     | +     | +     | +        | +     | +     | +     | +     | 44    |  |
| Lymphoma Malignant   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | X     |       |       | 3     |  |
| Lymph Node, Mesenteric<br>Histiocytic Sarcoma                                  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | M     | +     | +     | +     | A     | +     | +     | +        | +     | +     | +     | +     | 47    |  |
| Lymphoma Malignant   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | X     |       | X     | 10    |  |
| Spleen<br>Hemangiosarcoma  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | A     | +     | +     | +        | +     | +     | +     | +     | 48    |  |
| Lymphoma Malignant   |             |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |          |       | X     | X     | X     | 1     |  |
| Thymus<br>Lymphoma Malignant   | +           | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | M     | +     | +     | +     | +     | +     | A     | +     | +        | +     | +     | +     | +     | 46    |  |
| Osteosarcoma, Metastatic, Bone   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 5     |  |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 1     |  |
| <b>INTEGUMENTARY SYSTEM</b>  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |  |
| Mammary Gland<br>Carcinoma   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | 50    |  |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 1     |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

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



| B6C3F1 MICE FEMALE<br>2.5 mg/m3                  | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |       |   |    |    |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|---|----|----|
|  | 0733        | 0646  | 0533  | 0709  | 0733  | 0771  | 0772  | 0773  | 0653  | 0573  | 0774  | 0646  | 0776  | 0777  | 0777  | 0676  | 0777  | 0777  | 0777  | 0777  |          | 0575  | 0777  |       |       |   |    |    |
| 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 |   |    |    |
| Lymphoma Malignant                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | X | 6  |    |
| Osteosarcoma, Metastatic, Bone                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |   |    | 1  |
| Nose   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | + | +  | 50 |
| Trachea  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | + | +  | 48 |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |   |    | 1  |
| <b>SPECIAL SENSES SYSTEM</b>                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |   |    |    |
| Eye  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | A     | +     | +        | +     | +     | +     | +     | + | 48 |    |
| Harderian Gland                                  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | A     | +        | +     | +     | +     | +     | + | +  | 49 |
| Adenoma  |             | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |   |    | 4  |
| Lymphoma Malignant                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |   |    | 1  |
| Zymbal's Gland                                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |   |    | 1  |
| <b>URINARY SYSTEM</b>                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |   |    |    |
| Kidney   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | + | +  | 50 |
| Lymphoma Malignant                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |   |    | 5  |
| Urinary Bladder                                  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | A     | +        | +     | +     | +     | +     | + | +  | 48 |
| Lymphoma Malignant                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |   |    | 2  |
| <b>SYSTEMIC LESIONS</b>                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |   |    |    |
| Multiple Organ                                   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | + | +  | 50 |
| Histiocytic Sarcoma                              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |   |    | 1  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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|                           |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                              |
|---------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------------|
| <b>B6C3F1 MICE FEMALE</b> | DAY ON TEST | 0354  | 0732  | 0662  | 0778  | 0679  | 0772  | 0771  | 0561  | 0678  | 0772  | 0773  | 0660  | 0773  | 0773  | 0554  | 0664  | 0660  | 0772  | 0773  | 0550  | 0553  | 0773  | <b>females<br/>(cont...)</b> |
|                           | ANIMAL ID   | 00701 | 00702 | 00703 | 00704 | 00705 | 00706 | 00707 | 00708 | 00709 | 00710 | 00711 | 00712 | 00713 | 00714 | 00715 | 00716 | 00717 | 00718 | 00719 | 00720 | 00721 | 00722 |                              |

**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  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Adenoma                           |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |
| Hepatocellular Carcinoma                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesentery  |   |   |   |   |   | + |   |   |   |   | + |   |   |   |   |   |   | + |   |   |   |   |   |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |
| Pancreas   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Salivary Glands                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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







| B6C3F1 MICE FEMALE<br>5.0 mg/m3  | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |   | ANIMAL ID | females<br>(cont...) |  |  |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|---|-----------|----------------------|--|--|
|  | 0<br>3<br>5<br>4 | 0<br>7<br>3<br>2 | 0<br>6<br>6<br>3 | 0<br>7<br>3<br>2 | 0<br>6<br>1<br>8 | 0<br>7<br>0<br>9 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>1 | 0<br>5<br>7<br>1 | 0<br>6<br>1<br>8 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>1 | 0<br>6<br>3<br>0 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>6<br>6<br>0 | 0<br>6<br>8<br>4 | 0<br>6<br>6<br>0 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>3 | 0<br>5<br>0<br>5 | 0<br>5<br>3<br>3 | 0<br>7<br>3<br>1 |   |   |           |                      |  |  |
| Lymphoma Malignant   | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |   |           |                      |  |  |
| Lymph Node, Mandibular<br>Lymphoma Malignant   | +                | +                | +                | +                | +                | +                | +                | +                | +                | M                | M                | +                | M                | +                | M                | +                | M                | +                | M                | M                | M                | +                | +                | + | + |           |                      |  |  |
| Lymph Node, Mediastinal<br>Alveolar/Bronchiolar Carcinoma, Metastatic,<br>Lung<br>Lymphoma Malignant | +                | +                | +                | +                | +                | +                | M                | M                | +                | +                | +                | M                | +                | +                | +                | +                | +                | +                | +                | X                | +                | +                | M                | + | + | +         | +                    |  |  |
| Lymph Node, Mesenteric<br>Lymphoma Malignant   | +                | +                | +                | +                | +                | +                | +                | I                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | + | + | +         | +                    |  |  |
| Spleen<br>Lymphoma Malignant   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | + | + | +         | +                    |  |  |
| Thymus<br>Alveolar/Bronchiolar Carcinoma, Metastatic,<br>Lung<br>Lymphoma Malignant                  | +                | +                | +                | +                | +                | M                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | + | + | +         | +                    |  |  |
| <b>INTEGUMENTARY SYSTEM</b>  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |   |           |                      |  |  |
| Mammary Gland  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | + | + | +         | +                    |  |  |
| Skin<br>Subcutaneous Tissue, Hemangioma  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | + | + | +         | +                    |  |  |
| <b>MUSCULOSKELETAL SYSTEM</b>  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |   |           |                      |  |  |
| Bone   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | + | + | +         | +                    |  |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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



| B6C3F1 MICE FEMALE | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | ANIMAL ID | females<br>(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 |           |                      |  |
| 5.0 mg/m3          | 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         | 0                    |  |
|                    | 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                    |  |
|                    | 4           | 2 | 3 | 2 | 8 | 9 | 2 | 1 | 1 | 8 | 2 | 1 | 2 | 0 | 3 | 3 | 4 | 4 | 4 | 0 | 2 | 3 | 5 | 3 | 1         | 0                    |  |
|                    | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         | 0                    |  |
|                    | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         | 0                    |  |
|                    | 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 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 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         | 0                    |  |

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Harderian Gland    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma            |   |   |   | X | X |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**URINARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |
| Lymphoma Malignant                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Renal Tubule, Adenoma                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |
| Urinary Bladder                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**SYSTEMIC LESIONS**

|                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Histiocytic Sarcoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Lymphoma Malignant  |   | X |   | X |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

| B6C3F1 MICE FEMALE | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |
|--------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
|                    | 0732        | 0610 | 0732 | 0501 | 0772 | 0664 | 0558 | 0772 | 0772 | 0664 | 0558 | 0772 | 0772 | 0664 | 0558 | 0772 | 0772 | 0664 | 0558 | 0772 | 0772 | 0664 | 0558 | 0772 |          |
| 5.0 mg/m3          | 0072        | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077     |
|                    | 67          | 77   | 88   | 99   | 00   | 01   | 02   | 03   | 04   | 05   | 06   | 07   | 08   | 09   | 00   | 01   | 02   | 03   | 04   | 05   | 06   | 07   | 08   | 09   | 00       |

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Gallbladder                                      | + | A | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 46 |
| Intestine Large, Cecum                           | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Intestine Large, Colon                           | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Large, Rectum                          | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Duodenum                        | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Ileum                           | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Jejunum                         | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Liver  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocellular Adenoma                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   | 2 |    |
| Hepatocellular Carcinoma                         |   |   |   | X |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   | 2 |    |
| Lymphoma Malignant                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   | 1 |    |
| Mesentery  | + |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   | + | + | + | 8  |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Pancreas   | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Lymphoma Malignant                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | 1  |
| Salivary Glands                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

| B6C3F1 MICE FEMALE                               | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----------|
|  | 0732        | 0610  | 0732  | 0506  | 0773  | 0776  | 0658  | 0544  | 0733  | 0733  | 0733  | 0643  | 0773  | 0673  | 0763  | 0773  | 0773  | 0676  | 0559  | 0556  | 0733  | 0733  | 0731  |    |          |
| 5.0 mg/m3  | ANIMAL ID   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          |
|  | 00726       | 00772 | 00778 | 00779 | 00770 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 |    |          |
| Lymphoma Malignant                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       | 1  |          |
| Stomach, Forestomach Lymphoma Malignant          | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       | 1  |          |
| Stomach, Glandular Lymphoma Malignant            | +           | A     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49 |          |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       | 1  |          |
| <b>CARDIOVASCULAR SYSTEM</b>                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          |
| Heart  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             | X     |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2  |          |
| Lymphoma Malignant                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       | 2  |          |
| <b>ENDOCRINE SYSTEM</b>                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          |
| Adrenal Cortex Lymphoma Malignant                | +           | A     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 48 |          |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       | 1  |          |
| Adrenal Medulla Lymphoma Malignant               | +           | A     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 48 |          |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       | 1  |          |
| Islets, Pancreatic                               | +           | A     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49 |          |
| Parathyroid Gland                                | M           | M     | +     | +     | +     | +     | M     | M     | +     | +     | +     | M     | M     | +     | M     | +     | +     | +     | I     | +     | +     | +     | M     | +  | 32       |
| Pituitary Gland                                  | M           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49 |          |
| Thyroid Gland Follicular Cell, Adenoma           | +           | A     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49 |          |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       | 1  |          |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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



| B6C3F1 MICE FEMALE<br>5.0 mg/m3  | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |    |  |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|----|--|
|  | 0732        | 0610 | 0732 | 0506 | 0773 | 0776 | 0658 | 0574 | 0773 | 0773 | 0674 | 0773 | 0473 | 0773 | 0673 | 0773 | 0773 | 0673 | 0573 | 0556 | 0773 | 0773 | 0773 | 0773 |          |    |  |
| ANIMAL ID  | 00726       | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 | 0098 | 0099 | 0100     |    |  |
| Lymphoma Malignant   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1        |    |  |
| Lymph Node, Mandibular Lymphoma Malignant                                | M           | M    | +    | M    | +    | +    | M    | +    | M    | +    | +    | +    | M    | M    | +    | M    | +    | +    | +    | +    | +    | M    | M    | M    | +        | 31 |  |
|  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | 1  |  |
| Lymph Node, Mediastinal Alveolar/Bronchiolar Carcinoma, Metastatic, Lung | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 46       |    |  |
| Lymphoma Malignant   |             | X    |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 3        |    |  |
|  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      | 2        |    |  |
| Lymph Node, Mesenteric Lymphoma Malignant                                | +           | +    | M    | +    | +    | +    | +    | +    | +    | +    | +    | I    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 47       |    |  |
|  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      | 2        |    |  |
| Spleen Lymphoma Malignant  | +           | A    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 49       |    |  |
|  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      | 3        |    |  |
| Thymus Alveolar/Bronchiolar Carcinoma, Metastatic, Lung                  | +           | +    | +    | +    | +    | +    | M    | +    | +    | +    | +    | M    | I    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 46       |    |  |
| Lymphoma Malignant   |             | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 2        |    |  |
|  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      | 1        |    |  |
| <b>INTEGUMENTARY SYSTEM</b>  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |    |  |
| Mammary Gland  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |    |  |
| Skin Subcutaneous Tissue, Hemangioma                                     | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |    |  |
|  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1        |    |  |
| <b>MUSCULOSKELETAL SYSTEM</b>  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |    |  |
| Bone   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |    |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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





| B6C3F1 MICE FEMALE<br>5.0 mg/m3                  | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |      |  |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|--|
|  | 0732        | 0610  | 0732  | 0506  | 0772  | 0766  | 0554  | 0772  | 0765  | 0574  | 0772  | 0766  | 0554  | 0772  | 0766  | 0554  | 0772  | 0766  | 0554  | 0772  | 0766  | 0554  | 0772  | 0766  |          | 0554 |  |
| ANIMAL ID  | 00726       | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726    |      |  |
| Harderian Gland                                  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |      |  |
| Adenoma  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 3        |      |  |
| Lymphoma Malignant                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       | 1        |      |  |
| <b>URINARY SYSTEM</b>                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |      |  |
| Kidney   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |      |  |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |             | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2        |      |  |
| Lymphoma Malignant                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       | 1        |      |  |
| Renal Tubule, Adenoma                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |      |  |
| Urinary Bladder                                  | +           | A     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49    |          |      |  |
| Lymphoma Malignant                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       | 1        |      |  |
| <b>SYSTEMIC LESIONS</b>                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |      |  |
| Multiple Organ                                   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50    |          |      |  |
| Histiocytic Sarcoma                              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |          |      |  |
| Lymphoma Malignant                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     | 4     |          |      |  |

\*\*\* END OF REPORT \*\*\*

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