

TDMS No. 20009 - 04
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 09:52:35
First Dose M/F: 11/09/04 / 11/08/04
Lab: BAT

F2_M3

C Number: C20009
Lock Date: 05/05/2008
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.4.1.0_004
PWG Approval Date: 12/14/2010

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B6C3F1 MICE MALE	DAY ON TEST	0731	0543	0732	0670	0556	0752	0772	0662	0771	0771	0770	0519	0455	0731	0730	0669	0553	0666	0771	0773	0773	0733	0733	0733	0731	0773	males (cont...)
	0 mg/l	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	

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Gallbladder	+	+	+	+	A	A	+	+	A	+	+	+	+	A	+	+	A	A	A	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	A	A	+	+	A	+	+	+	A	A	+	+	A	A	A	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	A	+	+	A	+	+	+	+	A	+	+	A	A	A	+	+	+	+	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	A	+	+	A	+	+	+	A	A	+	+	A	A	A	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	A	+	+	A	+	+	+	A	A	+	+	A	A	A	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	A	A	+	+	A	+	+	+	A	A	+	+	A	A	A	+	+	+	+	+	+	+	+
Intestine Small, Jejunum Carcinoma	+	+	+	+	A	A	+	+	A	+	+	A	A	A	+	+	A	A	A	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hemangiosarcoma												X					X	X									
Hepatoblastoma														X											X		
Hepatoblastoma, Multiple	X	X																									
Hepatocellular Adenoma	X		X		X		X		X									X							X	X	
Hepatocellular Adenoma, Multiple		X						X					X		X					X		X	X				
Hepatocellular Carcinoma	X	X			X		X	X				X					X		X		X		X	X	X	X	X
Hepatocellular Carcinoma, Multiple				X		X			X		X																
Hepatocholangiocarcinoma										X																	
Mesentery						+													+		+						

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		7	5	7	6	5	5	7	7	6	7	7	5	4	7	7	6	5	6	7	7	7	7	7	7	7
0 mg/l	ANIMAL ID	3	4	3	7	0	6	3	3	2	3	3	0	1	5	3	3	1	4	4	3	3	3	3	3	
		1	3	2	0	8	2	2	2	7	1	1	0	9	5	1	0	9	3	6	1	2	2	2	1	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

males
(cont...)

Hepatocarcinoma, Metastatic, Liver

Pancreas
 Hepatocarcinoma, Metastatic, Liver

Salivary Glands

Stomach, Forestomach

Stomach, Glandular

Tooth

CARDIOVASCULAR SYSTEM

Heart
 Hemangiosarcoma
 Hepatocarcinoma, Metastatic, Liver
 Mesothelioma Benign
 Sarcoma, Metastatic, Uncertain Primary Site

ENDOCRINE SYSTEM

Adrenal Cortex
 Subcapsular, Adenoma

Adrenal Medulla

Islets, Pancreatic
 Adenoma

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

Parathyroid Gland	+	+	M	+	M	+	+	+	M	M	M	+	+	+	+	M	+	M	+	+	+	M	+	+
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	M	+	+	+	+	+	+
Thyroid Gland Follicular Cell, Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	X	+	+	+	+	+	+	+	+

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Coagulating Gland																										+
Epididymis Hepatocholangiocarcinoma, Metastatic, Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Seminal Vesicle Hepatocholangiocarcinoma, Metastatic, Liver	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+		
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

HEMATOPOIETIC SYSTEM

Bone Marrow Hemangiosarcoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									X
--------------------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--	--	--	--	--	--	--	--	---

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

Lymph Node Mediastinal, Hepatocholangiocarcinoma, Metastatic, Liver																											+
Lymph Node, Mandibular Rhabdomyosarcoma, Metastatic, Skeletal Muscle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	X
Lymph Node, Mesenteric	+	+	+	+	+	M	+	+	A	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	
Spleen Hemangiosarcoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	X	+	+	+	+	+	+	+	+	
Thymus Hepatocellular Carcinoma, Metastatic, Liver Hepatocholangiocarcinoma, Metastatic, Liver	+	+	+	+	+	+	+	+	A	+	+	+	+	+	M	+	A	+	+	+	+	+	+	+	+	X	

INTEGUMENTARY SYSTEM

Mammary Gland	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Skin Subcutaneous Tissue, Fibrous Histiocytoma Subcutaneous Tissue, Hemangioma Subcutaneous Tissue, Hemangiosarcoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

MUSCULOSKELETAL SYSTEM

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

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	0 mg/l	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	
ANIMAL ID		0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

males
(cont...)

Rhabdomyosarcoma X

NERVOUS SYSTEM

Brain +

RESPIRATORY SYSTEM

Lung +
Alveolar/Bronchiolar Adenoma X X X
Alveolar/Bronchiolar Carcinoma X X X
Carcinoma, Metastatic, Harderian Gland X
Hemangiosarcoma X
Hepatoblastoma, Metastatic, Liver X
Hepatocellular Carcinoma, Metastatic, Liver X X X X X X
Hepatocholangiocarcinoma, Metastatic, Liver X X X X
Rhabdomyosarcoma, Metastatic, Skeletal Muscle X
Sarcoma, Metastatic, Uncertain Primary Site X

Nose +
Hemangiosarcoma X

Trachea +

SPECIAL SENSES SYSTEM

Eye + + + + A A + + A + + + A A + + A A A + + + + + +
Harderian Gland Adenoma + + + + + X + + X + + + + A + + A + A + + + + X +

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		7	5	7	6	5	5	7	7	6	7	7	7	5	4	7	7	6	5	6	7	7	7	7	7
		3	4	3	7	0	6	3	3	2	3	3	0	1	5	3	3	1	4	4	3	3	3	3	3
		1	3	2	0	8	2	2	2	7	1	1	0	9	5	1	0	9	3	6	1	2	2	2	1
0 mg/l	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	
																								males (cont...)	

Carcinoma
 Rhabdomyosarcoma, Metastatic, Skeletal
 Muscle

X

X

URINARY SYSTEM

Kidney
 Hepatocellular Carcinoma, Metastatic, Liver

+ + + + + + + + + + + + + + + + + X + + + + + +

Urethra

+

Urinary Bladder

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

SYSTEMIC LESIONS

Multiple Organ
 Mesothelioma Benign

+ +

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|-------------------------|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| B6C3F1 MICE MALE | DAY ON TEST | 0567 | 0567 | 0445 | 0544 | 0657 | 0768 | 0879 | 0989 | 1093 | 1173 | 1273 | 1373 | 1473 | 1564 | 1644 | 1773 | 1866 | 1977 | 2057 | 2175 | 2255 | 2373 | 2457 | 2573 | |
| | 0 mg/l | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | 0036 | 0037 | 0038 | 0039 | 0040 | 0041 | 0042 | 0043 | 0044 | 0045 | 0046 | 0047 | 0048 | 0049 | 0050 |
| | ANIMAL ID | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Gallbladder | A | A | A | + | A | + | + | A | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | 36 |
| Intestine Large, Cecum | A | + | A | + | A | A | + | A | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | 35 |
| Intestine Large, Colon | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | 40 |
| Intestine Large, Rectum | A | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | 39 |
| Intestine Small, Duodenum | A | + | A | + | A | + | + | A | + | + | + | + | + | + | + | + | A | + | + | A | + | A | + | + | + | 36 |
| Intestine Small, Ileum | A | + | + | + | A | A | + | A | + | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | 36 |
| Intestine Small, Jejunum | A | A | A | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | 35 |
| Carcinoma | | | | | | | | | | | | | | | | X | | | | | | | | | | 2 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemangiosarcoma | | | | | X | | | | | | | | | | | | | | X | | | | | | | 5 |
| Hepatoblastoma | X | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Hepatoblastoma, Multiple | | | | | | | | | | | | | X | | | | | | | | | | | | | 3 |
| Hepatocellular Adenoma | X | | | | | X | | | | | | | | | | | | X | | | | | | X | | 12 |
| Hepatocellular Adenoma, Multiple | | | | | X | | | X | X | X | X | X | X | X | X | X | X | | X | | | | X | | X | 21 |
| Hepatocellular Carcinoma | X | | | X | | | | X | X | X | X | X | X | X | X | X | | X | X | | | X | X | | | 20 |
| Hepatocellular Carcinoma, Multiple | | | | | | | | | | | | | | X | | | | | X | | | | | | | 6 |
| Hepatocholangiocarcinoma | | X | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Mesentery | | + | | | | | | | | | + | | | | | + | | | | | | + | | | | 7 |

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| B6C3F1 MICE MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
| | 0567 | 0567 | 0441 | 0545 | 0442 | 0550 | 0772 | 0663 | 0771 | 0773 | 0773 | 0773 | 0773 | 0664 | 0444 | 0446 | 0773 | 0662 | 0773 | 0773 | 0554 | 0771 | 0552 | 0557 | 0773 | | |
| 0 mg/l | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
| | 0026 | 0007 | 0008 | 0009 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | | 0000 |
| Hepatocarcinoma, Metastatic, Liver | | X | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pancreas | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Hepatocarcinoma, Metastatic, Liver | | X | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Stomach, Forestomach | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Stomach, Glandular | A | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 42 | |
| Tooth | + | | + | + | | + | + | + | | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | 35 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | X | | | 1 | |
| Hepatocarcinoma, Metastatic, Liver | | X | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Mesothelioma Benign | | | | | | | | | | | | | | | | | | | | | | | X | | | 1 | |
| Sarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | X | | | | | | | | | | | | 1 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Subcapsular, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Islets, Pancreatic | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | 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. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE MALE

0 mg/l | DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|---|-------------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|---|---|---|----|----|
| | | 0567 | 0567 | 0445 | 0445 | 0550 | 0550 | 0772 | 0772 | 0772 | 0772 | 0772 | 0664 | 0664 | 0773 | 0773 | 0773 | 0559 | 0559 | 0559 | 0559 | | | | | | |
| | | 0002 | 0002 | 0002 | 0002 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | | | | | | |
| Parathyroid Gland | + | M | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | M | + | + | M | + | + | + | + | 37 |
| Pituitary Gland | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Thyroid Gland | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Follicular Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Coagulating Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocholangiocarcinoma, Metastatic, Liver | | X | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Seminal Vesicle | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Hepatocholangiocarcinoma, Metastatic, Liver | | X | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | 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

TDMS No. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| | 0567 | 0567 | 0441 | 0545 | 0442 | 0550 | 0772 | 0663 | 0773 | 0773 | 0773 | 0773 | 0664 | 0444 | 0447 | 0776 | 0667 | 0777 | 0777 | 0555 | 0777 | 0555 | 0777 | |
| 0 mg/l | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 2 | |
| | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 1 | |
| | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 50 | |
| | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 45 | |
| | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 46 | |
| | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 41 | |
| | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 1 | |
| | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 1 | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|
| Lymph Node
Mediastinal, Hepatocholangiocarcinoma,
Metastatic, Liver | | + | | | | | | | | | | | | | | | | | | | | | | 2 |
| | | X | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymph Node, Mandibular
Rhabdomyosarcoma, Metastatic, Skeletal
Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | M | + | + | 45 |
| Spleen
Hemangiosarcoma | A | + | A | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Thymus
Hepatocellular Carcinoma, Metastatic, Liver
Hepatocholangiocarcinoma, Metastatic, Liver | A | + | + | + | A | + | + | A | M | M | + | + | M | + | + | + | + | + | + | + | + | + | 41 | |
| | | X | | | | | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 |
| Skin
Subcutaneous Tissue, Fibrous Histiocytoma
Subcutaneous Tissue, Hemangioma
Subcutaneous Tissue, Hemangiosarcoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | X | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | 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. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE MALE
0 mg/l | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|
| | | 5 | 5 | 4 | 5 | 4 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 4 | 4 | 7 | 6 | 7 | 7 | 5 | 7 | 5 | 7 | |
| | | 6 | 9 | 4 | 8 | 0 | 9 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 4 | 5 | 6 | 3 | 2 | 3 | 3 | 9 | 1 | 2 | 0 | 3 |
| ANIMAL ID | 7 | 6 | 1 | 5 | 2 | 0 | 2 | 3 | 2 | 2 | 1 | 1 | 1 | 8 | 5 | 0 | 1 | 4 | 1 | 1 | 4 | 7 | 4 | 5 | 1 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 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 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
| Rhabdomyosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Alveolar/Bronchiolar Adenoma | | | | | | | X | | | | | | | | | X | X | | | | | | | | | |
| Alveolar/Bronchiolar Carcinoma | | | | | X | | | | | | X | | | X | | | | | | X | | | | | | |
| Carcinoma, Metastatic, Harderian Gland | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | X | | | | | |
| Hepatoblastoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | X | | | | | | | | | X | X | | | | | | |
| Hepatocholangiocarcinoma, Metastatic, Liver | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Rhabdomyosarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Nose | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | | A | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 47 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | A | A | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | A | + | + | A | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 36 | |
| Harderian Gland Adenoma | | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | X | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 46 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 5 | |

* .. 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. 20009 - 04
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 09:52:35
First Dose M/F: 11/09/04 / 11/08/04
Lab: BAT

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

Carcinoma
Rhabdomyosarcoma, Metastatic, Skeletal Muscle

X
1

2
1

URINARY SYSTEM

Kidney
Hepatocellular Carcinoma, Metastatic, Liver

+ +

50
1

Urethra

+

+

3

Urinary Bladder

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

45

SYSTEMIC LESIONS

Multiple Organ
Mesothelioma Benign

+ +

50
1

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. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| B6C3F1 MICE MALE | DAY ON TEST | 0732 | 0642 | 0732 | 0753 | 0773 | 0773 | 0773 | 0753 | 0773 | 0673 | 0773 | 0573 | 0773 | 0773 | 0573 | 0773 | 0673 | 0765 | 0476 | 0663 | 0773 | 0473 | 0773 | 0743 | 0773 |
| | ANIMAL ID | 0051 | 0052 | 0053 | 0054 | 0055 | 0056 | 0057 | 0058 | 0059 | 0060 | 0061 | 0062 | 0063 | 0064 | 0065 | 0066 | 0067 | 0068 | 0069 | 0070 | 0071 | 0072 | 0073 | 0074 | 0075 |

males
(cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gallbladder | + | + | + | A | A | + | + | + | A | + | A | + | + | + | + | A | M | A | A | + | A | + | A | + | + |
| Intestine Large, Cecum | + | A | + | A | A | + | + | + | A | + | A | + | + | + | + | A | + | A | A | A | A | + | A | + | + |
| Intestine Large, Colon
Sarcoma, Metastatic, Liver | + | + | + | A | + | + | + | + | + | A | + | + | + | + | + | A | + | A | + | A | A | + | A | + | + |
| Intestine Large, Rectum | + | A | + | A | + | + | + | + | + | A | + | + | + | + | + | A | + | A | + | A | A | + | A | + | + |
| Intestine Small, Duodenum
Peyer's Patch, Lymphoma Malignant | + | A | + | A | A | + | + | + | A | + | A | + | + | + | + | A | + | A | + | A | A | + | A | + | + |
| Intestine Small, Ileum | + | A | + | A | A | + | + | + | A | + | A | + | + | + | + | A | + | A | + | A | A | + | A | + | + |
| Intestine Small, Jejunum
Adenoma
Carcinoma | + | A | + | A | A | + | + | + | A | + | A | + | + | + | + | A | + | A | + | A | A | + | A | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemangioma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemangiosarcoma | | | | | | | | | X | | | | | | | | | | | | | | | | |
| Hepatoblastoma | | | | | | | | X | X | X | | | | | | | | | | | | | | | |
| Hepatoblastoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocellular Adenoma | | | | | | | | X | | | | | | | | | X | | | | | | X | | |
| Hepatocellular Adenoma, Multiple | X | X | X | X | X | X | X | | | | | X | X | X | X | X | | X | X | X | X | X | X | | X |
| Hepatocellular Carcinoma | | | X | | | | X | X | X | | | X | X | X | | | | | | | X | | | | |
| Hepatocellular Carcinoma, Multiple | | 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

TDMS No. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

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

Hepatocarcinoma
 Histiocytic Sarcoma
 Ito Cell Tumor Malignant
 Lymphoma Malignant
 Sarcoma

X

Mesentery
 Lymphoma Malignant

Pancreas
 Histiocytic Sarcoma
 Sarcoma, Metastatic, Liver

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

Salivary Glands

+ +

Stomach, Forestomach
 Hemangioma
 Histiocytic Sarcoma
 Squamous Cell Papilloma

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

Stomach, Glandular
 Histiocytic Sarcoma

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

Tooth

+ +

CARDIOVASCULAR SYSTEM

Heart
 Hemangiosarcoma
 Hepatocellular Carcinoma, Metastatic, Liver
 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

TDMS No. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE MALE

312.5 mg/l | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | males
(cont...) | |
|------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|---|
| | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 6 | 5 | 4 | 6 | 7 | 4 | | | 7 |
| | 3 | 4 | 3 | 1 | 9 | 3 | 3 | 3 | 8 | 3 | 2 | 3 | 3 | 8 | 3 | 3 | 9 | 3 | 0 | 4 | 7 | 3 | 3 | 0 | 3 | | |
| | 2 | 2 | 2 | 5 | 3 | 2 | 1 | 2 | 3 | 2 | 7 | 1 | 0 | 0 | 1 | 2 | 0 | 1 | 5 | 5 | 0 | 8 | 2 | 7 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | | |

Lymphoma Malignant
 Sarcoma, Metastatic, Liver

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcapsular, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
| Parathyroid Gland | + | M | M | + | + | + | M | + | + | + | + | M | M | + | + | + | + | + | M | M | + | + | + | M | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Follicular Cell, Carcinoma | | | | | | | | | | | X | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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

* .. 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. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE MALE
312.5 mg/l | DAY ON TEST | 0732 | 0642 | 0732 | 0753 | 0773 | 0773 | 0773 | 0573 | 0773 | 0673 | 0773 | 0573 | 0773 | 0773 | 0673 | 0773 | 0673 | 0573 | 0473 | 0673 | 0773 | 0473 | 0773 | 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 | | | |
| Preputial Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Prostate | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Seminal Vesicle | | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Testes
Interstitial Cell, Adenoma | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | X | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Lymph Node
Mediastinal, Hepatoblastoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular
Carcinoma, Metastatic, Harderian Gland
Lymphoma Malignant | | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Lymph Node, Mesenteric
Lymphoma Malignant
Sarcoma, Metastatic, Liver | | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | | | | |
| Spleen
Hemangiosarcoma
Lymphoma Malignant | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | | A | + | |
| Thymus
Hemangiosarcoma, Metastatic, Liver
Hepatocellular Carcinoma, Metastatic, Liver | | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A | + | M | + | + | + | + | | 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. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | | | | | | | | | | | | | | | | | | |
|------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-----------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 0732 | 0642 | 0732 | 0775 | 0577 | 0777 | 0777 | 0777 | 0575 | 0777 | 0676 | 0777 | 0575 | 0777 | 0777 | 0676 | 0777 | 0575 | 0474 | 0676 | 0777 | 0474 | 0777 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 312.5 mg/l | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00051 | 00052 | 00053 | 00054 | 00055 | 00056 | 00057 | 00058 | 00059 | 00060 | 00061 | 00062 | 00063 | 00064 | 00065 | 00066 | 00067 | 00068 | 00069 | 00070 | 00071 | 00072 | 00073 | 00074 | 00075 |

Hepatocarcinoma, Metastatic, Liver
 Histiocytic Sarcoma
 Lymphoma Malignant
 Sarcoma, Metastatic, Liver

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Subcutaneous Tissue, Fibrous Histiocytoma | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Sarcoma | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Sarcoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Adenoma | | X | | X | | | | | | X | | | | | | | | | | | X | | |
| Alveolar/Bronchiolar Carcinoma | | | | | | | | X | | | | | X | X | | | | | | | | | |
| Alveolar/Bronchiolar Carcinoma, Multiple | X | | | | | | | | | | | | | | | | | | | | | | |
| Hemangiosarcoma, Metastatic, Liver | | | | | | | | X | | | | | | | | | | | | | | | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | X | X | | | X | | | X | X | X | | | | X | X | | | | | | |
| Hepatocarcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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. 20009 - 04
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 09:52:35
First Dose M/F: 11/09/04 / 11/08/04
Lab: BAT

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

Histiocytic Sarcoma
Lymphoma Malignant
Sarcoma, Metastatic, Liver

Nose +

Pleura
Hepatocellular Carcinoma, Metastatic, Liver

Trachea + A +

SPECIAL SENSES SYSTEM

Eye + + + A + + + + + + A + + + + + A + A + A A + A +

Harderian Gland Adenoma Carcinoma + + + A + + + + + + + + X + + + + + A + + + + + X + +

URINARY SYSTEM

Kidney +

Lymphoma Malignant
Sarcoma, Metastatic, Liver

Urethra + +

Urinary Bladder + + + A + + + + + + + + + + + + A + + + A + + A +

SYSTEMIC LESIONS

* .. 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. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

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

312.5 mg/l | DAY ON TEST | 0732 | 0642 | 0732 | 0753 | 0772 | 0772 | 0772 | 0753 | 0762 | 0772 | 0772 | 0753 | 0772 | 0772 | 0762 | 0772 | 0762 | 0753 | 0742 | 0762 | 0772 | 0742 | 0772 | males
(cont...) | | |
| | ANIMAL ID | 0051 | 0052 | 0053 | 0054 | 0055 | 0056 | 0057 | 0058 | 0059 | 0060 | 0061 | 0062 | 0063 | 0064 | 0065 | 0066 | 0067 | 0068 | 0069 | 0070 | 0071 | 0072 | 0073 | | 0074 | 0075 |
| | | 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 |
| | | 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 |

Multiple Organ
 Histiocytic Sarcoma
 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. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------|
| B6C3F1 MICE MALE | DAY ON TEST | 0732 | 0731 | 0772 | 0767 | 0772 | 0772 | 0764 | 0771 | 0771 | 0755 | 0774 | 0767 | 0772 | 0772 | 0759 | 0755 | 0773 | 0767 | 0772 | 0772 | 0773 | 0773 | 0766 | 0766 | 0773 | * TOTALS |
| | ANIMAL ID | 0007 | 0007 | 0007 | 0007 | 0007 | 0007 | 0007 | 0007 | 0007 | 0007 | 0007 | 0007 | 0007 | 0007 | 0007 | 0007 | 0007 | 0007 | 0007 | 0007 | 0007 | 0007 | 0007 | 0007 | 0007 | |
| | | 6789 | 6789 | 6789 | 6789 | 6789 | 6789 | 6789 | 6789 | 6789 | 6789 | 6789 | 6789 | 6789 | 6789 | 6789 | 6789 | 6789 | 6789 | 6789 | 6789 | 6789 | 6789 | 6789 | 6789 | 6789 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Gallbladder | + | + | + | + | + | + | A | + | + | + | + | A | A | + | A | + | + | + | A | + | + | A | A | + | + | + | 33 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | A | A | + | A | + | + | + | + | A | + | + | A | + | + | + | 34 |
| Intestine Large, Colon
Sarcoma, Metastatic, Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | A | + | + | 40
1 |
| Intestine Large, Rectum | + | + | + | + | + | + | A | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | A | + | + | 38 |
| Intestine Small, Duodenum
Peyer's Patch, Lymphoma Malignant | + | + | + | + | + | + | A | + | + | + | + | A | A | + | A | A | + | + | A | A | + | A | A | + | + | + | 31
1 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | A | + | + | + | + | A | + | + | A | + | + | 35 |
| Intestine Small, Jejunum
Adenoma
Carcinoma | + | + | + | + | + | + | A | + | + | + | + | A | A | + | A | + | + | + | + | A | A | + | A | A | + | + | 32
1
1 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemangioma | | | | | | | | | | | | | X | | | | | | | | | | | | | | 1 |
| Hemangiosarcoma | X | | | | | | | | | | | | X | | | | | | X | | | | | | | | 4 |
| Hepatoblastoma | | | | | | | | | | | | | X | | | | | | | X | | | | | | | 5 |
| Hepatoblastoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | X | | | 1 |
| Hepatocellular Adenoma | | | X | | X | X | X | | | | | | | | X | | | | X | | | | | X | | | 11 |
| Hepatocellular Adenoma, Multiple | X | | | X | | | | | X | X | X | X | X | | X | | | X | | | X | | X | | X | | 30 |
| Hepatocellular Carcinoma | | | | X | | | X | | | | | | X | X | | | | | | | X | | | | | | 13 |
| Hepatocellular Carcinoma, Multiple | | | | X | | | | X | X | | | | | | | X | X | | | | | | | | | | 10 |

* .. 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. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE MALE
312.5 mg/l | DAY ON TEST | 0732 | 0733 | 0731 | 0732 | 0672 | 0772 | 0766 | 0776 | 0771 | 0773 | 0573 | 0773 | 0662 | 0772 | 0575 | 0553 | 0773 | 0667 | 0772 | 0770 | 0663 | 0662 | 0773 | 0666 | 0667 | 0773 | * TOTALS |
|--------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| | ANIMAL ID | 0076 | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 | 0098 | 0099 | 0100 | | |
| Hepatocholangiocarcinoma | | | X | | | | | | | X | | | | | | | | | | | | | | | | | | 2 |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | X | | | | | | | | 1 |
| Ito Cell Tumor Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X | | | 1 |
| Sarcoma | | | | | | | | | | X | | | | | | | | | | | | | | | | | | 1 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | X | | 1 |
| Pancreas | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | X | | | 1 |
| Sarcoma, Metastatic, Liver | | | | | | | | | | X | | | | | | | | | | | | | | | | | | 1 |
| Salivary Glands | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Hemangioma | | | | X | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | X | | | 1 |
| Squamous Cell Papilloma | | | | | | | | | | | | | | X | | | | | | | | | | | | | | 1 |
| Stomach, Glandular | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | X | | | 1 |
| Tooth | | + | + | + | + | + | | + | | + | | + | + | | + | + | | + | + | + | + | + | + | + | + | + | + | 41 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | X | | 1 |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | X | | | | | | | | | | | | | | | | | | | | | | | 2 |
| 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. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE MALE
312.5 mg/l | DAY ON TEST | 0732 | 0731 | 0772 | 0762 | 0772 | 0772 | 0764 | 0771 | 0771 | 0755 | 0776 | 0776 | 0767 | 0772 | 0753 | 0753 | 0773 | 0767 | 0777 | 0777 | 0766 | 0767 | 0773 | * TOTALS | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|--------------|--|
| | ANIMAL ID | 00076 | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | 00098 | | |
| Preputial Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Prostate | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Seminal Vesicle | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | 48 | |
| Testes
Interstitial Cell, Adenoma | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lymph Node
Mediastinal, Hepatoblastoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | + | 1
1 | |
| Lymph Node, Mandibular
Carcinoma, Metastatic, Harderian Gland
Lymphoma Malignant | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49
1
1 | |
| Lymph Node, Mesenteric
Lymphoma Malignant
Sarcoma, Metastatic, Liver | | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | A | + | + | A | 45
1
1 | |
| Spleen
Hemangiosarcoma
Lymphoma Malignant | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48
1
1 | |
| Thymus
Hemangiosarcoma, Metastatic, Liver
Hepatocellular Carcinoma, Metastatic, Liver | | + | + | + | M | + | + | + | + | + | M | + | M | M | A | + | + | + | + | + | + | + | + | 42
1
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
7
3
2 | 0
7
3
1 | 0
7
3
1 | 0
7
3
2 | 0
6
2
7 | 0
7
3
2 | 0
7
3
2 | 0
6
4
1 | 0
7
3
1 | 0
7
3
1 | 0
5
8
5 | 0
7
3
2 | 0
7
0
4 | 0
6
2
7 | 0
7
3
2 | 0
5
9
3 | 0
5
7
2 | 0
6
7
2 | 0
7
0
2 | 0
7
3
1 | 0
6
3
2 | 0
6
2
1 | 0
7
3
2 | |
| | 312.5 mg/l | ANIMAL ID | 0
0
0
7
6 | 0
0
0
7
7 | 0
0
0
7
8 | 0
0
0
7
8 | 0
0
0
8
8 | 0
0
0
8
8 | 0
0
0
8
8 | 0
0
0
8
8 | 0
0
0
8
8 | 0
0
0
8
8 | 0
0
0
8
8 | 0
0
0
8
8 | 0
0
0
9
9 | 0
0
0
9
9 | 0
0
0
9
9 | 0
0
0
9
9 | 0
0
0
9
9 | 0
0
0
9
9 | 0
0
0
9
9 | 0
0
0
9
9 | 0
0
0
9
9 | 0
0
0
9
9 | |
| | | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|---|--|---|--|--|--|--|---|--|----------|----------|
| Hepatocholangiocarcinoma, Metastatic, Liver | X | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | X | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | X | | | | | X | | | 2 |
| Sarcoma, Metastatic, Liver | | | | | | | | | | | X | | | | | | | | | | | | | | | | 1 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Mammary Gland | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Subcutaneous Tissue, Fibrous Histiocytoma | | | | | | | | | | | | | | | | | | | | | | | X | | | | 2 |
| Subcutaneous Tissue, Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Sarcoma, Metastatic, Liver | | | | | | | | | X | | | | | | | | | | | | | | | | | | 1 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Alveolar/Bronchiolar Adenoma | | | | X | | X | X | | | X | | X | | X | | | | | | | | | | X | | | 11 |
| Alveolar/Bronchiolar Carcinoma | X | | | | | X | | | | | | | | | | X | | | | | X | | | | | | 7 |
| Alveolar/Bronchiolar Carcinoma, Multiple | | | | | | | | | | X | | | | | | | | | | | | | | | | | 2 |
| Hemangiosarcoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | X | | | | | | | | X | | | | X | | | X | | | X | | | | 12 |
| Hepatocholangiocarcinoma, Metastatic, Liver | | 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. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE MALE
312.5 mg/l | DAY ON TEST | 0732 | 0733 | 0731 | 0732 | 0762 | 0772 | 0773 | 0764 | 0771 | 0771 | 0755 | 0773 | 0766 | 0772 | 0753 | 0751 | 0759 | 0733 | 0775 | 0762 | 0772 | 0773 | 0766 | 0766 | 0773 | * TOTALS | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----|
| | ANIMAL ID | 00076 | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | 00098 | 00099 | 00100 | | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Sarcoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Nose | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Pleura | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Trachea | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | A | + | + | + | A | + | 39 | |
| Harderian Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Adenoma | | | | | | | | | | | | | | | X | | | | | | | | | | | | X | 5 |
| Carcinoma | | | | | | | | | | | | | | | X | | | | | | | | | | | | X | 4 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | X | 2 |
| Sarcoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Urethra | | | | | | | | | | | | | | | | | | | | | | | | | | | + | 3 |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | 45 |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE MALE
312.5 mg/l | DAY ON TEST | 0732 | 0731 | 0772 | 0767 | 0777 | 0766 | 0776 | 0776 | 0767 | 0777 | 0755 | 0777 | 0766 | 0777 | 0755 | 0755 | 0777 | 0766 | 0777 | 0777 | 0766 | 0766 | 0777 | * TOTALS |
|--------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| | ANIMAL ID | 0002 | 0001 | 0002 | 0007 | 0007 | 0002 | 0002 | 0004 | 0001 | 0001 | 0005 | 0002 | 0004 | 0007 | 0002 | 0003 | 0002 | 0005 | 0002 | 0002 | 0001 | 0002 | 0001 | |
| Multiple Organ | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | X | | | | | | 1 |
| 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

TDMS No. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------------|
| B6C3F1 MICE MALE | DAY ON TEST | 0551 | 0731 | 0732 | 0548 | 0654 | 0752 | 0456 | 0772 | 0773 | 0773 | 0773 | 0773 | 0560 | 0556 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0622 | 0522 | 0470 | 0731 | males
(cont...) |
| | ANIMAL ID | 0010 | 0011 | 0012 | 0014 | 0015 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gallbladder | A | + | + | + | A | A | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | A | + | + |
| Intestine Large, Cecum | + | + | + | A | A | A | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | A | + | + |
| Intestine Large, Colon | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | A | + | + | A | A | A | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | A | A | + | + |
| Intestine Small, Ileum | A | + | + | + | A | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum
Lymphoma Malignant | A | + | + | A | A | A | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatoblastoma | | | | X | | | | | X | | | | | | X | | X | | X | | | | | | |
| Hepatoblastoma, Multiple | | | | | X | | | | | | | | | | | | | | | | | | | | |
| Hepatocellular Adenoma | | | | | X | | | | | | X | | | | | | | | | X | | | | X | |
| Hepatocellular Adenoma, Multiple | X | X | X | | X | X | X | | X | X | | X | X | | X | X | | X | | X | X | X | X | | X |
| Hepatocellular Carcinoma | | | X | | X | | | | X | X | | | | | | | | | | | | | X | X | |
| Hepatocellular Carcinoma, Multiple | | | | | | | | X | | | | | | X | | X | | X | | X | X | | | | |
| Hepatocholangiocarcinoma | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

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

Pituitary Gland
Pars Distalis, Adenoma

+ +

Thyroid Gland

+ +

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis +

Preputial Gland +

Prostate + + + + + + + + + + + + + + + A + + + + + + + + + + +

Seminal Vesicle +

Testes
Interstitial Cell, Adenoma +
X

HEMATOPOIETIC SYSTEM

Bone Marrow + + + + + + + + + + + + + + + A + + + + + + + + + + +

Lymph Node, Mandibular +

Lymph Node, Mesenteric
Lymphoma Malignant + + + + A +
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

TDMS No. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE MALE
625 mg/l | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|-----------|--------------------|
| | 0551 | 0731 | 0732 | 0548 | 0654 | 0756 | 0772 | 0475 | 0772 | 0773 | 0773 | 0773 | 0773 | 0566 | 0556 | 0733 | 0733 | 0770 | 0771 | 0773 | 0622 | 0522 | 0470 | 0731 | | | |
| Spleen | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | | | |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Hepatoblastoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Subcutaneous Tissue, Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| Subcutaneous Tissue, Lipoma | | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Chondrosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Alveolar/Bronchiolar Adenoma | X | | | X | | | | | | | X | | | | | | | X | | | X | | X | | | | |
| Alveolar/Bronchiolar Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| Alveolar/Bronchiolar Carcinoma | | | | | | | X | | | X | | | | X | | | | | | X | X | | | | | | |
| Hepatoblastoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | 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. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE MALE
625 mg/l | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|---|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|---------------------------|--------------------|
| | 051 | 073 | 073 | 054 | 069 | 056 | 073 | 045 | 077 | 077 | 077 | 077 | 077 | 056 | 055 | 073 | 077 | 077 | 077 | 077 | 062 | 054 | 047 | 073 | 01 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 000000000000000000000000 | |
| | 5 | 7 | 7 | 5 | 6 | 5 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 6 | 5 | 4 | 7 | 1 | 000000000000000000000000 | |
| | 1 | 1 | 2 | 8 | 4 | 9 | 2 | 6 | 2 | 1 | 2 | 1 | 0 | 0 | 6 | 2 | 0 | 0 | 0 | 3 | 3 | 2 | 7 | 3 | 1 | 111111111111111111111111 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 000000000000000000000000 | |
| | 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 | 111111111111111111111111 | |
| | 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 | 000000000001111111112222 | |
| | 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 | 1234567890123456789012345 | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | X | X | | | | | X | | X | | X | | | | | | | | |
| Hepatocholangiocarcinoma, Metastatic, Liver | | | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | A | + | + | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | A | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | | | |
| Harderian Gland | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | | | |
| Adenoma | | | | | | | | | | | | | X | | | | | | | | | X | | | | | |
| Carcinoma | | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Hepatocholangiocarcinoma, Metastatic, Liver | | | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urethra | | | | + | | | | | | | | | | | | | | | | | | | | + | | | |
| Urinary Bladder | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | | | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| 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

TDMS No. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|
| B6C3F1 MICE MALE | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 5 | | 6 |
| | | 3 | 6 | 3 | 1 | 3 | 1 | 0 | 7 | 3 | 3 | 3 | 9 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 0 | 3 | 3 | 3 | 2 | 2 | | 8 |
| 625 mg/l | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 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 | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Gallbladder | + | A | + | A | + | + | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + | A | + | 39 | |
| Intestine Large, Cecum | + | A | + | A | + | A | A | A | + | + | A | + | + | + | + | + | + | + | + | + | + | A | A | 36 | |
| Intestine Large, Colon | + | A | + | A | + | + | A | A | + | + | A | + | + | + | + | + | + | + | + | + | + | A | A | 41 | |
| Intestine Large, Rectum | + | A | + | A | + | + | A | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A | 42 | |
| Intestine Small, Duodenum | + | A | + | A | + | + | A | A | + | + | A | + | + | + | + | + | + | + | + | + | + | A | A | 35 | |
| Intestine Small, Ileum | + | A | + | A | + | + | A | A | + | + | A | + | + | + | + | + | + | + | + | + | + | A | A | 39 | |
| Intestine Small, Jejunum | + | A | + | A | + | + | A | A | + | + | A | + | + | + | + | + | + | + | + | + | + | A | A | 37 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemangiosarcoma | X | | | | | | | | | | | | | | | | | | X | | | | | 3 | |
| Hepatoblastoma | | | | X | | | | X | | | | | | | | | | | X | | X | | | 9 | |
| Hepatoblastoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | X | 2 | |
| Hepatocellular Adenoma | | | | | X | X | X | | | | X | X | | | X | X | | | | | | | | 11 | |
| Hepatocellular Adenoma, Multiple | X | | X | | X | | | | X | X | X | | X | | X | X | | | X | | X | X | | 29 | |
| Hepatocellular Carcinoma | | X | X | X | | | | | | X | | | | X | | | X | | X | X | X | | X | 17 | |
| Hepatocellular Carcinoma, Multiple | | | | | | X | X | | | | | | | | | | | | | | | X | | 9 | |
| Hepatocholangiocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| 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. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE MALE
625 mg/l | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|---|----------|--|
| | 0731 | 0661 | 0731 | 0775 | 0772 | 0570 | 0767 | 0670 | 0772 | 0773 | 0773 | 0493 | 0735 | 0679 | 0772 | 0773 | 0773 | 0773 | 0773 | 0670 | 0733 | 0733 | 0627 | 0568 | 0685 | | |
| ANIMAL ID | 001267 | 000111 | 000111 | 000111 | 000111 | 000111 | 000111 | 000111 | 000111 | 000111 | 000111 | 000111 | 000111 | 000111 | 000111 | 000111 | 000111 | 000111 | 000111 | 000111 | 000111 | 000111 | 000111 | 000111 | 000111 | | |
| Pancreas | + | + | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Stomach, Forestomach
Squamous Cell Carcinoma | + | + | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 47
1 | | |
| Stomach, Glandular | + | A | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 43 | | |
| Tooth | + | + | + | | + | + | + | | + | + | | + | + | + | + | + | | + | + | + | + | | + | 42 | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart
Hepatocellular Carcinoma, Metastatic, Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
2 | | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex
Adenoma
Hepatocellular Carcinoma, Metastatic, Liver
Subcapsular, Adenoma | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1
1
5 | | |
| Adrenal Medulla
Hepatocellular Carcinoma, Metastatic, Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 | | |
| Islets, Pancreatic
Adenoma | + | + | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 48
1 | | |
| Parathyroid Gland | + | + | + | + | + | + | + | M | + | + | + | M | + | + | + | + | + | + | + | + | + | + | M | + | 44 | | |

* .. 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. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE MALE
625 mg/l | DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| | | 0731 | 0661 | 0731 | 0775 | 0775 | 0579 | 0767 | 0767 | 0773 | 0773 | 0493 | 0733 | 0665 | 0773 | 0773 | 0733 | 0733 | 0030 | 0733 | 0733 | 0627 | 0568 | 0685 | 0685 | |
| Pituitary Gland
Pars Distalis, Adenoma | | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 49
1 |
| Thyroid Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 49 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epididymis | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Preputial Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Prostate | | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Seminal Vesicle | | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Testes
Interstitial Cell, Adenoma | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Lymph Node, Mandibular | | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Lymph Node, Mesenteric
Lymphoma Malignant | | + | A | + | A | + | + | + | A | + | + | + | A | + | + | M | + | + | + | + | + | + | + | + | + | 43
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

TDMS No. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE MALE
625 mg/l | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--|
| | 0731 | 0661 | 0731 | 0775 | 0772 | 0579 | 0770 | 0670 | 0772 | 0773 | 0773 | 0493 | 0733 | 0675 | 0773 | 0773 | 0773 | 0773 | 0773 | 0673 | 0773 | 0673 | 0572 | 0675 | 0685 | | |
| ANIMAL ID | 00126 | 00017 | 00018 | 00019 | 00020 | 00021 | 00022 | 00023 | 00024 | 00025 | 00026 | 00027 | 00028 | 00029 | 00030 | 00031 | 00032 | 00033 | 00034 | 00035 | 00036 | 00037 | 00038 | 00039 | 00040 | | |
| Spleen Hemangiosarcoma | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | 47 | | |
| | X | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Thymus Hepatoblastoma, Metastatic, Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | M | 48 | | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 | |
| Skin Subcutaneous Tissue, Hemangiosarcoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Subcutaneous Tissue, Lipoma | X | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Chondrosarcoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung Alveolar/Bronchiolar Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Alveolar/Bronchiolar Adenoma, Multiple | | X | X | | X | | | | | X | | | | | X | X | | | | | | | | X | 14 | | |
| Alveolar/Bronchiolar Carcinoma | | | | X | | | | | | | | | | | | | X | | | | | | | X | 2 | | |
| Hepatoblastoma, Metastatic, Liver | | | | | | | | | X | | | | | | | | | | X | | | | X | 8 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 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. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE MALE
625 mg/l | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----------|
| | 0731 | 0661 | 0763 | 0771 | 0773 | 0575 | 0777 | 0676 | 0777 | 0777 | 0474 | 0777 | 0676 | 0777 | 0777 | 0777 | 0777 | 0777 | 0676 | 0777 | 0676 | 0575 | 0676 | | | |
| 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 | | |
| Hepatocellular Carcinoma, Metastatic, Liver | | X | | | | | | X | X | X | | | | | X | | X | | | X | | | | | | |
| Hepatocholangiocarcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | 12 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Trachea | + | A | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | A | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A | + | 43 | |
| Harderian Gland | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | |
| Adenoma | | | | | | | | X | | | | | | | | | | | | | | | | 3 | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | X | 2 | | |
| Hepatocholangiocarcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Renal Tubule, Carcinoma | | | | | | | | | | | | | | | | | | | | | | X | | 1 | | |
| Urethra | | | | | | | + | | | | | + | | | | | | | | | | + | | 5 | | |
| Urinary Bladder | + | A | + | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | 45 | | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 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

TDMS No. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------|
| B6C3F1 MICE MALE | DAY ON TEST | 0730 | 0732 | 0754 | 0772 | 0745 | 0777 | 0777 | 0777 | 0777 | 0777 | 0766 | 0775 | 0756 | 0755 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0766 | 0755 | males
(cont...) |
| | ANIMAL ID | 00151 | 00152 | 00153 | 00154 | 00155 | 00156 | 00157 | 00158 | 00159 | 00160 | 00161 | 00162 | 00163 | 00164 | 00165 | 00166 | 00167 | 00168 | 00169 | 00170 | 00171 | 00172 | 00173 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gallbladder | + | + | + | + | + | + | + | + | M | A | + | + | A | A | + | + | A | + | + | + | + | + | + | A |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | A | A | + | + | A | A | + | + | A | + | + | + | + | + | A | A |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | A | A | + | + | A | A | + | + | A | + | + | + | + | + | A | A |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | A | A | + | + | A | + | + | + | A | + | + | + | + | + | A | A |
| Intestine Small, Duodenum
Adenoma | + | + | + | + | + | + | + | + | A | A | + | + | A | A | + | + | A | + | + | + | + | + | A | A |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | A | A | + | + | A | A | + | + | A | + | + | + | + | + | A | A |
| Intestine Small, Jejunum
Adenoma | + | + | + | + | + | + | + | + | A | A | + | + | A | A | + | + | A | + | + | + | + | + | A | A |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cholangioma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatoblastoma | | | | | | | | | X | X | | | | | | | | | | | | | | |
| Hepatocellular Adenoma | | | X | | X | | X | | X | | | | X | X | | | | X | | X | X | | X | |
| Hepatocellular Adenoma, Multiple | X | X | | X | | | | | | | X | X | | | | X | | | | | | X | | X |
| Hepatocellular Carcinoma | X | | | | | | | | X | | | X | | | X | X | | | X | X | | X | | |
| Hepatocellular Carcinoma, Multiple | | | X | | | | | | | | X | | X | | | | X | | | | | | X | |
| Mesentery | | | | | | | | | + | | | | | | | | | | | | | | | |

* .. 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. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE MALE
1250 mg/l | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | |
|-------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------------|--|
| | 0 | 7 | 5 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 5 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 5 | 0 | 0 | | | |
| | | 3 | 7 | 3 | 3 | 6 | 3 | 3 | 3 | 3 | 1 | 7 | 3 | 3 | 8 | 2 | 3 | 3 | 0 | 3 | 1 | 3 | 3 | 3 | 9 | 7 | | | |
| | | 0 | 2 | 4 | 2 | 5 | 2 | 1 | 0 | 0 | 5 | 5 | 1 | 4 | 7 | 2 | 1 | 2 | 9 | 1 | 0 | 2 | 1 | 2 | 0 | 1 | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | | males
(cont...) | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Stomach, Forestomach
Squamous Cell Papilloma | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | A | + | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + | A | A | |
| Tooth | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adrenal Cortex
Subcapsular, Adenoma | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | X | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | |
| Parathyroid Gland | M | + | + | + | M | M | + | + | + | + | + | M | M | M | + | M | + | M | + | M | + | M | M | + | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

GENERAL BODY 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

TDMS No. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

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

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + |
| Testes
Interstitial Cell, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow
Hemangiosarcoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node
Mediastinal, Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Mediastinal, Hepatocellular Carcinoma,
Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Lymph Node, Mandibular
Hepatocellular Carcinoma, Metastatic, Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | A | + | + | + | M | + | + | + | A | + | + | + | + | + | A | + |
| Spleen | + | + | + | + | + | + | + | + | + | A | + | + | + | 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

TDMS No. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE MALE | DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | |
|------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|---|---|
| | | 7 | 7 | 5 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 5 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | | 6 | 5 | | |
| 1250 mg/l | | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 3 | 3 | 1 | 7 | 3 | 3 | 8 | 2 | 3 | 3 | 0 | 3 | 1 | 3 | 3 | 9 | 7 | |
| | | 0 | 2 | 4 | 2 | 5 | 2 | 1 | 0 | 0 | 5 | 5 | 1 | 4 | 7 | 2 | 1 | 2 | 9 | 1 | 0 | 2 | 1 | 2 | 1 | |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

Hemangiosarcoma

Thymus + + + + + + + + + A + + + + + + + + + M + M +
 Hepatocellular Carcinoma, Metastatic, Liver X

INTEGUMENTARY SYSTEM

Mammary Gland M

Skin +
 Subcutaneous Tissue, Fibrous Histiocytoma
 Subcutaneous Tissue, Hemangioma
 Subcutaneous Tissue, Hemangiosarcoma
 Subcutaneous Tissue, Lipoma X

MUSCULOSKELETAL SYSTEM

Bone +

NERVOUS SYSTEM

Brain +

RESPIRATORY SYSTEM

Lung +
 Alveolar/Bronchiolar Adenoma X
 Alveolar/Bronchiolar Adenoma, Multiple X
 Alveolar/Bronchiolar Carcinoma X X
 Alveolar/Bronchiolar Carcinoma, Multiple X
 Carcinoma, Metastatic, Harderian 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
 BLANK .. Not examined microscopically

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------------------|-------------|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B6C3F1 MICE MALE | DAY ON TEST | 7 | 7 | 5 | 7 | 4 | 7 | 7 | 7 | 7 | 6 | 7 | 5 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 5 |
| | | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 3 | 3 | 1 | 7 | 3 | 3 | 8 | 2 | 3 | 3 | 0 | 3 | 1 | 3 | 3 |
| 1250 mg/l | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 |
| | | males (cont...) | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | X | | X | | | | | | | | | | | | | | | X | |
| Nose Carcinoma, Metastatic, Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Pleura Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | X |
| Trachea | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

SPECIAL SENSES SYSTEM

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

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney Hepatocellular Carcinoma, Metastatic, Liver Renal Tubule, Adenoma, Multiple | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Urethra | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | |

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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

TDMS No. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE MALE
1250 mg/l | DAY ON TEST | 0
7
3
2 | 0
7
1
3 | 0
7
2
4 | 0
7
3
3 | 0
7
3
3 | 0
7
3
2 | 0
7
3
1 | 0
7
3
2 | 0
7
3
5 | 0
7
3
0 | 0
7
3
1 | 0
7
3
9 | 0
7
3
3 | 0
7
3
3 | 0
7
3
3 | 0
7
3
3 | 0
7
5
4 | 0
7
7
3 | 0
7
7
3 | 0
7
7
2 | 0
7
7
3 | 0
7
7
3 | 0
7
7
3 | 0
7
7
1 | 0
7
7
1 | * TOTALS | |
|-------------------------------|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|--|
| | ANIMAL ID | 0
0
1
7
6 | 0
0
1
7
7 | 0
0
1
7
8 | 0
0
1
7
9 | 0
0
1
8
0 | 0
0
1
8
1 | 0
0
1
8
2 | 0
0
1
8
3 | 0
0
1
8
4 | 0
0
1
8
5 | 0
0
1
8
6 | 0
0
1
8
7 | 0
0
1
8
8 | 0
0
1
8
9 | 0
0
1
9
0 | 0
0
1
9
1 | 0
0
1
9
2 | 0
0
1
9
3 | 0
0
1
9
4 | 0
0
1
9
5 | 0
0
1
9
6 | 0
0
1
9
7 | 0
0
1
9
8 | 0
0
1
9
9 | 0
0
1
9
0 | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Gallbladder | + | + | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 42 |
| Intestine Large, Cecum | + | A | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 40 |
| Intestine Large, Colon | + | A | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 40 |
| Intestine Large, Rectum | + | A | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 41 |
| Intestine Small, Duodenum
Adenoma | + | A | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 40
1 |
| Intestine Small, Ileum | + | A | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 40 |
| Intestine Small, Jejunum
Adenoma | + | A | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 40
1 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cholangioma, Multiple | | | X | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hepatoblastoma | | | | | | | | | | | | | | | | X | | | X | | | | | | | | | 4 |
| Hepatocellular Adenoma | | | | | | X | X | X | | | | | | | | | | | X | | | X | | | | | | 15 |
| Hepatocellular Adenoma, Multiple | X | X | X | | | X | X | | | | | | | | X | X | X | | X | | | X | X | | X | | | 20 |
| Hepatocellular Carcinoma | X | X | | | X | | | X | | | | | | | | | | | X | | X | | | | X | | | 15 |
| Hepatocellular Carcinoma, Multiple | | | | | | | | | | | | | X | | | | | X | | X | | | | | | | | 8 |
| 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. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE MALE
1250 mg/l | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--|
| | 0732 | 0733 | 0734 | 0730 | 0733 | 0733 | 0732 | 0731 | 0732 | 0735 | 0730 | 0737 | 0733 | 0739 | 0733 | 0733 | 0733 | 0731 | 0732 | 0734 | 0737 | 0733 | 0733 | 0731 | | |
| ANIMAL ID | 00176 | 00177 | 00178 | 00179 | 00180 | 00181 | 00182 | 00183 | 00184 | 00185 | 00186 | 00187 | 00188 | 00189 | 00190 | 00191 | 00192 | 00193 | 00194 | 00195 | 00196 | 00197 | 00198 | 00199 | 00200 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Stomach, Forestomach
Squamous Cell Papilloma | + | + | + | + | + | + | + | + | + | + | + | + | A
X | + | + | + | + | + | + | + | + | + | + | + | 47
3 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | 45 | |
| Tooth | + | + | + | + | | | + | + | | | | + | + | | + | + | + | + | + | + | + | + | + | + | 41 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex
Subcapsular, Adenoma | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48
3 | |
| Adrenal Medulla | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Parathyroid Gland | + | M | + | + | + | + | + | + | M | + | M | M | M | + | + | + | M | M | + | M | + | + | + | + | 31 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| GENERAL BODY 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

TDMS No. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE MALE
1250 mg/l | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|----------|-----------|--|
| | 0
7
3
2 | 0
7
1
3 | 0
7
2
4 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
7
3
2 | 0
7
3
1 | 0
7
3
2 | 0
4
2
5 | 0
7
3
0 | 0
7
3
1 | 0
3
9
9 | 0
7
3
0 | 0
7
3
0 | 0
7
3
1 | 0
7
3
2 | 0
5
3
4 | 0
7
3
2 | 0
7
1
7 | 0
7
3
2 | 0
7
3
1 | 0
7
3
1 | | | | |
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemangiosarcoma | 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 | |
| Thymus | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 47 | |
| Hepatocellular Carcinoma, Metastatic, Liver | 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 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Subcutaneous Tissue, Fibrous Histiocytoma | | | | | | | | | | | X | | | | | | | | | | | | | | 1 | | |
| Subcutaneous Tissue, Hemangioma | | | | | | | | | | | | | | | | | | | | | | | | X | 1 | | |
| Subcutaneous Tissue, Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | X | | 1 | | |
| Subcutaneous Tissue, Lipoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Alveolar/Bronchiolar Adenoma | X | | | X | X | | | X | | | | | | | | | | | | | | | | | 6 | | |
| Alveolar/Bronchiolar Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Alveolar/Bronchiolar Carcinoma | X | | | | | | | | | | | | | | | X | | | | | | | | X | 6 | | |
| Alveolar/Bronchiolar Carcinoma, Multiple | | | X | | | | | | | | | | | | | | | | | | X | | | | 3 | | |
| Carcinoma, Metastatic, Harderian Gland | | | | | | | | | | | | | | | | | | 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. 20009 - 04
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 09:52:35
First Dose M/F: 11/09/04 / 11/08/04
Lab: BAT

| | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|-------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|--|
| B6C3F1 MICE MALE | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 3 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | | 3 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 9 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | |
| | | 2 | 3 | 4 | 0 | 0 | 0 | 2 | 1 | 2 | 5 | 0 | 1 | 9 | 1 | 0 | 0 | 1 | 2 | 4 | 2 | 7 | 2 | 2 | 1 | |
| 1250 mg/l | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------|
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | X | X | 6 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Carcinoma, Metastatic, Harderian Gland | | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Pleura | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------|
| Eye | + | A | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | 40 | |
| Harderian Gland | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | X | 2 |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | X | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Renal Tubule, Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Urethra | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | |

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| 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

TDMS No. 20009 - 04
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 09:52:35
First Dose M/F: 11/09/04 / 11/08/04
Lab: BAT

*** END OF MALE DATA ***

* .. 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. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
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 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
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 Lab: BAT

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

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Gallbladder | + | + | A | + | + | A | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Large, Cecum | + | + | A | + | + | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Large, Colon | + | + | A | + | + | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Large, Rectum | + | + | A | + | + | A | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Small, Duodenum | + | + | A | + | + | A | A | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Small, Ileum | + | + | A | + | + | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Small, Jejunum
Lymphoma Malignant | + | + | A | + | + | A | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | |
| Liver | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hemangiosarcoma | | | | | | X | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatoblastoma | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocellular Adenoma | | | | | | X | X | | | | | X | | | | | | | | | | | | | | | | X | | | | | | X | | | |
| Hepatocellular Adenoma, Multiple | X | X | | | | | | X | X | X | X | | X | X | | X | X | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| Hepatocellular Carcinoma | | | | | | | X | | | | | | | | | | | | | | X | | X | | | | | | | | | | | | | | |
| Hepatocellular Carcinoma, Multiple | | | | | | X | | | | | | X | | X | | X | | | | | X | | | | | | | | | | | | | | | | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | X | | X | | | | X | | | | | | | | | | | X | X | X | | | | | | X | | | | | | | | | |
| Mesentery | | | | | | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | + | |

* .. 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. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | A | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | X | | | | | | | | | | | | | | | X | | X | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | |
| Stomach, Forestomach | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Stomach, Glandular | + | + | A | + | + | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adrenal Cortex | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | |
| Islets, Pancreatic | + | + | A | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Parathyroid Gland | M | + | A | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | M | M | + | + | + | + | + | + | + | + | |
| 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
0 mg/l | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | females
(cont...) |
|------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|
| | | 7 | 7 | 3 | 6 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | | |
| | | 3 | 3 | 7 | 8 | 2 | 7 | 9 | 3 | 2 | 3 | 3 | 2 | 3 | 4 | 3 | 2 | 3 | 3 | 6 | 2 | 3 | 3 | 6 | 3 | | |
| | | 1 | 1 | 2 | 0 | 9 | 4 | 8 | 1 | 9 | 0 | 1 | 6 | 1 | 7 | 0 | 9 | 0 | 1 | 8 | 9 | 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 | | | |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | | | |
| Pituitary Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Adenoma | | | | | | | | | | | | | | X | | | | | | X | | | | | | | |
| Thyroid Gland | | + | + | A | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | X | | | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Ovary | | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Cystadenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | X | | | | | | | | | | | | | | | X | | X | | | | | |
| Uterus | | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | X | | X | | | | | | | |
| Polyp Stromal | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Endometrium, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Hemangiosarcoma | | | | | | | | | | 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. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

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

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | | + | | | | | | | | | | + | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | X | X | X | | | | |
| Lymph Node, Mesenteric | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | X | X | X | | | X | |
| Spleen | + | + | A | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | X | | | | | X | | | | | | | | | | | X | X | X | | X | | |
| Thymus | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | X | X | X | | X | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Mast Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Hemangiosarcoma | | | | | | | | | | | X | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Sarcoma | | | | | | | | 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

TDMS No. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE FEMALE | 0 mg/l | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | females
(cont...) | |
|--|--------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|---|
| | | 7 | 7 | 3 | 6 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | | | 7 |
| | | 3 | 3 | 7 | 8 | 2 | 7 | 9 | 3 | 2 | 3 | 3 | 2 | 3 | 4 | 3 | 2 | 3 | 3 | 6 | 2 | 3 | 3 | 6 | 3 | 6 | 3 | 2 | 0 | |
| | | 1 | 1 | 2 | 0 | 9 | 4 | 8 | 1 | 9 | 0 | 1 | 6 | 1 | 7 | 0 | 9 | 0 | 1 | 8 | 9 | 0 | 0 | 9 | 0 | 1 | 2 | 9 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 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 | 6 | 0 | | |
| Eye | | + | + | A | + | + | A | A | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Carcinoma, Metastatic, Harderian Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Harderian Gland | | + | + | A | + | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Adenoma | | X | | | | | | | | X | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Lymphoma Malignant | | | | | X | | | | | | | | | | | | | | | | | X | X | | X | | | | | |
| Urinary Bladder | | + | + | A | + | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | X | X | | | | | | | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | 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

TDMS No. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|--|
| B6C3F1 MICE FEMALE | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | ANIMAL ID | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| 0 mg/l | | 4 | 8 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 2 | | |
| | | 3 | 2 | 1 | 9 | 9 | 1 | 9 | 0 | 0 | 0 | 1 | 1 | 0 | 9 | 0 | 1 | 9 | 1 | 8 | 9 | 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 | | |
| | | 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 | 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 | * TOTALS | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------|-----------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Gallbladder | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 43 | |
| Intestine Large, Cecum | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 44 | |
| Intestine Large, Colon | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 44 | |
| Intestine Large, Rectum | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 43 | |
| Intestine Small, Duodenum | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 42 | |
| Intestine Small, Ileum | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 44 | |
| Intestine Small, Jejunum | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 43 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Hepatoblastoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Hepatocellular Adenoma | | | X | X | | | | | X | X | | | | | | | | X | | | | | X | 11 | | |
| Hepatocellular Adenoma, Multiple | | | | | X | X | X | X | | | X | X | X | | X | | X | | | X | | | | 27 | | |
| Hepatocellular Carcinoma | | | | | | | | | | | | | | X | | | | | | X | | | X | 6 | | |
| Hepatocellular Carcinoma, Multiple | | | | | X | | | | | | | | | | | | | | | | | | | 5 | | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | X | | | | 1 | | |
| Lymphoma Malignant | | | | | | X | | | | | | | | | | X | | X | | | | | X | 11 | | |
| Mesentery | + | | | | | | + | | + | | | | | + | + | | | | | + | | | | | 8 | |

* .. 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. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE FEMALE
0 mg/l | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| | 0643 | 0682 | 0731 | 0779 | 0779 | 0771 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | |
| 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 | 0033 | 0033 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 48 |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Stomach, Forestomach | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 47 |
| Stomach, Glandular | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 45 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|----|
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 49 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 49 |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 48 |
| Parathyroid Gland | + | + | + | + | + | M | M | + | + | M | + | + | + | + | M | + | M | M | + | + | M | + | + | + | + | | 38 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | 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. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE FEMALE
0 mg/l | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|----------|
| | 0643 | 0682 | 0731 | 0779 | 0779 | 0771 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | | |
| 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 | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pars Distalis, Adenoma | | | | | | | | | | | | | | | | | | | X | | | X | | 4 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Cystadenoma | | | | | | | | | X | | | | | X | | | | | | | | X | | 3 | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | X | | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | X | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | X | | | 3 | |
| Polyp Stromal | | | | | | | | | | X | | | | | | | | | | | | | | 2 | |
| Endometrium, Adenoma | | | | | | | | | | | | | | | X | | | | | | | | | 1 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | 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. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|
| | 0643 | 0682 | 0731 | 0772 | 0779 | 0771 | 0777 | 0773 | 0779 | 0770 | 0779 | 0771 | 0773 | 0770 | 0779 | 0771 | 0773 | 0770 | 0779 | 0771 | 0773 | 0770 | 0779 | 0771 | | 0773 | 0770 |
| 0 mg/l | 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 | 0033 | 0033 | 0033 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymph Node | | | | | | + | | | | | | | | | | | | | | | | | | | | 6 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lumbar, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Mediastinal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Renal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Lymphoma Malignant | | | | | | X | | | | | | | | | | | | | | | | | | | | 9 | |
| Lymph Node, Mesenteric | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 46 | |
| Lymphoma Malignant | | | X | | | X | | | | | | | | | | | | | | | | X | | X | | 10 | |
| Spleen | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 46 | |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | X | | | X | | | | | | | | | | | | | | | | X | | X | | 10 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | 45 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | X | | | | 7 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Mast Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Subcutaneous Tissue, Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Subcutaneous Tissue, Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | 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

TDMS No. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

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

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Osteosarcoma | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | + | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | X | | | | 1 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | 1 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Alveolar/Bronchiolar Adenoma | | | | | | | | | | | | X | | | | | | | | | | | 5 |
| Alveolar/Bronchiolar Carcinoma | | | | | | X | | X | | | | | | | | | | | | X | | | 7 |
| Carcinoma, Metastatic, Harderian Gland | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | X | | | X | 6 |
| Sarcoma, Metastatic, Skin | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Trachea | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |

SPECIAL SENSES SYSTEM

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

TDMS No. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE FEMALE
0 mg/l | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------|----------|--|
| | 0643 | 0648 | 0673 | 0673 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | | |
| ANIMAL ID | 0022 | 0022 | 0022 | 0022 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | | |
| Eye
Carcinoma, Metastatic, Harderian Gland | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 43
1 | | |
| Harderian Gland
Adenoma | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | 45
2 | |
| Carcinoma | | | | | | | | | X | | | | | | | | | | | | | | | | 2 | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49
5 | |
| Urinary Bladder
Lymphoma Malignant | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | 44
2 | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ
Histiocytic Sarcoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 | |
| Lymphoma Malignant | | | X | | | X | | | | | | | | | X | | | X | | | | | | X | | 14 | |

* .. 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. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| B6C3F1 MICE FEMALE | DAY ON TEST | 0729 | 0685 | 0578 | 0578 | 0770 | 0773 | 0773 | 0773 | 0773 | 0773 | 0679 | 0752 | 0771 | 0776 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | females (cont...) |
| | 312.5 mg/l | 0051 | 0052 | 0053 | 0054 | 0055 | 0056 | 0057 | 0058 | 0059 | 0060 | 0061 | 0062 | 0063 | 0064 | 0065 | 0066 | 0067 | 0068 | 0069 | 0070 | 0071 | 0072 | 0073 | 0074 | 0075 | 0076 | |
| | ANIMAL ID | 0025 | 0025 | 0025 | 0025 | 0025 | 0025 | 0025 | 0025 | 0025 | 0025 | 0025 | 0025 | 0025 | 0025 | 0025 | 0025 | 0025 | 0025 | 0025 | 0025 | 0025 | 0025 | 0025 | 0025 | 0025 | 0025 | |

ALIMENTARY SYSTEM

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

* .. 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. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Pancreas | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | | |
| Lymphoma Malignant | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | A | + | + | A | + | + | + | + | + | + | + | + | + | A | A | + | A | + | + | + | + | + | + | + | + | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Tooth | | | | | | | | | | | | | | | | M | | | | | | | | | | | | |
| Gingiva, Fibroma, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Blood Vessel | | | | | | + | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Adrenal Cortex | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Adrenal Medulla | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma 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

TDMS No. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE FEMALE | 312.5 mg/l | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | |
|--------------------|------------|-----------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|------------------|
| | | 0
7
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9 | 0
6
8
5 | 0
5
8
8 | 0
7
2
9 | 0
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8 | 0
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3
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7
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9 | 0
7
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0 | 0
7
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0 | 0
7
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0 | 0
6
9
7 | 0
7
2
9 | 0
5
3
1 | 0
7
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1 | 0
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9 | 0
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3
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9 | | | 0
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7
2 | 0
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2
7
3 | 0
0
0
2
7
4 | 0
0
0
2
7
5 | |

Lumbar, Hemangiosarcoma
 Lumbar, Lymphoma Malignant
 Mediastinal, Lymphoma Malignant
 Pancreatic, Lymphoma Malignant
 Renal, Hemangiosarcoma
 Renal, Lymphoma Malignant

X
 X
 X

Lymph Node, Mandibular
 Lymphoma Malignant

+ A + + + + + + + + X X + + M + A + + + A + + +
 X X X

Lymph Node, Mesenteric
 Lymphoma Malignant

+ A + + A + + + + + X X + A + A + A + + + A + + +
 X X X

Spleen
 Hemangiosarcoma
 Lymphoma Malignant
 Mast Cell Tumor Malignant

+ + + + A + + + + + + + A + + A + A + + + + + + +
 X
 X X X X

Thymus
 Alveolar/Bronchiolar Carcinoma, Metastatic,
 Lung
 Lymphoma Malignant

+ + + + A + + + + + + + + + + M + A + + + + + + +
 X X X X

INTEGUMENTARY SYSTEM

Mammary Gland
 Carcinoma

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

Skin
 Subcutaneous Tissue, Fibrous Histiocytoma
 Subcutaneous Tissue, Hemangiosarcoma

+
 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. 20009 - 04
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 beta-Picoline
 CAS Number: 108-99-6

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 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | |
|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------------|----------------|--|
| | 07
29 | 06
85 | 05
88 | 07
29 | 05
08 | 07
70 | 07
77 | 07
77 | 07
77 | 07
77 | 07
77 | 06
67 | 07
79 | 05
53 | 07
71 | 07
73 | 06
68 | 07
73 | 07
72 | 07
73 | 07
70 | 07
72 | 07
79 | 07
73 | | | | |
| 312.5 mg/l | 00
25
51 | 00
02
55 | 00
02
55 | 00
02
55 | 00
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55 | 00
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55 | 00
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55 | 00
02
55 | 00
02
55 | 00
02
55 | 00
02
55 | 00
02
56 | 00
02
66 | 00
02
66 | 00
02
66 | 00
02
66 | 00
02
66 | 00
02
66 | 00
02
67 | 00
02
68 | 00
02
69 | 00
02
70 | 00
02
71 | 00
02
72 | 00
02
73 | 00
02
74 | 00
02
75 | |

Subcutaneous Tissue, Sarcoma

X X

MUSCULOSKELETAL SYSTEM

Bone +

NERVOUS SYSTEM

Brain + + + + + + + + + + + + + + M + + + + + + + +

RESPIRATORY SYSTEM

Lung +
 Alveolar/Bronchiolar Adenoma
 Alveolar/Bronchiolar Adenoma, Multiple X
 Alveolar/Bronchiolar Carcinoma X X
 Alveolar/Bronchiolar Carcinoma, Multiple
 Hepatocellular Carcinoma, Metastatic, Liver X X
 Lymphoma Malignant X X
 Mast Cell Tumor Malignant X

Nose + + + + A + + + + + + + + + + M + + + + + + + +

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

SPECIAL SENSES SYSTEM

Eye + A A + A + + + + + + + A + A M + A + + + A + + +

Harderian Gland Carcinoma + A + + A + + + + + + + + + M + A + + + 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

TDMS No. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE FEMALE | DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--------------------|-------------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
| | | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | |
| 312.5 mg/l | 0729 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Lymphoma Malignant
 Bilateral, Carcinoma

X

URINARY SYSTEM

Kidney
 Lymphoma Malignant
 Mast Cell Tumor Malignant

+ + + + A + + + + + + + + + + + + + + + + + + X + +

X

Urinary Bladder
 Lymphoma Malignant

+ A A + A + + + + + + A + A A + A + + + A + + + X

X

SYSTEMIC LESIONS

Multiple Organ
 Lymphoma Malignant

+ 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

TDMS No. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE FEMALE
312.5 mg/l | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | ANIMAL ID | 4 | 7 | 7 | 3 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | |
| | | 9 | 3 | 3 | 8 | 3 | 2 | 7 | 2 | 3 | 3 | 1 | 2 | 3 | 3 | 0 | 1 | 3 | 2 | 3 | 3 | 2 | 6 | 3 | | |
| | | 4 | 0 | 1 | 2 | 0 | 8 | 2 | 9 | 0 | 0 | 1 | 9 | 0 | 0 | 4 | 8 | 1 | 3 | 4 | 0 | 0 | 9 | 2 | | |
| | | 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 | 3 | | |
| | | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Gallbladder
Hepatoblastoma, Metastatic, Liver | A | + | + | A | + | A | A | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | A | + | 36
1 | |
| Intestine Large, Cecum | A | + | + | A | + | + | A | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | A | + | 36 | |
| Intestine Large, Colon | A | + | + | A | + | A | A | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | A | + | 35 | |
| Intestine Large, Rectum | A | + | + | A | + | A | A | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | A | + | 35 | |
| Intestine Small, Duodenum | A | + | + | A | + | A | A | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | A | + | 35 | |
| Intestine Small, Ileum | A | + | + | A | + | + | A | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | A | + | 36 | |
| Intestine Small, Jejunum | A | + | + | A | + | A | A | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | A | + | 35 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemangiosarcoma | | | | | | | | | | | | | X | | | | | | X | | | | | | 5 | |
| Hepatoblastoma | | | | | | | | | | | | | | | | | | | | | | | X | | 3 | |
| Hepatocellular Adenoma | | | | | | | | | | | | | X | | | | | X | | | X | | | | 3 | |
| Hepatocellular Adenoma, Multiple | X | X | X | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | | X | X | X | 43 |
| Hepatocellular Carcinoma | | | | | | | | | | X | | | | | | | | X | | X | | | | X | 13 | |
| Hepatocellular Carcinoma, Multiple | | | | | | | | X | | | | | | X | | | | X | | X | | | | | 7 | |
| Lymphoma Malignant | | | | X | | | | | | | X | | | | | X | X | | X | X | | X | | | 9 | |
| Mast Cell Tumor Malignant | | | | | | X | | | | | | | | | | | | | | | | | | | 1 | |
| Mesentery | | | | | + | + | + | | | + | | | | | + | | | | + | + | + | + | + | + | 16 | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
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 beta-Picoline
 CAS Number: 108-99-6

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 Lab: BAT

| B6C3F1 MICE FEMALE
312.5 mg/l | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|
| | 04 | 07 | 07 | 03 | 07 | 06 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 05 | 07 | 07 | 07 | 06 | 07 | | |
| ANIMAL ID | 09 | 03 | 03 | 08 | 03 | 02 | 07 | 02 | 03 | 03 | 01 | 02 | 03 | 03 | 03 | 00 | 01 | 03 | 03 | 02 | 03 | 02 | 06 | 03 | | |
| | 04 | 00 | 01 | 02 | 00 | 08 | 02 | 09 | 00 | 00 | 01 | 09 | 00 | 00 | 00 | 04 | 08 | 01 | 03 | 04 | 00 | 00 | 09 | 01 | | |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | |
| | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 23 | | | |
| | 77 | 77 | 77 | 77 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | | | |
| | 67 | 78 | | | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | | | |
| Pancreas
Lymphoma Malignant | A | + | + | A | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | A | + | 42 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Salivary Glands
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | 47 | |
| | | | | | | | | | | | | | | | | | | | | | | X | X | | 3 | |
| Stomach, Forestomach
Squamous Cell Carcinoma | + | + | + | A | + | A | A | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | 43 | |
| Stomach, Forestomach
Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | X | 1 | |
| Stomach, Glandular
Lymphoma Malignant | A | + | + | A | + | A | A | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | 39 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Tooth
Gingiva, Fibroma, Osseous | | | | | | | | | | | | | | | | | | | | | | | | + | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | X | 1 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | + | 3 |
| Heart
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | X | | | | | | | X | | | | | | | | | | | | | | 2 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | A | + | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | A | + | 45 |
| Adrenal Medulla
Pheochromocytoma Benign | + | + | + | A | + | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | A | 45 |
| Adrenal Medulla
Pheochromocytoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
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|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|--|
| | 04 | 07 | 07 | 03 | 07 | 06 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 05 | 07 | 07 | 07 | 06 | | 07 | |
| ANIMAL ID | 09 | 03 | 03 | 08 | 03 | 02 | 07 | 02 | 03 | 03 | 01 | 02 | 03 | 03 | 03 | 00 | 01 | 03 | 03 | 02 | 03 | 03 | 02 | 06 | 03 | | |
| | 04 | 00 | 01 | 02 | 00 | 08 | 02 | 00 | 00 | 00 | 01 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | |
| Islets, Pancreatic Adenoma | A | + | + | A | + | + | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | A | + | 41 | | |
| | | | | | | | | | | | | | | | X | | | | | | | | | | 1 | | |
| Parathyroid Gland | M | + | M | M | + | + | + | + | + | M | + | + | + | M | M | M | + | M | M | + | + | + | + | M | + | 34 | |
| Pituitary Gland Pars Distalis, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | 46 | |
| | X | | | | | | | | | | | | | | | | | | | | | | | X | | 5 | |
| Thyroid Gland | + | + | + | M | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | 45 | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Ovary Cystadenoma | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Uterus | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow Lymphoma Malignant | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | 46 | |
| Mast Cell Tumor Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymph Node Iliac, Mast Cell Tumor Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | 8 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |

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|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|----|---|
| | 0
4
9
4 | 0
7
3
0 | 0
7
3
1 | 0
3
8
2 | 0
7
3
0 | 0
6
2
8 | 0
6
7
2 | 0
7
9
9 | 0
7
2
0 | 0
7
3
0 | 0
7
3
1 | 0
7
3
2 | 0
7
3
3 | 0
7
3
0 | 0
7
7
4 | 0
7
7
8 | 0
5
3
3 | 0
7
2
4 | 0
7
3
0 | 0
7
3
3 | 0
7
2
9 | 0
6
6
2 | 0
7
3
1 | | | | |
| ANIMAL ID | 0
0
2
7
6 | 0
0
0
7
7 | 0
0
0
7
8 | 0
0
2
7
9 | 0
0
2
8
0 | 0
0
2
8
1 | 0
0
2
8
2 | 0
0
2
8
3 | 0
0
2
8
4 | 0
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8
5 | 0
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6 | 0
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2
8
7 | 0
0
2
8
8 | 0
0
2
8
9 | 0
0
2
9
0 | 0
0
2
9
1 | 0
0
2
9
2 | 0
0
2
9
3 | 0
0
2
9
4 | 0
0
2
9
5 | 0
0
2
9
6 | 0
0
2
9
7 | 0
0
2
9
8 | 0
0
2
9
9 | | | |
| Lumbar, Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 | |
| Lumbar, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | X | 3 |
| Mediastinal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Pancreatic, Lymphoma Malignant | | | | | | | | | | | | | | | | | | X | | | | | | | | | 1 |
| Renal, Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Renal, Lymphoma Malignant | | | | | | | | | | | | | | | | | X | | | | | | | | | X | 3 |
| Lymph Node, Mandibular
Lymphoma Malignant | A | + | M | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | M | + | | | 42 | |
| | | | | X | | | | | | | | | | | | | | | | | X | X | | | X | 10 | |
| Lymph Node, Mesenteric
Lymphoma Malignant | A | + | + | A | + | + | A | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | | 38 | |
| | | | | | | | | | | | | | | | | X | | | | | X | X | | | X | 9 | |
| Spleen
Hemangiosarcoma
Lymphoma Malignant
Mast Cell Tumor Malignant | A | + | + | A | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | | 42 | |
| | | | | | | | | | | | | X | | | | | | | | | X | X | | | X | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | X | 10 | |
| | | | | | | | X | | | | | | | | | | | | | | | | | | X | 1 | |
| Thymus
Alveolar/Bronchiolar Carcinoma, Metastatic,
Lung
Lymphoma Malignant | + | + | + | + | + | + | M | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | A | + | | 44 | |
| | | | | | | | | | | | | | | | | X | | | | | | | | | | 1 | |
| | | | | X | | | | | | | | | | | | | | | | | X | X | | | X | 11 | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|----|
| Mammary Gland
Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 49 |
| | | | | | | | | | | | | | | | | X | | | | | | | | | | | 1 |
| Skin
Subcutaneous Tissue, Fibrous Histiocytoma
Subcutaneous Tissue, Hemangiosarcoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| | | | | | | | | | | | | | | | | X | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
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|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|----|
| | 04 | 07 | 07 | 03 | 07 | 06 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 05 | 07 | 07 | | 07 | 06 | 07 | |
| ANIMAL ID | 09 | 03 | 03 | 08 | 03 | 02 | 07 | 02 | 03 | 03 | 01 | 02 | 03 | 03 | 00 | 01 | 03 | 03 | 02 | 03 | 03 | 02 | 03 | | |
| | 04 | 00 | 01 | 02 | 00 | 08 | 02 | 00 | 00 | 00 | 01 | 09 | 00 | 00 | 00 | 04 | 08 | 01 | 03 | 04 | 00 | 00 | 01 | | |
| Subcutaneous Tissue, Sarcoma | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 2 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | 47 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Alveolar/Bronchiolar Adenoma | | | X | | | | X | | | | X | | | | X | | | X | | | | | | 5 | |
| Alveolar/Bronchiolar Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Alveolar/Bronchiolar Carcinoma | | X | | | | | | | X | | | | | | | | | | | | | X | | 6 | |
| Alveolar/Bronchiolar Carcinoma, Multiple | | | | | | | | | | | | X | | X | | | | | | | | | | 2 | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | X | | | | | | X | | | X | | | | 5 | |
| Lymphoma Malignant | | | X | | | | | | X | | | | | | | | | X | X | | | | | 6 | |
| Mast Cell Tumor Malignant | | | | | | X | | | | | | | | | | | | | | | | | | 1 | |
| Nose | A | + | + | A | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | M | + | 44 |
| Trachea | A | + | + | A | + | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | M | + | 41 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | A | + | + | A | + | A | A | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | M | + | 35 |
| Harderian Gland Carcinoma | A | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | M | + | 41 |
| | | | | | | | | | | | | | | | X | | | | | | | | | | 1 |

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

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Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

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

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gallbladder | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A | A | A | + | + |
| Intestine Large, Cecum
Carcinoma
Lymphoma Malignant | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + |
| Intestine Large, Colon
Histiocytic Sarcoma | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + |
| Intestine Large, Rectum | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + |
| Intestine Small, Duodenum | + | + | A | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + |
| Intestine Small, Ileum | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + |
| Intestine Small, Jejunum
Lymphoma Malignant | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemangiosarcoma | | | | | | | | | | | X | | | | | | | | | | | | | X |
| Hepatoblastoma | | | | | | | | X | | | | | | | | | | | | | | | | |
| Hepatoblastoma, Multiple | | | | | | | | | | | | | | | | | | | | X | | | | |
| Hepatocellular Adenoma | | | | | X | | X | | | | | | X | | | | | | | | | | | |
| Hepatocellular Adenoma, Multiple | X | X | X | X | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | X | X |
| Hepatocellular Carcinoma | | | X | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | X | X |
| Hepatocellular Carcinoma, Multiple | X | | | | X | | X | X | | | | X | | | X | | | | X | | | | | X |
| 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

TDMS No. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE FEMALE
625 mg/l | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
| | 0729 | 0731 | 0704 | 0704 | 0701 | 0709 | 0700 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0703 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0706 | 0706 | 0707 | 0707 | | |
| 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 | |
| Lymphoma Malignant | | | | X | | | | | | | | | | X | | | | | | | | | | | | |
| Rhabdomyosarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | + | | + | | | + | | + | + | | | | + | + | | | | + | | + | | |
| Lipoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rhabdomyosarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Rhabdomyosarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | |
| Squamous Cell Papilloma | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | |
| Tooth | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. 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. 20009 - 04

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 05/27/2011

Time Report Requested: 09:52:35

First Dose M/F: 11/09/04 / 11/08/04

Lab: BAT

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | X | | | | |
| Lymphoma Malignant | | | | X | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | X | | | | |
| Pheochromocytoma Complex | | | | X | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + |
| Parathyroid Gland | + | + | + | + | M | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + |
| Pars Distalis, Adenoma | | | | | | | | | | | | | | | | | | | | | X | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------------|
| B6C3F1 MICE FEMALE | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 |
| | | 2 | 3 | 0 | 0 | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 0 | 3 | 2 | 3 | 2 | 2 | 3 | 1 | 4 | 4 | 3 | 3 | 3 |
| 625 mg/l | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 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 | 0 | 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 | | females
(cont...) |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Lymphoma Malignant | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| Cervix, Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deep Cervical, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Renal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Lymphoma Malignant | X | | | | X | | | | | | | X | | | | | X | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Lymphoma Malignant | X | | | | X | | | | | | | | X | | | | X | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Lymphoma Malignant | 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

TDMS No. 20009 - 04
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 09:52:35
First Dose M/F: 11/09/04 / 11/08/04
Lab: BAT

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

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | X | |
| Lymphoma Malignant | X | | | X | | | | | | X | | | X | | | | | | | | | | |
| Rhabdomyosarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | X | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Subcutaneous Tissue, Rhabdomyosarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Sarcoma | | | | | | | | | | | | | | | | | | | | | | X | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

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

* .. 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. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE FEMALE
625 mg/l | DAY ON TEST | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | | | | | | | | |
|--------------------------------|-------------|------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------|------|------|------|------|------|---|---|---|---|
| | 0729 | 0731 | 0734 | 0734 | 0735 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | 2 | 3 | 0 | 0 | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 0 | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 1 | 4 | 4 | 3 | 1 | 4 | 4 | 4 | 3 | 1 | 4 | 4 | 3 | 3 | 3 | 3 | | |
| | 9 | 1 | 4 | 4 | 1 | 9 | 0 | 9 | 0 | 1 | 9 | 1 | 9 | 0 | 9 | 1 | 9 | 0 | 9 | 1 | 9 | 0 | 2 | 3 | 9 | 0 | 9 | 0 | 9 | 0 | 9 | 0 | 9 | 0 | 9 | 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 | 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 | 3 | 3 | 3 | 3 | 3 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

Carcinoma, Metastatic, Harderian Gland
 Hepatocellular Carcinoma, Metastatic, Liver
 Histiocytic Sarcoma
 Lymphoma Malignant
 Sarcoma, Metastatic, Skin

Nose
 Trachea

SPECIAL SENSES SYSTEM

Eye
 Harderian Gland
 Adenoma
 Carcinoma

URINARY SYSTEM

Kidney
 Histiocytic Sarcoma
 Lymphoma Malignant
 Urinary Bladder
 Lymphoma Malignant

SYSTEMIC LESIONS

Multiple Organ
 Histiocytic Sarcoma

* .. 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. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

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 Lab: BAT

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | females
(cont...) |
|---------------------------|-----------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------------|
| B6C3F1 MICE FEMALE | DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | | |
| | 625 mg/l | 2 | 3 | 0 | 0 | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 0 | 3 | 2 | 3 | 2 | 2 | 3 | 1 | 4 | 4 | 3 | |
| | | ANIMAL ID | 9 | 1 | 4 | 4 | 1 | 9 | 0 | 9 | 9 | 0 | 1 | 9 | 1 | 9 | 0 | 9 | 1 | 9 | 9 | 0 | 2 | 3 | 7 | 3 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | | |
| Lymphoma Malignant | | 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

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P04: NEOPLASMS BY INDIVIDUAL ANIMAL

beta-Picoline

CAS Number: 108-99-6

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First Dose M/F: 11/09/04 / 11/08/04

Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------------|
| B6C3F1 MICE FEMALE
625 mg/l | DAY ON TEST | 07 | 06 | 06 | 05 | 07 | 07 | 07 | 07 | 07 | 05 | 07 | 07 | 07 | 07 | 07 | 07 | 06 | 07 | 07 | 06 | 06 | 07 | * TOTALS |
| | | 29 | 48 | 20 | 49 | 31 | 31 | 30 | 29 | 30 | 12 | 32 | 32 | 39 | 30 | 31 | 30 | 70 | 71 | 73 | 13 | 86 | 73 | |
| | ANIMAL ID | 000326 | 000337 | 000338 | 000339 | 000340 | 000341 | 000342 | 000343 | 000344 | 000345 | 000346 | 000347 | 000348 | 000349 | 000350 | 000351 | 000352 | 000353 | 000354 | 000355 | 000356 | 000357 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Esophagus | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Gallbladder | + | A | A | A | + | + | + | + | + | + | A | + | + | + | + | + | A | + | A | + | A | A | A | + | 36 |
| Intestine Large, Cecum
Carcinoma | + | A | A | A | + | + | + | + | + | + | A | + | + | + | + | + | A | + | A | + | + | A | A | + | 38 |
| Lymphoma Malignant | | | | | X | | | | | | | | | | | | | | | | | | X | | 1 |
| Intestine Large, Colon
Histiocytic Sarcoma | + | A | + | A | + | + | + | + | + | + | A | + | + | + | + | + | A | + | A | + | A | A | A | + | 40 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Intestine Large, Rectum | + | A | A | A | + | + | + | + | + | + | A | + | + | + | + | + | A | + | A | + | A | A | A | + | 37 |
| Intestine Small, Duodenum | + | A | A | A | + | + | + | + | + | + | A | + | + | + | + | + | A | + | A | + | A | A | A | + | 36 |
| Intestine Small, Ileum | + | A | A | A | + | + | + | + | + | + | A | + | + | + | + | + | A | + | A | + | A | A | A | + | 37 |
| Intestine Small, Jejunum
Lymphoma Malignant | + | A | A | A | + | + | + | + | + | + | A | + | + | + | + | + | A | + | A | + | A | A | A | + | 37 |
| | | | | | | | | | | X | | | | | | | | | | | | | | | 2 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | X | | | | | | | 3 |
| Hepatoblastoma | | | | | X | | | | | | | | | | | | | X | | | | | | | 3 |
| Hepatoblastoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hepatocellular Adenoma | | X | | X | X | X | | | | X | | | | | | | X | | | | | X | | | 10 |
| Hepatocellular Adenoma, Multiple | X | | X | X | X | X | X | X | X | | X | X | X | X | X | X | | X | | X | | | X | | 36 |
| Hepatocellular Carcinoma | | X | X | X | X | | | | | | | | | X | X | | | | | X | | | | X | 16 |
| Hepatocellular Carcinoma, Multiple | | | | | | | | | | | | | | | | | | X | | | | | | | 10 |
| 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

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 beta-Picoline
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 Lab: BAT

| B6C3F1 MICE FEMALE
625 mg/l | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0729 | 0648 | 0660 | 0549 | 0771 | 0777 | 0777 | 0777 | 0777 | 0577 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0676 | 0777 | 0777 | 0777 | 0666 | 0667 | 0777 | |
| ANIMAL ID | 00326 | 00332 | 00332 | 00332 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | |
| Lymphoma Malignant | | | | | | | | | | X | | | | | | | | | | | | X | X | | |
| Rhabdomyosarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | X | | | | | | | |
| Mesentery | | + | | | | | | | | | | | | + | + | | | | | | | + | + | | |
| Lipoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | X | | | |
| Rhabdomyosarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | X | | | | | | | |
| Pancreas | + | A | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | X | | | |
| Rhabdomyosarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | X | | | | | | | |
| Salivary Glands | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | | |
| Tooth | | | | M | | | | | | | | | + | | | | + | | | | | | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | + | | | |
| Heart | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
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|-----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|------|
| | 0729 | 0648 | 0624 | 0549 | 0771 | 0771 | 0777 | 0777 | 0777 | 0777 | 0577 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0677 | 0777 | 0777 | | 0667 | 0667 | 0773 |
| ANIMAL ID | 00326 | 00332 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | |
| Uterus | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Cervix, Sarcoma | | | | | X | | | | | | | | | | | | | | | | | | | 1 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymph Node | | | | | | | | | | + | | | | | | | | | | | + | | | 6 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Deep Cervical, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lumbar, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | X | | | 2 |
| Mediastinal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Renal, Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Renal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | X | | 2 |
| Lymph Node, Mandibular | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | M | + | + | + | 47 |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | X | | | | | | | | | | | X | X | | 7 |
| Lymph Node, Mesenteric | + | A | + | A | + | + | + | + | + | A | + | + | + | + | + | + | + | A | + | A | + | + | + | 45 |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | X | | | | | | | | | | | X | X | | 7 |
| Spleen | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | A | 45 |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | X | | | | | | | | | | | X | X | | 9 |

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

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|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|----------|
| | 0729 | 0648 | 0624 | 0549 | 0771 | 0771 | 0777 | 0777 | 0777 | 0777 | 0577 | 0777 | 0777 | 0777 | 0777 | 0777 | 0676 | 0777 | 0777 | 0777 | 0666 | 0666 | 0773 | | |
| ANIMAL ID | 00326 | 00327 | 00328 | 00329 | 00330 | 00331 | 00332 | 00333 | 00334 | 00335 | 00336 | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346 | 00347 | 00348 | | |
| Thymus | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 48 |
| Hemangiosarcoma | | | | | | | | | | | | X | | | | | | | | | | | | | 1 |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | X | | | | | | | | | | X | X | | | 7 |
| Rhabdomyosarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | X | | | | | | | | 1 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|
| Mammary Gland | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Subcutaneous Tissue, Rhabdomyosarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | X | | | | | | | 1 | |
| Subcutaneous Tissue, Sarcoma | | | X | | X | | | | | | | | | | | | | | | | | X | | 4 | |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain | + | A | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | 47 |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Lung | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Alveolar/Bronchiolar Adenoma | X | | | | | | X | X | | | | | | | | | | | | | | X | | 4 |
| Alveolar/Bronchiolar Carcinoma | | | | | | | | | X | | X | | | | X | X | | | | | | X | | 8 |
| Alveolar/Bronchiolar Carcinoma, Multiple | | | | | | | | | 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
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|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|------|----|----|
| | 0729 | 0648 | 0620 | 0549 | 0771 | 0771 | 0777 | 0777 | 0777 | 0777 | 0572 | 0772 | 0772 | 0772 | 0772 | 0772 | 0772 | 0676 | 0777 | 0777 | | 0667 | 0667 | 0773 | | |
| ANIMAL ID | 00326 | 00332 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | | | |
| Carcinoma, Metastatic, Harderian Gland | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Hepatocellular Carcinoma, Metastatic, Liver | | X | X | | | | | | | | | | | | | | | | X | | | | | 8 | | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | X | X | | 4 | | |
| Sarcoma, Metastatic, Skin | | | | | | | | | | | | | | | | | | | | | | X | | 1 | | |
| Nose | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Trachea | + | A | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | A | + | 45 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | A | A | M | + | + | + | + | + | + | A | + | + | + | + | + | + | A | + | M | + | M | M | A | + | 36 |
| Harderian Gland Adenoma | + | + | + | M | + | + | + | + | + | + | A | + | + | + | + | + | + | A | + | M | + | + | + | A | + | 43 |
| Harderian Gland Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 6 | |
| Urinary Bladder | + | A | A | A | + | + | + | + | + | + | A | + | + | + | + | + | + | A | + | A | + | A | + | A | + | 39 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| 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

TDMS No. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE FEMALE
1250 mg/l | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----|----|
| | 0729 | 0731 | 0731 | 0731 | 0732 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | | | |
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00376 | 00377 | 00378 | 00379 | 00380 | 00381 | 00382 | 00383 | 00384 | 00385 | 00386 | 00387 | 00388 | 00389 | 00390 | 00391 | 00392 | 00393 | 00394 | 00395 | 00396 | 00397 | 00398 | 00399 | 00400 | | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | X | | | | | | | | | X | X | X | | | | | | X | | 7 | |
| Osteosarcoma, Metastatic, Bone | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Mesentery Sarcoma | + | | + | | | | + | | | + | | | | | | | | | | | | | | + | | 9 | |
| Pancreas Lymphoma Malignant | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | A | 45 | |
| Pancreas Sarcoma, Metastatic, Mesentery | | | | | | | X | | | | | | | | | | | | | | | | | | | 2 | |
| Pancreas Sarcoma, Metastatic, Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Stomach, Forestomach Squamous Cell Papilloma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | A | 41 |
| Tongue Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Tongue Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Tooth | | | | | | | | | + | | + | | | | | + | | + | | | | | | | | 9 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart Hemangiosarcoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Heart Pericardium, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung | | | | | | | | | | | | | | | | | | | | | | | X | | | 1 | |
| Heart Pericardium, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| ENDOCRINE 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

TDMS No. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE FEMALE
1250 mg/l | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--|--|
| | 0729 | 0731 | 0731 | 0731 | 0732 | 0733 | 0733 | 0733 | 0733 | 0734 | 0734 | 0734 | 0734 | 0734 | 0734 | 0734 | 0734 | 0734 | 0734 | 0734 | 0734 | 0734 | 0734 | 0734 | | | |
| ANIMAL ID | 00076 | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | 00098 | 00099 | 00100 | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Adenoma | | | | | | | X | | | | | | | | | | | | | | | | | | 1 | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | X | | | 1 | | |
| Sarcoma, Metastatic, Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | X | | | 1 | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A | + | + | A | 45 | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | M | + | + | + | M | + | M | + | + | + | + | M | M | + | + | + | 41 | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | I | + | + | + | + | + | A | + | + | 46 | | |
| Pars Distalis, Adenoma | X | | | | | | | X | | | | | | | | | | | | | | | X | | 3 | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Follicular Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | X | | | | 1 | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | | |
| Cystadenoma | X | | X | | | | | | | X | | | | | | | | | | | | | | | 6 | | |
| Hemangioma | | | | | | | | | | | | | | | | | | | | 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. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE FEMALE
1250 mg/l | DAY ON TEST | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|--|-------------|------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|--|
| | 0729 | 0772 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | | 0773 | 0773 | 0773 | |
| Spleen | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | A | 46 | |
| Fibrosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Lymphoma Malignant | | | | | | | | X | | | | X | | X | | X | X | | | | | | | X | 11 | | |
| Thymus | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | 47 | |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Lymphoma Malignant | | | | | | | | | | | | | | X | | X | X | | | | | | | X | 9 | | |
| Sarcoma, Metastatic, Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Subcutaneous Tissue, Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Osteosarcoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Sarcoma, Metastatic, Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | 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. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE FEMALE
1250 mg/l | DAY ON TEST | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|---------------------------------|-------------|------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|
| | 0729 | 0731 | 0731 | 0732 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | | 0733 | 0733 | 0733 |
| | 0 | 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 | |
| | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 6 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 3 | 9 | 4 | |
| | 9 | 1 | 1 | 1 | 9 | 1 | 1 | 0 | 0 | 4 | 9 | 9 | 9 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 4 | 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 | | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | |

Spinal Cord 1

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Alveolar/Bronchiolar Adenoma | | | | | | | | | | | X | | | | | | | | | | | | | | 10 | |
| Alveolar/Bronchiolar Adenoma, Multiple | | | | | | | | | | | | | | | X | | | | | | | | | | 1 | |
| Alveolar/Bronchiolar Carcinoma | | | X | | | | | | | X | | | | | X | | | | | | X | | | | 9 | |
| Alveolar/Bronchiolar Carcinoma, Multiple | | | | | X | | | X | | | | | | X | X | | | | | | | | | | 4 | |
| Hepatoblastoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Lymphoma Malignant | | | | | | | | | | | | | X | | X | | | | | | | X | | | 4 | |
| Osteosarcoma, Metastatic, Bone | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Sarcoma, Metastatic, Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | 47 | |
| Pleura | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Trachea | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | 44 |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | A | + | A | 39 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 47 |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Carcinoma | X | | | | | | | X | | | | | 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

TDMS No. 20009 - 04
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:35
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
|---------------------------|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|--|--|
| B6C3F1 MICE FEMALE | DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 4 | 6 | 5 | 7 | 5 | | |
| | 1250 mg/l | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 6 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 7 | 3 | 9 | 4 | 0 | 3 | 8 | | |
| | ANIMAL ID | 9 | 1 | 1 | 1 | 9 | 1 | 1 | 0 | 4 | 9 | 9 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 4 | 1 | 9 | 0 | 6 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | | | |
| | | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | * TOTALS | | |

Zymbal's Gland
 Lymphoma Malignant

+
 X

1
 1

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------|
| Kidney | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | X | | | | X | | | | | | | X | | 6 | |
| Osteosarcoma, Metastatic, Bone | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Renal Tubule, Adenoma | | | | | | | | | | | | | | | | | | | | | | | X | | 1 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | A | + | + | + | M | + | + | + | + | + | + | + | + | A | + | + | 41 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | X | | | | | | | X | | 3 | |

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | X | | | | X | X | X | X | | | | | | | X | | 13 | |

*** END OF REPORT ***

* .. 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