

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 09:52:36
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

Note: Animals arranged according to days on test.

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

ALIMENTARY SYSTEM

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

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B6C3F1 MICE MALE		DAY ON TEST																				ANIMAL ID	males (cont...)					
		04	04	04	04	04	05	05	05	05	05	05	05	05	05	05	05	05	05	06	06			06	06	06	06	06
0 mg/l		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
		03	02	01	04	04	04	00	01	04	00	01	00	02	02	03	04	02	03	01	04	00	01	03	00	01	00	
		00	08	04	00	01	09	05	03	08	02	08	06	06	09	01	06	07	03	07	03	09	09	09	04	02	00	

Hepatocarcinoma, Metastatic, Liver

X

Salivary Glands

+ +

Stomach, Forestomach

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

Stomach, Glandular

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

Tooth

+ + + + + + + + + + + + + + + + + + + +

CARDIOVASCULAR SYSTEM

Heart

+ +

Hemangiosarcoma

X

Hepatocarcinoma, Metastatic, Liver

X

Sarcoma, Metastatic, Uncertain Primary Site

X

ENDOCRINE SYSTEM

Adrenal Cortex

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

Subcapsular, Adenoma

X

Adrenal Medulla

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

Islets, Pancreatic

A +

Adenoma

X

Parathyroid Gland

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

Pituitary Gland

+ + + + + + + + + + + + + + + + A M + + M + + +

Thyroid Gland

A +

Follicular Cell, Adenoma

* .. Total animals with tissue examined microscopically; Total animals with tumor
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 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 | | | |
| B6C3F1 MICE MALE | | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | males (cont...) | | | |
| | | 0 | 4 | 5 | 5 | 6 | 0 | 0 | 1 | 2 | 4 | 4 | 6 | 6 | 8 | 9 | 9 | 9 | 1 | 1 | 2 | 2 | 4 | | 4 | 7 | 0 |
| | 0 mg/l | 2 | 1 | 5 | 5 | 0 | 5 | 8 | 9 | 4 | 3 | 3 | 2 | 7 | 5 | 0 | 4 | 6 | 3 | 9 | 4 | 7 | 6 | | 8 | 7 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 3 | 2 | 1 | 4 | 4 | 4 | 0 | 1 | 4 | 0 | 1 | 0 | 2 | 2 | 3 | 4 | 2 | 3 | 1 | 4 | 0 | 1 | 3 | 0 | 1 | |
| | | 0 | 8 | 4 | 0 | 1 | 9 | 5 | 3 | 8 | 2 | 8 | 6 | 6 | 9 | 1 | 6 | 7 | 3 | 7 | 3 | 9 | 9 | 4 | 2 | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | X | | | X | | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hepatocholangiocarcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Rhabdomyosarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
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| B6C3F1 MICE MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 0 mg/l | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | |
| | 0 | 4 | 5 | 5 | 6 | 0 | 0 | 1 | 2 | 4 | 4 | 6 | 6 | 8 | 9 | 9 | 9 | 1 | 1 | 2 | 2 | 4 | 4 | 7 | 0 | |
| | 2 | 1 | 5 | 5 | 0 | 5 | 8 | 9 | 4 | 3 | 3 | 2 | 7 | 5 | 0 | 4 | 6 | 3 | 9 | 4 | 7 | 6 | 8 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 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 | 2 | 1 | 4 | 4 | 4 | 0 | 1 | 4 | 0 | 1 | 0 | 2 | 2 | 3 | 4 | 2 | 3 | 1 | 4 | 0 | 1 | 3 | 0 | 1 | |
| | 0 | 8 | 4 | 0 | 1 | 9 | 5 | 3 | 8 | 2 | 8 | 6 | 6 | 9 | 1 | 6 | 7 | 3 | 7 | 3 | 9 | 9 | 9 | 4 | 2 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | A | A | A | + | + | + |
| Spleen | A | A | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | X | | | | | | |
| Thymus | A | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | A | + | A | + | + | + | + |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocholangiocarcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | X | | | | | 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 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Subcutaneous Tissue, Fibrous Histiocytoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Hemangioma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rhabdomyosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
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| B6C3F1 MICE MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------------|--------------------|--------------------|
| | 0
4
0
2 | 0
4
4
1 | 0
4
5
5 | 0
4
5
5 | 0
4
6
0 | 0
5
0
5 | 0
5
0
8 | 0
5
0
9 | 0
5
1
4 | 0
5
2
4 | 0
5
4
3 | 0
5
4
3 | 0
5
6
2 | 0
5
6
7 | 0
5
8
5 | 0
5
9
0 | 0
6
1
4 | 0
6
1
3 | 0
6
2
4 | 0
6
2
7 | 0
6
4
6 | 0
6
4
8 | 0
6
7
0 | 0
6
7
0 | | |
| 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
3
0 | males
(cont...) | |

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

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nose Hemangiosarcoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | X | | | |

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

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | A | + | A | + | + | + | A | A | + | + | A | A | A | + | + | A | A | A | A | A | A | + | + | + |
| Harderian Gland Adenoma | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | A | + | + | + |
| Carcinoma | | | | | | | | | | | | | | | | | | | | X | X | | | |
| Rhabdomyosarcoma, Metastatic, Skeletal Muscle | | | | | | X | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney Hepatocellular Carcinoma, Metastatic, Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | X | | |
| Urethra | | + | + | | | | | | | + | | | | | | | | | | | | | | |
| Urinary Bladder | A | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | A | + | A | + | + | + |

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| B6C3F1 MICE MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|--|
| | 0717 | 0730 | 0731 | 0733 | 0735 | 0737 | 0739 | 0741 | 0743 | 0745 | 0747 | 0749 | 0751 | 0753 | 0755 | 0757 | 0759 | 0801 | 0803 | 0805 | 0807 | 0809 | 0811 | 0813 | 0815 | | |
| 0 mg/l | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0047 | 0006 | 0001 | 0000 | 0001 | 0001 | 0005 | 0000 | 0004 | 0006 | 0007 | 0008 | 0002 | 0004 | 0005 | 0000 | 0003 | 0007 | 0008 | 0001 | 0002 | 0003 | 0005 | 0002 | 0004 | 0005 | |
| Alveolar/Bronchiolar Carcinoma | X | | | | X | X | | | | X | | | | | | | | X | X | | | | | | | | |
| Carcinoma, Metastatic, Harderian Gland | | | | | | | | | | | | | | | | | | X | | | | | | | | | |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatoblastoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | X | | | | | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | X | | | X | | | | | X | | | | X | X | | | | X | | X | | | |
| Hepatocholangiocarcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rhabdomyosarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | X | | | | | |
| Sarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Adenoma | | | | | | | | | | | | | | | X | | | | | | X | | | | | | |
| Carcinoma | | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| Rhabdomyosarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | X | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urethra | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 09:52:36
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 |
|------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | | 7 | 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 | ANIMAL ID | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 7 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 4 | 1 | 0 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 5 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 3 |
| | | 7 | 6 | 1 | 0 | 1 | 5 | 0 | 4 | 6 | 7 | 8 | 2 | 4 | 5 | 0 | 3 | 7 | 8 | 1 | 2 | 3 | 5 | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Mesothelioma Benign | | | | | | | | | | | | | | | | | | | | | | | | | 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

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

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

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Gallbladder | A | + | A | A | + | A | + | A | + | A | A | A | A | + | A | A | A | + | + | A | + | A | A | A | + |
| Intestine Large, Cecum | A | A | A | A | + | A | + | A | + | A | + | A | A | + | A | + | A | A | + | A | A | A | A | + | + |
| Intestine Large, Colon
Sarcoma, Metastatic, Liver | A | A | A | + | + | + | + | + | + | A | + | A | A | + | A | + | A | + | + | A | + | + | A | + | + |
| Intestine Large, Rectum | A | A | A | + | + | + | + | + | + | A | A | A | A | + | A | + | A | A | + | A | + | + | A | + | + |
| Intestine Small, Duodenum | A | A | A | + | + | A | + | A | A | A | A | A | A | + | A | A | A | A | + | A | A | A | A | A | + |
| Intestine Small, Ileum | A | A | A | + | + | A | + | A | + | A | + | 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 | A | A | A | + | A | A | A | A | A | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemangioma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemangiosarcoma | | | | | | X | | | | | | | | | | | | | | | | X | | X | |
| Hepatoblastoma | | | | | | | | | | | | | | | X | | | | | | | X | | | |
| Hepatoblastoma, Multiple | | | | | | | | | | | | | | | | X | | | | | | | | | |
| Hepatocellular Adenoma | X | | X | | | | | | | | X | X | | X | | | | | X | | | | | | |
| Hepatocellular Adenoma, Multiple | | X | | X | X | | X | X | | X | | | | | X | X | X | | X | X | X | X | | | |
| Hepatocellular Carcinoma | | | | X | X | | | | | X | | | | X | | X | | | | | | | | X | |
| Hepatocellular Carcinoma, Multiple | | | | | | | X | X | X | | | | | X | | | | X | X | | | | X | | |
| Hepatocholangiocarcinoma | | | | | | | | | | X | | | | | | | | | | | | | | | |
| Ito Cell Tumor Malignant | | | | | | | | | | | | | | | | | | | X | | | | | | |

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

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

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-------------|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |
| | | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 |
| 312.5 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 | |
| | | 7 | 0 | 2 | 5 | 0 | 3 | 5 | 3 | 3 | 5 | 4 | 1 | 7 | 7 | 2 | 8 | 2 | 5 | 0 | 2 | 4 | 5 | 2 | |
| | | 4 | 1 | 1 | 0 | 4 | 9 | 6 | 5 | 2 | 9 | 3 | 9 | 1 | 0 | 9 | 8 | 2 | 2 | 4 | 7 | 6 | 8 | 3 | |
| | | males (cont...) | | | | | | | | | | | | | | | | | | | | | | | |

Parathyroid Gland

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

Pituitary Gland

A +

Thyroid Gland
Follicular Cell, Carcinoma

+
X

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis

+ +

Preputial Gland

+ +

Prostate

+ +

Seminal Vesicle

+ A + +

Testes
Interstitial Cell, Adenoma

+ +

HEMATOPOIETIC SYSTEM

Bone Marrow

+ +

Lymph Node
Mediastinal, Hepatoblastoma, Metastatic, Liver

+
X

Lymph Node, Mandibular
Carcinoma, Metastatic, Harderian Gland

+ A + +
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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 09:52:36
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 | 0 | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 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 | |
| 7 | 7 | 9 | 7 | 6 | 5 | 8 | 5 | 9 | 6 | 8 | 9 | 6 | 8 | 8 | 9 | 7 | 5 | 9 | 6 | 9 | 8 | 5 | 9 | 6 | 6 | |
| 4 | 1 | 1 | 0 | 4 | 9 | 6 | 5 | 2 | 9 | 3 | 9 | 3 | 9 | 1 | 0 | 9 | 8 | 2 | 2 | 4 | 7 | 6 | 8 | 3 | 0 | |
| Lymph Node, Mesenteric
Sarcoma, Metastatic, Liver | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | A | A | + | A | + | + | X | |
| Spleen
Hemangiosarcoma | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | |
| Thymus
Hemangiosarcoma, Metastatic, Liver
Hepatocellular Carcinoma, Metastatic, Liver
Hepatocholangiocarcinoma, Metastatic, Liver
Sarcoma, Metastatic, Liver | + | + | + | + | + | + | + | + | M | + | + | + | + | + | A | + | + | + | + | A | + | M | A | + | + | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | |
| Skin
Subcutaneous Tissue, Fibrous Histiocytoma
Subcutaneous Tissue, Sarcoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain
Sarcoma, Metastatic, Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung
Alveolar/Bronchiolar Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X |

males
(cont...)

* .. 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE MALE

312.5 mg/l | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | |
|---|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---|---|
| | 04
07 | 04
07 | 05
01 | 05
04 | 05
08 | 05
08 | 05
08 | 05
09 | 05
09 | 05
09 | 05
03 | 05
03 | 05
03 | 06
05 | 06
04 | 06
01 | 06
06 | 06
06 | 06
06 | 06
06 | 06
06 | 06
07 | 06
07 | 06
07 | | 06
07 | | |
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00
00
00
07 | 00
00
00
07 | 00
00
00
09 | 00
00
00
07 | 00
00
00
06 | 00
00
00
05 | 00
00
00
08 | 00
00
00
05 | 00
00
00
09 | 00
00
00
06 | 00
00
00
08 | 00
00
00
09 | 00
00
00
06 | 00
00
00
08 | 00
00
00
09 | 00
00
00
07 | 00
00
00
05 | 00
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00
09 | 00
00
00
06 | 00
00
00
09 | 00
00
00
06 | 00
00
00
09 | 00
00
00
08 | 00
00
00
05 | 00
00
00
09 | 00
00
00
06 | | |
| Alveolar/Bronchiolar Carcinoma | | | X | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar/Bronchiolar Carcinoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemangiosarcoma, Metastatic, Liver | | | | | | | X | | | | | | | | | | | | | | | | | | | | | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | X | | | X | | X | | | | X | X | | | X | | | | X | | X | | X | | |
| Hepatocholangiocarcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma, Metastatic, Liver | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| Nose | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pleura | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

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

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Sarcoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urethra | | | + | + | + | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | A | 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE MALE

312.5 mg/l | DAY ON TEST | 0047 | 0044 | 0052 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0056 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0067 | 0077 | 0077 | 0077 | 0077 | 0077 | males
(cont...) | | |
|------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|------|--|
| | ANIMAL ID | 0074 | 0070 | 0072 | 0075 | 0080 | 0083 | 0085 | 0093 | 0093 | 0095 | 0094 | 0091 | 0092 | 0092 | 0097 | 0098 | 0098 | 0092 | 0095 | 0096 | 0098 | 0084 | 0095 | | 0096 | |
| Multiple Organ | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| 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

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 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
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | * TOTALS |
| | ANIMAL ID | 0
0
0
7
5
7 | 0
0
0
5
6
7 | 0
0
0
6
6
8 | 0
0
0
6
6
7 | 0
0
0
7
7
8 | 0
0
0
7
7
8 | 0
0
0
8
8
4 | 0
0
0
8
8
5 | 0
0
0
9
5
7 | 0
0
0
5
5
1 | 0
0
0
5
5
3 | 0
0
0
5
5
6 | 0
0
0
5
5
8 | 0
0
0
6
6
0 | 0
0
0
6
6
3 | 0
0
0
7
7
6 | 0
0
0
7
7
9 | 0
0
0
8
8
1 | 0
0
0
8
8
2 | 0
0
0
8
8
7 | 0
0
0
9
9
0 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Gallbladder | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 33 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 34 |
| Intestine Large, Colon
Sarcoma, Metastatic, Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 40
1 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 38 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 31 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 35 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 32 |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemangioma | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Hepatoblastoma | | | | X | | | | | | | | X | X | | | | | | | | | | | 5 |
| Hepatoblastoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hepatocellular Adenoma | | | | X | | X | | | | | | X | | | | | | | X | X | | | | 11 |
| Hepatocellular Adenoma, Multiple | X | X | X | X | | | | X | X | | X | X | X | | X | X | X | X | | | X | X | X | 30 |
| Hepatocellular Carcinoma | | | X | X | | | | | X | | X | X | | | | | | X | | | | | | 13 |
| Hepatocellular Carcinoma, Multiple | | | | | X | | | X | X | | | | | | | | | | | | | | | 10 |
| Hepatocholangiocarcinoma | | | | | | X | | | | | | | | | | | | | | | | | | 2 |
| Ito Cell Tumor 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 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 | * TOTALS |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | ANIMAL ID | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pancreas | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Sarcoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Salivary Glands | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Hemangioma | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Squamous Cell Papilloma | | | | | | | X | | | | | | | | | | | | | | | | | | 1 |
| Stomach, Glandular | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Tooth | | + | + | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | | + | + | + | + | + | 41 |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Sarcoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Sarcoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Subcapsular, Adenoma | | | | | | | | | | | | | | | | | | | | X | | | | | 1 |
| Adrenal Medulla | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Islets, Pancreatic | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |

* .. 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 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 | 0 | * TOTALS |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----------|
| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | ANIMAL ID | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 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 | 5 | 6 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 5 | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 8 | 8 | 8 | 9 | 9 | |
| | | 5 | 7 | 2 | 5 | 8 | 7 | 8 | 4 | 5 | 7 | 1 | 3 | 6 | 8 | 0 | 6 | 3 | 6 | 9 | 1 | 2 | 7 | 0 | 0 | |
| Parathyroid Gland | | M | M | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | M | + | M | + | + | + | 39 | |
| Pituitary Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Thyroid Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Follicular Cell, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Interstitial Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Mediastinal, Hepatoblastoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Carcinoma, Metastatic, Harderian Gland | | | | | | | | | | | | | | | | | | | | | | | | | 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 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 | 0 | 0 | 0 | 0 | 0 | 0 | |
|---|--|-------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---------|
| 312.5 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 | |
| | | | 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 | |
| | | | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 7 | 5 | 6 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 5 | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 8 | 8 | 8 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 5 | 7 | 2 | 5 | 8 | 7 | 8 | 4 | 5 | 7 | 1 | 3 | 6 | 8 | 0 | 6 | 3 | 6 | 9 | 1 | 2 | 7 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric Sarcoma, Metastatic, Liver | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45
1 |
| Spleen Hemangiosarcoma | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48
1 |
| Thymus Hemangiosarcoma, Metastatic, Liver | | | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | M | + | + | M | + | + | + | + | + | + | + | + | + | + | + | 42
1 | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Hepatocholangiocarcinoma, Metastatic, Liver | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Sarcoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 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 | M | M | M | M | M | 0 | |
| Skin Subcutaneous Tissue, Fibrous Histiocytoma | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
2 | |
| Subcutaneous Tissue, Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain Sarcoma, Metastatic, Liver | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung Alveolar/Bronchiolar Adenoma | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
11 | |

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

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

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE MALE
312.5 mg/l | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|----------|
| | 0730 | 0731 | 0732 | 0733 | 0734 | 0735 | 0736 | 0737 | 0738 | 0739 | 0740 | 0741 | 0742 | 0743 | 0744 | 0745 | 0746 | 0747 | 0748 | 0749 | 0750 | 0751 | 0752 | | |
| ANIMAL ID | 0075 | 0076 | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 | | |
| Alveolar/Bronchiolar Carcinoma | | | | X | | | | | | | | | | | X | | | X | | X | X | | | | |
| Alveolar/Bronchiolar Carcinoma, Multiple | | | | | | | | | | | X | | | | | | | | | | | | | | |
| Hemangiosarcoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | X | | X | | | | | X | | | | | X | | | | | | | | | | |
| Hepatocholangiocarcinoma, Metastatic, Liver | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Sarcoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Pleura | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Adenoma | | | X | | | | | | | X | | | | | | | X | | | | | | X | | |
| Carcinoma | | | | | | | | | | | | | | X | | | | | X | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Sarcoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urethra | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 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 | 0 | * TOTALS |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | ANIMAL ID | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 7 | 5 | 6 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 5 | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 8 | 8 | 8 | 9 | 9 | |
| | | 5 | 7 | 2 | 5 | 8 | 7 | 8 | 4 | 5 | 7 | 1 | 3 | 6 | 8 | 0 | 6 | 3 | 6 | 9 | 1 | 2 | 7 | 0 | 3 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|------------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--------------------|
| | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | | |
| 625 mg/l | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | | |
| | ANIMAL ID | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | | |

ALIMENTARY SYSTEM

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

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

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

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | X | | | X | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex
Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | X | | | | | | | | | | | | |
| Subcapsular, Adenoma | | | | | | | | | | | | | | | | | X | | | | | | X | X |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | X | | | | | | | | | | | | |
| Islets, Pancreatic
Adenoma | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
| | | | | | | | | | | | | X | | | | | | | | | | | | |
| Parathyroid Gland | + | + | M | + | + | + | + | + | + | + | + | M | + | + | + | + | M | + | + | M | + | + | + | + |
| Pituitary Gland
Pars Distalis, Adenoma | + | + | 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

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

Thyroid Gland

+ + A +

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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

HEMATOPOIETIC SYSTEM

Bone Marrow + + A + + + + + + A + + + + + + + + + + + + + + +
 Lymph Node, Mandibular + A + +
 Lymph Node, Mesenteric + + A + + + + + + A + + + + + A A + A + + + A + +
 Spleen + + A + + + + + + A + + + + + + + + A + + + + + + +
 Hemangiosarcoma
 Thymus + + + + + + + + + + + M + + + + + + + M + + + + +
 Hepatoblastoma, Metastatic, Liver X
 Hepatocellular Carcinoma, 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 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 | | |
| | | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | | 5 | 7 | 9 | 1 | 2 | 2 | 4 | 5 | 5 | 6 | 6 | 2 | 2 | 3 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | 0 | 1 | | 3 |
| | | 6 | 0 | 6 | 9 | 4 | 6 | 8 | 1 | 6 | 0 | 9 | 7 | 8 | 1 | 9 | 1 | 0 | 5 | 4 | 0 | 4 | 7 | 5 | | 0 |
| 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 | males
(cont...) | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | | 0 | 2 | 3 | 3 | 2 | 4 | 0 | 0 | 1 | 1 | 0 | 4 | 2 | 4 | 3 | 2 | 3 | 5 | 0 | 1 | 4 | 3 | 2 | | 1 |
| | | 8 | 4 | 7 | 1 | 3 | 9 | 4 | 1 | 5 | 4 | 6 | 8 | 2 | 5 | 9 | 7 | 3 | 0 | 5 | 8 | 4 | 2 | 7 | | |

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, Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Lipoma | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Chondrosarcoma | | | | | | | | | | | | | | X | | | | | | | | | |

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Adenoma | | X | | X | | X | X | X | | | | | | | X | | X | | X | | | | |
| Alveolar/Bronchiolar Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar/Bronchiolar Carcinoma | | | | | | | | | | | X | | | | | | X | | | | | | |
| Hepatoblastoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | X | | | | | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | X | | X | | | | X | X | | | | X | | | X |
| Hepatocholangiocarcinoma, Metastatic, Liver | | | | | | | | | | X | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trachea | + | + | A | + | + | + | + | + | A | + | + | A | + | + | A | + | + | + | + | + | + | A | + |

SPECIAL SENSES 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 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
4
5
6 | 0
4
7
0 | 0
4
9
6 | 0
5
1
9 | 0
5
2
4 | 0
5
2
6 | 0
5
4
8 | 0
5
5
1 | 0
5
5
6 | 0
5
6
0 | 0
5
6
9 | 0
6
2
7 | 0
6
2
8 | 0
6
3
1 | 0
6
5
9 | 0
6
6
1 | 0
6
7
0 | 0
6
8
5 | 0
6
9
4 | 0
7
0
4 | 0
7
0
7 | 0
7
1
5 | 0
7
3
0 | 0
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 | 0 | 0
0
1
0
8 | | | |

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

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney
Hepatocellular Carcinoma, Metastatic, Liver
Hepatocholangiocarcinoma, Metastatic, Liver
Renal Tubule, Carcinoma | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Urethra | | | + | + | + | + | | | | | | | | + | | | | | | | | | | | |
| Urinary Bladder | + | + | A | + | + | + | + | + | + | A | + | + | + | + | + | A | + | + | A | + | + | + | A | + | + |

SYSTEMIC LESIONS

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

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

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

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

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

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Gallbladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 39 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 36 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 41 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 42 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 35 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 39 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 37 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemangiosarcoma | | | | | | X | | | X | | | | | | | | | | | | | | | | | 3 |
| Hepatoblastoma | X | X | | | | | | | | | | | | X | | | | X | | X | | | | | | 9 |
| Hepatoblastoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Hepatocellular Adenoma | X | | | | | | | | | | | | | | | | X | | | | X | | X | | | 11 |
| Hepatocellular Adenoma, Multiple | | X | X | X | X | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | | X | | 29 |
| Hepatocellular Carcinoma | | X | X | X | | | | | | X | | X | | | X | | | | | X | | X | X | | | 17 |
| Hepatocellular Carcinoma, Multiple | | | | | | X | X | | | | | | | | | | | | | | | | | | | 9 |
| Hepatocholangiocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | + | | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |

* .. 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE MALE
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 | 0 | 0 | * TOTALS | |
|------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|--|
| | ANIMAL ID | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 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 | 4 | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 0 | 0 | 0 | 1 | 1 | 3 | 3 | 4 | 4 | 4 | | |
| | | 0 | 7 | 2 | 0 | 2 | 9 | 1 | 5 | 6 | 8 | 5 | 6 | 8 | 2 | 3 | 7 | 9 | 1 | 6 | 0 | 4 | 0 | 1 | 3 | 6 | |

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, Hemangiosarcoma | | | | | | X | | | | X | | | | | | | | | | | | | | | | 2 |
| Subcutaneous Tissue, Lipoma | | | | | X | | | | | | | | | | | | | | | | | | | | | 1 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Chondrosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Alveolar/Bronchiolar Adenoma | | | | | | X | | | X | | X | | X | | | | X | | | | X | | | | | 14 |
| Alveolar/Bronchiolar Adenoma, Multiple | | | | | | | | | | | | | | | | | | X | | | | | X | | | 2 |
| Alveolar/Bronchiolar Carcinoma | | | | | | X | | | X | | | | X | | X | X | | | | | | | X | | | 8 |
| Hepatoblastoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | X | | X | | | | | | | | | X | | | X | X | | | X | | | | 12 |
| Hepatocholangiocarcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |

SPECIAL SENSES 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE MALE
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 | 0 | 0 | 0 | 0 | * TOTALS | |
|------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|--|
| | ANIMAL ID | 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 | | |
| | | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | | 2 | 4 | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 0 | 0 | 0 | 1 | 1 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | | |
| | | 0 | 7 | 2 | 0 | 2 | 9 | 1 | 5 | 6 | 8 | 5 | 6 | 8 | 2 | 3 | 7 | 9 | 1 | 6 | 0 | 4 | 0 | 1 | 3 | 6 | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 43 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Adenoma | | | | X | | | | X | | | | | | | | | | | | | | | | | | | | 3 |
| Carcinoma | | | | X | | | | | | | | | | | | | | | | | | | | | | | | 1 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Hepatocholangiocarcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Renal Tubule, Carcinoma | | | X | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Urethra | | | | | | | | | | | | | | | | | | | | | | | | | | | | 5 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE MALE | DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|------------------|-------------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|------|
| | | 0399 | 0425 | 0442 | 0452 | 0553 | 0554 | 0555 | 0556 | 0661 | 0662 | 0663 | 0664 | 0665 | 0666 | 0667 | 0668 | 0669 | 0670 | 0671 | 0672 | | 0673 |
| 1250 mg/l | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 8 | 8 | 5 | 6 | 5 | 6 | 9 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 6 | 9 | 7 | 5 | 5 | 5 | 7 | 8 |
| | | 8 | 5 | 5 | 5 | 3 | 3 | 4 | 5 | 1 | 4 | 4 | 8 | 0 | 7 | 0 | 6 | 8 | 1 | 8 | 9 | 9 | 0 |

ALIMENTARY SYSTEM

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

* .. 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
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

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

Salivary Glands

+ +

Stomach, Forestomach
 Squamous Cell Papilloma

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

Stomach, Glandular

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

Tooth

+ +

CARDIOVASCULAR SYSTEM

Heart

+ +

ENDOCRINE SYSTEM

Adrenal Cortex
 Subcapsular, Adenoma

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

Adrenal Medulla

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

Islets, Pancreatic

+ + + + + + + + + A +

Parathyroid Gland

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

Pituitary Gland

+ + + + + + + + + M +

Thyroid Gland

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

GENERAL BODY SYSTEM

NONE

GENITAL 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
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beta-Picoline
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Date Report Requested: 05/27/2011
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 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 | 0 |
| | ANIMAL ID | 3 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 1250 mg/l | | 9 | 2 | 6 | 2 | 3 | 3 | 3 | 7 | 7 | 8 | 9 | 0 | 1 | 1 | 1 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 9 | 5 | 5 | 2 | 4 | 4 | 4 | 1 | 5 | 7 | 0 | 9 | 0 | 0 | 3 | 5 | 7 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 8 | 8 | 5 | 6 | 5 | 6 | 9 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 6 | 9 | 7 | 5 | 5 | 5 | 7 | 8 | 8 | 8 | 8 | 9 | 9 |
| | | 8 | 5 | 5 | 5 | 3 | 3 | 4 | 5 | 1 | 4 | 4 | 8 | 0 | 7 | 0 | 6 | 8 | 1 | 8 | 9 | 9 | 0 | 1 | 6 | 0 | 0 | |
| males (cont...) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| 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 | | | X | | | | | | | X | | | X | | |
| Alveolar/Bronchiolar Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | X | | | | | |
| Alveolar/Bronchiolar Carcinoma | | | | | | | | | | | | | | | | | | | | | | | X | | | | |
| Alveolar/Bronchiolar Carcinoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| Carcinoma, Metastatic, Harderian Gland | | | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | X | X | X | | | | X | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Harderian Gland | | | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Pleura | | | | | | | | | | | | + | | | | | | | | | | | | | | | |

* .. 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

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

Hepatocellular Carcinoma, Metastatic, Liver X

Trachea + + + + + + + + + + + + + + A + + + + + + + + + + + +

SPECIAL SENSES SYSTEM

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

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

URINARY SYSTEM

Kidney + + + + + + + + + + + + + + A + + + + + + + + + + + +
 Hepatocellular Carcinoma, Metastatic, Liver X X
 Renal Tubule, Adenoma, Multiple

Urethra + + +

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0730 | 0731 | 0732 | 0733 | 0734 | 0735 | 0736 | 0737 | 0738 | 0739 | 0740 | 0741 | 0742 | 0743 | 0744 | 0745 | 0746 | 0747 | 0748 | 0749 | 0750 | 0751 | 0752 | 0753 | 0754 | |
| 1250 mg/l | 00191 | 00056 | 00066 | 00066 | 00077 | 00088 | 00088 | 00088 | 00099 | 00099 | 00000 | 00055 | 00055 | 00055 | 00066 | 00077 | 00077 | 00077 | 00088 | 00088 | 00099 | 00099 | 00099 | 00099 | 00099 | 50 |

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 | | | | | | 6 |
| Alveolar/Bronchiolar Adenoma, Multiple | | | | | | | X | | | | | | | | | | | | | | | | | | | 2 |
| Alveolar/Bronchiolar Carcinoma | | | X | | | X | | | X | | X | | | | | | | | X | | | | | | | 6 |
| Alveolar/Bronchiolar Carcinoma, Multiple | | | | | | | | | | | | | | | | X | | | | | | | X | | | 3 |
| Carcinoma, Metastatic, Harderian Gland | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hepatocellular Carcinoma, Metastatic, Liver | | | X | | | | | | | | | | | | | | | | | | | | X | | | 6 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Carcinoma, Metastatic, Harderian Gland | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pleura | | | | | | | | | | | | | | | | | | | | | | | | | | 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

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

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ovary | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cystadenoma | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | A | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + |
| Polyp Stromal | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Adenoma | | | | | | | | | | | | | | | | | | | | | | X | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | + | | | | + | + | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric | + | A | + | A | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen | A | A | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | A | M | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mast Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | |
| 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

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

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Osteosarcoma | | | | | | | | | | | | | | | | X | | | | | | |
| Skeletal Muscle | | | + | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Adenoma | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar/Bronchiolar Carcinoma | | | | | | | X | | | | | X | | X | | | | | | | | X |
| Carcinoma, Metastatic, Harderian Gland | | | | | | X | | | | | | | | | | | | | | | | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | X | | | | | | | | | | | |
| Sarcoma, Metastatic, Skin | | | | | | | | | | | | X | | | | | | | | | | |
| Nose | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trachea | A | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | A | A | + | + | A | + | + | A | + | A | A | A | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Harderian Gland | | | | | | 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 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 | females
(cont...) |
| | | 3 | 3 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | | 4 | 7 | 9 | 3 | 4 | 6 | 6 | 7 | 8 | 8 | 9 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 7 | 2 | 8 | 9 | 3 | 8 | 9 | 4 | 0 | 2 | 8 | 6 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| | | | 1 | 0 | 4 | 4 | 2 | 1 | 2 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | | |
| | | | 4 | 3 | 5 | 6 | 6 | 9 | 3 | 6 | 4 | 7 | 7 | 2 | 5 | 9 | 6 | 0 | 5 | 9 | 0 | 2 | 4 | 6 | | |

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

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Urinary Bladder | A | A | + | A | A | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SYSTEMIC LESIONS

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

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

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

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 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 | * TOTALS |
|--------------------|--------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | | ANIMAL ID | 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 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 5 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 4 | |
| | | 0 | 0 | 5 | 7 | 1 | 2 | 3 | 5 | 9 | 1 | 9 | 1 | 2 | 8 | 1 | 3 | 8 | 4 | 8 | 1 | 7 | 8 | 2 | 4 | 47 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Adrenal Medulla
Pheochromocytoma Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49
1 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Parathyroid Gland | + | + | M | + | M | + | + | M | + | + | + | M | + | + | + | + | + | + | M | + | + | M | + | + | 38 |
| Pituitary Gland
Pars Distalis, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
4 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

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

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 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 | * TOTALS | | |
|--------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|--|
| | ANIMAL ID | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | | |
| Ovary | | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 49 | | |
| Cystadenoma | | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | | |
| Uterus | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49 | | |
| Polyp Stromal | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| Endometrium, Adenoma | | 5 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 1 | | |
| | | 0 | 0 | 5 | 7 | 1 | 2 | 3 | 5 | 9 | 1 | 9 | 1 | 2 | 8 | 1 | 3 | 8 | 4 | 8 | 1 | 7 | 8 | 2 | 4 | 8 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Hemangiosarcoma | | | | | | | | | | | | | | | X | | | | | | | | | | 1 | | |
| Lymph Node | | | | | | | | | | | + | | | | | | | | | | + | | | + | 6 | | |
| Lymph Node, Mandibular | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |
| Lymph Node, Mesenteric | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | | |
| Spleen | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | | |
| Hemangiosarcoma | | | | | | | | | | | | | | | X | | | | | | | | | | 1 | | |
| Thymus | | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Skin | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Mast Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | X | | | | 1 | | |
| Subcutaneous Tissue, Hemangiosarcoma | | | | | | | | | | | | | | | X | | | | | | X | | | | 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE FEMALE | 0 mg/l | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--------------------|--------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
| | | 0729 | 0730 | 0733 | 0737 | 0740 | 0743 | 0747 | 0750 | 0754 | 0757 | 0801 | 0804 | 0808 | 0811 | 0815 | 0818 | 0822 | 0825 | 0829 | 0832 | | 0836 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | |
| | | 5 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | |
| | | 0 | 0 | 5 | 7 | 1 | 2 | 3 | 5 | 9 | 1 | 9 | 1 | 2 | 8 | 1 | 3 | 8 | 4 | 8 | 1 | 7 | 50 |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

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

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 43 |
| Carcinoma, Metastatic, Harderian Gland | | | | | | | | | | | | | | | | | | | | | | | 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 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 | * TOTALS |
|-------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|---|----------|
| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| 0 mg/l | ANIMAL ID | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| | | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Harderian Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 | | |
| Adenoma | | | | | | | | | | | | X | | | | | | | | | | | | | 2 | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44 | | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Lymphoma Malignant | | X | | | X | X | | | | | | X | 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 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 | females
(cont...) |
| | | 3 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | | 8 | 9 | 0 | 3 | 5 | 8 | 2 | 6 | 7 | 8 | 8 | 9 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | |
| | | 2 | 4 | 8 | 3 | 3 | 8 | 8 | 2 | 2 | 0 | 5 | 7 | 0 | 4 | 1 | 1 | 8 | 4 | 9 | 9 | 9 | |
| 312.5 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 | |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 7 | 7 | 5 | 9 | 6 | 5 | 8 | 9 | 8 | 6 | 5 | 6 | 7 | 9 | 6 | 8 | 9 | 9 | 5 | 5 | 5 | |

ALIMENTARY SYSTEM

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE FEMALE | DAY ON TEST | 0
3 | 0
4 | 0
5 | 0
5 | 0
5 | 0
5 | 0
6 | 0
6 | 0
6 | 0
6 | 0
6 | 0
6 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | |
|--|-------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 312.5 mg/l | 8
2 | 9
4 | 0
8 | 3
3 | 5
3 | 8
8 | 2
8 | 6
2 | 6
2 | 7
0 | 8
5 | 8
7 | 9
0 | 0
4 | 0
1 | 0
1 | 1
8 | 2
4 | 2
9 | 2
9 | 2
9 | 2
9 | 2
9 |
| | ANIMAL ID | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | |
| | | 2
7 | 2
7 | 2
5 | 2
9 | 2
6 | 2
5 | 2
8 | 2
9 | 2
8 | 2
6 | 2
5 | 2
6 | 2
7 | 2
9 | 2
6 | 2
8 | 2
9 | 2
9 | 2
5 | 2
5 | 2
5 | 2
6 | 2
7 |
| | | 9 | 6 | 5 | 4 | 5 | 3 | 1 | 9 | 2 | 8 | 2 | 3 | 2 | 1 | 6 | 6 | 2 | 5 | 1 | 4 | 7 | 0 | 3 |
| | | females (cont...) | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | + + + + + + + M + M + + + + M + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach
Squamous Cell Carcinoma
Squamous Cell Papilloma | | A + + + + + A + A + A + + A A A + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | | A A A + A + A + A A A + + A A A + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | |
| Tooth
Gingiva, Fibroma, Osseous | | +
X | | | | | | | | | | | | | | | | | | | | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | + + | | | | | | | | | | | | | | | | | | | | | | |
| Heart | | + | | | | | | | | | | | | | | | | | | | | | | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | | A + A + + + + A + + + + + A + A + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla
Pheochromocytoma Benign
Pheochromocytoma Malignant | | A + A + + + + A + + + + + A + A + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic
Adenoma | | A A A + + + + A A A + + A A A + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | | M M + M + + + M + M + + + M M + + + + + + + + + + M + M | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland
Pars Distalis, Adenoma | | + + + + A + + M + + + + + + + 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE FEMALE
312.5 mg/l | DAY ON TEST | 0382 | 0494 | 0508 | 0533 | 0558 | 0588 | 0628 | 0662 | 0682 | 0667 | 0667 | 0671 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | ANIMAL ID | females
(cont...) |
|----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|----------------------|
| | ANIMAL ID | 00279 | 00077 | 00055 | 00096 | 00055 | 00031 | 00091 | 00002 | 00088 | 00022 | 00032 | 00022 | 00012 | 00066 | 00088 | 00099 | 00099 | 00055 | 00055 | 00055 | 00066 | 00066 | 00077 | 00040 | 00003 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thyroid Gland | M | + | + | + | + | + | + | M | A | M | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ovary
Cystadenoma | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Uterus | A | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow
Mast Cell Tumor Malignant | A | A | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Lymph Node
Iliac, Mast Cell Tumor Malignant
Lumbar, Hemangiosarcoma
Renal, Hemangiosarcoma | | | | | | | | + | | | | | | | | | | | | | + | + | | | | + | + | + |
| Lymph Node, Mandibular | + | A | + | + | + | + | + | M | + | A | A | + | A | + | M | A | + | + | + | + | + | + | + | + | + | + | + | |
| Lymph Node, Mesenteric | A | A | A | + | A | + | + | + | A | A | A | A | A | A | A | A | + | + | + | + | + | + | + | + | + | + | + | |
| Spleen
Hemangiosarcoma
Mast Cell Tumor Malignant | A | A | A | + | + | + | A | + | + | A | + | A | + | 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------------|-----------|-----------|-----------|-----------|--|
| | 0 3 8 2 | 0 4 9 4 | 0 5 0 8 | 0 5 3 3 | 0 5 5 3 | 0 5 8 8 | 0 6 2 8 | 0 6 6 2 | 0 6 6 0 | 0 6 7 5 | 0 6 6 7 | 0 6 6 0 | 0 7 0 4 | 0 7 1 1 | 0 7 1 1 | 0 7 1 8 | 0 7 2 4 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | |
| 312.5 mg/l | ANIMAL ID | | | | | | | | | | | | | | | | | | | | females (cont...) | | | | | |
| | 0 0 2 7 9 | 0 0 2 7 6 | 0 0 2 5 5 | 0 0 2 2 4 | 0 0 2 2 5 | 0 0 2 2 3 | 0 0 2 2 1 | 0 0 2 2 9 | 0 0 2 2 2 | 0 0 2 2 8 | 0 0 2 2 6 | 0 0 2 2 5 | 0 0 2 2 6 | 0 0 2 2 7 | 0 0 2 2 9 | 0 0 2 2 6 | 0 0 2 2 5 | 0 0 2 2 5 | 0 0 2 2 5 | 0 0 2 2 6 | | 0 0 2 2 6 | 0 0 2 2 7 | 0 0 2 2 7 | 0 0 2 2 0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | A | + | + | + | + | A | M | A | + | + | + | + | M | + | + | + | + | + | + | + | + | + | | |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Subcutaneous Tissue, Fibrous Histiocytoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Hemangiosarcoma | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Sarcoma | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | A | + | + | + | + | + | + | M | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Alveolar/Bronchiolar Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar/Bronchiolar Adenoma, Multiple | | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Alveolar/Bronchiolar Carcinoma | | | | | | | | | | | | | | X | | | | | | | X | | | | | |
| Alveolar/Bronchiolar Carcinoma, Multiple | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | X | | | | | | | | | | | | | | | | | | | | |
| Mast Cell Tumor Malignant | | | | | | | | | | X | | | | | | | | | | | | | | | | |

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

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

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 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...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0382 | 0494 | 0508 | 0553 | 0553 | 0558 | 0628 | 0662 | 0666 | 0666 | 0666 | 0666 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | | |
| Nose | A | A | A | + | + | + | + | M | + | + | + | + | + | A | M | + | + | + | + | + | + | + | + | + | + | + | |
| Trachea | A | A | + | + | + | A | + | M | + | A | + | + | A | A | M | A | + | + | + | + | + | + | + | + | + | + | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | A | A | A | + | A | A | A | M | A | A | A | A | A | A | M | A | + | + | + | + | + | + | + | + | + | + | |
| Harderian Gland
Carcinoma
Bilateral, Carcinoma | + | A | A | + | + | + | + | M | + | A | A | + | A | A | M | A | + | + | + | + | + | + | + | + | + | + | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney
Mast Cell Tumor Malignant | + | A | A | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | |
| Urinary Bladder | + | A | A | + | A | A | + | A | A | A | A | A | A | A | A | A | + | + | + | + | + | + | + | + | + | + | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE FEMALE | 312.5 mg/l | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--------------------|------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|-----------|
| | | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | | 0729 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | |
| | | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 7 | 8 | 8 | 9 | 5 | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 6 | |
| | | 4 | 3 | 7 | 8 | 6 | 8 | 9 | 1 | 2 | 9 | 1 | 5 | 7 | 0 | 4 | 5 | 8 | 9 | 0 | 6 | 7 | |
| | | | | | | | | | | | | | | | | | | | | | | | 49 |
| | | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 36 |
| | | | | | | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | 36 |
| | | | | | | | | | | | | | | | | | | | | | | | 35 |
| | | | | | | | | | | | | | | | | | | | | | | | 35 |
| | | | | | | | | | | | | | | | | | | | | | | | 35 |
| | | | | | | | | | | | | | | | | | | | | | | | 36 |
| | | | | | | | | | | | | | | | | | | | | | | | 35 |
| | | | | | | | | | | | | | | | | | | | | | | | 50 |
| | | | | | | | | | | | | | | | | | | | | | | | 5 |
| | | | | | | | | | | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | | | | | | | | 43 |
| | | | | | | | | | | | | | | | | | | | | | | | 13 |
| | | | | | | | | | | | | | | | | | | | | | | | 7 |
| | | | | | | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | 16 |
| | | | | | | | | | | | | | | | | | | | | | | | 42 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Gallbladder | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 36 |
| Hepatoblastoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 36 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 35 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 35 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 35 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 36 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 35 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemangiosarcoma | | | | X | | | X | | X | | | | | | | | | | | | | | 5 |
| Hepatoblastoma | | | | | | | | | | | | | X | | | | | | | | | | 3 |
| Hepatocellular Adenoma | | | | 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 | 43 |
| Hepatocellular Carcinoma | | | | | | | X | | X | X | X | | | X | | | | | | X | | X | 13 |
| Hepatocellular Carcinoma, Multiple | | | X | | X | | | | | | | | | | | X | | | | X | | | 7 |
| Mast Cell Tumor Malignant | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | 16 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 42 |

* .. 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 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 | 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 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | |
| | | 7 | 8 | 8 | 9 | 5 | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 6 | 7 | 9 | |
| | | 4 | 3 | 7 | 8 | 6 | 8 | 9 | 1 | 2 | 9 | 1 | 5 | 7 | 0 | 4 | 5 | 8 | 9 | 0 | 6 | 7 | 7 | 8 | 0 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 43 |
| Squamous Cell Carcinoma | | | | | | | | | | | | X | | | | | | | | | | | | | | 1 |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | X | | | 1 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 39 |
| Tooth | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Gingiva, Fibroma, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Pheochromocytoma Benign | | | | X | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pheochromocytoma Malignant | | | | | | | | | | | | X | | | | | | | | | | | | | | 2 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 41 |
| Adenoma | | | | | | | | | | | | | | | | | | | | | X | | | | | 1 |
| Parathyroid Gland | M | + | + | + | + | + | + | + | M | + | + | + | + | + | + | M | + | M | M | + | + | + | M | M | + | 34 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Pars Distalis, Adenoma | | | | | | X | | | | | X | | | | | | | | | | | | X | X | | 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 09:52:36
First Dose M/F: 11/09/04 / 11/08/04
Lab: BAT

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

Thyroid Gland + 45

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland + 50

Ovary + 48

Cystadenoma X X X 4

Uterus + 47

HEMATOPOIETIC SYSTEM

Bone Marrow + 46

Mast Cell Tumor Malignant 1

Lymph Node + 8

Iliac, Mast Cell Tumor Malignant 1

Lumbar, Hemangiosarcoma 1

Renal, Hemangiosarcoma 1

Lymph Node, Mandibular + + + + + + + + + + + + + + + + + + + M + + 42

Lymph Node, Mesenteric + 38

Spleen + 42

Hemangiosarcoma X 2

Mast Cell Tumor Malignant 1

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

M .. Missing tissue
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 Species/Strain: MICE/B6C3F1

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

| B6C3F1 MICE FEMALE
312.5 mg/l | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|----------|
| | 0729 | 0729 | 0729 | 0729 | 0723 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | | |
| ANIMAL ID | 0074 | 0083 | 0007 | 0008 | 0005 | 0005 | 0005 | 0006 | 0006 | 0006 | 0007 | 0007 | 0007 | 0008 | 0008 | 0008 | 0008 | 0009 | 0009 | 0009 | 0006 | 0007 | 0008 | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44 | |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Subcutaneous Tissue, Fibrous Histiocytoma | | | X | | | | | | | | | | | | | | | | | | | | | 1 | |
| Subcutaneous Tissue, Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Subcutaneous Tissue, Sarcoma | | | | | | | | | | X | | | | | | | | | | | | | | 2 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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 | | | | | | | | X | | 6 | |
| Alveolar/Bronchiolar Carcinoma, Multiple | | | | | | | | | | | | | | | | X | | | | | | | | 2 | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | X | | | | | | X | | | X | X | | | | | 5 | |
| Mast Cell Tumor 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 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 | * TOTALS |
|----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----------|
| | ANIMAL ID | 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 | |
| Nose | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44 | |
| Trachea | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 41 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 35 | |
| Harderian Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 41 | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Bilateral, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Mast Cell Tumor Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 37 | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lymphoma Malignant | | | | X | | | | X | X | | | | | | | | | | X | | | | | | X | X | | 15 | |

* .. 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
625 mg/l | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | |
|--------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------------|------------------|
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ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Esophagus | + + M + | | | | | | | | | | | | | | | | | | | | | | | |
| Gallbladder | + A A A A A A A A A A + A A A + + A + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Cecum Carcinoma | + A A A A A + A A A A + A A + + + A + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon | + A A A + + + A A A A + A A A + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum | + A A A A A + A A A A + A A A + + A + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | + A A A A A + A A A A A A A + + A + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum | + A A A A A + A A A A + A A A + + A + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Jejunum | + A A A A A + A A A A + A A A + + A + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | |
| Liver | + | | | | | | | | | | | | | | | | | | | | | | | |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatoblastoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatoblastoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocellular Adenoma | X | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocellular Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocellular Carcinoma | X | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocellular Carcinoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | |
| Rhabdomyosarcoma, Metastatic, Uncertain Primary Site | X | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | |
| Lipoma | + | | | | | | | | | | | | | | | | | | | | | | | |

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

| B6C3F1 MICE FEMALE | 625 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 3 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 0 | 2 | 4 | 1 | 2 | 4 | 4 | 4 | 6 | 8 | 0 | 0 | 1 | 1 | 1 | 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 | | | | | | | | | | | |
| | | 9 | 2 | 9 | 7 | 0 | 3 | 7 | 8 | 9 | 6 | 4 | 4 | 1 | 2 | 7 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | | | | | | | | | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 3 | 3 | 3 | | | | | | | | | | |
| | | 1 | 3 | 2 | 4 | 2 | 2 | 2 | 2 | 4 | 4 | 0 | 0 | 4 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | | | | | | | | | |
| | | 4 | 6 | 9 | 3 | 8 | 2 | 3 | 7 | 9 | 8 | 3 | 4 | 5 | 1 | 7 | 1 | 6 | 8 | 9 | 2 | 6 | 8 | 9 | 2 | 6 | 8 | 9 | 6 | 8 | 9 | 6 | 8 | 9 | 6 | 8 | 9 | 6 | 8 | 9 | 6 | 8 | 9 | 6 | 8 | 9 | 6 | 8 | 9 | 6 | 8 | 9 |

Rhabdomyosarcoma, Metastatic, Uncertain Primary Site

X

Pancreas
 Rhabdomyosarcoma, Metastatic, Uncertain Primary Site

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

X

Salivary Glands

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

Stomach, Forestomach
 Squamous Cell Papilloma

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

Stomach, Glandular

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

Tooth

M

CARDIOVASCULAR SYSTEM

Blood Vessel

+

Heart

+ + M +

ENDOCRINE SYSTEM

Adrenal Cortex

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

Adrenal Medulla
 Pheochromocytoma Complex

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

X

Islets, Pancreatic

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

Parathyroid Gland

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

Pituitary Gland

+ + M + + A + + + + + + + + M + + + + + + + + + + + + + +

* .. 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 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 | 0 | 0 | ANIMAL ID | females
(cont...) | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | | 3 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | | 0 | 2 | 4 | 1 | 2 | 4 | 4 | 4 | 6 | 8 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| | | 9 | 2 | 9 | 7 | 0 | 3 | 7 | 8 | 9 | 6 | 4 | 4 | 1 | 2 | 7 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 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 | | |
| | | 1 | 3 | 2 | 4 | 2 | 2 | 2 | 2 | 4 | 4 | 0 | 0 | 4 | 2 | 4 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 3 | | |
| | | 4 | 6 | 9 | 3 | 8 | 2 | 3 | 7 | 9 | 8 | 3 | 4 | 5 | 1 | 7 | 1 | 6 | 8 | 9 | 2 | 6 | 8 | 9 | 6 | 3 | | |

Pars Distalis, Adenoma

X

Thyroid Gland

+ + M A + A + A + + + + M + + + + + + + + + + + +

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland

+ + I + + + + + + + + + + M + + + + + + + + + + + +

Ovary

+ + A A +

Uterus

+ + A +

Cervix, Sarcoma

HEMATOPOIETIC SYSTEM

Bone Marrow

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

Lymph Node

+ +

Lymph Node, Mandibular

+ + M A + + + + + + + + + + M + + + + + + + + + + + +

Lymph Node, Mesenteric

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

Spleen

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

Thymus

+ + M + + + + + + + + + + A + + + + + + + + + + + +

Hemangiosarcoma

Rhabdomyosarcoma, Metastatic, Uncertain
 Primary Site

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

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

INTEGUMENTARY SYSTEM

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

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Lung | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Alveolar/Bronchiolar Adenoma | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | X | X | |
| Alveolar/Bronchiolar Carcinoma | | | | X | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar/Bronchiolar Carcinoma, Multiple | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma, Metastatic, Harderian Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | X | | | | X | | | | | | | | X | | X | | | | | | | | | | | | | | | X | | |
| Sarcoma, Metastatic, Skin | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Trachea | + | + | M | A | + | + | + | A | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

SPECIAL SENSES 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 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 | 0 | 0 | ANIMAL ID | | females
(cont...) | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--|----------------------|--|
| | | 3 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 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 | | | | |
| | | 3 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | | | |
| | | 0 | 2 | 4 | 1 | 2 | 4 | 4 | 4 | 6 | 8 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | |
| | | 9 | 2 | 9 | 7 | 0 | 3 | 7 | 8 | 9 | 6 | 4 | 4 | 1 | 2 | 7 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | | |
| | | 1 | 3 | 2 | 4 | 2 | 2 | 2 | 2 | 4 | 4 | 0 | 0 | 4 | 2 | 4 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 3 | | | |
| | | 4 | 6 | 9 | 3 | 8 | 2 | 3 | 7 | 9 | 8 | 3 | 4 | 5 | 1 | 7 | 1 | 6 | 8 | 9 | 2 | 6 | 8 | 9 | 3 | | | | |
| Eye | | + | A | M | A | A | A | A | A | M | A | + | M | A | M | + | + | A | + | + | + | + | + | + | + | | | | |
| Harderian Gland
Adenoma
Carcinoma | | + | A | M | A | + | + | + | + | A | + | A | + | M | A | + | + | + | + | + | + | + | + | + | + | | | | |
| | | | | | | | X | | | | | | X | | | | | | | | | | | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Urinary Bladder | | + | A | A | A | A | A | A | A | + | A | + | A | + | A | + | + | + | + | + | + | + | + | + | + | | | | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ
Histiocytic Sarcoma
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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
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 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 | 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 | |
| | | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | |
| | | 3 | 3 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 0 | 0 | 1 | 1 | 1 | 2 | 3 | 3 | 3 | | |
| | | 8 | 9 | 7 | 0 | 5 | 0 | 5 | 2 | 4 | 0 | 2 | 4 | 6 | 0 | 2 | 5 | 1 | 3 | 7 | 4 | 0 | 1 | 5 | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------------|-----------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Gallbladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 36 |
| Intestine Large, Cecum
Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 38
1 | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 40 | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 37 | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 36 | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 37 | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 37 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemangiosarcoma | | | | | | | X | | | | | X | | | | X | | | | | | | | 3 | |
| Hepatoblastoma | | | | | | | | | | | | X | | | | | | | X | | | | | 3 | |
| Hepatoblastoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Hepatocellular Adenoma | | | | X | | | | | | | | | | | X | | | | | | X | | | 10 | |
| 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 | 36 | |
| Hepatocellular Carcinoma | | | | | | | | | | X | | | | X | X | | | X | X | X | | X | X | 16 | |
| Hepatocellular Carcinoma, Multiple | | | | X | | X | X | | | | | X | | | X | | | | | | | | | 10 | |
| Rhabdomyosarcoma, Metastatic, Uncertain
Primary Site | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Mesentery | + | | + | + | | | + | | | + | | | | | + | | | + | | + | | | | 16 | |
| Lipoma | | | | | | | | | | | | | | | | | | | | | | | | 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 | 0729 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | |
| ANIMAL ID | 003338 | 003338 | 003338 | 003338 | 003338 | 003338 | 003338 | 003338 | 003338 | 003338 | 003338 | 003338 | 003338 | 003338 | 003338 | 003338 | 003338 | 003338 | 003338 | 003338 | 003338 | 003338 | 003338 | 003338 | |
| Rhabdomyosarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pancreas
Rhabdomyosarcoma, Metastatic, Uncertain Primary Site | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46
1 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Stomach, Forestomach
Squamous Cell Papilloma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | 45
1 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 41 | |
| Tooth | + | | | | | | | | | | | + | | | | | | | | | | | | 2 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | |
| Adrenal Medulla
Pheochromocytoma Complex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46
1 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 | |
| Parathyroid Gland | + | M | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | M | + | + | 40 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |

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

M .. Missing tissue
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 BLANK .. Not examined microscopically

TDMS No. 20009 - 04
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P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
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 Time Report Requested: 09:52:36
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE FEMALE
1250 mg/l | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|---------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|----------------------|
| | 04 | 05 | 05 | 05 | 05 | 05 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | | |
| | 9 | 0 | 3 | 7 | 8 | 8 | 1 | 3 | 4 | 4 | 6 | 6 | 7 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| | 4 | 9 | 3 | 3 | 2 | 6 | 2 | 2 | 1 | 7 | 8 | 4 | 9 | 7 | 6 | 1 | 2 | 2 | 9 | 9 | 9 | 9 | 9 | 9 | | |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | |
| | 33 | 33 | 33 | 33 | 43 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | | |
| | 99 | 99 | 66 | 99 | 66 | 00 | 55 | 66 | 99 | 66 | 77 | 88 | 55 | 66 | 55 | 77 | 66 | 55 | 55 | 55 | 55 | 55 | 66 | 66 | | |
| | 68 | 68 | 66 | 44 | 77 | 00 | 99 | 88 | 77 | 99 | 55 | 44 | 77 | 55 | 55 | 33 | 00 | 11 | 22 | 33 | 44 | 88 | 22 | 33 | | |

Sarcoma, Metastatic, Mesentery

X

Salivary Glands

+ +

Stomach, Forestomach
Squamous Cell Papilloma

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

Stomach, Glandular

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

Tongue
Squamous Cell Carcinoma

+
X

Tooth

+ + + + +

CARDIOVASCULAR SYSTEM

Heart
Hemangiosarcoma
Pericardium, Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung

+
X
X

ENDOCRINE SYSTEM

Adrenal Cortex
Adenoma
Sarcoma, Metastatic, Mesentery

+
X

Adrenal Medulla

+ +

Islets, Pancreatic
Adenoma

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

Parathyroid Gland

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

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

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

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE FEMALE | DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | females
(cont...) | |
|--------------------|-------------|-----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------------------|----|
| | | 04 | 05 | 05 | 05 | 05 | 05 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | | 07 |
| 1250 mg/l | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | | 9 | 0 | 3 | 7 | 8 | 8 | 1 | 3 | 4 | 4 | 6 | 6 | 7 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 4 | 9 | 3 | 3 | 2 | 6 | 2 | 2 | 1 | 7 | 8 | 4 | 9 | 7 | 6 | 1 | 2 | 2 | 9 | 9 | 9 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | | 9 | 9 | 6 | 9 | 6 | 0 | 5 | 6 | 9 | 6 | 7 | 8 | 5 | 6 | 5 | 7 | 6 | 5 | 5 | 5 | 5 | |
| | | 6 | 8 | 6 | 4 | 7 | 0 | 9 | 8 | 7 | 9 | 5 | 4 | 7 | 5 | 5 | 3 | 0 | 1 | 2 | 3 | 4 | |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pituitary Gland
Pars Distalis, Adenoma | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Thyroid Gland
Follicular Cell, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ovary
Cystadenoma | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + |
| Hemangioma | | | | | | X | | | | | | | | | | | | X | | | X | X |
| Uterus
Hemangiosarcoma | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node
Bronchial, Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung | | | | | | | + | | | | + | | | | | | + | | | | + | |
| Iliac, Sarcoma, Metastatic, Mesentery | | | | | | | | | | | | | | | | | | | | | | X |
| Mediastinal, Sarcoma, Metastatic, Mesentery | | | | | | | | | | | | | | | | | | | | | | X |
| Lymph Node, Mandibular | + | + | + | + | + | A | + | + | + | + | + | A | + | + | M | + | + | + | + | + | + | + |

* .. 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | |
|--------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|----------------------|----|
| | 04 | 05 | 05 | 05 | 05 | 05 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | | | 07 |
| 1250 mg/l | 94 | 09 | 33 | 73 | 82 | 86 | 12 | 32 | 41 | 47 | 48 | 64 | 69 | 77 | 76 | 21 | 22 | 29 | 29 | 29 | 29 | 29 | 00 |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| | 33 | 33 | 33 | 33 | 43 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 |
| | 99 | 96 | 96 | 96 | 06 | 56 | 69 | 66 | 77 | 88 | 55 | 66 | 55 | 77 | 66 | 55 | 55 | 55 | 55 | 55 | 66 | 66 | 77 |
| | 68 | 66 | 64 | 67 | 00 | 09 | 08 | 07 | 09 | 05 | 04 | 07 | 05 | 05 | 03 | 00 | 01 | 02 | 03 | 04 | 08 | 02 | 04 |

Sarcoma, Metastatic, Mesentery

X

Lymph Node, Mesenteric
 Sarcoma, Metastatic, Mesentery

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

X

Spleen
 Fibrosarcoma

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

X

Thymus
 Alveolar/Bronchiolar Carcinoma, Metastatic,
 Lung
 Sarcoma, Metastatic, Mesentery

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

X

X

X

INTEGUMENTARY SYSTEM

Mammary Gland

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

Skin
 Subcutaneous Tissue, Sarcoma

+ +

X

X

X

X

MUSCULOSKELETAL SYSTEM

Bone
 Osteosarcoma, Multiple

+ +

X

Skeletal Muscle
 Sarcoma, Metastatic, Mesentery

+
 X

NERVOUS SYSTEM

Brain

+ +

Peripheral Nerve

+

* .. 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| B6C3F1 MICE FEMALE

1250 mg/l | DAY ON TEST | 04 | 05 | 05 | 05 | 05 | 05 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 |
| | | 9 | 0 | 3 | 7 | 8 | 8 | 1 | 3 | 4 | 4 | 4 | 6 | 6 | 7 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 4 | 9 | 3 | 3 | 2 | 6 | 2 | 2 | 1 | 7 | 8 | 4 | 9 | 7 | 6 | 1 | 2 | 2 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | ANIMAL ID | 003966 | 000336 | 000336 | 000336 | 000336 | 000336 | 000336 | 000336 | 000336 | 000336 | 000336 | 000336 | 000336 | 000336 | 000336 | 000336 | 000336 | 000336 | 000336 | 000336 | 000336 | 000336 | 000336 | 000336 | 000336 | 000336 | 000336 | 000336 | 000336 | 000336 | 000336 | 000336 | 000336 | 000336 | 000336 |

females
(cont...)

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Osteosarcoma, Metastatic, Bone | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | A | A | A | + | A | + | + | A | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | | |

SYSTEMIC LESIONS

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
| | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | | 0729 |
| 1250 mg/l | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 50 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
| Esophagus | + | | | | | | | | | | | | | | | | | | | | | | 50 |
| Gallbladder | + | | | | | | | | | | | | | | | | | | | | | | 35 |
| Intestine Large, Cecum | + | | | | | | | | | | | | | | | | | | | | | | 39 |
| Intestine Large, Colon | + | | | | | | | | | | | | | | | | | | | | | | 38 |
| Intestine Large, Rectum | + | | | | | | | | | | | | | | | | | | | | | | 38 |
| Intestine Small, Duodenum | + | | | | | | | | | | | | | | | | | | | | | | 37 |
| Intestine Small, Ileum | + | | | | | | | | | | | | | | | | | | | | | | 37 |
| Intestine Small, Jejunum | + | | | | | | | | | | | | | | | | | | | | | | 38 |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Liver | + | | | | | | | | | | | | | | | | | | | | | | 50 |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Hepatoblastoma | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Hepatoblastoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | | | | | | 9 |
| Hepatocellular Adenoma, Multiple | X | | | | | | | | | | | | | | | | | | | | | | 30 |
| Hepatocellular Carcinoma | X | | | | | | | | | | | | | | | | | | | | | | 18 |
| Hepatocellular Carcinoma, Multiple | X | | | | | | | | | | | | | | | | | | | | | | 5 |
| Osteosarcoma, Metastatic, Bone | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Mesentery | + | | | | | | | | | | | | | | | | | | | | | | 9 |
| Sarcoma | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pancreas | + | | | | | | | | | | | | | | | | | | | | | | 45 |

* .. 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE FEMALE | 1250 mg/l | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--------------------|-----------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|
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| ANIMAL ID | | 0
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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| Sarcoma, Metastatic, Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach
Squamous Cell Papilloma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47
1 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 41 |
| Tongue
Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1
1 |
| Tooth | | | | + | | | | | | | | | + | + | | | | | | | | | | | | 9 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pericardium, Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Sarcoma, Metastatic, Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Islets, Pancreatic
Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45
1 |
| Parathyroid Gland | + | + | + | + | + | M | + | + | + | + | + | M | + | + | + | M | + | + | + | + | + | + | + | + | 41 | |

* .. 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
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 First Dose M/F: 11/09/04 / 11/08/04
 Lab: BAT

| B6C3F1 MICE FEMALE
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 | * TOTALS | |
|---------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|--|
| | ANIMAL ID | 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 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| | | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 8 | 8 | 8 | 8 | 8 | 6 | 6 | 7 | 7 | 8 | 9 | 9 | 9 | 9 | 9 | 5 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | | |
| | | 6 | 0 | 5 | 6 | 7 | 8 | 1 | 4 | 0 | 1 | 3 | 0 | 1 | 2 | 3 | 5 | 9 | 6 | 2 | 7 | 8 | 9 | 1 | 2 | 9 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| Pituitary Gland
Pars Distalis, Adenoma | + | + | + | + | M | + | + | + | + | I | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | 46
3 |
| Thyroid Gland
Follicular Cell, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49
1 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Ovary
Cystadenoma
Hemangioma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47
6
1 |
| Uterus
Hemangiosarcoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49
1 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Lymph Node
Bronchial, Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung | | | | | | | | | | | | | | | + | | | | | | | | | | + | 8
1 |
| Iliac, Sarcoma, Metastatic, Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Mediastinal, Sarcoma, Metastatic, Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |

* .. 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 09:52:36
 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 |
| B6C3F1 MICE FEMALE | 1250 mg/l | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | | 7 | 8 | 8 | 8 | 8 | 8 | 6 | 6 | 7 | 7 | 8 | 9 | 9 | 9 | 9 | 5 | 7 | 7 | 7 | 7 | 8 | |
| | | 6 | 0 | 5 | 6 | 7 | 8 | 1 | 4 | 0 | 1 | 3 | 0 | 1 | 2 | 3 | 5 | 9 | 6 | 2 | 7 | 8 | |
| | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Sarcoma, Metastatic, Mesentery | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymph Node, Mesenteric
Sarcoma, Metastatic, Mesentery | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Spleen
Fibrosarcoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Thymus
Alveolar/Bronchiolar Carcinoma, Metastatic,
Lung
Sarcoma, Metastatic, Mesentery | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Skin
Subcutaneous Tissue, Sarcoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | | | | | | | | | | | | | | | 4 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Bone
Osteosarcoma, Multiple | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Skeletal Muscle
Sarcoma, Metastatic, Mesentery | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | 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
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P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

beta-Picoline
 CAS Number: 108-99-6

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

| B6C3F1 MICE FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
| | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | | 0729 |
| 1250 mg/l | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | |
| ANIMAL ID | 0037 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | |

Spinal Cord 1

RESPIRATORY SYSTEM

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

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 39 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Carcinoma | X | | | | X | | | | | X | | | | | | | | | | | | | | | 4 |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | + | | 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

