

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

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Gallbladder | 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 | + | + | + | |
| Intestine Large, Colon | + | + | 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 | + | + | + | |
| Intestine Small, Ileum | 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 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemangiosarcoma | X | | | | | | | | | | | | | | | | | | | | | | | X | |
| Hepatoblastoma | | | | | | | | | X | | | | | | | 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 | |
| Hepatocholeangiocarcinoma | | | | | | | | | | | | | | | | | | X | | | | | | | |
| Mesentery | | | | | | | | + | | | | | | | | | | | | + | | | | | |
| Hepatocholeangiocarcinoma, 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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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 |
|------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| 0 mg/l | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 |
| | | 0 | 8 | 4 | 0 | 1 | 9 | 5 | 3 | 8 | 2 | 8 | 6 | 6 | 9 | 1 | 6 | 7 | 3 | 7 | 3 | 9 | 9 |

males
(cont...)

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
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
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| B6C3F1 MICE MALE 0 mg/l | | 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 1 9 | 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 5 9 4 | 0 6 1 6 | 0 6 1 9 | 0 6 2 4 | 0 6 2 7 | 0 6 4 6 | 0 6 4 8 | 0 6 7 0 | 0 6 7 0 | | | | |
| Lymph Node, Mesenteric | | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | A | A | A | + | + | + | | | |
| Spleen | | A | A | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | | | |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | |
| Thymus | | A | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | A | + | A | + | + | + | + | + | | | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | |
| Hepatocholangiocarcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 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
 + .. 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 | |
| 0 mg/l | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | males (cont...) |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 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 | | | |
| Hepatocholeangiocarcinoma, 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 | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | A | + | + | + |
| Adenoma | | | | | | | | | | | | X | | | | | | | X | X | | | | |
| Carcinoma | | | | | | | X | | | | | | | | | | | | | | | | | |
| Rhabdomyosarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | X | | |
| Urethra | | + | + | | | | | | + | | | | | | | | | | | | | | | |
| Urinary Bladder | 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
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|--|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------------------|------------------|---|
| B6C3F1 MICE MALE 0 mg/l | DAY ON TEST | 0 4 0 2 | 0 4 4 1 | 0 4 5 5 | 0 4 5 5 | 0 4 5 0 | 0 5 5 8 | 0 5 5 9 | 0 5 5 4 | 0 5 5 3 | 0 5 5 2 | 0 5 5 7 | 0 5 5 5 | 0 5 5 0 | 0 6 9 4 | 0 5 9 6 | 0 6 9 3 | 0 6 9 4 | 0 6 2 7 | 0 6 4 6 | 0 6 4 8 | 0 6 7 0 | 0 6 7 0 | males (cont...) | | |
| | ANIMAL ID | 0 0 3 0 | 0 0 2 8 | 0 0 1 4 | 0 0 4 4 | 0 0 4 1 | 0 0 4 9 | 0 0 0 5 | 0 0 1 3 | 0 0 4 8 | 0 0 0 2 | 0 0 1 8 | 0 0 0 6 | 0 0 0 6 | 0 0 2 9 | 0 0 2 1 | 0 0 3 6 | 0 0 4 7 | 0 0 2 3 | 0 0 1 4 | 0 0 0 3 | 0 0 1 9 | 0 0 3 9 | | 0 0 0 4 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 |

SYSTEMIC LESIONS

Multiple Organ
 Mesothelioma Benign

+ + + + + + + + + X +

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

M .. Missing tissue
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| B6C3F1 MICE MALE 0 mg/l | DAY ON TEST | 0717 | 0730 | 0731 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | * TOTALS | |
|----------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
| | ANIMAL ID | 0047 | 0016 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | | 0001 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Gallbladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 36 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 35 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 40 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 39 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 36 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 36 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 35 |
| Carcinoma | | | | | | | X | | | | | | | | | | | | | | | | | | | | | 2 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemangiosarcoma | | X | | | | | | | | | | | | | | | | | | | | | | | | | | 5 |
| Hepatoblastoma | | | | | | | | | | | | | | | | | | | X | | | | | | | | | 3 |
| Hepatoblastoma, Multiple | | | X | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Hepatocellular Adenoma | | | X | X | | | | X | | | | | X | | X | X | | | | | X | X | | | | | | 12 |
| Hepatocellular Adenoma, Multiple | | X | | | | X | X | | X | X | X | X | | X | | | X | | X | X | | | X | X | | | | 21 |
| Hepatocellular Carcinoma | X | | X | | | | | X | X | | | | | | | X | X | X | | X | X | | | X | | | | 20 |
| Hepatocellular Carcinoma, Multiple | | | | | X | | | | | | | X | | | | | | | | | | | | | | | | 6 |
| Hepatocholangiocarcinoma | | | | X | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Mesentery | + | | | | | | + | | | + | | + | | | | | | | | | | | | | | | | 7 |
| Hepatocholangiocarcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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 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 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 | 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 | |
| | | 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 | 1 | 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 | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Coagulating Gland | + | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocholangiocarcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Hepatocholangiocarcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Mediastinal, Hepatocholangiocarcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Rhabdomyosarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | X | 1 |

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

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

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

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 0 mg/l | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * 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 | |
| | | 1 | 3 | 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 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 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 | 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 | 4 | 5 | |
| Lymph Node, Mesenteric | | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 | |
| Spleen | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Thymus | | + | + | + | + | + | M | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | M | M | 41 | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Hepatocholangiocarcinoma, 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 | 0 | |
| Skin | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Subcutaneous Tissue, Fibrous Histiocytoma | | | | | X | | | | | | | | | | | | | | | | | | | | | 1 | |
| Subcutaneous Tissue, Hemangioma | | | | | | | | | | | | X | | | | | | | | | | | | | | 1 | |
| Subcutaneous Tissue, Hemangiosarcoma | | | | | | | | | | | | | | | | | | | X | | | | | | | 1 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Rhabdomyosarcoma | | | | | | | | | | | | | | | | | | | | | | | | X | | 1 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Alveolar/Bronchiolar Adenoma | | | X | | X | | | | | | | X | X | | | | X | | | | | | X | | | 6 | |

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

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

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 Species/Strain: MICE/B6C3F1

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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 | | | | | | | | | | | | | | | | | | | | | | | | | * 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 | | | | | | | | 9 |
| Carcinoma, Metastatic, Harderian Gland | | | | | | | | | | | | | | | | | | X | | | | | | | | | 1 |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Hepatoblastoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | X | | | | | 2 |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | X | | | X | | | | | X | | | | X | X | | | | X | | X | | | 14 |
| Hepatocholangiocarcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Rhabdomyosarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | X | | | | | 1 |
| Sarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 36 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Adenoma | | | | | | | | | | | | | | | X | | | | | | | X | | | | | 5 |
| Carcinoma | | | | | | | | | | | | | | | | | X | | | | | | | | | | 2 |
| Rhabdomyosarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | X | | | | 1 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Urethra | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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
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|--|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------------------|
| 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 6 | 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 2 | 0 0 0 9 5 | 0 0 0 6 3 | 0 0 0 8 9 | 0 0 0 9 3 | 0 0 0 6 9 | 0 0 0 8 1 | 0 0 0 9 0 | 0 0 0 6 8 | 0 0 0 7 2 | 0 0 0 5 2 | 0 0 0 9 4 | 0 0 0 6 7 | 0 0 0 9 8 | 0 0 0 5 4 | 0 0 0 9 5 | |

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 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatoblastoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatoblastoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 |
| Hepatocellular Carcinoma, Multiple | | | | | | | | X | X | X | | | | X | | | | | X | X | | | X | | |
| Hepatocholangiocarcinoma | | | | | | | | | | | X | | | | | | | | | | | | | | |
| Ito Cell Tumor 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

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| B6C3F1 MICE MALE 312.5 mg/l | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|------------------|------------------|------------------|------------------|--|
| | 0 4 0 7 | 0 4 7 0 | 0 5 1 2 | 0 5 4 5 | 0 5 8 0 | 0 5 8 3 | 0 5 8 5 | 0 5 8 3 | 0 5 9 3 | 0 5 9 3 | 0 5 9 3 | 0 6 0 4 | 0 6 1 1 | 0 6 2 7 | 0 6 2 7 | 0 6 3 2 | 0 6 3 8 | 0 6 4 2 | 0 6 5 0 | 0 6 7 2 | 0 6 7 4 | 0 6 7 5 | 0 6 7 2 | 0 6 7 4 | 0 6 7 6 | | | 0 6 7 8 | 0 6 7 4 | 0 6 7 5 | 0 6 7 3 | |
| Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas Sarcoma, Metastatic, Liver | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Stomach, Forestomach Hemangioma Squamous Cell Papilloma | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A | + | + | | | | |
| Stomach, Glandular | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | + | A | + | + | + | A | + | + | | | | | |
| Tooth | + | + | + | + | + | + | + | + | | | | | | + | + | | | | | | + | + | + | + | | | + | + | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Heart Hemangiosarcoma Hepatocellular Carcinoma, Metastatic, Liver Sarcoma, Metastatic, Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Adrenal Cortex Sarcoma, Metastatic, Liver Subcapsular, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | + | A | + | + | + | + | + | + | + | | |
| Islets, Pancreatic | 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

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| B6C3F1 MICE MALE 312.5 mg/l | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|---|
| | 0 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | | |
| | 7 | 0 | 1 | 4 | 8 | 8 | 8 | 9 | 9 | 0 | 1 | 2 | 2 | 2 | 3 | 3 | 4 | 5 | 0 | 2 | 4 | 5 | 2 | 3 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 0 | 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 | 7 | 4 |
| | | 4 | 1 | 1 | 0 | 4 | 9 | 6 | 5 | 2 | 9 | 3 | 9 | 1 | 0 | 9 | 8 | 2 | 2 | 4 | 7 | 6 | 8 | 4 | 4 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | + | + | + | + | + | + | + | + | + | A | + | | |
| Testes | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Interstitial Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hepatoblastoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | + | X | | | |
| Lymph Node, Mandibular | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Carcinoma, Metastatic, Harderian Gland | | | | | | | | | | | | | | | | | | | | | | X | 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 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 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 7 | 0 7 | 0 1 | 0 4 | 0 8 | 0 8 | 0 8 | 0 9 | 0 9 | 0 0 | 0 1 | 0 2 | 0 2 | 0 3 | 0 3 | 0 4 | 0 5 | 0 5 | 0 6 | 0 6 | 0 7 | 0 7 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Alveolar/Bronchiolar Carcinoma | | | X | | X | | | | | | | | | | | | | | | | | | | |
| Alveolar/Bronchiolar Carcinoma, Multiple | | | | | | | X | | | | | | | | | | | | | | X | | | |
| Hemangiosarcoma, Metastatic, Liver | | | | | | X | | | | | | | | | | | | | | | | | | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | 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 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | 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 | 0 4 0 7 | 0 4 7 0 | 0 5 1 2 | 0 5 4 5 | 0 5 8 0 | 0 5 8 3 | 0 5 8 5 | 0 5 8 3 | 0 5 9 3 | 0 6 0 4 | 0 6 1 1 | 0 6 2 7 | 0 6 2 7 | 0 6 3 2 | 0 6 3 8 | 0 6 4 2 | 0 6 7 5 | 0 6 9 0 | 0 7 0 4 | 0 7 1 5 | 0 7 2 2 | 0 7 3 0 | 0 7 4 3 | | | |
| | ANIMAL ID | 0 0 7 4 | 0 0 7 1 | 0 0 9 1 | 0 0 7 0 | 0 0 6 4 | 0 0 5 9 | 0 0 8 6 | 0 0 5 5 | 0 0 9 2 | 0 0 6 9 | 0 0 8 3 | 0 0 9 9 | 0 0 6 1 | 0 0 8 0 | 0 0 9 8 | 0 0 7 2 | 0 0 5 2 | 0 0 9 4 | 0 0 6 7 | 0 0 9 6 | 0 0 8 8 | 0 0 5 4 | 0 0 9 5 | 0 0 6 3 | | |
| | Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | X | | | | | | | | | 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 | 0 | 0 | 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 | 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 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 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 | 0 | 1 | |
| | | 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 | |

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 | | | | | | | | | | | | | | | | | | | | | | | | X | | | 1 |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | X | | | 1 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemangioma | | | | | | | | | | | | | | | | | | | | | | | | | X | | 1 |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | X | | | | | | | | | 4 |
| Hepatoblastoma | | | | X | | | | | | | | | X | X | | | | | | | | | | | | | 5 |
| Hepatoblastoma, Multiple | | | | | | | | | | | | | | | X | | | | | | | | | | | | 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 | X | | | 30 |
| Hepatocellular Carcinoma | | | X | X | | | | | | 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 | 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 | 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 | 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 | | | | | | | | | | | | | | | | | | | | | | | | | X | 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 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|--------|----------|
| | 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 | | | | |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | | | |
| 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 | M | M | M | M | 0 | | |
| Skin Subcutaneous Tissue, Fibrous Histiocytoma | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Subcutaneous Tissue, Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | 2 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

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

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Gallbladder | + | + | 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 | + | + | |
| 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 | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatoblastoma | X | | | | | | | | | | | | | | X | | | | | | | | | | |
| Hepatoblastoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Hepatocellular Adenoma | | X | | X | | | X | | | | | | | | X | | X | | | | X | X | | | |
| Hepatocellular Adenoma, Multiple | | | | | X | | | X | X | | X | X | X | X | | | | | | X | X | | | X | |
| Hepatocellular Carcinoma | | X | | | X | X | | | | | X | | X | | | X | | X | | | | | X | | |
| Hepatocellular Carcinoma, Multiple | X | | | | | | | X | | | X | X | | | | X | | | | | 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 | 0 | ANIMAL ID | males (cont...) | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|---|
| | 0 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | | | 8 |
| | | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 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 | 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 | 0 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | | 0 | 2 | 3 | 3 | 2 | 4 | 0 | 0 | 1 | 1 | 0 | 4 | 2 | 4 | 3 | 2 | 3 | 5 | 0 | 1 | 4 | 3 | 2 | 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 | | |
| 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 | | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | | |
| Adenoma | | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| Parathyroid Gland | | + | + | M | + | + | + | + | + | + | + | M | + | + | + | + | M | + | + | M | + | + | + | + | + | | | |
| Pituitary Gland | | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Pars Distalis, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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 5 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 | | | 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 | 0 0 1 0 8 | 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 |
| 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

| | | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | | | |
|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
| B6C3F1 MICE MALE 625 mg/l | DAY ON TEST | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | | |
| | ANIMAL ID | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | |
| | | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | | |
| | | 02 | 03 | 03 | 02 | 04 | 00 | 00 | 01 | 01 | 00 | 04 | 02 | 04 | 03 | 02 | 03 | 05 | 00 | 01 | 04 | 03 | 02 | 01 | 04 | 03 | 02 | 01 | 01 | | | |
| | | 84 | 47 | 71 | 13 | 29 | 44 | 11 | 51 | 44 | 06 | 86 | 22 | 59 | 77 | 33 | 00 | 55 | 08 | 44 | 32 | 92 | 84 | 72 | 59 | 33 | 27 | 03 | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

males
(cont...)

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

URINARY SYSTEM

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

SYSTEMIC LESIONS

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

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

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

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

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 | 0730 | 0730 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | * TOTALS |
| | ANIMAL ID | 00120 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | |

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 | |
|---|-------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| | 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 |
| | | 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 | 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 |
| | | 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 | 1 | 1 | 3 | 3 | 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 |
| | | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | X | | | | | | 1 | |
| Stomach, Glandular | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 43 |
| Tooth | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 42 |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenoma | | | | | | | | | | | | | X | | | | | | | | | | | | | 1 |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Subcapsular, Adenoma | | | | | | | | | | X | | | | | | | | | | | X | | | | | 5 |
| Adrenal Medulla | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Islets, Pancreatic | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Parathyroid Gland | | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 44 |
| Pituitary Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Pars Distalis, Adenoma | | | | | | | | | X | | | | | | | | | | | | | | | | | 1 |

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

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

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

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 | 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 | 1 | 1 | 3 | 3 | 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 | 3 | 6 | |

Thyroid Gland + 49

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis + 50

Preputial Gland + 50

Prostate + 48

Seminal Vesicle + 49

Testes + 50

Interstitial Cell, Adenoma + 1

HEMATOPOIETIC SYSTEM

Bone Marrow + 48

Lymph Node, Mandibular + 49

Lymph Node, Mesenteric + M + + + 43

Spleen + 47

Hemangiosarcoma + 2

Thymus + 48

Hepatoblastoma, Metastatic, Liver + 1

Hepatocellular Carcinoma, Metastatic, Liver + 1

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

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

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

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 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 | | | | | | | | | | | | | | | | | | 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 | * 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 | 3 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 43 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | Harderian Gland Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | Harderian Gland Carcinoma | | | | X | | | X | | | | | | | | | | | | | | | | 3 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 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 Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |

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

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------|
| B6C3F1 MICE MALE 1250 mg/l | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | males (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 | |
| | 3 9 9 | 4 2 5 | 4 6 5 | 5 2 5 | 5 3 4 | 5 3 4 | 5 3 4 | 5 3 4 | 5 7 1 | 6 7 5 | 6 8 7 | 6 9 0 | 7 1 0 | 7 1 3 | 7 1 5 | 7 2 4 | 7 3 0 | 7 3 0 | 7 3 0 | 7 3 0 | 7 3 0 | 7 3 0 | 7 3 0 | 7 3 0 | 7 3 0 | 7 3 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 | + | + | + | + | + | + | + | + | + | + | + |
| 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 Adenoma | A | A | + | A | + | + | + | A | A | A | A | + | A | A | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | A | A | + | A | + | + | + | A | A | A | A | + | A | A | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum Adenoma | A | A | + | A | + | + | + | A | A | A | A | + | A | A | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cholangioma, Multiple | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Hemangiosarcoma | | | | | | | | | | | X | | | | | | | | | | | | | | |
| Hepatoblastoma | | | | | | | | | | | | | | X | | | | | X | | | | | | X |
| Hepatocellular Adenoma | | | X | | X | X | | | | X | X | | | | | | | X | X | | | | X | | X |
| Hepatocellular Adenoma, Multiple | | | | | | | X | X | X | | | | | X | | X | X | | | | X | X | | | X |
| Hepatocellular Carcinoma | | | | | X | X | | | | | | | X | X | X | X | | X | | | | X | | | |
| Hepatocellular Carcinoma, Multiple | | | | | X | | | | | X | X | X | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | + | |
| 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

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| 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 | + | + | + | X | X | + | + | + | + | + | + | + | + | |
| 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
 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 1250 mg/l | DAY ON TEST | 0399 | 0455 | 0455 | 0555 | 0555 | 0555 | 0666 | 0666 | 0666 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | males (cont...) |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
| | ANIMAL ID | 00188 | 00185 | 00155 | 00153 | 00100 | 00103 | 00104 | 00105 | 00106 | 00107 | 00108 | 00109 | 00110 | 00111 | 00112 | 00113 | 00114 | 00115 | 00116 | 00117 | 00118 | 00119 | 00120 | |
| Epididymis | | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Preputial Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Prostate | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Seminal Vesicle | | + | A | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | |
| Testes Interstitial Cell, Adenoma | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow Hemangiosarcoma | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymph Node Mediastinal, Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | + | |
| Lymph Node Mediastinal, Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Lymph Node, Mandibular Hepatocellular Carcinoma, Metastatic, Liver | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymph Node, Mesenteric | | + | + | + | + | + | + | + | + | M | A | A | + | + | A | + | + | + | + | + | + | + | + | + | |
| Spleen Hemangiosarcoma | | A | + | + | + | + | + | + | + | A | + | + | + | A | A | + | + | X | + | + | + | + | + | + | |
| Thymus Hepatocellular Carcinoma, Metastatic, Liver | | + | + | + | + | + | + | + | + | + | M | + | + | + | 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 | 0 3 9 9 | 0 4 2 5 | 0 4 6 5 | 0 5 2 2 | 0 5 3 4 | 0 5 3 4 | 0 5 3 4 | 0 5 3 1 | 0 6 7 5 | 0 6 8 7 | 0 6 9 0 | 0 7 1 0 | 0 7 1 0 | 0 7 1 3 | 0 7 2 5 | 0 7 3 4 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | males (cont...) |
| | ANIMAL ID | 0 0 1 8 8 | 0 0 1 8 5 | 0 0 1 5 5 | 0 0 1 6 5 | 0 0 1 5 3 | 0 0 1 6 3 | 0 0 1 9 4 | 0 0 1 7 5 | 0 0 1 6 1 | 0 0 1 6 4 | 0 0 1 7 4 | 0 0 1 6 4 | 0 0 1 7 8 | 0 0 1 7 0 | 0 0 1 6 7 | 0 0 1 9 6 | 0 0 1 7 8 | 0 0 1 5 5 | 0 0 1 5 5 | 0 0 1 7 9 | 0 0 1 8 9 | 0 0 1 8 0 | 0 0 1 8 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 |
| 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 | | | | | | | | | | | |
| 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 1250 mg/l | DAY ON TEST | 0 3 9 9 | 0 4 2 5 | 0 4 6 5 | 0 5 2 2 | 0 5 3 4 | 0 5 3 4 | 0 5 3 4 | 0 5 7 1 | 0 6 7 5 | 0 6 8 7 | 0 6 9 0 | 0 7 0 1 | 0 7 1 1 | 0 7 1 1 | 0 7 2 4 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | | | |
|---|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|---|--|
| | ANIMAL ID | 0 0 1 8 8 | 0 0 1 8 5 | 0 0 1 5 5 | 0 0 1 6 5 | 0 0 1 5 3 | 0 0 1 6 3 | 0 0 1 9 4 | 0 0 1 7 5 | 0 0 1 6 1 | 0 0 1 6 4 | 0 0 1 7 4 | 0 0 1 6 8 | 0 0 1 7 0 | 0 0 1 6 7 | 0 0 1 9 6 | 0 0 1 7 8 | 0 0 1 5 1 | 0 0 1 5 5 | 0 0 1 7 5 | 0 0 1 8 9 | 0 0 1 8 9 | 0 0 1 8 9 | 0 0 1 8 9 | 0 0 1 8 9 | 0 0 1 8 9 | 0 0 1 6 0 | | | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Trachea | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | A | A | + | A | + | + | + | A | A | A | A | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Harderian Gland | | + | + | + | + | + | + | + | + | + | A | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | 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 | |
| 1250 mg/l | ANIMAL ID | 00191 | 00117 | 00112 | 00116 | 00119 | 00123 | 00127 | 00131 | 00135 | 00139 | 00143 | 00147 | 00151 | 00155 | 00159 | 00163 | 00167 | 00171 | 00175 | 00179 | 00183 | 00187 | 00191 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | | 9 | 5 | 6 | 6 | 6 | 7 | 8 | 8 | 8 | 9 | 9 | 0 | 5 | 5 | 5 | 6 | 7 | 7 | 7 | 8 | 8 | 9 | 9 | 9 | |
| | | 1 | 7 | 2 | 6 | 9 | 2 | 3 | 7 | 9 | 2 | 9 | 0 | 2 | 4 | 6 | 7 | 1 | 3 | 6 | 2 | 4 | 3 | 5 | 7 | 8 |
| | | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Gallbladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 42 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 40 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 40 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 41 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 40 |
| Adenoma | | | | | X | | | | | | | | | | | | | | | | | | | | 1 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 40 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 40 |
| Adenoma | | | | | | | | | | | | | | | | | X | | | | | | | | 1 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cholangioma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hepatoblastoma | | | | | | | | | | | | | | | | | | | | | | X | | | 4 |
| Hepatocellular Adenoma | | X | | | X | X | | | | | | | | X | | | X | | X | X | | | | | 15 |
| Hepatocellular Adenoma, Multiple | X | | X | X | | | X | | | X | X | X | | | | X | X | | | | | X | X | 20 | |
| Hepatocellular Carcinoma | | | | X | | | | | | | X | | | | | X | X | X | X | | | | | | 15 |
| Hepatocellular Carcinoma, Multiple | | | X | | | | | | X | | | | | | | | | | | | X | X | | | 8 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |

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

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

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

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|----|
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach Squamous Cell Papilloma | + | + | + | + | + | + | + | | X | X | + | + | + | + | + | + | + | + | + | + | + | + | 47 3 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 | |
| Tooth | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | | + | + | + | | + | + | 41 | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| Adrenal Cortex Subcapsular, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | + | 48 3 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Parathyroid Gland | + | + | M | M | + | + | + | M | + | M | + | + | + | + | M | + | + | M | + | + | M | M | 31 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |

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
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 | * 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 | |
| 1250 mg/l | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | | 9 | 5 | 6 | 6 | 6 | 7 | 8 | 8 | 8 | 9 | 9 | 0 | 5 | 5 | 5 | 6 | 7 | 7 | 7 | 8 | 8 | 9 | 9 | | |
| | | 1 | 7 | 2 | 6 | 9 | 2 | 3 | 7 | 9 | 2 | 9 | 0 | 2 | 4 | 6 | 7 | 1 | 3 | 6 | 2 | 4 | 3 | 5 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Interstitial Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | X | 2 |
| Lymph Node | | | | | | + | | | | | | | | | | | | | | | | | | | 2 |
| Mediastinal, Hemangiosarcoma | | | | | | X | | | | | | | | | | | | | | | | | | | 1 |
| Mediastinal, Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | 45 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | X | | 2 |
| Thymus | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | | 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 | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1250 mg/l | 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 | |
| | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 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 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 9 | 5 | 6 | 6 | 6 | 7 | 8 | 8 | 8 | 9 | 9 | 0 | 5 | 5 | 5 | 6 | 7 | 7 | 7 | 8 | 8 | 9 | 9 | 9 | 9 | |
| | 1 | 7 | 2 | 6 | 9 | 2 | 3 | 7 | 9 | 2 | 9 | 0 | 2 | 4 | 6 | 7 | 1 | 3 | 6 | 2 | 4 | 3 | 5 | 7 | 8 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Mammary Gland | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Subcutaneous Tissue, Fibrous Histiocytoma | | | | | | | X | | | | | | | | | | | | | | | | | | | | 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 MALE 1250 mg/l | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----------|
| | 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 | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Trachea | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 40 | |
| Harderian Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Carcinoma | | | | | | | | | | | X | | | | | | | | | | | | | 3 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Renal Tubule, Adenoma, Multiple | | | | | | | | | | X | | | | | | | | | | | | | | 1 | |
| Urethra | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

*** END OF MALE DATA ***

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

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

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

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...) | | | | |
|--------------------|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | 0 3 4 7 | 0 3 7 2 | 0 5 9 8 | 0 6 3 9 | 0 6 4 8 | 0 6 6 3 | 0 6 6 9 | 0 6 7 4 | 0 6 8 0 | 0 6 8 2 | 0 6 9 8 | 0 7 2 6 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | | | | | |
| 0 mg/l | | 0 0 2 1 4 | 0 0 2 0 3 | 0 0 2 4 5 | 0 0 2 4 6 | 0 0 2 2 6 | 0 0 2 1 9 | 0 0 2 0 3 | 0 0 2 0 6 | 0 0 2 0 4 | 0 0 2 2 7 | 0 0 2 0 7 | 0 0 2 1 2 | 0 0 2 0 5 | 0 0 2 0 9 | 0 0 2 1 6 | 0 0 2 2 0 | 0 0 2 2 5 | 0 0 2 2 9 | 0 0 2 3 0 | 0 0 2 3 2 | 0 0 2 3 4 | 0 0 2 4 6 | 0 0 2 4 0 | 0 0 2 4 3 | 0 0 2 4 7 |

Stomach, Forestomach

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

Stomach, Glandular

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

CARDIOVASCULAR SYSTEM

Blood Vessel

+ +

Heart

+ +

ENDOCRINE SYSTEM

Adrenal Cortex

+ A +

Adrenal Medulla
 Pheochromocytoma Benign

+ A +

Islets, Pancreatic

A A +

Parathyroid Gland

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

Pituitary Gland
 Pars Distalis, Adenoma

+ X X X

Thyroid Gland

A A +

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland

+ +

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

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

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

beta-Picoline
 CAS Number: 108-99-6

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 Lab: BAT

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

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

HEMATOPOIETIC SYSTEM

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

INTEGUMENTARY SYSTEM

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

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

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

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

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 | | | | | | | | | | | | | | | | | | | | females (cont...) | | | |
|--------------------|--------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | 0 3 4 7 | 0 3 7 2 | 0 5 9 8 | 0 6 3 9 | 0 6 4 8 | 0 6 6 8 | 0 6 6 9 | 0 6 7 4 | 0 6 8 0 | 0 6 8 2 | 0 6 9 8 | 0 7 2 6 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | | | | |
| | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | |
| | | 0 0 2 1 4 | 0 0 2 0 3 | 0 0 2 4 5 | 0 0 2 4 6 | 0 0 2 2 6 | 0 0 2 1 9 | 0 0 2 2 3 | 0 0 0 0 6 | 0 0 2 0 4 | 0 0 2 2 7 | 0 0 2 0 7 | 0 0 2 1 2 | 0 0 2 0 5 | 0 0 2 0 9 | 0 0 2 1 6 | 0 0 2 2 0 | 0 0 2 2 5 | 0 0 2 3 0 | 0 0 2 3 2 | 0 0 2 3 4 | 0 0 2 4 6 | 0 0 2 4 0 | 0 0 2 4 3 | 0 0 2 4 7 |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

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

SPECIAL SENSES SYSTEM

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

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

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

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 | 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 | 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 | 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 | 9 | 9 | |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 1 | 0 | 4 | 4 | 2 | 1 | 2 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | |
| | | 4 | 3 | 5 | 6 | 6 | 9 | 3 | 6 | 4 | 7 | 7 | 2 | 5 | 9 | 6 | 0 | 5 | 9 | 0 | 2 | 4 | 6 | 0 | 3 | 7 | 7 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Harderian Gland | A | A | + | A | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | | | 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 | DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|------------------------------|-------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
| | | 00729 | 00729 | 00730 | 00730 | 00730 | 00730 | 00730 | 00730 | 00730 | 00730 | 00730 | 00730 | 00730 | 00730 | 00730 | 00730 | 00730 | 00730 | 00730 | 00730 | | 00730 |
| 0 mg/l | | 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 | |
| | | 2 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Stomach, Glandular | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Heart | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Adrenal Medulla | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Pheochromocytoma Benign | | | | | | | X | | | | | | | | | | | | | | | | 1 |
| Islets, Pancreatic | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Parathyroid Gland | | + | + | M | + | M | + | + | M | + | + | + | M | + | + | + | + | + | M | + | + | M | 38 |
| Pituitary Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Pars Distalis, Adenoma | | | | | | | | | | | | | | | | | | | | | | X | 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
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TDMS No. 20009 - 04
 Test Type: CHRONIC
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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 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | | | |
| 0 mg/l | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Cystadenoma | | | | | | | | X | | | | | X | | | | | | | | | X | | | | 3 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Polyp Stromal | | | | | | | | | X | | | | | | | | | | | | | | | | | 2 | |
| Endometrium, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymph Node | | | | | | | | | + | | | | | | | | | | | | + | | | | | 6 | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Thymus | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Mast Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | | | | 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 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | | 0733 | 0733 |
| ANIMAL ID | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | 00250 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| | 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 |
| | 5 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 1 |
| | 0 | 0 | 5 | 7 | 1 | 2 | 3 | 5 | 9 | 1 | 9 | 1 | 2 | 8 | 1 | 3 | 8 | 4 | 8 | 1 | 7 | 8 | 1 |

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 | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--|--|
| | 0729 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | | |
| 0 mg/l | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | |
| | 005 | 007 | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 001 | 002 | 003 | | |
| | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | | |
| | 225 | 111 | 112 | 112 | 113 | 113 | 113 | 113 | 114 | 114 | 114 | 114 | 114 | 114 | 114 | 114 | 114 | 114 | 114 | 114 | 114 | 114 | | | |
| | 000 | 000 | 005 | 007 | 001 | 002 | 003 | 005 | 009 | 001 | 009 | 001 | 002 | 008 | 001 | 003 | 008 | 004 | 008 | 001 | 007 | 008 | 004 | | |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | | | | | | | | | | | | | | | | | | | | | | 45 | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Carcinoma | X | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| <hr/> URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | | | | | | | | | | | | | | | | | | | | | | 49 | | |
| Urinary Bladder | + | | | | | | | | | | | | | | | | | | | | | | 44 | | |
| <hr/> SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | | | | | | | | | | | | | | | | | | | | | | 50 | | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Lymphoma Malignant | 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 312.5 mg/l | DAY ON TEST | 0382 | 0494 | 0508 | 0533 | 0558 | 0628 | 0662 | 0666 | 0672 | 0688 | 0695 | 0700 | 0704 | 0707 | 0711 | 0718 | 0724 | 0729 | 0739 | 0749 | 0772 | 0779 | 0792 | 0799 | females (cont...) |
| | ANIMAL ID | 0079 | 0076 | 0055 | 0045 | 0005 | 0003 | 0001 | 0009 | 0002 | 0008 | 0005 | 0006 | 0007 | 0009 | 0006 | 0008 | 0009 | 0005 | 0004 | 0007 | 0000 | 0004 | 0000 | 0003 | |
| | | 2 | 4 | 8 | 3 | 3 | 8 | 8 | 2 | 2 | 2 | 0 | 5 | 7 | 0 | 4 | 1 | 1 | 8 | 4 | 9 | 9 | 9 | 9 | 9 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + |
| Gallbladder | A | A | A | + | A | A | A | A | A | A | A | + | A | + | A | + | + | + | + | + | + | + | + | + | + |
| Hepatoblastoma, Metastatic, Liver | | | | | | | | | | | | | | | X | | | | | | | | | | |
| 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 |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocellular Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocellular Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocellular Carcinoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mast Cell Tumor Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 312.5 mg/l | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) | | | | | | | | | |
|----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|------|------|------|------|------|---|---|
| | 0382 | 0494 | 0508 | 0503 | 0505 | 0508 | 0628 | 0602 | 0606 | 0608 | 0612 | 0615 | 0618 | 0620 | 0622 | 0625 | 0628 | 0700 | 0704 | 0707 | 0709 | 0712 | 0715 | 0719 | | | 0722 | 0725 | 0729 | 0732 | 0735 | 0738 | 0741 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 7 | 7 | 5 | 9 | 6 | 5 | 8 | 9 | 8 | 6 | 5 | 6 | 7 | 9 | 6 | 8 | 9 | 9 | 5 | 5 | 5 | 6 | 6 | 7 | 9 | 9 | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | |
| | 9 | 6 | 5 | 4 | 5 | 3 | 1 | 9 | 2 | 8 | 2 | 3 | 2 | 1 | 6 | 6 | 2 | 5 | 1 | 4 | 7 | 0 | 4 | 0 | 0 | 1 | 5 | 5 | 5 | 6 | 6 | 7 | 0 | 3 | |

Salivary Glands + + + + + + + M + M + + + + M + + + + + + + + + +

Stomach, Forestomach A + + + + + A + A + A + + A A A + + + + + + + + + +
 Squamous Cell Carcinoma
 Squamous Cell Papilloma

Stomach, Glandular A A A + A + A + A A A + + A A A + + + + + + + + + +

Tooth + M
 Gingiva, Fibroma, Osseous X

CARDIOVASCULAR SYSTEM

Blood Vessel + + +

Heart +

ENDOCRINE SYSTEM

Adrenal Cortex A + A + + + + A + + + + + A + A + + + + + + + + + +

Adrenal Medulla A + A + + + + A + + + + + A + A + + + + + + + + + +
 Pheochromocytoma Benign
 Pheochromocytoma Malignant X

Islets, Pancreatic A A A + + + + A A A + + A A A + + + + + + + + + +
 Adenoma

Parathyroid Gland M M + M + + + M + M + + + M M + + + + + + + M + M

Pituitary Gland + + + + A + + M + + + + + M + + + + + + + + + +
 Pars Distalis, Adenoma 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 | 0 | 0 | 0 | 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 | 0 | 0 | 0 | | |
| | | 3 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 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 | 2 | 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 | 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 | | |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| | | 7 | 7 | 5 | 9 | 6 | 5 | 8 | 9 | 8 | 6 | 5 | 6 | 7 | 9 | 6 | 8 | 9 | 9 | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | | |
| | | 9 | 6 | 5 | 4 | 5 | 3 | 1 | 9 | 2 | 8 | 2 | 3 | 2 | 1 | 6 | 6 | 2 | 5 | 1 | 4 | 7 | 0 | 4 | 0 | 0 | 3 | 3 | | |

Thyroid Gland

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

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland

+ +

Ovary
Cystadenoma

A + A + X

Uterus

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

HEMATOPOIETIC SYSTEM

Bone Marrow
Mast Cell Tumor Malignant

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

Lymph Node
Iliac, Mast Cell Tumor Malignant
Lumbar, Hemangiosarcoma
Renal, Hemangiosarcoma

+ + + X + + X X

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 + + + + + + + + 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 | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | females (cont...) | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------------|------------------|------------------|------------------|------------------|
| | 0 3 8 2 | 0 4 9 4 | 0 5 0 8 | 0 5 3 3 | 0 5 8 8 | 0 5 2 8 | 0 6 6 2 | 0 6 6 2 | 0 6 6 2 | 0 6 7 0 | 0 6 8 5 | 0 6 8 7 | 0 6 8 0 | 0 6 9 0 | 0 7 0 4 | 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 | 0 7 2 9 |
| Thymus | + | + | A | + | + | + | + | A | M | A | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung | | | | | | | | | | | | | | | X | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | females (cont...) | | |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------------|----------------|----------|
| | 03 82 | 04 94 | 05 08 | 05 33 | 05 53 | 05 88 | 06 28 | 06 62 | 06 62 | 06 70 | 06 85 | 06 97 | 07 00 | 07 04 | 07 11 | 07 11 | 07 81 | 07 74 | 07 72 | 07 29 | 07 29 | 07 99 | 07 79 | 07 79 | | 07 29 | 07 29 |
| ANIMAL ID | 00 27 96 | 00 07 75 | 00 02 59 | 00 02 69 | 00 02 56 | 00 02 85 | 00 01 91 | 00 02 99 | 00 02 82 | 00 02 88 | 00 02 56 | 00 07 96 | 00 02 32 | 00 02 11 | 00 02 66 | 00 02 66 | 00 02 22 | 00 05 51 | 00 05 54 | 00 05 57 | 00 06 60 | 00 06 64 | 00 07 70 | 00 06 64 | 00 07 73 | 00 07 03 | |
| 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 | 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 | + | + | + | + | + | + | + | + | + | + | + | |
| 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 | DAY ON TEST | 0729 | 0729 | 0729 | 0723 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | * TOTALS |
| | 312.5 mg/l | 0074 | 0073 | 0087 | 0088 | 0095 | 0095 | 0095 | 0061 | 0062 | 0069 | 0071 | 0075 | 0080 | 0084 | 0085 | 0088 | 0089 | 0090 | 0096 | 0097 | 0078 | |

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 | 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 | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----|--|
| | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | | | |
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 0 2 7 4 | 0 0 2 8 3 | 0 0 2 8 7 | 0 0 2 9 8 | 0 0 2 5 6 | 0 0 2 5 8 | 0 0 2 5 9 | 0 0 2 6 1 | 0 0 2 6 2 | 0 0 2 6 9 | 0 0 2 7 1 | 0 0 2 7 5 | 0 0 2 7 7 | 0 0 2 7 7 | 0 0 2 8 0 | 0 0 2 8 4 | 0 0 2 8 5 | 0 0 2 8 8 | 0 0 2 8 9 | 0 0 2 9 0 | 0 0 2 9 6 | 0 0 2 9 7 | 0 0 2 7 8 | 0 0 2 9 3 | 0 0 2 0 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
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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
 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 | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|----------------------------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|------------------|---|---|----|
| | | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | 0 7 2 9 | | 0 7 2 9 | | | |
| 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
 A .. Autolysis precludes evaluation
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TDMS No. 20009 - 04
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|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|---|---|---|----|
| | 0729 | 0729 | 0729 | 0729 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0731 | 0731 | 0731 | 0731 | | | | | |
| ANIMAL ID | 0074 | 0083 | 0087 | 0088 | 0095 | 0095 | 0095 | 0096 | 0096 | 0096 | 0096 | 0096 | 0096 | 0096 | 0096 | 0096 | 0096 | 0096 | 0096 | 0096 | 0096 | 0096 | 0096 | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | 44 |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| 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

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

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 | |
| | | ANIMAL ID | 3 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 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 | |
| | | | 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 | |
| | | | 4 | 6 | 9 | 3 | 8 | 2 | 3 | 7 | 9 | 8 | 3 | 4 | 5 | 1 | 7 | 1 | 6 | 8 | 9 | 2 | 6 | 8 | 3 | females (cont...) |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gallbladder | + | 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 | | | | | | | | | | | | | | | | | | | X | | | | | |
| Hepatoblastoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | X | |
| Hepatocellular Adenoma | X | X | X | X | | | X | | X | X | | | | | | | | | | | | | | |
| Hepatocellular Adenoma, Multiple | | | | | X | | | | | | X | X | | X | | | X | X | X | X | X | X | X | X |
| Hepatocellular Carcinoma | | | | X | | | X | | | | | X | | | | | X | X | X | X | X | X | X | X |
| Hepatocellular Carcinoma, Multiple | | | | | | X | | | | | | | | | | X | X | X | X | | | X | | |
| Rhabdomyosarcoma, Metastatic, Uncertain Primary Site | | | | X | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | + | | | + | + | + | + | | | | | | | | | | + | | + | | |
| Lipoma | | | | | | | | | | | | | | | | | | | | | | | X | |

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

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B6C3F1 MICE FEMALE | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 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 |
| 625 mg/l | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 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 | 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 | 3 |

females
(cont...)

Rhabdomyosarcoma, Metastatic, Uncertain Primary Site

X

Pancreas

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

Rhabdomyosarcoma, Metastatic, Uncertain Primary Site

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 + + + 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 | 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 | |
| | | 3 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 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 | |
| 625 mg/l | ANIMAL ID | 9 | 2 | 9 | 7 | 0 | 3 | 7 | 8 | 9 | 6 | 4 | 4 | 1 | 2 | 7 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 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 | | |
| | | 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 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 Cervix, Sarcoma | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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 | 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 | |
| | | 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 |
| | | 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 |
| | | 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 |
| 625 mg/l | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | |
| | | 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 | 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 | 3 | 3 | | |

females
(cont...)

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 | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0309 | 0522 | 0549 | 0617 | 0624 | 0644 | 0664 | 0684 | 0696 | 0704 | 0707 | 0717 | 0727 | 0737 | 0747 | 0757 | 0767 | 0777 | 0787 | 0797 | 0807 | 0817 | | |
| 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
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TDMS No. 20009 - 04
 Test Type: CHRONIC
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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 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 | * 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 | |
| | | 2 | 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 | 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 | 3 | |
| | | 3 | 3 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 0 | 0 | 1 | 1 | 1 | 2 | 3 | 3 | 3 | 3 | 4 | |
| | | 8 | 9 | 7 | 0 | 5 | 0 | 5 | 2 | 4 | 0 | 2 | 4 | 6 | 0 | 2 | 5 | 1 | 3 | 7 | 4 | 0 | 1 | 5 | 7 | 1 | |

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 | 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

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 | | | | | | | | | | | | | | | | | | | | | | | | | * 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 | 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 | 003338 | 003338 |
| | 0 | 0 | 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 |
| | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Rhabdomyosarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pancreas Rhabdomyosarcoma, Metastatic, Uncertain Primary Site | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Stomach, Forestomach Squamous Cell Papilloma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| | | | | | | | | | | | | | | | | | X | | | | | | | | | 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
 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 | ANIMAL ID | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--------------------------------|-------------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|
| | | 0729 | 0729 | 0730 | 0730 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | | 0733 | 0733 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 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 | |
| | | 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 | |
| | | 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 | |
| | | 8 | 9 | 7 | 0 | 5 | 0 | 5 | 2 | 4 | 0 | 2 | 4 | 6 | 0 | 2 | 5 | 1 | 3 | 7 | 4 | 0 | 1 | |

Pars Distalis, Adenoma

X

2

Thyroid Gland

+ +

45

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland

+ +

48

Ovary

+ +

48

Uterus

+ +

49

Cervix, Sarcoma

X

1

HEMATOPOIETIC SYSTEM

Bone Marrow

+ +

48

Lymph Node

+

6

Lymph Node, Mandibular

+ +

47

Lymph Node, Mesenteric

+ +

45

Spleen

+ +

45

Thymus

+ +

48

Hemangiosarcoma

X

1

Rhabdomyosarcoma, Metastatic, Uncertain
 Primary Site

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 625 mg/l | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | |
| | 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 | |
| | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 3 | 3 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 0 | 0 | 1 | 1 | 1 | 2 | 3 | 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 | 7 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 49 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 4 |

INTEGUMENTARY SYSTEM

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

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Alveolar/Bronchiolar Adenoma | | | | | | | | | X | | | | | | | | | | | | | | | | 4 |
| Alveolar/Bronchiolar Carcinoma | X | | | | X | | | | | X | | | | | X | X | | | | | | X | | | 8 |
| Alveolar/Bronchiolar Carcinoma, Multiple | | | | | | | | | | | | | | X | | | | | | | | | | | 2 |
| Carcinoma, Metastatic, Harderian Gland | X | | | | | | | | | | | | | | | | | | | | X | X | | | 3 |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | X | | | | | | | | | | X | | | | 8 |
| Sarcoma, Metastatic, Skin | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| 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 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 | * 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 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| | | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Eye | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 | |
| Harderian Gland | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 43 | |
| Adenoma | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | |
| Carcinoma | | 3 | 3 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 0 | 0 | 1 | 1 | 1 | 2 | 3 | 3 | 3 | 4 | 4 | |
| | | 8 | 9 | 7 | 0 | 5 | 0 | 5 | 2 | 4 | 0 | 2 | 4 | 6 | 0 | 2 | 5 | 1 | 3 | 7 | 4 | 0 | 1 | 5 | 7 | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 39 | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | X | | | | X | | | | | | | | X | X | | X | | | | | | 10 | |

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

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

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

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 4 9 4 | 0 5 0 9 | 0 5 3 3 | 0 5 7 3 | 0 5 8 2 | 0 5 8 6 | 0 6 1 2 | 0 6 3 2 | 0 6 4 1 | 0 6 4 7 | 0 6 6 4 | 0 6 6 9 | 0 6 7 6 | 0 7 1 1 | 0 7 2 2 | 0 7 2 2 | 0 7 2 2 | 0 7 2 2 | 0 7 2 2 | 0 7 2 2 | 0 7 2 2 | 0 7 2 2 | females (cont...) |
| | ANIMAL ID | 0 0 3 9 6 | 0 0 3 9 8 | 0 0 3 6 6 | 0 0 3 9 4 | 0 0 3 6 7 | 0 0 4 0 0 | 0 0 3 5 9 | 0 0 3 6 7 | 0 0 3 9 8 | 0 0 3 6 7 | 0 0 3 7 5 | 0 0 3 8 4 | 0 0 3 5 7 | 0 0 3 6 5 | 0 0 3 5 5 | 0 0 3 5 5 | 0 0 3 5 5 | 0 0 3 5 5 | 0 0 3 5 5 | 0 0 3 5 5 | 0 0 3 5 5 | 0 0 3 6 4 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gallbladder | 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 | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | 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 | + | + | + | + | + | + | + | + |
| 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 | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum Carcinoma | A | A | + | + | A | A | A | A | A | A | + | A | + | + | A | A | A | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemangiosarcoma | | | | | | | | | | | X | | | | | | | | | | | | | | |
| Hepatoblastoma | | | | | | | | | | | | | | | | X | | | | X | | | | | |
| Hepatoblastoma, Multiple | | | | | | | | | | | | | | | | | X | | | | | | | | |
| Hepatocellular Adenoma | | | | X | | | | | | | X | X | | | | | X | | | | X | | | | |
| Hepatocellular Adenoma, Multiple | | X | | | X | | X | | X | X | | | X | X | X | X | X | X | X | X | | X | X | | X |
| Hepatocellular Carcinoma | | | | | | | X | | | | | | | X | X | X | X | X | X | X | X | X | | X | X |
| Hepatocellular Carcinoma, Multiple | | | | | | X | | | | | | | | | | | | X | | X | | | | | |
| Osteosarcoma, Metastatic, Bone | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma | | | | | | + | + | | | | + | | | | | | | | | | | | + | + | |
| Pancreas | + | + | + | + | + | 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 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 | 0039 | |
| | 4 | 9 | 3 | 3 | 2 | 6 | 2 | 2 | 1 | 7 | 8 | 4 | 9 | 7 | 6 | 1 | 2 | 2 | 9 | 9 | 9 | 9 | 9 | 9 | 0039 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0039 | |
| | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0039 | |
| | 9 | 9 | 6 | 9 | 6 | 0 | 5 | 6 | 9 | 6 | 7 | 8 | 5 | 6 | 5 | 7 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 0039 | |
| | 6 | 8 | 6 | 4 | 7 | 0 | 9 | 8 | 7 | 9 | 5 | 4 | 7 | 5 | 5 | 3 | 0 | 1 | 2 | 3 | 4 | 8 | 2 | 4 | 0039 | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Sarcoma, Metastatic, Mesentery | X | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach Squamous Cell Papilloma | + + + + A + A + + + + + + + + A + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | |
| 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 + | | | | | | | | | | | | | | | | | | | | | | | |

| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Adrenal Cortex Adenoma Sarcoma, Metastatic, Mesentery | + | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic Adenoma | + + + + + A + + A A + A + + + + A + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | |
| 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 1250 mg/l | DAY ON TEST | 0 4 | 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 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 |
| | ANIMAL ID | 0 0 3 9 6 | 0 0 3 9 8 | 0 0 3 6 6 | 0 0 3 9 4 | 0 0 3 6 7 | 0 0 4 0 0 | 0 0 3 5 9 | 0 0 3 6 8 | 0 0 3 9 7 | 0 0 3 6 9 | 0 0 3 7 5 | 0 0 3 8 4 | 0 0 3 5 7 | 0 0 3 6 5 | 0 0 3 7 5 | 0 0 3 8 3 | 0 0 3 7 5 | 0 0 3 6 0 | 0 0 3 5 1 | 0 0 3 5 2 | 0 0 3 5 3 | 0 0 3 5 4 | 0 0 3 5 5 | 0 0 3 5 5 | 0 0 3 5 5 | 0 0 3 5 5 | 0 0 3 6 8 | 0 0 3 6 2 | 0 0 3 6 3 | |

females
(cont...)

Pituitary Gland
Pars Distalis, Adenoma

Thyroid Gland
Follicular Cell, Adenoma

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland

Ovary
Cystadenoma
Hemangioma

Uterus
Hemangiosarcoma

HEMATOPOIETIC SYSTEM

Bone Marrow

Lymph Node
Bronchial, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung
Iliac, Sarcoma, Metastatic, Mesentery
Mediastinal, Sarcoma, Metastatic, Mesentery

Lymph Node, Mandibular

* .. 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 | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|----------------------|
| | 04 | 05 | 05 | 05 | 05 | 05 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | | |
| | 09 | 00 | 03 | 07 | 08 | 08 | 01 | 03 | 04 | 04 | 06 | 06 | 07 | 01 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | | |
| | 04 | 09 | 03 | 03 | 02 | 06 | 02 | 02 | 01 | 07 | 08 | 04 | 09 | 07 | 06 | 01 | 02 | 02 | 09 | 09 | 09 | 09 | | |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | |
| | 03 | 03 | 03 | 03 | 04 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | | |
| | 09 | 09 | 06 | 09 | 06 | 00 | 05 | 06 | 09 | 06 | 07 | 08 | 05 | 06 | 05 | 07 | 06 | 05 | 05 | 05 | 05 | 05 | | |
| | 06 | 08 | 06 | 04 | 07 | 00 | 09 | 08 | 07 | 09 | 05 | 04 | 07 | 05 | 05 | 03 | 00 | 01 | 02 | 03 | 04 | 08 | | |
| Sarcoma, Metastatic, Mesentery | | | | | | X | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric Sarcoma, Metastatic, Mesentery | A | + | + | + | + | A | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | + | | |
| Spleen Fibrosarcoma | A | + | + | + | + | A | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | | |
| Thymus Alveolar/Bronchiolar Carcinoma, Metastatic, Lung | + | + | + | + | + | A | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | | |
| Sarcoma, Metastatic, Mesentery | | | | | | X | | | | | | | | | | | | | | | | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | | |
| Skin Subcutaneous Tissue, Sarcoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | X | X | + | + | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Osteosarcoma, Multiple | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Skeletal Muscle Sarcoma, Metastatic, Mesentery | | | | | | + | | | | | | | | | | | | | | | | | | |
| 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

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

females (cont...)

Spinal Cord

+

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Adenoma | | | X | | | | | | | | | | X | X | | | | X | X | X | X | | | | |
| Alveolar/Bronchiolar Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar/Bronchiolar Carcinoma | | X | | | | X | | | | | | | X | | | X | | X | | | | | | | |
| Alveolar/Bronchiolar Carcinoma, Multiple | | | | | | | | | | X | | | | | | | | | | | | | | | |
| Hepatoblastoma, Metastatic, Liver | | | | | | | | | | | | | | | | X | | | | | | | | | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | X | X | | | | | | | | | |
| Osteosarcoma, Metastatic, Bone | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Sarcoma, Metastatic, Mesentery | | | | X | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + |
| Pleura | | | | | | | | | | | | | | | | + | | | | | | | | | |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung | | | | | | | | | | | | | | | X | | | | | | | | | | |
| Trachea | A | + | + | + | + | A | + | + | + | + | + | A | + | + | A | A | A | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | A | A | + | + | A | A | A | + | A | A | + | + | + | A | M | A | A | + | + | + | + | + | + | + | + |
| Harderian Gland | A | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | X | | | | | | | | | | | | | | X | |
| Carcinoma | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | |

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

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

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 | 07 | |
| 1250 mg/l | | 09 | 00 | 03 | 07 | 08 | 08 | 01 | 03 | 04 | 04 | 06 | 06 | 07 | 01 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | | |
| | | 04 | 09 | 03 | 03 | 02 | 06 | 02 | 02 | 01 | 07 | 08 | 04 | 09 | 07 | 06 | 01 | 02 | 09 | 09 | 09 | 09 | 09 | 09 | |
| | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |
| | | 03 | 03 | 03 | 03 | 04 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | |
| | | 09 | 09 | 06 | 09 | 06 | 00 | 05 | 06 | 09 | 06 | 07 | 08 | 05 | 06 | 05 | 07 | 06 | 05 | 05 | 05 | 05 | 05 | 05 | |
| | | 06 | 08 | 06 | 04 | 07 | 00 | 09 | 08 | 07 | 09 | 05 | 04 | 07 | 05 | 05 | 03 | 00 | 01 | 02 | 03 | 04 | 08 | 02 | |

URINARY SYSTEM

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

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)

Date Report Requested: 05/27/2011

beta-Picoline

Time Report Requested: 09:52:36

CAS Number: 108-99-6

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 | 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 | |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 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 | 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 | |
| | | 7 | 8 | 8 | 8 | 8 | 8 | 6 | 6 | 7 | 7 | 8 | 9 | 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 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Gallbladder | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | M | + | + | + | + | + | + | + | 35 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 39 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 38 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 38 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 37 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | 37 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 38 |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | X | 2 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemangiosarcoma | | | | | | | | | X | | | | | | | | | | | | | | | | | 2 |
| Hepatoblastoma | | | | | | | | | | | | | | | | | | | X | | | | | | | 3 |
| Hepatoblastoma, Multiple | | | | | | | | | | | | X | | | | | | | | | | | | | | 1 |
| Hepatocellular Adenoma | | | | | | X | | | | X | | | | | | | | | X | | | | X | | | 9 |
| Hepatocellular Adenoma, Multiple | X | 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 | | X | | X | | X | X | X | X | 18 |
| Hepatocellular Carcinoma, Multiple | X | | | | | | | | | | | | | 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 |
|--------------------|-----------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|
| | | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 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 | |
| | | | 7 2 | 7 2 | 7 2 | 7 2 | 7 2 | 7 2 | 7 2 | 7 3 | 7 3 | 7 3 | 7 3 | 7 3 | 7 3 | 7 3 | 7 3 | 7 3 | 7 3 | 7 3 | 7 3 | 7 3 | 7 3 | |
| | | | 9 9 | 9 9 | 9 9 | 9 9 | 9 9 | 9 0 | 9 0 | 9 0 | 9 0 | 9 0 | 9 0 | 9 0 | 9 0 | 9 0 | 9 0 | 9 1 | 9 1 | 9 1 | 9 1 | 9 1 | 9 1 | |
| | | | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 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 3 | |
| | | | 7 8 | 7 8 | 7 8 | 7 8 | 7 8 | 7 6 | 7 6 | 7 7 | 7 7 | 7 8 | 7 9 | 7 9 | 7 9 | 7 9 | 7 9 | 7 5 | 7 7 | 7 7 | 7 7 | 7 7 | 7 8 | |
| | | | 6 0 | 6 0 | 6 5 | 6 6 | 6 7 | 6 8 | 6 1 | 6 4 | 6 0 | 6 1 | 6 3 | 6 0 | 6 1 | 6 2 | 6 3 | 6 5 | 6 9 | 6 6 | 6 2 | 6 7 | 6 8 | |

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| Adrenal Cortex Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 1 |
| Sarcoma, Metastatic, Mesentery | | | | | | | | | | | | | | | | | | | | | | | | X | 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

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 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | * TOTALS |
|---------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | ANIMAL ID | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| 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 Iliac, Sarcoma, Metastatic, Mesentery Mediastinal, Sarcoma, Metastatic, Mesentery | | | | | | | | | | | | | | + | | + | | | | | | | + | | 8 1 1 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

| B6C3F1 MICE FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|--|--|
| | ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | |
| 1250 mg/l | | | 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 | | | |
| | | | 2 | 2 | 2 | 2 | 2 | 2 | 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 | 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 | | | |
| Sarcoma, Metastatic, Mesentery | | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Lymph Node, Mesenteric | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | | | |
| Sarcoma, Metastatic, Mesentery | | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Spleen | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | | | |
| Fibrosarcoma | | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Thymus | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | | | |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung | | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Sarcoma, Metastatic, Mesentery | | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | | |
| Skin | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Subcutaneous Tissue, Sarcoma | | | | | | | | | | | | | | | | | | | | | | | 4 | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Osteosarcoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Sarcoma, Metastatic, Mesentery | | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | 1 | | | |

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

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

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

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 | |
|--------------------|-----------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
| | | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | | 0729 |
| | | 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 | |
| | | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | |
| | | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | |
| | | 60 | 60 | 65 | 66 | 67 | 68 | 61 | 64 | 60 | 61 | 63 | 60 | 62 | 63 | 65 | 69 | 66 | 62 | 67 | 68 | 69 | |

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

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 | * TOTALS |
| | | 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 | |
| 1250 mg/l | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
| | | 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 | |
| | 7 | 8 | 8 | 8 | 8 | 8 | 6 | 6 | 7 | 7 | 8 | 9 | 9 | 9 | 9 | 9 | 5 | 7 | 7 | 7 | 7 | 8 | 8 | * TOTALS | |
| | 6 | 0 | 5 | 6 | 7 | 8 | 1 | 4 | 0 | 1 | 3 | 0 | 1 | 2 | 3 | 5 | 9 | 6 | 2 | 7 | 8 | 9 | 1 | | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Osteosarcoma, Metastatic, Bone | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Renal Tubule, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Urinary Bladder | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 41 | |

SYSTEMIC LESIONS

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

*** END OF REPORT ***

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

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