

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

F1 Mice

Date Report Reqsted: 02/27/2006

Time Report Reqsted: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

C Number: C96011

Lock Date: 12/30/2003

Cage Range: ALL

Date Range: ALL

Reasons For Removal: 25021 TSAC25020 NATD25019 MSAC

Removal Date Range: ALL

Treatment Groups: Include ALL

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

males
(cont...)

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Gallbladder	+	+	+	+	+	+	A	+	+	M	I	M	+	+	+	+	+	+	+	+	+	+	+	+	A
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A
Carcinoma																									
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hemangioma																									
Hepatoblastoma																									
Hepatocellular Adenoma			X				X	X		X				X		X			X	X			X		
Hepatocellular Adenoma, Multiple									X			X							X	X			X	X	
Hepatocellular Carcinoma				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

		DAY ON TEST																								males (cont...)	
		7 3 0	5 5 1	7 3 0	6 8 7	7 3 0	7 3 2	6 2 0	7 3 0	7 3 0	6 6 7	7 3 0	7 2 9	7 2 9	7 2 9	6 5 9	7 2 9	7 3 0	7 2 9	7 2 9	7 3 0	7 3 0	7 2 9	7 2 9	5 8 3		
B6C3F1 MICE MALE																											
CONTROL																											
ANIMAL ID		0 0 0 0 1	0 0 0 0 2	0 0 0 0 3	0 0 0 0 4	0 0 0 0 5	0 0 0 0 6	0 0 0 0 7	0 0 0 0 8	0 0 0 0 9	0 0 0 0 0	0 0 0 0 1	0 0 0 0 1	0 0 0 0 2	0 0 0 0 3	0 0 0 0 4	0 0 0 0 5	0 0 0 0 6	0 0 0 0 7	0 0 0 0 8	0 0 0 0 9	0 0 0 0 0	0 0 0 0 1	0 0 0 0 2	0 0 0 0 3		0 0 0 0 4	0 0 0 0 5
Hepatocellular Carcinoma, Multiple		X																									
Mesentery																											
Pancreas																											
Salivary Glands																											
Stomach, Forestomach																											
Mast Cell Tumor Malignant, Metastatic, Uncertain Primary Site																											
Squamous Cell Papilloma																											
Stomach, Glandular																											
Tongue																											
Squamous Cell Carcinoma																											
Tooth																											
Mast Cell Tumor Malignant, Metastatic, Uncertain Primary Site																											

CARDIOVASCULAR SYSTEM

Blood Vessel	+
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* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
x .. Lesion present
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B6C3F1 MICE MALE CONTROL	DAY ON TEST	7 3 0	5 5 1	7 3 0	6 8 7	7 3 0	7 3 0	6 2 2	7 3 0	7 3 0	6 6 7	7 3 0	7 2 9	7 2 9	7 2 9	7 2 9	6 5 9	7 2 9	7 3 0	7 2 9	7 3 0	7 3 0	7 2 9	7 2 9	5 8 3
	ANIMAL ID	0 0 0 0 1	0 0 0 0 2	0 0 0 0 3	0 0 0 0 4	0 0 0 0 5	0 0 0 0 6	0 0 0 0 7	0 0 0 0 8	0 0 0 0 9	0 0 0 0 0	0 0 0 0 1	0 0 0 0 1	0 0 0 0 1	0 0 0 0 1	0 0 0 0 1	0 0 0 0 1	0 0 0 0 1	0 0 0 0 1	0 0 0 0 2	0 0 0 0 2	0 0 0 0 2	0 0 0 0 3	0 0 0 0 4	
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5
	males (cont...)																								

males
(cont...)

Heart

+ +

ENDOCRINE SYSTEM

Adrenal Cortex

+ +

Subcapsular, Adenoma

Adrenal Medulla

+ +

Islets, Pancreatic

+ +

Parathyroid Gland

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

Pituitary Gland

+ M

Pars Distalis, Adenoma

Thyroid Gland

+ +

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis

+ +

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

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Lab: BNW

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| B6C3F1 MICE MALE
CONTROL | DAY ON TEST | 7
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males
(cont...)

Preputial Gland

+ M

Prostate

+ +

Seminal Vesicle

+ +

Testes

+ +

Interstitial Cell, Adenoma

HEMATOPOIETIC SYSTEM

Bone Marrow

+ +

Lymph Node, Bronchial

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

Lymphoma Malignant

X

Lymph Node, Mandibular

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

Mast Cell Tumor Malignant, Metastatic,
Uncertain Primary Site

Lymph Node, Mediastinal

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

Lymphoma Malignant

X

Lymph Node, Mesenteric

+ +

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

+ .. Tissue examined microscopically

x .. Lesion present

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|-----------------------------|-------------|-----------------------|--|
| B6C3F1 MICE MALE
CONTROL | DAY ON TEST | 7
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Lymphoma Malignant

X

Spleen

+ +

Lymphoma Malignant

X

Thymus

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

Lymphoma Malignant

X

Mast Cell Tumor Malignant, Metastatic,
Uncertain Primary Site

INTEGUMENTARY SYSTEM

Mammary Gland

M M

Skin

+ +

Subcutaneous Tissue, Fibrous
Histiocytoma

X

Subcutaneous Tissue, Sarcoma

X

MUSCULOSKELETAL SYSTEM

Bone

+ +

NERVOUS SYSTEM

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

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males
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| Brain | + |
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RESPIRATORY SYSTEM

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

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

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| Nose | + |
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| Trachea | + |
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SPECIAL SENSES SYSTEM

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| Eye | + | A |
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|-----------------|
| Harderian Gland | + | + | + | M | + |
|-----------------|

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|---------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|--|---|--|---|--|--|--|--|--|
| Adenoma | X | | | | | | | | | | | | | | X | X | | X | | X | | | | | |
|---------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|--|---|--|---|--|--|--|--|--|

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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

Carcinoma

X

X

X

URINARY SYSTEM

| | |
|---|---|
| Kidney | + |
| Hepatocellular Carcinoma, Metastatic, Liver |
| Mast Cell Tumor Malignant, Metastatic, Uncertain Primary Site | |
| Urinary Bladder | + |

SYSTEMIC LESIONS

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

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

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

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqsted: 02/27/2006

Time Report Reqsted: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| B6C3F1 MICE MALE
CONTROL | DAY ON TEST | 6
5
9 | 7
2
9 | 7
2
0 | 7
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9 | 7
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0 | 7
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9 | 6
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9 | 7
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9 | 7
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9 | 7
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ALIMENTARY SYSTEM

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|----------------------------------|----|
| Esophagus | + | 50 |
| Gallbladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | 43 |
| Intestine Large, Cecum | + | 49 |
| Intestine Large, Colon | + | 50 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Jejunum | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Carcinoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemangioma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Hepatoblastoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Hepatocellular Adenoma | | | X | X | | X | | | | | | | X | | X | | X | X | | | | | | | X | 17 |
| Hepatocellular Adenoma, Multiple | X | | | | X | | X | | X | X | X | | X | | | | | X | X | | | X | X | | | 17 |
| Hepatocellular Carcinoma | | | | | | | | | | | 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. 96011 - 06

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Species/Strain: MICE/B6C3F1

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| B6C3F1 MICE MALE
CONTROL | DAY ON TEST | 6
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| | * TOTALS | | | | | |
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| Hepatocellular Carcinoma, Multiple | X | | X | 3 | |
| Mesentery | | | | 3 | |
| Pancreas | + | | + | 50 | |
| Salivary Glands | + | | + | 49 | |
| Stomach, Forestomach | + | | + | 50 | |
| Mast Cell Tumor Malignant, Metastatic,
Uncertain Primary Site | | | X | 1 | |
| Squamous Cell Papilloma | X | | | 1 | |
| Stomach, Glandular | + | | + | 50 | |
| Tongue | | | | 1 | |
| Squamous Cell Carcinoma | | | | 1 | |
| Tooth | + | | + | 15 | |
| Mast Cell Tumor Malignant, Metastatic,
Uncertain Primary Site | | | X | 1 | |

CARDIOVASCULAR SYSTEM

Blood Vessel

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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqsted: 02/27/2006

Time Report Reqsted: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

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|-----------------------------|-------------|-----------------------|
| B6C3F1 MICE MALE
CONTROL | DAY ON TEST | 6
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| | * TOTALS | |

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|-------|----|
| Heart | + | 50 |
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ENDOCRINE SYSTEM

| | |
|------------------------|----|
| Adrenal Cortex | + | 50 |
| Subcapsular, Adenoma | | | | | | | X | | | | | | | | | | | | | | | | | | | 1 |
| Adrenal Medulla | + | 50 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parathyroid Gland | + | M | + | + | + | + | M | + | + | + | + | + | + | + | + | M | + | + | + | + | + | M | + | + | + | 36 |
| Pituitary Gland | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Pars Distalis, Adenoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | | 1 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | |
|------------|----|
| Epididymis | + | 50 |
|------------|----|

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

TDMS No. 96011 - 06

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Lab: BNW

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|-----------------------------|-------------|-----------------------|
| B6C3F1 MICE MALE
CONTROL | DAY ON TEST | 6
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9 | 6
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3 | 7
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Preputial Gland

+ 49

Prostate

+ 50

Seminal Vesicle

+ 50

Testes

+ 50

Interstitial Cell, Adenoma

X 1

HEMATOPOIETIC SYSTEM

Bone Marrow

+ 50

Lymph Node, Bronchial

+ + + + + + + + M + + + + + + + M + + + + + + 45

Lymphoma Malignant

1

Lymph Node, Mandibular

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

Mast Cell Tumor Malignant, Metastatic,
Uncertain Primary Site

X 1

Lymph Node, Mediastinal

+ + + + + + + + M M + M + M + + M + M M + + M + + 37

Lymphoma Malignant

1

Lymph Node, Mesenteric

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

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Registered: 02/27/2006

Time Report Reqsted: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

[illegible][illegible]

INTEGUMENTARY SYSTEM

[illegible]

MUSCULOSKELETAL SYSTEM

Bone + 50

NERVOUS SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

- .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

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CUMENE

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First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

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|-----------------------------|-------------|-----------------------|
| B6C3F1 MICE MALE
CONTROL | DAY ON TEST | 6
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| | | |
| | | |
| | | |
| | | |
| | | |

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

RESPIRATORY SYSTEM

| | |
|--------|----|
| Larynx | + | 50 |
|--------|----|

| | |
|------|----|
| Lung | + | 50 |
|------|----|

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|--|--|--|--|--|---|--|--|--|---|---|--|--|---|--|--|---|--|--|--|--|--|--|---|--|----|
| Alveolar/Bronchiolar Adenoma | | | | | | X | | | | X | X | | | X | | | X | | | | | | | X | | 12 |
|------------------------------|--|--|--|--|--|---|--|--|--|---|---|--|--|---|--|--|---|--|--|--|--|--|--|---|--|----|

| | | | | | |
|--|--|--|--|---|---|
| Alveolar/Bronchiolar Adenoma, Multiple | | | | X | 1 |
|--|--|--|--|---|---|

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|---|--|--|--|---|
| Alveolar/Bronchiolar Carcinoma | | | | | | X | | | | | | | | | | | | | X | | | X | | | | 9 |
|--------------------------------|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|---|--|--|--|---|

| | |
|--|---|
| Carcinoma, Metastatic, Harderian Gland | 1 |
|--|---|

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|--|--|--|---|--|---|
| Hepatocellular Carcinoma, Metastatic, Liver | | | X | | | | | | | | | | | | | | | | X | X | | | | X | | 7 |
|---|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|--|--|--|---|--|---|

| | |
|------|----|
| Nose | + | 50 |
|------|----|

| | |
|---------|----|
| Trachea | + | 50 |
|---------|----|

SPECIAL SENSES SYSTEM

| | |
|-----|----|
| Eye | + | 49 |
|-----|----|

| | | |
|-----------------|--|----|
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | | 48 |
|-----------------|--|----|

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|--|---|--|--|--|--|--|--|--|--|--|---|--|--|---|--|--|--|--|--|--|--|--|--|--|---|
| Adenoma | | X | | | | | | | | | | X | | | X | | | | | | | | | | | 8 |
|---------|--|---|--|--|--|--|--|--|--|--|--|---|--|--|---|--|--|--|--|--|--|--|--|--|--|---|

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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

Carcinoma

X

4

URINARY SYSTEM

| | |
|---|----|
| Kidney | + | 50 |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | X | | 1 |
| Mast Cell Tumor Malignant, Metastatic, Uncertain Primary Site | | | | | | | | | X | | | | | | | | | | | | | | | | | 1 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

SYSTEMIC LESIONS

| | |
|--------------------|----|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | X | | | | | | | | | | 2 |

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

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

Lab: BNW[illegible]

| | |
|---|---|
| Esophagus | + |
| Gallbladder | A | M | A | + | A | I | + | + | + | A | I | + | M | + | + | + | + | + | + | + | M | M | + | M | + | + |
| Intestine Large, Cecum | A | + | A | + | A | + |
| Mast Cell Tumor Malignant, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | X | | | | | | |
| Intestine Large, Colon | A | + | A | + | A | + |
| Leiomyoma | |
| Intestine Large, Rectum | A | + | A | + | A | + |
| Intestine Small, Duodenum | A | + | A | + | A | I | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | | | | | |
| Intestine Small, Ileum | A | + | A | + | A | + |
| Intestine Small, Jejunum | A | + | A | + | A | + |
| Carcinoma | |
| Liver | + |
| Hemangiosarcoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | | | | | |

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| B6C3F1 MICE MALE
250 PPM | | DAY ON TEST | 6 | 7 | 6 | 7 | 6 | 5 | 7 | 7 | 6 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
|--|--|-------------|--------------------|---|
| | | 9 | 2 | 7 | 3 | 9 | 3 | 1 | 3 | 3 | 5 | 7 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 5 | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 3 |
| | | 8 | 9 | 8 | 0 | 1 | 3 | 2 | 0 | 2 | 3 | 3 | 0 | 9 | 0 | 0 | 0 | 0 | 9 | 4 | 0 | 9 | 0 | 9 | 9 | 0 | 0 | |
| ANIMAL ID |  | ..... |  |  |
| | | 0 | 0 | |
| | | 0 | 0 | |
| | | 4 | 4 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | males
(cont...) | |
| Hepatoblastoma | | | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| Hepatocellular Adenoma | | X | 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 | | X | X | | X | X | | | | |
| Hepatocellular Carcinoma, Multiple | | | | |
| Histiocytic Sarcoma | | | | | | X | | |
| | | | | |
| Mesentery | | + | | | | | | | | | | | | | | | | | + | | + | | | | | | | |
| Mast Cell Tumor Malignant, Metastatic,
Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | X | | | | | | | |
| | | | | |
| Pancreas | | + | + | |
| | | | | |
| Salivary Glands | | + | + | |
| | | | | |
| Stomach, Forestomach | | + | + | |
| Mast Cell Tumor Malignant, Metastatic,
Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | X | | | | | | | |
| | | | | |
| Stomach, Glandular | | + | + | A | + | A | + | |
| | | | | |
| Tooth | | | | | + | | | | | | | | | | + | + | | | | | + | | | | | | | |
| Mast Cell Tumor Malignant, Metastatic,
Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | 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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

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Date Report Reqsted: 02/27/2006

Time Report Reqsted: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

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

males (cont...)

males
(cont...)

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

| |
|----------------|
| Adrenal Cortex | + |
|----------------|

Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung

Subcapsular, Adenoma

X

| |
|-----------------|
| Adrenal Medulla | + |
|-----------------|

Pheochromocytoma Benign

Pheochromocytoma Malignant

| |
|--------------------|
| Islets, Pancreatic | + |
|--------------------|

| |
|-------------------|
| Parathyroid Gland | + | + | M | + | + | + | M | M | + | + | M | M | + | + | M | M | M | + | + | + | M | + | + | + | M |
|-------------------|

| |
|-----------------|
| Pituitary Gland | + | + | + | + | A | + |
|-----------------|

| |
|---------------|
| Thyroid Gland | + |
|---------------|

GENERAL BODY SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

TDMS No. 96011 - 06

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Species/Strain: MICE/B6C3F1

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CUMENE

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First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

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

males
(cont...)

NONE

GENITAL SYSTEM

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

HEMATOPOIETIC SYSTEM

| |
|-------------------------|
| Bone Marrow | + |
| Lymph Node, Bronchial | + | + | M | + | M | + | M | + | + | + | M | M | + | + | + | + | + | + | M | + | + | + | M | + | + |
| Lymph Node, Mandibular | + | M | + | + | M | M | + | M | + | + | M | + | M | + | + | M | + | M | + | M | + | + | M | + | + |
| Lymph Node, Mediastinal | + | + | M | M | M | + | M | + | + | + | M | + | + | + | + | + | + | M | + | + | + | + | + | M | + |
| Lymph Node, Mesenteric | + | M | M | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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

| | | |
|---------------------|---|--|
| Histiocytic Sarcoma | X | |
| Spleen | + | |
| Histiocytic Sarcoma | X | |
| Lymphoma Malignant | X | |
| Thymus | + + + M + + + + + + M + + + + + + M + + + + + + + | |

INTEGUMENTARY SYSTEM

| | | |
|---|---|--|
| Mammary Gland | M | |
| Skin | + | |
| Hepatocellular Carcinoma, Metastatic, Liver | X | |
| Subcutaneous Tissue, Fibrosarcoma | | |
| Subcutaneous Tissue, Fibrous Histiocytoma | | |

MUSCULOSKELETAL SYSTEM

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

NERVOUS 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. 96011 - 06

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CUMENE

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Lab: BNW

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

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

RESPIRATORY SYSTEM

| |
|--------|
| Larynx | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--------|

| |
|------|
| Lung | + |
|------|

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|--|---|--|--|--|--|--|--|--|--|--|---|---|--|---|--|--|---|--|---|---|---|--|---|---|---|
| Alveolar/Bronchiolar Adenoma | | X | | | | | | | | | | X | X | | X | | | X | | X | X | X | | X | X | X |
|------------------------------|--|---|--|--|--|--|--|--|--|--|--|---|---|--|---|--|--|---|--|---|---|---|--|---|---|---|

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|---|--|--|--|--|--|--|--|--|---|--|--|--|--|---|--|--|--|--|---|--|--|--|
| Alveolar/Bronchiolar Adenoma, Multiple | | | | X | | | | | | | | | X | | | | | X | | | | | X | | | |
|--|--|--|--|---|--|--|--|--|--|--|--|--|---|--|--|--|--|---|--|--|--|--|---|--|--|--|

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|---|--|--|---|--|--|---|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|
| Alveolar/Bronchiolar Carcinoma | | X | | | X | | | X | | | | | | | | | X | | | | | | | | | |
|--------------------------------|--|---|--|--|---|--|--|---|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|---|--|--|--|--|---|--|--|--|
| Alveolar/Bronchiolar Carcinoma, Multiple | | | | | | | | | | | | | | | | X | | X | | | | | X | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|---|--|--|--|--|---|--|--|--|

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

| |
|------|
| Nose | + |
|------|

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

SPECIAL SENSES SYSTEM

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

| |
|-----------------|
| Harderian Gland | + |
|-----------------|

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|--|--|--|--|--|--|--|---|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Adenoma | | | | | | | | X | | | | | X | | | | | | | | | | | | | |
|---------|--|--|--|--|--|--|--|---|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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

Carcinoma

X

X

URINARY SYSTEM

| | |
|---|---|
| Kidney | + |
| Hepatocellular Carcinoma, Metastatic, Liver |
| Mast Cell Tumor Malignant, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | X | | | | | | |
| Urinary Bladder | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SYSTEMIC LESIONS

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

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

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

ALIMENTARY SYSTEM

| | |
|--|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Gallbladder | + | + | + | M | + | + | + | + | + | M | + | M | M | + | I | + | M | + | + | M | + | + | + | + | + | 32 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Mast Cell Tumor Malignant, Metastatic,
Uncertain Primary Site | | 1 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Leiomyoma | | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | 44 |
| Carcinoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Carcinoma | | | | | | | | | | | | X | | | | | | | | | | | | | | 1 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemangiosarcoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| | | DAY ON TEST | | | |
|--|--|-----------------------|--|--|
| | | 7
3
0 | 7
3
0 | 6
1
0 | 7
3
0 | 5
5
1 | 7
1
5 | 7
2
9 | 7
3
0 | 7
3
0 | 7
2
9 | 7
3
1 | 5
0
3 | 6
5
2 | 7
2
9 | 5
9
3 | 7
3
0 | 7
2
9 | 7
3
0 | 7
3
1 | 6
6
2 | 7
2
9 | 7
2
9 | 7
3
0 | 7
3
0 | | | |
| | | | | | |
| | | ANIMAL ID | | | |
| | | 0
0
4
2
6 | 0
0
4
2
7 | 0
0
4
2
8 | 0
0
4
2
9 | 0
0
4
3
0 | 0
0
4
3
1 | 0
0
4
3
2 | 0
0
4
3
3 | 0
0
4
3
4 | 0
0
4
3
5 | 0
0
4
3
6 | 0
0
4
3
7 | 0
0
4
3
8 | 0
0
4
3
9 | 0
0
4
4
0 | 0
0
4
4
1 | 0
0
4
4
2 | 0
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3 | 0
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4 | 0
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5 | 0
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4
6 | 0
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4
7 | 0
0
4
4
8 | 0
0
4
4
9 | 0
0
4
5
0 | | |
| | | * TOTALS | | | |
| Hepatoblastoma | | | 1 | | |
| Hepatocellular Adenoma | | | 13 | | |
| Hepatocellular Adenoma, Multiple |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 20 | | |
| Hepatocellular Carcinoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 17 | | |
| Hepatocellular Carcinoma, Multiple |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | | |
| Histiocytic Sarcoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | | |
| | | | | | |
| Mesentery |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 7 | | |
| Mast Cell Tumor Malignant, Metastatic,
Uncertain Primary Site | | | 1 | | |
| | | | | | |
| Pancreas |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 50 | | |
| | | | | | |
| Salivary Glands |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 50 | | |
| | | | | | |
| Stomach, Forestomach |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 50 | | |
| Mast Cell Tumor Malignant, Metastatic,
Uncertain Primary Site | | | 1 | | |
| | | | | | |
| Stomach, Glandular |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 48 | | |
| | | | | | |
| Tooth |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 8 | | |
| Mast Cell Tumor Malignant, 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

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

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

| | | |
|--|----|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung | | | | | | | X | | | | | | | | | | | | | | | | | | 1 | |
| Subcapsular, Adenoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Pheochromocytoma Benign | | | | | | | | | | | | X | | | | | | | | | | | | | 1 | |
| Pheochromocytoma Malignant | | | | | | | | | | | | X | | | | | | | | | | | | | 1 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Parathyroid Gland | + | M | M | + | M | M | M | M | M | + | M | M | + | + | + | + | M | + | M | M | + | M | M | + | M | 25 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

GENERAL BODY SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

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

NONE

GENITAL SYSTEM

| | |
|-----------------|----|
| Epididymis | + | 50 |
| Preputial Gland | + | 50 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

HEMATOPOIETIC SYSTEM

| | |
|-------------------------|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymph Node, Bronchial | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | M | + | 41 |
| Lymph Node, Mandibular | + | + | + | + | M | + | + | + | + | + | + | + | + | + | M | + | + | M | + | + | + | M | + | I | | 35 |
| Lymph Node, Mediastinal | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | 42 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| | | | |
|-----------------------------|---|-----------------------|--|
| B6C3F1 MICE MALE
250 PPM | DAY ON TEST | 7
3
0 | 7
3
0 | 6
1
0 | 7
3
0 | 5
5
1 | 7
1
5 | 7
2
9 | 7
3
0 | 7
3
0 | 7
2
9 | 7
3
1 | 5
0
3 | 6
5
2 | 7
2
9 | 5
9
3 | 7
3
0 | 7
2
9 | 7
3
0 | 7
3
1 | 6
6
2 | 7
2
9 | 7
2
9 | 7
3
0 | 7
3
0 | |
| | <hr style="border-top: 1px dashed black;"/> | | |
| | ANIMAL ID | 0
0
4
2
6 | 0
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7 | 0
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8 | 0
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0
4
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6 | 0
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7 | 0
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4
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8 | 0
0
4
4
9 | |
| | | | |
| | | | |
| | | | |
| * TOTALS | | | |

Histiocytic Sarcoma

1

Spleen

50

Histiocytic Sarcoma

1

Lymphoma Malignant

1

Thymus

44

INTEGUMENTARY SYSTEM

Mammary Gland

1

Skin

50

Hepatocellular Carcinoma, Metastatic,
Liver

1

Subcutaneous Tissue, Fibrosarcoma

1

Subcutaneous Tissue, Fibrous
Histiocytoma

2

MUSCULOSKELETAL SYSTEM

Bone

50

NERVOUS 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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| | | |
|-----------------------------|---|-----------------------|
| B6C3F1 MICE MALE
250 PPM | DAY ON TEST | 7
3
0 | 7
3
0 | 6
1
0 | 7
3
0 | 5
5
1 | 7
1
5 | 7
2
9 | 7
3
0 | 7
3
0 | 7
2
9 | 7
3
1 | 5
0
3 | 6
5
2 | 7
2
9 | 5
9
3 | 7
3
0 | 7
2
9 | 7
3
0 | 7
3
1 | 6
6
2 | 7
2
9 | 7
2
9 | 7
3
0 | 7
3
0 |
| | <hr style="border-top: 1px dashed black;"/> | |
| | ANIMAL ID | 0
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4
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6 | 0
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9 | 0
0
4
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0 | 0
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4
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1 | 0
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6 | 0
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4
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7 | 0
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4
4
8 | 0
0
4
4
9 |
| | | |
| | * TOTALS |

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

RESPIRATORY SYSTEM

| | |
|--------|----|
| Larynx | + | 49 |
|--------|----|

| | |
|------|----|
| Lung | + | 50 |
|------|----|

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|--|--|---|--|---|---|--|---|--|---|--|--|--|---|--|--|---|---|--|--|--|--|---|--|--|--|----|
| Alveolar/Bronchiolar Adenoma | | | X | | X | X | | X | | X | | | | X | | | X | X | | | | | X | | | | 19 |
|------------------------------|--|--|---|--|---|---|--|---|--|---|--|--|--|---|--|--|---|---|--|--|--|--|---|--|--|--|----|

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|--|--|--|--|---|--|---|--|--|---|--|--|--|---|--|--|--|--|---|---|--|--|---|--|----|
| Alveolar/Bronchiolar Adenoma, Multiple | | X | | | | | X | | X | | | X | | | | X | | | | | X | X | | | X | | 12 |
|--|--|---|--|--|--|--|---|--|---|--|--|---|--|--|--|---|--|--|--|--|---|---|--|--|---|--|----|

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|--|--|---|--|--|--|--|--|--|---|--|--|---|---|--|---|--|--|--|--|--|--|--|--|----|
| Alveolar/Bronchiolar Carcinoma | X | X | | | X | | | | | | | X | | | X | X | | X | | | | | | | | | 11 |
|--------------------------------|---|---|--|--|---|--|--|--|--|--|--|---|--|--|---|---|--|---|--|--|--|--|--|--|--|--|----|

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|--|--|--|--|---|--|---|--|--|--|--|---|--|--|--|--|--|---|--|--|--|--|--|---|--|--|--|---|
| Alveolar/Bronchiolar Carcinoma, Multiple | | | | X | | X | | | | | X | | | | | | X | | | | | | X | | | | 8 |
|--|--|--|--|---|--|---|--|--|--|--|---|--|--|--|--|--|---|--|--|--|--|--|---|--|--|--|---|

| | | | | | | | | |
|---|--|--|--|--|--|--|---|---|
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | X | 8 |
|---|--|--|--|--|--|--|---|---|

| | |
|------|----|
| Nose | + | 50 |
|------|----|

| | |
|---------|----|
| Trachea | + | 50 |
|---------|----|

SPECIAL SENSES SYSTEM

| | |
|-----|----|
| Eye | + | 50 |
|-----|----|

| | |
|-----------------|----|
| Harderian Gland | + | 50 |
|-----------------|----|

| | |
|---------|---|
| Adenoma | 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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqsted: 02/27/2006

Time Report Reqsted: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

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

Carcinoma

X

3

URINARY SYSTEM

| | |
|---|----|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | X | | | | | | | | | | | | | | | | 1 |
| Mast Cell Tumor Malignant, Metastatic, Uncertain Primary Site |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | 48 |

SYSTEMIC LESIONS

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

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

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First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

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

males
(cont...)

ALIMENTARY SYSTEM

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

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

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

Mesentery

.....+.....

Pancreas

.....+.....

Salivary Glands

.....+.....

Stomach, Forestomach

.....+.....

Squamous Cell Carcinoma

.....X.....

Stomach, Glandular

.....+.....

Lymphoma Malignant

.....+.....

Tooth

.....+.....

CARDIOVASCULAR SYSTEM

Heart

.....+.....

Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung

Hemangiosarcoma

Hepatocellular Carcinoma, Metastatic,
Liver

X

ENDOCRINE SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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

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

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| |
|-----------------|
| Epididymis | + |
| Preputial Gland | + |
| Prostate | + |

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

+

.. Tissue examined microscopically

x

.. Lesion present

I

.. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 32

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

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

males
(cont...)

Seminal Vesicle

+ +

Testes

+ +

HEMATOPOIETIC SYSTEM

Bone Marrow

+ +

Lymph Node

+ +

Lymph Node, Bronchial

+ + + + M +

Lymph Node, Mandibular

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

Lymph Node, Mediastinal

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

Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung

X

Lymph Node, Mesenteric

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

Lymphoma Malignant

Spleen

+ +

Thymus

M + + + + I 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

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

INTEGUMENTARY SYSTEM

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

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

| |
|--------|
| Larynx | + |
|--------|

* .. Total animals with tissue examined microscopically; 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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| | | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 5 | 7 | |
|---|-----------|
| DAY ON TEST | | 3 | 2 | 8 | 2 | 2 | 6 | 2 | 2 | 3 | 3 | 6 | 8 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 0 | 8 | 2 | 3 | 0 | 2 |
| | | 0 | 9 | 3 | 9 | 9 | 8 | 9 | 9 | 0 | 0 | 4 | 4 | 9 | 3 | 9 | 9 | 9 | 0 | 0 | 2 | 1 | 9 | 0 | 3 | 6 |
| B6C3F1 MICE MALE
500 PPM | ANIMAL ID | 0 | |
| | | 0 | |
| | | 6 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |
| Lung | | + | |
| Alveolar/Bronchiolar Adenoma | | | X | | X | | X | | | | | X | | X | | | X | | | X | | X | | | | |
| Alveolar/Bronchiolar Adenoma, Multiple | | | | | | X | | | X | X | X | | X | | | X | | X | | | | | X | | | |
| Alveolar/Bronchiolar Carcinoma | | | | | | | | | | | | X | | | X | | | | | X | | | | | X | |
| Alveolar/Bronchiolar Carcinoma, Multiple | | X | X | | X | X | X | X | | X | X | | X | X | | X | X | | X | | | X | | | | |
| Carcinoma, Metastatic, Harderian Gland | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | X | | | X | X | | | | | | | | | | | X | | | | | | | |
| Sarcoma, Metastatic, Uncertain Primary Site | |
| Nose | | + | |
| Trachea | | + | |
| SPECIAL SENSES SYSTEM | |
| Eye | | + | |
| Harderian Gland | | + | |
| Adenoma | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| Carcinoma | |
| Bilateral, 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

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

URINARY SYSTEM

| | |
|---|---|
| Kidney | + |
| Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung | |
| Urinary Bladder | + |
| Hemangiosarcoma |

SYSTEMIC LESIONS

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

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

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

TDMS No. 96011 - 06

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Lab: BNW

| | | | |
|-----------------------------|-------------|-----------------------|--|
| B6C3F1 MICE MALE
500 PPM | DAY ON TEST | 7
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8 | 7
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8 | 7
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2 | 7
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3
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8 | 7
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ALIMENTARY SYSTEM

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|------------------------------------|----|
| Esophagus | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Gallbladder | + | M | + | I | + | A | I | A | + | + | A | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 37 |
| Intestine Large, Cecum | + | + | + | + | + | A | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44 |
| Intestine Large, Colon | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Intestine Large, Rectum | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Intestine Small, Duodenum | + | + | + | + | + | A | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 43 |
| Intestine Small, Ileum | + | + | + | + | + | A | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 43 |
| Intestine Small, Jejunum | + | + | + | + | + | A | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 43 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | X | | | | | | | 1 |
| Hepatoblastoma | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 4 |
| Hepatocellular Adenoma | | | X | | X | | | X | | X | | | X | | | | | | | X | | X | | X | | 15 |
| Hepatocellular Adenoma, Multiple | X | X | | | | | X | | | | | X | | X | X | X | | | X | X | | X | | | | 22 |
| Hepatocellular Carcinoma | X | | | | | X | | X | | | | X | | X | | X | | | X | | | | | | X | 17 |
| Hepatocellular Carcinoma, Multiple | | | | | | | | | X | X | | | | | | | | | | | | | X | | | 4 |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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

| | |
|-------------------------|----|
| Adrenal Cortex | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Subcapsular, Adenoma | X | | | | | | | | | | | | | X | | | | | | | | | | | | 2 |
| Adrenal Medulla | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Pheochromocytoma Benign | | 1 |
| Islets, Pancreatic | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Parathyroid Gland | M | + | + | M | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | 35 |
| Pituitary Gland | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Thyroid Gland | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | |
|-----------------|----|
| Epididymis | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Prostate | + | + | + | + | + | A | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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. 96011 - 06

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Date Report Requested: 02/27/2006

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Lab: BNW

| | | |
|-----------------------------|---|-----------------------|
| B6C3F1 MICE MALE
500 PPM | DAY ON TEST | 7
3
0 | 7
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9 | 7
2
9 | 5
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2 | 5
9
8 | 7
3
0 | 6
9
0 | 6
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8 | 7
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8 | 7
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Seminal Vesicle

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Testes

+ + + + + A + 49

HEMATOPOIETIC SYSTEM

Bone Marrow

+ + + + + A + 49

Lymph Node

+ 1

Lymph Node, Bronchial

+ + + M + + + M M + + + + + + + + + + M + + + + + 45

Lymph Node, Mandibular

M M M M + + + M + + + M + + M M M M + + M M M 22

Lymph Node, Mediastinal

+ M + + + A + + + + M + M + + + + + + M + + + M + 40

Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung

1

Lymph Node, Mesenteric

+ + + + + A + + + + + + + + + + + + + + + + + 46

Lymphoma Malignant

X 1

Spleen

+ + + + + A + + + + + + + + + + + + + + + + + 49

Thymus

+ + + + + A + + M M + + + + + + + M + + + + + 38

* .. Total animals with tissue examined microscopically; 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
500 PPM | DAY ON TEST | 7
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6
4
9 | 0
0
6
5
0 |
| | * TOTALS | |

INTEGUMENTARY SYSTEM

| | |
|--|----|
| Mammary Gland | M | 0 |
| Skin | + | 49 |
| Subcutaneous Tissue, Fibrous
Histiocytoma | | | | | | | | | | | | | X | | | | | | | | | | | | | 1 |

MUSCULOSKELETAL SYSTEM

| | |
|---|----|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Skeletal Muscle |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung | | 1 |

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

| | |
|--------|----|
| Larynx | + | 50 |
|--------|----|

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| | | DAY ON TEST | | | |
|---|--|-----------------------|----------|--|
| | | 7
3
0 | 7
2
9 | 7
2
9 | 5
6
5 | 5
1
2 | 5
9
8 | 7
3
0 | 6
9
0 | 6
4
9 | 6
3
8 | 7
2
6 | 7
2
9 | 7
2
9 | 7
1
8 | 7
1
2 | 7
3
1 | 7
3
0 | 5
6
8 | 7
2
9 | 7
3
1 | 7
3
0 | 7
2
9 | 7
3
1 | 6
4
5 | 7
3
0 | | |
| | | | | |
| B6C3F1 MICE MALE | | ANIMAL ID | | |
| 500 PPM | | 0
0
6
2
6 | 0
0
6
2
7 | 0
0
6
2
8 | 0
0
6
2
9 | 0
0
6
3
0 | 0
0
6
3
1 | 0
0
6
3
2 | 0
0
6
3
3 | 0
0
6
3
4 | 0
0
6
3
5 | 0
0
6
3
6 | 0
0
6
3
7 | 0
0
6
3
8 | 0
0
6
3
9 | 0
0
6
4
0 | 0
0
6
4
1 | 0
0
6
4
2 | 0
0
6
4
3 | 0
0
6
4
4 | 0
0
6
4
5 | 0
0
6
4
6 | 0
0
6
4
7 | 0
0
6
4
8 | 0
0
6
4
9 | 0
0
6
5
0 | * TOTALS | |
| Lung | | + | 50 | |
| Alveolar/Bronchiolar Adenoma | | X | | X | | X | | | | X | | X | | | | | | X | X | | | X | | | | 16 | | |
| Alveolar/Bronchiolar Adenoma, Multiple | | | X | | | | | | X | X | | | | X | | | X | X | | | | | X | | | 15 | | |
| Alveolar/Bronchiolar Carcinoma | | | | | | | | X | | | | | X | X | | | X | X | | | X | | X | | X | 12 | | |
| Alveolar/Bronchiolar Carcinoma, Multiple | | | | | X | X | | | | | | | | | | X | | | | X | | X | | X | | 20 | | |
| Carcinoma, Metastatic, Harderian Gland | | | X | | | | | | | | | | | | | | | | | | | X | | | | 2 | | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | X | X | X | X | | | X | | | X | | | | | | X | | 11 | | |
| Sarcoma, Metastatic, Uncertain Primary Site | | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | | |
| Nose | | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Trachea | | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| SPECIAL SENSES SYSTEM | | | | |
| Eye | | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Harderian Gland | | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Adenoma | | | | | X | | | | | | | | | | | | | | | | | | | | X | 3 | | |
| Carcinoma | | | X | | | | | | | | | | | | | | | | | | | X | | | | 2 | | |
| Bilateral, Adenoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | | |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

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

URINARY SYSTEM

| | |
|---|----|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung | | | | | | | | | X | | | | | | | | | | | | | | | | | 1 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Hemangiosarcoma | | | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |

SYSTEMIC LESIONS

| | |
|--------------------|----|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | X | | | | | | | | 1 |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

TDMS No. 96011 - 06

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Species/Strain: MICE/B6C3F1

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CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| | | |
|------------------------------|-------------|-----------------------|
| B6C3F1 MICE MALE
1000 PPM | DAY ON TEST | 7
3
0 | 6
8
0 | 5
5
6 | 6
2
7 | 7
0
1 | 4
8
0 | 7
3
0 | 7
1
8 | 6
8
7 | 7
2
9 | 7
2
9 | 6
1
0 | 3
9
1 | 7
3
0 | 7
2
5 | 7
2
9 | 6
2
8 | 6
0
9 | 6
4
9 | 7
2
9 | 7
2
9 | 6
8
7 | 7
3
0 | 5
2
6 | 6
8
3 |
| | ANIMAL ID | 0
0
8
0
1 | 0
0
8
0
2 | 0
0
8
0
3 | 0
0
8
0
4 | 0
0
8
0
5 | 0
0
8
0
6 | 0
0
8
0
7 | 0
0
8
0
8 | 0
0
8
0
9 | 0
0
8
0
0 | 0
0
8
0
1 | 0
0
8
0
2 | 0
0
8
0
3 | 0
0
8
0
4 | 0
0
8
0
5 | 0
0
8
0
6 | 0
0
8
0
7 | 0
0
8
0
8 | 0
0
8
0
9 | 0
0
8
0
0 | 0
0
8
0
1 | 0
0
8
0
2 | 0
0
8
0
3 | 0
0
8
0
4 | 0
0
8
0
5 |
| | | 0 |
| | | 0 |
| | | 8 |

males
(cont...)

ALIMENTARY SYSTEM

| |
|----------------------------------|
| Esophagus | + |
| Gallbladder | + | I | + | A | M | + | + | + | + | + | M | + | A | + | I | + | + | + | + | M | + | + | + | + | A |
| Intestine Large, Cecum | I | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A |
| Intestine Large, Colon | + |
| Intestine Large, Rectum | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A |
| Intestine Small, Duodenum | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A |
| Intestine Small, Ileum | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A |
| Intestine Small, Jejunum | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A |
| Carcinoma |
| Liver | + |
| Hemangiosarcoma | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Hepatoblastoma | | | | | | | | | | | | | X | | | | X | | | | | | X | | |
| Hepatocellular Adenoma | | | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | X |
| Hepatocellular Adenoma, Multiple | X | | X | | | | X | X | X | X | X | | | X | X | X | | X | X | X | X | X | X | X | |
| Hepatocellular Carcinoma | | | | | | | | | | | 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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| | DAY ON TEST | 7 | 6 | 5 | 6 | 7 | 4 | 7 | 7 | 6 | 7 | 7 | 6 | 3 | 7 | 7 | 7 | 6 | 6 | 6 | 7 | 7 | 6 | 7 | 5 | 6 |
|---|-------------|
| | | 3 | 8 | 5 | 2 | 0 | 8 | 3 | 1 | 8 | 2 | 2 | 1 | 9 | 3 | 0 | 2 | 2 | 0 | 9 | 2 | 2 | 8 | 3 | 2 | 8 |
| | | 0 | 0 | 6 | 7 | 1 | 0 | 0 | 8 | 7 | 9 | 9 | 0 | 1 | 0 | 5 | 9 | 8 | 9 | 4 | 9 | 9 | 7 | 0 | 6 | 3 |
| B6C3F1 MICE MALE
1000 PPM | ANIMAL ID | 0 |
| | | 0 |
|  |  | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |
| Hepatocellular Carcinoma, Multiple | | | | | X | X | | | | | | | | | X | | | | X | | | | | X | X | |
| Hepatocholangiocarcinoma | |
| Sarcoma, Metastatic, Uncertain Primary Site |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |
| Mesentery | |
| Pancreas | | + |
| Sarcoma, Metastatic, Uncertain Primary Site |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |
| Salivary Glands | | + |
| Stomach, Forestomach | | + |
| Sarcoma, Metastatic, Uncertain Primary Site |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |
| Stomach, Glandular | | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Sarcoma, Metastatic, Uncertain Primary Site |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |
| Tooth | | | | | | | | | | | | | | | | | + | | | | | | + | | | |

CARDIOVASCULAR SYSTEM

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

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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Lab: BNW

| B6C3F1 MICE MALE
1000 PPM | DAY ON TEST | 7 | 6 | 5 | 6 | 7 | 4 | 7 | 7 | 6 | 7 | 7 | 6 | 3 | 7 | 7 | 7 | 6 | 6 | 6 | 7 | 7 | 6 | 7 | 5 | 6 |
|------------------------------|-------------|
| | | 3 | 8 | 5 | 2 | 0 | 8 | 3 | 1 | 8 | 2 | 2 | 1 | 9 | 3 | 0 | 2 | 2 | 0 | 9 | 2 | 2 | 8 | 3 | 2 | 8 |
| | | 0 | 0 | 6 | 7 | 1 | 0 | 0 | 8 | 7 | 9 | 9 | 0 | 1 | 0 | 5 | 9 | 8 | 9 | 4 | 9 | 9 | 7 | 0 | 6 | 3 |
| | | 0 |
| ANIMAL ID | | 0 |
| | | 0 |
| | | 8 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |
| | |
| | |
| | |

males
(cont...)

Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung

Carcinoma, Metastatic, Uncertain
Primary Site

X

ENDOCRINE SYSTEM

| | |
|---|---|
| Adrenal Cortex | + |
| Sarcoma, Metastatic, Uncertain Primary Site |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |
| Subcapsular, Adenoma |
| Adrenal Medulla | + |
| Islets, Pancreatic | + |
| Parathyroid Gland | M | + | + | + | + | + | + | M | + | M | M | + | + | + | + | + | + | + | + | + | M | + | + | + | M |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Adenoma |
| Thyroid Gland | + |
| Follicular Cell, Adenoma | | X | |

GENERAL BODY SYSTEM

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

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

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| | |
|------------------------------|-------------|
| B6C3F1 MICE MALE
1000 PPM | DAY ON TEST | 7 | 6 | 5 | 6 | 7 | 4 | 7 | 7 | 6 | 7 | 7 | 6 | 3 | 7 | 7 | 7 | 6 | 6 | 6 | 7 | 7 | 6 | 7 | 5 | 6 |
| | | 3 | 8 | 5 | 2 | 0 | 8 | 3 | 1 | 8 | 2 | 2 | 1 | 9 | 3 | 0 | 2 | 2 | 0 | 9 | 2 | 2 | 8 | 3 | 2 | 8 |
| | | 0 | 0 | 6 | 7 | 1 | 0 | 0 | 8 | 7 | 9 | 9 | 0 | 1 | 0 | 5 | 9 | 8 | 9 | 4 | 9 | 9 | 7 | 0 | 6 | 3 |
| | ANIMAL ID | 0 |
| | | 0 |
| | | 8 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

males
(cont...)

NONE

GENITAL SYSTEM

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

HEMATOPOIETIC SYSTEM

| | |
|--|---|
| Bone Marrow | + | + | + | A | + |
| Lymph Node | | | | | | | + | | | | | | | | | | | | | | | | | | + |
| Pancreatic, Sarcoma, Metastatic,
Uncertain Primary Site | | X |
| Renal, Carcinoma, Metastatic, Uncertain
Primary Site | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Lymph Node, Bronchial | + | + | + | M | + | + | + | M | + | M | M | M | + | + | + | + | + | M | + | M | + | + | + | M | + |

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

M .. Missing tissue
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| | DAY ON TEST | 7 | 6 | 5 | 6 | 7 | 4 | 7 | 7 | 6 | 7 | 7 | 6 | 3 | 7 | 7 | 7 | 6 | 6 | 6 | 7 | 7 | 6 | 7 | 5 | 6 |
|---|-------------|
| | | 3 | 8 | 5 | 2 | 0 | 8 | 3 | 1 | 8 | 2 | 2 | 1 | 9 | 3 | 0 | 2 | 2 | 0 | 9 | 2 | 2 | 8 | 3 | 2 | 8 |
| | | 0 | 0 | 6 | 7 | 1 | 0 | 0 | 8 | 7 | 9 | 9 | 0 | 1 | 0 | 5 | 9 | 8 | 9 | 4 | 9 | 9 | 7 | 0 | 6 | 3 |
| B6C3F1 MICE MALE
1000 PPM | ANIMAL ID | 0 |
| | | 0 |
|  |  | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |
| Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung | |
| Carcinoma, Metastatic, Uncertain
Primary Site | | | | | | | | X | | | | | | | | | | | | | | | | | | |
| Sarcoma, Metastatic, Uncertain Primary
Site | | X |
| Lymph Node, Mandibular | | M | M | + | + | + | + | M | M | + | M | M | M | M | M | + | M | + | + | + | + | M | + | + | + | + |
| Carcinoma, Metastatic, Uncertain
Primary Site | | | | | | | | X | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mediastinal | | + | + | M | + | M | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung | |
| Carcinoma, Metastatic, Uncertain
Primary Site | | | | | | | | X | | | | | | | | | | | | | | | | | | |
| Hepatocellular Carcinoma, Metastatic,
Liver | | X |
| Sarcoma, Metastatic, Uncertain Primary
Site | | X |
| Lymph Node, Mesenteric | | + | + | + | + | + | + | + | + | + | + | M | + | + | M | + | + | + | + | + | + | + | + | M | + | + |
| Sarcoma, Metastatic, Uncertain Primary
Site | | X |
| Spleen | | + |

males
(cont...)

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

M .. Missing tissue
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BLANK .. Not examined microscopically

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| B6C3F1 MICE MALE
1000 PPM | DAY ON TEST | 7 | 6 | 5 | 6 | 7 | 4 | 7 | 7 | 6 | 7 | 7 | 6 | 3 | 7 | 7 | 7 | 6 | 6 | 6 | 7 | 7 | 6 | 7 | 5 | 6 |
|------------------------------|-------------|
| | | 3 | 8 | 5 | 2 | 0 | 8 | 3 | 1 | 8 | 2 | 2 | 1 | 9 | 3 | 0 | 2 | 2 | 0 | 9 | 2 | 2 | 8 | 3 | 2 | 8 |
| | | 0 | 0 | 6 | 7 | 1 | 0 | 0 | 8 | 7 | 9 | 9 | 0 | 1 | 0 | 5 | 9 | 8 | 9 | 4 | 9 | 9 | 7 | 0 | 6 | 3 |
| | | 0 |
| B6C3F1 MICE MALE
1000 PPM | ANIMAL ID | 8 |
| | | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

males
(cont...)

Hemangiosarcoma

X

X

Sarcoma, Metastatic, Uncertain Primary Site

X

Thymus

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

Alveolar/Bronchiolar Carcinoma, Metastatic, Lung

Sarcoma, Metastatic, Uncertain Primary Site

X

INTEGUMENTARY SYSTEM

Mammary Gland

M M

Skin

+ +

Subcutaneous Tissue, Fibrous Histiocytoma

X

X

MUSCULOSKELETAL SYSTEM

Bone

+ +

Carcinoma, Metastatic, Uncertain Primary Site

X

NERVOUS 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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| B6C3F1 MICE MALE
1000 PPM | DAY ON TEST | 7 | 6 | 5 | 6 | 7 | 4 | 7 | 7 | 6 | 7 | 7 | 6 | 3 | 7 | 7 | 7 | 6 | 6 | 6 | 7 | 7 | 6 | 7 | 5 | 6 |
|------------------------------|-------------|
| | | 3 | 8 | 5 | 2 | 0 | 8 | 3 | 1 | 8 | 2 | 2 | 1 | 9 | 3 | 0 | 2 | 2 | 0 | 9 | 2 | 2 | 8 | 3 | 2 | 8 |
| | | 0 | 0 | 6 | 7 | 1 | 0 | 0 | 8 | 7 | 9 | 9 | 0 | 1 | 0 | 5 | 9 | 8 | 9 | 4 | 9 | 9 | 7 | 0 | 6 | 3 |
| | | 0 |
| ANIMAL ID | | 0 |
| | | 8 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

males
(cont...)

| | |
|---|---|
| Brain | + |
| Carcinoma, Metastatic, Uncertain Primary Site | | | | | | | X | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | |
|---|---|
| Larynx | + |
| Lung | + |
| Alveolar/Bronchiolar Adenoma | | | | | X | | | | | | | X | | | | | X | | | X | | | | | |
| Alveolar/Bronchiolar Adenoma, Multiple | X | | | | | X | | | | X | X | | | X | X | X | | | | X | | | | | X |
| Alveolar/Bronchiolar Carcinoma | | | | X | X | | X | X | | | X | | | | | | X | | | | X | | | X | |
| Alveolar/Bronchiolar Carcinoma, Multiple | | X | | | | | X | | | | | | | | | X | | | | X | X | | X | | X |
| Carcinoma, Metastatic, Harderian Gland |
| Carcinoma, Metastatic, Uncertain Primary Site | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | X | | | | | | | | X | | | | X | | | | | | X | X | |
| Sarcoma, Metastatic, Uncertain Primary Site |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |
| Nose | + |
| 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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqsted: 02/27/2006

Time Report Reqsted: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| | |
|------------------------------|-------------|
| B6C3F1 MICE MALE
1000 PPM | DAY ON TEST | 7 | 6 | 5 | 6 | 7 | 4 | 7 | 7 | 6 | 7 | 7 | 6 | 3 | 7 | 7 | 7 | 6 | 6 | 6 | 7 | 7 | 6 | 7 | 5 | 6 |
| | | 3 | 8 | 5 | 2 | 0 | 8 | 3 | 1 | 8 | 2 | 2 | 1 | 9 | 3 | 0 | 2 | 2 | 0 | 9 | 2 | 2 | 8 | 3 | 2 | 8 |
| | | 0 | 0 | 6 | 7 | 1 | 0 | 0 | 8 | 7 | 9 | 9 | 0 | 1 | 0 | 5 | 9 | 8 | 9 | 4 | 9 | 9 | 7 | 0 | 6 | 3 |
| | ANIMAL ID | 0 |
| | | 0 |
| | | 8 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

males
(cont...)

Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung

Carcinoma, Metastatic, Uncertain
Primary Site

X

Trachea

+ +

Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung

X

SPECIAL SENSES SYSTEM

Eye

+ + + A + A

Harderian Gland

+ +

Adenoma

X

X

Carcinoma

Bilateral, Adenoma

X

URINARY SYSTEM

Kidney

+ +

Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung

Carcinoma, 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

| | | | | |
|---|-------------|---|-----------------------|--------------------|
| B6C3F1 MICE MALE
1000 PPM | DAY ON TEST | 7
3
0 | 6
8
0 | 5
5
6 | 6
2
7 | 7
0
1 | 4
8
0 | 7
3
0 | 7
1
8 | 6
8
7 | 7
2
9 | 7
2
9 | 6
1
0 | 3
9
1 | 7
3
0 | 7
2
9 | 6
2
8 | 6
0
9 | 6
9
4 | 7
2
9 | 7
2
9 | 6
8
7 | 7
3
0 | 5
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6 | 6
8
3 | males
(cont...) |
| | ANIMAL ID | 0
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2
4 | 0
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5 | |
| | | | | |
| | | | | |
| | | | | |
| Capsule, Sarcoma, Metastatic, Uncertain
Primary Site | | X | | |
| Urinary Bladder | | + + + + + + + + + + + + + + + + + + + + + + + + + | | |
| SYSTEMIC LESIONS | | | | |
| Multiple Organ | | + | |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| | | |
|------------------------------|-------------|-----------------------|
| B6C3F1 MICE MALE
1000 PPM | DAY ON TEST | 7
3
0 | 7
2
9 | 7
2
9 | 7
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9 | 6
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9 | 6
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9 | 6
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7 | 0
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8 | 0
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8
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9 |
| | <div></div> | |
| | * TOTALS | |

ALIMENTARY SYSTEM

| | |
|----------------------------------|----|
| Esophagus | + | 50 |
| Gallbladder | + | + | + | + | A | + | A | + | + | A | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | 38 |
| Intestine Large, Cecum | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 44 |
| Intestine Large, Colon | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 48 |
| Intestine Large, Rectum | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 45 |
| Intestine Small, Duodenum | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 44 |
| Intestine Small, Ileum | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 44 |
| Intestine Small, Jejunum | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 44 |
| Carcinoma | | | | | | | | | | | | | X | | | | | | | | | | X | | | 2 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemangiosarcoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Hepatoblastoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 3 |
| Hepatocellular Adenoma | | | | | | | | | | X | | X | X | X | X | | X | | | | | | | | | 9 |
| Hepatocellular Adenoma, Multiple | | | X | X | X | | | X | | | | | | | | X | | X | X | | X | X | | X | X | 26 |
| Hepatocellular Carcinoma | | | | | | | | | | | | X | | | | 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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

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Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| | | 7
3
0 | 7
2
9 | 7
2
9 | 7
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9 | 6
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|---|--|---|-----------------------|--|
| | | | | |
| B6C3F1 MICE MALE | | 0
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7 | 0
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4
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8
4
9 | |
| 1000 PPM | | | | |
| | | * TOTALS | | |
| Hepatocellular Carcinoma, Multiple | | X7 | | |
| Hepatocholangiocarcinoma | | X1 | | |
| Sarcoma, Metastatic, Uncertain Primary Site | | 1 | | |
| Mesentery | | +3 | | |
| Pancreas | | + + + + + + A +49 | | |
| Sarcoma, Metastatic, Uncertain Primary Site | | 1 | | |
| Salivary Glands | | +50 | | |
| Stomach, Forestomach | | + + + + + + A +49 | | |
| Sarcoma, Metastatic, Uncertain Primary Site | | 1 | | |
| Stomach, Glandular | | + + + + + + A +48 | | |
| Sarcoma, Metastatic, Uncertain Primary Site | | 1 | | |
| Tooth | | + + + +6 | | |

CARDIOVASCULAR SYSTEM

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

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

TDMS No. 96011 - 06

Test Type: CHRONIC

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Species/Strain: MICE/B6C3F1

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CUMENE

CAS Number: 98-82-8

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Date Report Reqsted: 02/27/2006

Time Report Reqsted: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| | | |
|------------------------------|-------------|-------------|
| B6C3F1 MICE MALE
1000 PPM | DAY ON TEST | 7
3
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| | * TOTALS | | |

| | | |
|---|---|---|
| Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung | X | 1 |
|---|---|---|

| | | |
|--|--|---|
| Carcinoma, Metastatic, Uncertain
Primary Site | | 1 |
|--|--|---|

ENDOCRINE SYSTEM

| | |
|--|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Sarcoma, Metastatic, Uncertain Primary
Site | | 1 |
| Subcapsular, Adenoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Islets, Pancreatic | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Parathyroid Gland | M | + | + | + | + | + | M | + | + | M | M | + | I | + | + | + | + | + | M | M | M | + | + | + | + | 36 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Pars Distalis, Adenoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Follicular Cell, Adenoma | | X | | | | | | | | | | | | | | | | | X | | | | | | | 3 |

GENERAL BODY SYSTEM

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

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

| | | |
|------------------------------|-------------|-----------------------|
| B6C3F1 MICE MALE
1000 PPM | DAY ON TEST | 7
3
0 | 7
2
9 | 7
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2
9 | 6
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9 | 6
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| | | |
| | * TOTALS | |

NONE

GENITAL SYSTEM

| | |
|-----------------|----|
| Epididymis | + | 50 |
| Preputial Gland | + | 50 |
| Prostate | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Seminal Vesicle | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

HEMATOPOIETIC SYSTEM

| | |
|---|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Lymph Node |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 |
| Pancreatic, Sarcoma, Metastatic, Uncertain Primary Site |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Renal, Carcinoma, Metastatic, Uncertain Primary Site |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Lymph Node, Bronchial | + | M | + | + | M | + | + | + | + | + | + | M | + | M | M | + | + | + | + | + | + | + | M | M | 35 |

* .. Total animals with tissue examined microscopically; 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. 96011 - 06

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Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

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First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| | | 7 | 7 | 7 | 7 | 6 | 6 | 4 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 6 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 4 | 5 | | |
|---|-----------|-----|----------|----|
| DAY ON TEST | | 3 | 2 | 2 | 2 | 0 | 9 | 2 | 2 | 3 | 7 | 3 | 3 | 2 | 2 | 2 | 4 | 0 | 9 | 3 | 2 | 0 | 2 | 3 | 4 | 7 | | |
| | | 0 | 9 | 9 | 9 | 9 | 6 | 0 | 9 | 0 | 1 | 1 | 0 | 9 | 9 | 8 | 5 | 7 | 4 | 0 | 9 | 5 | 9 | 0 | 9 | 6 | | |
| B6C3F1 MICE MALE
1000 PPM | ANIMAL ID | 0 | 0 | | |
| | | 0 | 0 | | |
| | | 8 | 8 | | |
| | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | * TOTALS | |
| Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung | | X | 1 | | |
| Carcinoma, Metastatic, Uncertain
Primary Site | | | 1 | | |
| Sarcoma, Metastatic, Uncertain Primary
Site | | | 1 | | |
| Lymph Node, Mandibular | | M | M | M | M | + | + | M | + | M | + | M | + | + | M | + | + | + | M | + | M | M | M | + | M | M | 25 | |
| Carcinoma, Metastatic, Uncertain
Primary Site | | | 1 | | |
| Lymph Node, Mediastinal | | + | + | + | M | + | M | + | M | + | + | + | M | + | + | + | M | M | + | + | + | + | + | + | M | + | M | 39 |
| Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung | | X X | | 2 | | |
| Carcinoma, Metastatic, Uncertain
Primary Site | | | 1 | | |
| Hepatocellular Carcinoma, Metastatic,
Liver | | | 1 | | |
| Sarcoma, Metastatic, Uncertain Primary
Site | | | 1 | | |
| Lymph Node, Mesenteric | | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | M | + | 44 | |
| Sarcoma, Metastatic, Uncertain Primary
Site | | | 1 | | |
| Spleen | | + | + | 50 | |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| | | |
|------------------------------|-------------|-----------------------|
| B6C3F1 MICE MALE
1000 PPM | DAY ON TEST | 7
3
0 | 7
2
9 | 7
2
9 | 7
2
9 | 6
0
9 | 6
9
6 | 4
2
0 | 7
2
9 | 7
3
0 | 6
7
1 | 7
3
1 | 7
2
0 | 7
2
9 | 6
2
8 | 6
4
5 | 4
0
7 | 6
9
4 | 7
3
0 | 7
2
9 | 7
0
5 | 7
2
9 | 7
3
0 | 4
4
9 | 5
7
6 |
| | ANIMAL ID | 0
0
8
2
6 | 0
0
8
2
7 | 0
0
8
2
8 | 0
0
8
2
9 | 0
0
8
3
0 | 0
0
8
3
1 | 0
0
8
3
2 | 0
0
8
3
3 | 0
0
8
3
4 | 0
0
8
3
5 | 0
0
8
3
6 | 0
0
8
3
7 | 0
0
8
3
8 | 0
0
8
3
9 | 0
0
8
4
0 | 0
0
8
4
1 | 0
0
8
4
2 | 0
0
8
4
3 | 0
0
8
4
4 | 0
0
8
4
5 | 0
0
8
4
6 | 0
0
8
4
7 | 0
0
8
4
8 | 0
0
8
4
9 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| * TOTALS | | |

Hemangiosarcoma X X 4

Sarcoma, Metastatic, Uncertain Primary Site 1

Thymus + + + + + + + + + + X + + + + + + + + + + M + + + + 44

Alveolar/Bronchiolar Carcinoma, Metastatic, Lung X 1

Sarcoma, Metastatic, Uncertain Primary Site 1

INTEGUMENTARY SYSTEM

Mammary Gland M 0

Skin + 50

Subcutaneous Tissue, Fibrous Histiocytoma X 3

MUSCULOSKELETAL SYSTEM

Bone + 50

Carcinoma, Metastatic, Uncertain Primary Site 1

NERVOUS 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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| | DAY ON TEST | 7 | 7 | 7 | 7 | 6 | 6 | 4 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 6 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 4 | 5 |
|------------------------------|-------------|----------|
| | | 3 | 2 | 2 | 2 | 0 | 9 | 2 | 2 | 3 | 7 | 3 | 3 | 2 | 2 | 2 | 4 | 0 | 9 | 3 | 2 | 0 | 2 | 3 | 4 | 7 |
| | | 0 | 9 | 9 | 9 | 9 | 6 | 0 | 9 | 0 | 1 | 1 | 0 | 9 | 9 | 8 | 5 | 7 | 4 | 0 | 9 | 5 | 9 | 0 | 9 | 6 |
| B6C3F1 MICE MALE
1000 PPM | ANIMAL ID | 0 | 0 |
| | | 0 | 0 |
| | | 8 | 8 |
| | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | | * TOTALS | |

| | |
|--|----|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Carcinoma, Metastatic, Uncertain
Primary Site | | 1 |

RESPIRATORY SYSTEM

| | |
|--|----|
| Larynx | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Alveolar/Bronchiolar Adenoma | | | | | X | | | | X | X | | X | X | | | | | | | | | | | | | 9 |
| Alveolar/Bronchiolar Adenoma, Multiple | X | X | X | X | | | | X | | | X | | | X | | | | | X | X | X | X | | | | 20 |
| Alveolar/Bronchiolar Carcinoma | | | X | | X | | X | X | | X | | | | | | X | | | | X | | | | | | 16 |
| Alveolar/Bronchiolar Carcinoma, Multiple | | X | | X | | X | | | X | | | | | | | X | | X | X | | X | X | | | | 17 |
| Carcinoma, Metastatic, Harderian Gland | | | | | | | | | | | | | | | | | | | X | | | | | | | 1 |
| Carcinoma, Metastatic, Uncertain
Primary Site | | 1 |
| Hepatocellular Carcinoma, Metastatic,
Liver | X | X | 7 |
| Sarcoma, Metastatic, Uncertain Primary
Site | 1 |
| Nose | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Pleura | | | | | | | | | | | + | | | | | | | | | | | | | | | 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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| | | |
|------------------------------|-------------|-------------|
| B6C3F1 MICE MALE
1000 PPM | DAY ON TEST | 7
3
0 | 7
2
9 | 7
2
9 | 7
2
9 | 6
0
9 | 6
9
6 | 4
2
0 | 7
2
9 | 7
3
0 | 6
7
1 | 7
3
1 | 7
3
0 | 7
2
9 | 7
2
9 | 6
2
8 | 6
4
5 | 4
0
7 | 6
9
4 | 7
3
0 | 7
2
9 | 7
0
5 | 7
2
9 | 7
3
0 | 4
4
9 | 5
7
6 |
| | ANIMAL ID | 0
0
8
2
6 | 0
0
8
2
7 | 0
0
8
2
8 | 0
0
8
2
9 | 0
0
8
3
0 | 0
0
8
3
1 | 0
0
8
3
2 | 0
0
8
3
3 | 0
0
8
3
4 | 0
0
8
3
5 | 0
0
8
3
6 | 0
0
8
3
7 | 0
0
8
3
8 | 0
0
8
3
9 | 0
0
8
4
0 | 0
0
8
4
1 | 0
0
8
4
2 | 0
0
8
4
3 | 0
0
8
4
4 | 0
0
8
4
5 | 0
0
8
4
6 | 0
0
8
4
7 | 0
0
8
4
8 | 0
0
8
4
9 | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| * TOTALS | | |

Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung

X

1

Carcinoma, Metastatic, Uncertain
Primary Site

1

Trachea

+ +

50

Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung

1

SPECIAL SENSES SYSTEM

Eye

+ +

48

Harderian Gland

+ +

50

Adenoma

X

X

4

Carcinoma

X

X

2

Bilateral, Adenoma

1

URINARY SYSTEM

Kidney

+ +

50

Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung

X

1

Carcinoma, 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

| | | |
|------------------------------|-------------|----------|
| B6C3F1 MICE MALE
1000 PPM | DAY ON TEST | 7 | 7 | 7 | 7 | 6 | 6 | 4 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 6 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 4 | 5 |
| | | 3 | 2 | 2 | 2 | 0 | 9 | 2 | 2 | 3 | 7 | 3 | 3 | 2 | 2 | 2 | 4 | 0 | 9 | 3 | 2 | 0 | 2 | 3 | 4 | 7 |
| | | 0 | 9 | 9 | 9 | 9 | 6 | 0 | 9 | 0 | 1 | 1 | 0 | 9 | 9 | 8 | 5 | 7 | 4 | 0 | 9 | 5 | 9 | 0 | 9 | 6 |
| | | |
| | ANIMAL ID | 0 | 0 |
| | | 0 | 0 |
| | | 8 | 8 |
| | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | | * TOTALS | |

| | |
|---|----|
| Capsule, Sarcoma, Metastatic, Uncertain
Primary Site | 1 | |
| Urinary Bladder | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |

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

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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

| | | |
|---|---|--|
| Mesentery | + | |
| Pancreas | + | |
| Carcinoma, Metastatic, Uncertain Primary Site | | |
| Lymphoma Malignant | X | |
| Salivary Glands | + | |
| Stomach, Forestomach | + | |
| Epithelium, Squamous Cell Carcinoma | X | |
| Stomach, Glandular | + | |
| Lymphoma Malignant | X | |

CARDIOVASCULAR SYSTEM

| | | |
|---|---|--|
| Heart | + | |
| Carcinoma, Metastatic, Uncertain Primary Site | | |

ENDOCRINE SYSTEM

| | | |
|----------------|---|--|
| Adrenal Cortex | + | |
|----------------|---|--|

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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

| |
|----------------------------|
| Adrenal Medulla | + | |
| Islets, Pancreatic | + | |
| Adenoma |
| Parathyroid Gland | M | + | I | I | M | + | + | + | M | + | M | M | + | M | M | M | M | + | + | + | + | M | + | + | M |
| Pituitary Gland | + |
| Lymphoma Malignant | | | X | |
| Pars Distalis, Adenoma | | | | | | X | | | | | | X | | X | | | | | | X | | X | | | |
| Pars Intermedia, Adenoma | | | | | | | | X | | | | | | | | | | | | | | | | | X |
| Thyroid Gland | + |
| Follicular Cell, Adenoma | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Follicular Cell, Carcinoma | | | | | | | | | | | | | | | | X | | | | | | | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| |
|----------------|
| Clitoral Gland | + | + | + | M | + | + | + | + | + | + | I | + | + | + | M | + | + | + | + | + | + | + | + | I |
| Ovary | + |

* .. Total animals with tissue examined microscopically; 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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

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

females
(cont...)

Cystadenoma

X X

Lymphoma Malignant

X

Teratoma Benign

Uterus

+ +

Lymphoma Malignant

X

Polyp Stromal

X

X

X

Endometrium, Carcinoma

X

X

HEMATOPOIETIC SYSTEM

Bone Marrow

+ +

Lymph Node

+

+

Lumbar, Lymphoma Malignant

X

Pancreatic, Lymphoma Malignant

X

Renal, Lymphoma Malignant

X

Lymph Node, Bronchial

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

Carcinoma, Metastatic, Uncertain
Primary Site

Lymphoma Malignant

X

Lymph Node, Mandibular

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

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

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Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

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

females
(cont...)

Lymphoma Malignant

X

Lymph Node, Mediastinal

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

Carcinoma, Metastatic, Uncertain
Primary Site

Lymphoma Malignant

X

Lymph Node, Mesenteric

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

Lymphoma Malignant

X

Spleen

+ +

Lymphoma Malignant

X X

Thymus

+ +

Carcinoma, Metastatic, Uncertain
Primary Site

Lymphoma Malignant

X X

X

INTEGUMENTARY SYSTEM

Mammary Gland

+ +

Carcinoma

X

Skin

+ +

Squamous Cell Carcinoma

* .. Total animals with tissue examined microscopically; 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
CONTROL | DAY ON TEST | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 2 | 7 | 6 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 5 |
| | | 5 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 8 | 3 | 8 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 3 | 5 |
| | | 6 | 3 | 5 | 2 | 3 | 3 | 2 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 2 | 1 |
| | ANIMAL ID | 0 | 0 |
| | | 0 | 0 |
| | | 1 | 1 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |
| | | females (cont...) | |

Subcutaneous Tissue,
Hemangiosarcoma

X

MUSCULOSKELETAL SYSTEM

| | |
|--|---|
| Bone | + |
| Skeletal Muscle |
| Carcinoma, Metastatic, Uncertain
Primary Site | |

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

| | |
|--|---|
| Larynx | + |
| Lung | + |
| Alveolar/Bronchiolar Adenoma |
| Alveolar/Bronchiolar Carcinoma |
| Carcinoma, Metastatic, Harderian Gland | |
| Carcinoma, Metastatic, Uncertain |

* .. Total animals with tissue examined microscopically; 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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

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

females
(cont...)

Primary Site

Hepatocellular Carcinoma, Metastatic,
Liver

Lymphoma Malignant

X X

Nose

+ +

Carcinoma, Metastatic, Harderian Gland

X

Trachea

+ +

SPECIAL SENSES SYSTEM

Eye

+ +

Harderian Gland

+ +

Adenoma

X X X X X X X

Carcinoma

X X X X

URINARY SYSTEM

Kidney

+ +

Carcinoma, Metastatic, Uncertain
Primary Site

Lymphoma Malignant

X

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

TDMS No. 96011 - 06

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First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

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

Urinary Bladder

+ +

SYSTEMIC LESIONS

Multiple Organ

+ +

Lymphoma Malignant

X X X

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

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

TDMS No. 96011 - 06

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Lab: BNW

| | | |
|-------------------------------|-------------|-----------------------|
| B6C3F1 MICE FEMALE
CONTROL | DAY ON TEST | 7
3
3 | 2
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4 | 7
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2 | 7
3
1 | 7
3
3 | 7
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2 | 7
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2 | 7
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3 | 7
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3
1 | 7
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2 | 1
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3 | 7
3
3 | 7
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| | ANIMAL ID | 0
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| * TOTALS | | |

ALIMENTARY SYSTEM

| | |
|------------------------------------|----|
| Esophagus | + | 50 |
| Gallbladder | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | I | M | + | M | A | M | + | + | + | + | 38 |
| Intestine Large, Cecum | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | 46 |
| Intestine Large, Colon | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Intestine Large, Rectum | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Intestine Small, Duodenum | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Intestine Small, Ileum | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | 46 |
| Intestine Small, Jejunum | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | 46 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocellular Adenoma | | | | | | X | | | X | X | | X | | | | | | | | X | | | X | | | 9 |
| Hepatocellular Adenoma, Multiple | | | X | | X | | | X | | | X | | X | X | | | | | | | | | | | | 9 |
| Hepatocellular Carcinoma | | | X | | | | | X | | | | | | | | X | X | | | X | | | | X | | 8 |
| Hepatocellular Carcinoma, Multiple |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | | | | 2 |
| Lymphoma Malignant | | | | | | | | | | | | | | | X | | | | | | | | | | | 3 |

* .. 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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Lab: BNW

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|-------------------------------|-------------|-----------------------|--|
| B6C3F1 MICE FEMALE
CONTROL | DAY ON TEST | 7
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3
1 | 7
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2 | 7
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1 | 7
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|--|----|
| Mesentery | + | | | | + | | | | | | + | | | | | | | | | | | + | + | | | 11 |
| Pancreas | + | A | + | 49 |
| Carcinoma, Metastatic, Uncertain
Primary Site | | X | | | | 1 |
| Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Epithelium, Squamous Cell Carcinoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Stomach, Glandular | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |

CARDIOVASCULAR SYSTEM

| | |
|--|----|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Carcinoma, Metastatic, Uncertain
Primary Site | | X | | | | 1 |

ENDOCRINE SYSTEM

| | |
|----------------|----|
| Adrenal Cortex | + | 50 |
|----------------|----|

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

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

| | | |
|-------------------------------|-------------|-----------------------|
| B6C3F1 MICE FEMALE
CONTROL | DAY ON TEST | 7
3
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| | ANIMAL ID | 0
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| | * TOTALS | |

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|----------------------------|----|
| Adrenal Medulla | + | 50 |
| Islets, Pancreatic | + | A | + | 49 |
| Adenoma | | | | | | | | X | | | | | | | | | | | | | | | | | | 1 |
| Parathyroid Gland | + | + | + | M | + | + | M | M | M | + | + | + | M | + | + | + | M | + | M | M | M | M | + | M | + | 26 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Pars Distalis, Adenoma | | | | X | | | | X | | | | | | | | | | | X | | | | | | | 8 |
| Pars Intermedia, Adenoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Follicular Cell, Adenoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Follicular Cell, Carcinoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |

GENERAL BODY SYSTEM
NONE

GENITAL SYSTEM

| | |
|----------------|----|
| Clitoral Gland | + | + | + | I | M | M | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | 41 |
| Ovary | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | 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

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| B6C3F1 MICE FEMALE
CONTROL | DAY ON TEST | 7
3
3 | 2
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9 | | | | | |
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| | | | | | | | |
| | * TOTALS | | | | | | |
| Lymphoma Malignant | | X | | | | | | | | | | | | | | | | | | | | X | | | | | | | | 3 |
| Lymph Node, Mediastinal
Carcinoma, Metastatic, Uncertain
Primary Site | | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | M | + | + | + | 44 | | | |
| Lymphoma Malignant | | X | | | | | | | | | | | | | | X | | | | X | | | | | | | | 4 | | |
| Lymph Node, Mesenteric
Lymphoma Malignant | | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | 46 | | | |
| | | X | | | | | | | | | | | | | | X | | | | | | | | 3 | | | | | | |
| Spleen
Lymphoma Malignant | | + | A | + | 49 | | | |
| | | | | | | | | | | | | | | | | | | X | | | | | | | | 3 | | | | |
| Thymus
Carcinoma, Metastatic, Uncertain
Primary Site | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 49 | | | |
| Lymphoma Malignant | | X | | | | | | | | | | | | | | X | | | | | | | | 5 | | | | | | |

INTEGUMENTARY SYSTEM

| | |
|-------------------------|----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Carcinoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Squamous Cell Carcinoma | | | | | | | | | | | | | 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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqsted: 02/27/2006

Time Report Reqsted: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

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

Subcutaneous Tissue,
Hemangiosarcoma

1

MUSCULOSKELETAL SYSTEM

Bone

+ +

50

Skeletal Muscle

+ 1

Carcinoma, Metastatic, Uncertain
Primary Site

X 1

NERVOUS SYSTEM

Brain

+ +

50

RESPIRATORY SYSTEM

Larynx

+ +

50

Lung

+ +

50

Alveolar/Bronchiolar Adenoma

X 1

Alveolar/Bronchiolar Carcinoma

X 3

Carcinoma, Metastatic, Harderian Gland

3

Carcinoma, Metastatic, Uncertain

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. 96011 - 06

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

| | | |
|---|--|----|
| Primary Site | | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | X | | | | | X | | | | | | | X | X | | 4 |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | X | | | | | | | | | 4 |
| Nose |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Carcinoma, Metastatic, Harderian Gland |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Trachea |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

SPECIAL SENSES SYSTEM

| | | |
|-----------------|--|----|
| Eye | | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Harderian Gland |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenoma | | | | | | | | | | X | X | | | | X | X | | | | | | | | | 8 |
| Carcinoma | | | | | | | | | | X | | | | | | | | | | | | | | | 5 |

URINARY SYSTEM

| | | |
|---|--|----|
| Kidney | | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Carcinoma, Metastatic, Uncertain Primary Site |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | | 1 |
| Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

| | | | |
|-------------------------------|-----------------|-----------------------|----|
| B6C3F1 MICE FEMALE
CONTROL | DAY ON TEST | 7
3
3 | 2
9
2 | 6
5
4 | 7
3
2 | 7
3
1 | 7
3
2 | 7
3
1 | 7
3
1 | 7
3
3 | 7
3
2 | 7
3
2 | 7
3
3 | 7
3
1 | 7
3
1 | 7
3
3 | 7
3
2 | 7
3
1 | 7
3
2 | 1
9
3 | 7
3
3 | 7
2
6 | 6
0
7 | 7
3
2 | 7
3
1 | |
| | ANIMAL ID | 0
0
1
2
6 | 0
0
1
2
7 | 0
0
1
2
8 | 0
0
1
2
9 | 0
0
1
3
0 | 0
0
1
3
1 | 0
0
1
3
2 | 0
0
1
3
3 | 0
0
1
3
4 | 0
0
1
3
5 | 0
0
1
3
6 | 0
0
1
3
7 | 0
0
1
3
8 | 0
0
1
3
9 | 0
0
1
4
0 | 0
0
1
4
1 | 0
0
1
4
2 | 0
0
1
4
3 | 0
0
1
4
4 | 0
0
1
4
5 | 0
0
1
4
6 | 0
0
1
4
7 | 0
0
1
4
8 | 0
0
1
4
9 | |
| | * TOTALS | | |
| | Urinary Bladder | + | A | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |

SYSTEMIC LESIONS

| | |
|--------------------|----|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant | | X | | | | | | | | | | | | | X | X | | X | | | | | | | | 7 |

* .. Total animals with tissue examined microscopically; 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. 96011 - 06

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Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

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

females
(cont...)

ALIMENTARY SYSTEM

| |
|----------------------------------|
| Esophagus | + |
| Gallbladder | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | M | + | M | A | + | + | + | + |
| Lymphoma Malignant | | | | X | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + |
| Intestine Large, Colon | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + |
| Carcinoma |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + |
| Lymphoma Malignant |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + |
| Liver | + |
| Hemangiosarcoma |
| Hepatocellular Adenoma | | | | X | | | X | | | X | | X | | X | | X | | | | X | | X | | | |
| Hepatocellular Adenoma, Multiple | 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. 96011 - 06

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First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

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

females
(cont...)

Hepatocellular Carcinoma

X

X

X

Hepatocellular Carcinoma, Multiple

X

Hepatocholangiocarcinoma

X

Histiocytic Sarcoma

Lymphoma Malignant

X

Mesentery

+

+

+

+

+

+

+

Sarcoma

Pancreas

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

Lymphoma Malignant

X

X

Salivary Glands

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

Lymphoma Malignant

X

Stomach, Forestomach

+

+

+

+

+

+

+

+

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+

+

Squamous Cell Papilloma

Stomach, Glandular

+

+

+

+

+

+

+

+

+

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+

+

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+

+

+

CARDIOVASCULAR SYSTEM

Blood Vessel

+

Heart

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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

Hepatocholangiocarcinoma, Metastatic,
Liver

X

ENDOCRINE SYSTEM

| |
|---------------------------------------|
| Adrenal Cortex | + |
| Hepatoblastoma, Metastatic,
Liver | X | |
| Adrenal Medulla | + |
| Islets, Pancreatic
Carcinoma | + |
| Parathyroid Gland | + | + | M | + | + | M | M | + | + | + | M | + | + | + | + | M | M | + | + | + | + | + | + | + | M |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + |
| Pars Distalis, Adenoma | X | |
| Thyroid Gland | + |
| Bilateral, Follicular Cell, Carcinoma | X | |
| C-cell, Adenoma | X | |
| Follicular Cell, Adenoma | X | |

GENERAL BODY SYSTEM

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

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

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

NONE

GENITAL SYSTEM

| |
|--------------------|
| Clitoral Gland | M | + | M | + |
| Ovary | + |
| Cystadenocarcinoma | | | | | | | | | | | | | | | | | | | | X | | | | |
| Cystadenoma | | | | | | | | | | | | | | | X | | | | | | | | | |
| Yolk Sac Carcinoma | |
| Uterus | + |

HEMATOPOIETIC SYSTEM

| | |
|--|---|
| Bone Marrow | + |
| Lymph Node | | | + | | | + | | | + | | | + | | | + | + | | | | | + | | | |
| Iliac, Lymphoma Malignant | | | X | |
| Lumbar, Lymphoma Malignant | | | | | | X | | | | | | | | | | | | | | | | | | |
| Renal, Hepatocholangiocarcinoma, Metastatic, Liver | | | | | | | | | | | | | X | | | | | | | | | | | |
| Renal, Lymphoma Malignant | | | X | |
| Lymph Node, Bronchial | + | M | + | + | + | M | + | + | + | + | + | M | + | M | M | + | + | + | + | M | + | M | + | + |

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

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

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

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

females
(cont...)

| | |
|---|---|
| Lymphoma Malignant | | | | | X | | | | | X | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | M | + | + | + | + | M | + | + | + | + | M | + | + | + | + | M | M | + | + | + | + | + |
| Lymphoma Malignant | | | | X | |
| Lymph Node, Mediastinal | + | M | + | + | + | + | M | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocholangiocarcinoma, Metastatic, Liver | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | X | | | | | X | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | M | + | I | + | M | + | + | + | + | + | + | + | + | + | M | + |
| Lymphoma Malignant | | | | X | | | X | | | | | | | | | | | | | | | | | | | |
| Spleen | + |
| Lymphoma Malignant | X | X | X | | | X | | X | | | | | | | | | | | | | | | | X | | |
| Thymus | + |
| Hepatocholangiocarcinoma, Metastatic, Liver | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | X | |

INTEGUMENTARY SYSTEM

| | | |
|---------------|--|---|
| Mammary Gland | | + |
| Carcinoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 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
125 PPM | DAY ON TEST | 7
2
6 | 7
3
1 | 7
3
1 | 7
3
3 | 5
5
5 | 7
3
2 | 7
3
3 | 7
3
2 | 7
3
1 | 7
3
1 | 4
9
9 | 6
0
9 | 7
3
3 | 7
3
2 | 7
3
1 | 7
3
3 | 7
3
2 | 7
3
1 | 7
3
2 | 6
2
3 | 7
3
2 | 6
6
8 | 7
3
1 | 7
3
2 |
| | ANIMAL ID | 0
0
3
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1 | 0
0
3
0
2 | 0
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3
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3 | 0
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3
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4 | 0
0
3
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5 | 0
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6 | 0
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7 | 0
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8 | 0
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3
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9 | 0
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1 | 0
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1 | 0
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3
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2 | 0
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3
1
3 | 0
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3
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4 | 0
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3
1
5 | 0
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3
1
6 | 0
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3
1
7 | 0
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3
2
8 | 0
0
3
2
9 | 0
0
3
2
0 | 0
0
3
2
1 | 0
0
3
2
2 | 0
0
3
2
3 |
| | | |
| | | |
| | | |

females
(cont...)

| | |
|---|---|
| Skin | + |
| Subcutaneous Tissue,
Hemangiosarcoma |
| Subcutaneous Tissue, Histiocytic
Sarcoma | |
| Subcutaneous Tissue, Sarcoma |

MUSCULOSKELETAL SYSTEM

| | |
|--|---|
| Bone | + |
| Skeletal Muscle |
| Hepatocholangiocarcinoma, Metastatic,
Liver | |

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

| |
|--------|
| Larynx | + |
| Lung | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
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Species/Strain: MICE/B6C3F1

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CUMENE

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Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Requested: 02/27/2006

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First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

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

females
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|---|---|---|---|--|---|---|---|--|--|---|--|---|---|--|--|--|---|---|---|---|---|---|
| Alveolar/Bronchiolar Adenoma | | | X | | X | X | | | X | | | | | | | X | | | | X | X | X | | | X |
| Alveolar/Bronchiolar Adenoma, Multiple | X | | | | | | | | | X | | | | | X | | | | | X | | | | X | |
| Alveolar/Bronchiolar Carcinoma | | | X | X | | | | | X | | | | | | | | | | | X | | | | | X |
| Alveolar/Bronchiolar Carcinoma, Multiple | X | | | | X | | | | | | | | | | | | | | | | | | X | X | |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | X | | | | | | | | | | | | | X | | | | |
| Hepatocholangiocarcinoma, Metastatic, Liver | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Lymphoma Malignant | | | | X | X | | | | X | | | | | | | | | | | | | | | | |

| | |
|---|---|
| Nose | + |
| Respiratory Epithelium, Adenoma |
| Pleura | | | | | | | | | | | | | + | | | | | | | | | | | | |
| Hepatocholangiocarcinoma, Metastatic, Liver | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Trachea | + |

SPECIAL SENSES SYSTEM

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

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

Carcinoma

Lymphoma Malignant

X

X

URINARY SYSTEM

| | |
|---|---|
| Kidney | + |
| Hepatocholangiocarcinoma, Metastatic, Liver | |
| Lymphoma Malignant |
| Urinary Bladder | + |
| Lymphoma Malignant |

SYSTEMIC LESIONS

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

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

M .. Missing tissue
A .. Autolysis precludes evaluation
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| | DAY ON TEST | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 6 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | |
|------------------------------------|-------------|----------|
| | | 3 | 3 | 3 | 8 | 3 | 3 | 1 | 4 | 3 | 3 | 3 | 1 | 3 | 7 | 3 | 3 | 4 | 3 | 3 | 3 | 8 | 3 | 3 | 3 | 3 | |
| | | 1 | 6 | 1 | 7 | 2 | 1 | 3 | 6 | 3 | 3 | 3 | 2 | 2 | 0 | 2 | 1 | 5 | 2 | 1 | 1 | 1 | 2 | 1 | 3 | 1 | |
| B6C3F1 MICE FEMALE
125 PPM | ANIMAL ID | 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 | |
| | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | * TOTALS |
| Hepatocellular Carcinoma | | | | | | X | | X | | | | | | | | | | | | X | | | | | | | 6 |
| Hepatocellular Carcinoma, Multiple |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Hepatocholangiocarcinoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Histiocytic Sarcoma | | | | | | | | | X | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | X | | X | | | | | | | 3 |
| Mesentery | | + | | | | | | | | + | + | | + | | + | | | | | | | | | | | | 12 |
| Sarcoma | | | | | | | | | | | | X | | | | | | | | | | | | | | | 1 |
| Pancreas |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 |
| Salivary Glands |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | X | | | | | | | | | 2 |
| Stomach, Forestomach |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | X | | | | | | | | | 1 |
| Stomach, Glandular |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

CARDIOVASCULAR SYSTEM

Blood Vessel

1

Heart

50

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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Lab: BNW

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

Hepatocholangiocarcinoma, Metastatic,
Liver

1

ENDOCRINE SYSTEM

Adrenal Cortex

+ +

50

Hepatocholangiocarcinoma, Metastatic,
Liver

1

Adrenal Medulla

I +

49

Islets, Pancreatic
Carcinoma

+ +

50

1

Parathyroid Gland

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

33

Pituitary Gland

+ +

49

Pars Distalis, Adenoma

X X X

6

Thyroid Gland

+ +

50

Bilateral, Follicular Cell, Carcinoma

1

C-cell, Adenoma

1

Follicular Cell, Adenoma

X

4

GENERAL BODY SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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

NONE

GENITAL SYSTEM

| | |
|--------------------|----|
| Clitoral Gland | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cystadenocarcinoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Cystadenoma | | | | | | | | | | | | | | | | | | X | | | | | | | | 2 |
| Yolk Sac Carcinoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | | | | | 1 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

HEMATOPOIETIC SYSTEM

| | |
|--|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | + | | | | + | | 9 |
| Iliac, Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Lumbar, Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Renal, Hepatocholangiocarcinoma, Metastatic, Liver |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Renal, Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | | | | | 2 |
| Lymph Node, Bronchial | + | M | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | M | M | + | + | + | M | M | + | 36 |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

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| B6C3F1 MICE FEMALE
125 PPM | DAY ON TEST | 7
3
1 | 6
3
6 | 7
3
1 | 6
8
7 | 7
3
2 | 7
3
1 | 7
1
3 | 6
4
6 | 7
3
3 | 7
3
3 | 7
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3 | 7
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2 | 3
7
0 | 7
3
2 | 7
3
1 | 6
4
5 | 7
3
2 | 7
3
1 | 7
3
1 | 4
8
1 | 7
3
2 | 7
3
1 | 7
3
3 | 7
3
1 | * TOTALS |
|---|-------------|----------|
| | ANIMAL ID | 0
0
3
2
6 | 0
0
3
2
7 | 0
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8 | 0
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9 | 0
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6 | 0
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7 | 0
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8 | 0
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3
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| | | |
| | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | X | | X | | | | | | | 4 |
| Lymph Node, Mandibular | | + | + | + | M | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | M | + | + | + | + | 42 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | X | | X | X | | X | | | | 5 |
| Lymph Node, Mediastinal | | + | M | M | M | + | + | + | M | + | + | M | M | + | M | + | + | + | + | + | + | + | + | + | + | 40 |
| Hepatocholangiocarcinoma, Metastatic, Liver |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | X | | X | X | | | | | | 5 |
| Lymph Node, Mesenteric |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | X | X | | X | | X | | | | 6 |
| Spleen |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant | | | | | X | | | | | X | | | X | | | | | X | X | X | | X | | | | 13 |
| Thymus |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocholangiocarcinoma, Metastatic, Liver |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | X | | | | | | 2 |

INTEGUMENTARY SYSTEM

| | |
|---------------|----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Carcinoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 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

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

| | |
|--|----|
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Subcutaneous Tissue, Hemangiosarcoma | | | | | | | | | | | | | | | | X | | | | | | | | | | | 2 |
| Subcutaneous Tissue, Histiocytic Sarcoma | | | | | | | | | | X | | | | | | | | | | | | | | | | | 1 |
| Subcutaneous Tissue, Sarcoma | | | | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |

MUSCULOSKELETAL SYSTEM

| | |
|---|----|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Skeletal Muscle |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Hepatocholangiocarcinoma, Metastatic, Liver |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

| | |
|--------|----|
| Larynx | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| | DAY ON TEST | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 6 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | |
|---|-------------|----------|
| | | 3 | 3 | 3 | 8 | 3 | 3 | 1 | 4 | 3 | 3 | 3 | 1 | 3 | 7 | 3 | 3 | 4 | 3 | 3 | 3 | 8 | 3 | 3 | 3 | 3 | |
| | | 1 | 6 | 1 | 7 | 2 | 1 | 3 | 6 | 3 | 3 | 3 | 2 | 2 | 0 | 2 | 1 | 5 | 2 | 1 | 1 | 1 | 2 | 1 | 3 | 1 | |
| B6C3F1 MICE FEMALE
125 PPM | ANIMAL ID | 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 | |
| | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | * TOTALS |
| Alveolar/Bronchiolar Adenoma | | X | | | | | X | | | | | | | | | | | X | | | | X | | | | | 13 |
| Alveolar/Bronchiolar Adenoma, Multiple | | | | X | | | | X | X | X | | | | | | X | | | | | X | | X | X | | | 13 |
| Alveolar/Bronchiolar Carcinoma | | X | | | | X | | | X | | X | | | | | | | | | | X | | | | | | 10 |
| Alveolar/Bronchiolar Carcinoma, Multiple | | | | | | X | | | | | | | | | | X | | | | | | | | | | | 6 |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | X | | X | | | | | | | | | | | | X | | | | | | | 5 |
| Hepatocholangiocarcinoma, Metastatic, Liver |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | X | | | | | | | | | 4 |
| Nose |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Respiratory Epithelium, Adenoma | | | | | | | | | | | | | | | | | | | | X | | | | | | | 1 |
| Pleura |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Hepatocholangiocarcinoma, Metastatic, Liver |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Trachea |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

SPECIAL SENSES SYSTEM

| | |
|-----------------|----|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Adenoma | X | | | | | | | | | | | | | | X | | | | | | | | | | | | 4 |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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

| | |
|--------------------|---|
| Carcinoma | 1 |
| Lymphoma Malignant | 1 |

URINARY SYSTEM

| | |
|---|----|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocholangiocarcinoma, Metastatic, Liver |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | X | | X | | | | | | | 3 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 48 |
| Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | | | | | | 2 |

SYSTEMIC LESIONS

| | |
|---------------------|----|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Histiocytic Sarcoma | | | | | | | | | X | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | X | | | | | X | | | X | | | | X | X | X | X | | X | | | | 15 |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

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

ALIMENTARY SYSTEM

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

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

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

females
(cont...)

Hepatocellular Carcinoma, Multiple

Histiocytic Sarcoma

Lymphoma Malignant

Mesentery

Hemangiosarcoma

Pancreas

Lymphoma Malignant

Salivary Glands

Stomach, Forestomach

Squamous Cell Papilloma

Stomach, Glandular

Lymphoma Malignant

CARDIOVASCULAR SYSTEM

Blood Vessel

Heart

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

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

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

ENDOCRINE SYSTEM

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

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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

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First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| | DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 5 |
|-------------------------------|-------------|
| | | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 3 | 3 | 9 | 8 | 3 | 3 | 3 | 0 |
| | | 2 | 2 | 2 | 1 | 3 | 3 | 7 | 3 | 2 | 2 | 3 | 1 | 2 | 5 | 2 | 2 | 1 | 2 | 2 | 4 | 7 | 2 | 1 | 1 | 9 |
| B6C3F1 MICE FEMALE
250 PPM | ANIMAL ID | 0 |
| | | 0 |
|  |  | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |
| Clitoral Gland | | + | + | + | + | + | + | + | + | + | + | + | M | + | + | M | + | + | + | + | + | I | + | + | + | M |
| Ovary | | + |
| Cystadenocarcinoma | |
| Histiocytic Sarcoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |
| Luteoma | |
| Lymphoma Malignant | |
| Uterus | | + |
| Leiomyoma | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Lymphoma Malignant | |
| Polyp Stromal | |
| Bilateral, Polyp Stromal | |
| Endometrium, Carcinoma | |

females
(cont...)

HEMATOPOIETIC SYSTEM

| | |
|--|---|
| Bone Marrow | + |
| Hemangiosarcoma |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | X | | | | | | | | | | X |
| Lymph Node | + | | | + |
| Histiocytic Sarcoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |
| Axillary, Hemangiosarcoma, Metastatic, | |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Lab: BNW

[illegible][illegible]

BLANK .. Not examined microscopically

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

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CUMENE

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First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

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

females
(cont...)

Hemangiosarcoma

Skeletal Muscle

Hemangiosarcoma

NERVOUS SYSTEM

Brain

RESPIRATORY SYSTEM

Larynx

Lung

Alveolar/Bronchiolar Adenoma

Alveolar/Bronchiolar Adenoma, Multiple

Alveolar/Bronchiolar Carcinoma

Alveolar/Bronchiolar Carcinoma, Multiple

Hepatocellular Carcinoma, Metastatic,
Liver

Histiocytic Sarcoma

Nose

Hemangiosarcoma

* .. Total animals 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. 96011 - 06

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

Pleura

Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung

+

X

Trachea

+ +

SPECIAL SENSES SYSTEM

Eye

+ +

Harderian Gland
Carcinoma

+
X

URINARY SYSTEM

Kidney

Histiocytic Sarcoma
Lymphoma Malignant

+
X
X

Urinary Bladder

Histiocytic Sarcoma
Transitional Epithelium, Carcinoma

+
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
250 PPM | DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 5 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 3 | 3 | 9 | 8 | 3 | 3 | 3 | 0 |
| | | 2 | 2 | 2 | 1 | 3 | 3 | 7 | 3 | 2 | 2 | 3 | 1 | 2 | 5 | 2 | 2 | 1 | 2 | 2 | 4 | 7 | 2 | 1 | 1 | 9 |
| | ANIMAL ID | 0 | 0 |
| | | 0 | 0 |
| | | 5 | 5 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |
| | | females (cont...) | |

SYSTEMIC LESIONS

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

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

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

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| | | |
|-------------------------------|---|-----------------------|
| B6C3F1 MICE FEMALE
250 PPM | DAY ON TEST | 7
3
2 | 7
3
2 | 7
3
3 | 7
3
3 | 7
3
2 | 7
3
2 | 7
3
3 | 7
3
1 | 6
7
3 | 6
1
8 | 7
3
3 | 7
0
9 | 7
3
2 | 7
3
1 | 7
3
1 | 7
0
3 | 7
3
1 | 6
5
1 | 7
3
2 | 7
3
1 | 6
3
9 | 7
3
1 | 7
3
2 | 7
3
2 | 7
3
1 |
| | <hr style="border-top: 1px dotted black;"/> | |
| | ANIMAL ID | 0
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6 | 0
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7 | 0
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0 |
| | * TOTALS |

ALIMENTARY SYSTEM

| | |
|----------------------------------|----|
| Esophagus | + | 50 |
| Gallbladder | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | I | + | + | + | + | 44 |
| Lymphoma Malignant | 1 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Lymphoma Malignant | | | | | | X | | | | | | | | | | | | | | | | | | | | 1 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatoblastoma | | | | | | | | | | | X | | | | | | | | | | | | | | | 1 |
| Hepatocellular Adenoma | X | | X | X | X | | | | | X | | | | | | | X | X | X | | | | | X | | 18 |
| Hepatocellular Adenoma, Multiple | | | | | | | | | | | | | X | | | | | | | | | X | | | | 9 |
| Hepatocellular Carcinoma | X | | | | | | | | | | | | | | | | | X | | | | | | | | 4 |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

TDMS No. 96011 - 06

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| | | |
|-------------------------------|-------------|-----------------------|
| B6C3F1 MICE FEMALE
250 PPM | DAY ON TEST | 7
3
2 | 7
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3 | 6
1
8 | 7
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3 | 7
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9 | 7
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| | ANIMAL ID | 0
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| | * TOTALS | |

Hepatocellular Carcinoma, Multiple

X

2

Histiocytic Sarcoma

2

Lymphoma Malignant

X

2

Mesentery

+

+

+

+

+

11

Hemangiosarcoma

X

1

Pancreas

+

+

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Lymphoma Malignant

X

2

Salivary Glands

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Stomach, Forestomach

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Squamous Cell Papilloma

2

Stomach, Glandular

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Lymphoma Malignant

1

CARDIOVASCULAR SYSTEM

Blood Vessel

+

3

Heart

+

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50

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

| | | | |
|-------------------------------|--|-------------|-----------------------|
| B6C3F1 MICE FEMALE
250 PPM | | DAY ON TEST | 7
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9 |
| * TOTALS | | | |

ENDOCRINE SYSTEM

| | | |
|----------------------------|----|----|
| Adrenal Cortex | + | 50 | |
| Histiocytic Sarcoma | 1 | |
| Adrenal Medulla | + | 50 | |
| Pheochromocytoma Malignant | | | | | | | | | | X | | | | X | | | | | | | | | | | 2 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Carcinoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | |
| Parathyroid Gland | + | + | M | M | + | M | M | M | M | + | + | + | + | M | + | + | M | + | M | M | M | M | + | M | M | 22 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Pars Distalis, Adenoma | | | | X | X | | | | | | | X | | | X | | | | | | | | | | 6 | |
| Pars Intermedia, Adenoma | | | | | | | | | | | | | | X | | | | | | | | | | | 1 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

TDMS No. 96011 - 06

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Lab: BNW

| B6C3F1 MICE FEMALE
250 PPM | DAY ON TEST | 7
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1 | * TOTALS | |
|-------------------------------|-------------|----------|--|
| | ANIMAL ID | 0
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4
9 | | |
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| | | | |
| Clitoral Gland | | + | + | + | + | + | + | + | + | M | + | + | M | + | + | + | + | M | + | + | + | + | + | + | M | 42 | |
| Ovary | | + | 50 | |
| Cystadenocarcinoma | | | | | | | | | | | | | | | | | | X | | | | | | | | 1 | |
| Histiocytic Sarcoma | | | 1 | |
| Luteoma | | | | | | | | | | | | | X | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | X | | | | | | | | | | | | | | | | | | | | 1 | |
| Uterus | | + | 50 | |
| Leiomyoma | | | 1 | |
| Lymphoma Malignant | | | | | | X | | | | | | | | | | | | | | | | | | | | 1 | |
| Polyp Stromal | | | | | | | | | | | | | | | X | | | | | | | | | | | 1 | |
| Bilateral, Polyp Stromal | | | | | X | | 1 | |
| Endometrium, Carcinoma | | | | | | | | | | | | X | | | | | | | | | | | | | | 1 | |

HEMATOPOIETIC SYSTEM

| | |
|--|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemangiosarcoma | | | | X | | | | | | | | | | | | | | | X | | | | | | 2 |
| Histiocytic Sarcoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 |
| Lymph Node | + | | | + | | | | | | | | | | | | | | | | | + | | | | 5 |
| Histiocytic Sarcoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Axillary, Hemangiosarcoma, Metastatic, | 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

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First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| | DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 |
|---------------------------|-------------|-----------------|
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 1 | 3 | 0 | 3 | 3 | 3 | 0 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 2 | 2 | 3 | 3 | 2 | 2 | 3 | 1 | 3 | 8 | 3 | 9 | 2 | 1 | 1 | 3 | 1 | 1 | 2 | 1 | 9 | 1 | 2 | 2 | 1 |
| B6C3F1 MICE FEMALE | ANIMAL ID | 0 |
| | | 0 |
| | | 5 |
| | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| 250 PPM | | |
| | | * TOTALS |

| | |
|---|----|
| Spleen | |
| Lumbar, Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Pancreatic, Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Renal, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Renal, Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Lymph Node, Bronchial | + | + | + | + | + | + | + | + | M | + | + | + | + | + | M | + | + | + | + | M | M | + | + | + | + | | 40 |
| Histiocytic Sarcoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Lymphoma Malignant | | | | X | | | | X | | | | | | | | | | | | | | | | | | | 3 |
| Lymph Node, Mandibular | + | + | + | M | + | + | M | + | M | + | + | + | + | M | + | + | M | + | + | + | + | M | + | + | + | | 38 |
| Histiocytic Sarcoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 |
| Lymphoma Malignant | | | | X | | | | X | | | | | | | | | | | | X | | | | | | | 4 |
| Lymph Node, Mediastinal | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | M | + | + | 42 |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Histiocytic Sarcoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 |
| Lymphoma Malignant | | | | X | | | | X | | | | | | | | | | | | X | | | | | | | 4 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | | 48 |
| Histiocytic Sarcoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 |
| Lymphoma Malignant | | | | X | | | | X | | | | | | X | | | | | | X | | | | | | | 5 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
x .. Lesion present
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| | | |
|-------------------------------|---|-----------------------|
| B6C3F1 MICE FEMALE
250 PPM | DAY ON TEST | 7
3
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| | ANIMAL ID | 0
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| | * TOTALS |

| | |
|---------------------|----|
| Spleen | + | 50 |
| Hemangiosarcoma | X | | | X | | | | | X | | | | | | | | | | | | | | | | | 3 |
| Histiocytic Sarcoma | | 2 |
| Lymphoma Malignant | | | X | | | X | | | | | | | X | | | | | | X | | | | | | | 5 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Histiocytic Sarcoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | X | | | | | 2 |

INTEGUMENTARY SYSTEM

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

MUSCULOSKELETAL SYSTEM

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

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+ .. Tissue examined microscopically
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Lab: BNW

| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | |
|---|-----------|----------|----|
| DAY ON TEST | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 1 | 3 | 0 | 3 | 3 | 3 | 0 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | | 2 | 2 | 3 | 3 | 2 | 2 | 3 | 1 | 3 | 8 | 3 | 9 | 2 | 1 | 1 | 3 | 1 | 1 | 2 | 1 | 9 | 1 | 2 | 1 | |
| B6C3F1 MICE FEMALE
250 PPM | ANIMAL ID | 0 | 0 | |
| | | 0 | 0 | |
| | | 5 | 5 | |
| | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | | * TOTALS | |
| Hemangiosarcoma | | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Skeletal Muscle |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Hemangiosarcoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| NERVOUS SYSTEM | | | |
| Brain |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| RESPIRATORY SYSTEM | | | |
| Larynx |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lung |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Alveolar/Bronchiolar Adenoma | | | | | X | X | | | | | | | X | | | | X | | | X | | | | X | | 16 |
| Alveolar/Bronchiolar Adenoma, Multiple | | | X | | | | X | X | X | | X | X | | X | | | | | | X | | X | | | | 20 |
| Alveolar/Bronchiolar Carcinoma | | X | X | | | | | X | X | | X | | | X | | | | | | | | | | | | 13 |
| Alveolar/Bronchiolar Carcinoma, Multiple | | | | | X | | | | | | | | X | | X | | | | | | | | | X | | 7 |
| Hepatocellular Carcinoma, Metastatic, Liver | | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 |
| Histiocytic Sarcoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 |
| Nose |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemangiosarcoma | | | | | 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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| | | | |
|-------------------------------|---|-----------------------|--|
| B6C3F1 MICE FEMALE
250 PPM | DAY ON TEST | 7
3
2 | 7
3
2 | 7
3
3 | 7
3
3 | 7
3
2 | 7
3
2 | 7
3
3 | 6
7
1 | 6
1
8 | 7
3
3 | 7
0
9 | 7
3
2 | 7
3
1 | 7
3
1 | 7
0
3 | 7
3
1 | 6
5
1 | 7
3
2 | 7
3
1 | 6
3
9 | 7
3
1 | 7
3
2 | 7
3
2 | 7
3
1 | |
| | <hr style="border-top: 1px dotted black;"/> | | |
| | ANIMAL ID | 0
0
5
2
6 | 0
0
5
2
7 | 0
0
5
2
8 | 0
0
5
2
9 | 0
0
5
3
0 | 0
0
5
3
1 | 0
0
5
3
2 | 0
0
5
3
3 | 0
0
5
3
4 | 0
0
5
3
5 | 0
0
5
3
6 | 0
0
5
3
7 | 0
0
5
3
8 | 0
0
5
3
9 | 0
0
5
4
0 | 0
0
5
4
1 | 0
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5
4
2 | 0
0
5
4
3 | 0
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4
4 | 0
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5
4
5 | 0
0
5
4
6 | 0
0
5
4
7 | 0
0
5
4
8 | 0
0
5
4
9 | |
| | * TOTALS | |

Pleura 1

Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung 1

Trachea + 50

SPECIAL SENSES SYSTEM

Eye + 50

Harderian Gland
Carcinoma + 50
1

URINARY SYSTEM

Kidney + 50

Histiocytic Sarcoma 2

Lymphoma Malignant 1

Urinary Bladder + + + + + + + | + + + + + + + + + + + + + 49

Histiocytic Sarcoma 1

Transitional Epithelium, Carcinoma X 1

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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

SYSTEMIC LESIONS

| | |
|---------------------|----|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Histiocytic Sarcoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 |
| Lymphoma Malignant | | | X | | | X | | | | | | X | | | | | | | X | X | | | | | 6 |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

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

females
(cont...)

ALIMENTARY SYSTEM

| |
|---------------------------|
| Esophagus | + |
| Squamous Cell Carcinoma | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Gallbladder | M | + | I | + | M | + | + | + | + | + | + | + | + | M | + | + | + | + | M | M | + | + | A | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |
| Lymphoma Malignant |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |
| Lymphoma Malignant |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |
| Lymphoma Malignant |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |
| Lymphoma Malignant |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |
| Lymphoma Malignant |
| Liver | + |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

TDMS No. 96011 - 06

Test Type: CHRONIC

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Species/Strain: MICE/B6C3F1

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Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| | | DAY ON TEST | | |
|----------------------------------|--|----------------------|--|
| | | 7
3
1 | 5
1
3 | 7
3
3 | 7
3
1 | 7
3
1 | 7
3
1 | 7
3
2 | 7
3
1 | 7
3
2 | 7
3
1 | 7
3
2 | 7
3
2 | 7
3
3 | 6
7
3 | 7
3
3 | 7
2
6 | 7
3
1 | 7
3
2 | 7
3
3 | 7
3
2 | 7
1
8 | 6
7
9 | 7
3
2 | 7
3
2 | | | |
| B6C3F1 MICE FEMALE
500 PPM | | ANIMAL ID | | |
| | | 0
0
7
0
1 | 0
0
7
0
2 | 0
0
7
0
3 | 0
0
7
0
4 | 0
0
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7 | 0
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9 | 0
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1 | 0
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3 | 0
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4 | 0
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7
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5 | 0
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7
1
6 | 0
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7
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7 | 0
0
7
1
8 | 0
0
7
1
9 | 0
0
7
2
0 | 0
0
7
2
1 | 0
0
7
2
2 | 0
0
7
2
3 | 0
0
7
2
4 | 0
0
7
2
5 | females
(cont...) | |
| Hepatocellular Adenoma | | | | X | | | | X | X | | X | | | | X | | | | | | | | X | | | | | |
| Hepatocellular Adenoma, Multiple | | | | | X | | | | | | | X | | | | | | | X | | | X | | | X | | | |
| Hepatocellular Carcinoma | | | | X | | X | X | | | X | X | | | X | | | | | X | | | | | | | | | |
| Ito Cell Tumor Benign | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | X | | | | | | | | | | | | X | | | | | | |
| Mesentery | | | | | | | | | | + | | + | | | | | | | | | | + | | | | | | |
| Pancreas | | + | | | |
| Lymphoma Malignant | | | | | X | | |
| Salivary Glands | | + | | | |
| Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | | | | |
| Stomach, Forestomach | | + | | | |
| Lymphoma Malignant | | | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | X | | | | | | | | | |
| Stomach, Glandular | | + | | | |
| Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A | + | + | | | | |

CARDIOVASCULAR SYSTEM

Blood Vessel

+

* .. Total animals with tissue examined microscopically; 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. 96011 - 06

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Species/Strain: MICE/B6C3F1

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First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

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

females
(cont...)

| | |
|---|---|
| Heart | + |
| Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung | |
| Carcinoma, Metastatic, Uncertain
Primary Site |
| Lymphoma Malignant |

ENDOCRINE SYSTEM

| |
|----------------------------------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |
| Pheochromocytoma Malignant |
| Islets, Pancreatic | + |
| Carcinoma |
| Parathyroid Gland | M | M | + | + | + | M | + | M | + | M | + | + | M | + | M | + | + | M | M | + | + | M | + | + | M |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |
| Pars Distalis, Adenoma | | | | | | X | X | | | | | | X | | X | | | | | | | | | X | |
| Thyroid Gland | + |
| Carcinoma, Metastatic, Uncertain | |

* .. Total animals with tissue examined microscopically; 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
500 PPM | DAY ON TEST | 7
3
1 | 5
1
3 | 7
3
3 | 7
3
1 | 7
3
1 | 7
3
1 | 7
3
2 | 7
3
1 | 7
3
2 | 7
3
1 | 7
3
2 | 7
3
2 | 7
3
3 | 6
7
3 | 7
3
6 | 7
2
1 | 7
3
2 | 7
3
3 | 7
3
2 | 7
1
8 | 6
7
9 | 7
3
2 | 7
3
2 | females
(cont...) |
| | ANIMAL ID | 0
0
7
0
1 | 0
0
7
0
2 | 0
0
7
0
3 | 0
0
7
0
4 | 0
0
7
0
5 | 0
0
7
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6 | 0
0
7
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7 | 0
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7
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8 | 0
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7
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9 | 0
0
7
1
0 | 0
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7
1
1 | 0
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7
1
2 | 0
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7
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3 | 0
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7
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4 | 0
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7
1
5 | 0
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1
6 | 0
0
7
1
7 | 0
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7
1
8 | 0
0
7
2
9 | 0
0
7
2
0 | 0
0
7
2
1 | 0
0
7
2
2 | 0
0
7
2
3 | |
| | | |
| | | |
| | | |

Primary Site

Lymphoma Malignant

Follicular Cell, Adenoma

X

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| |
|----------------------------------|
| Clitoral Gland | M | + | + | + | M | + | + | + | + | I | + | + | + | + | M | + | + | + | + | M | + | + | + | M | + |
| Ovary | + |
| Carcinoma, Metastatic, Uncertain | |
| Primary Site |
| Cystadenoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | | | | |
| Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | | |
| Uterus | + |
| Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | |
| Polyp Stromal | | | | | | | | | | | | | | | X | X | | | | | | | | | |

HEMATOPOIETIC SYSTEM

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

* .. Total animals with tissue examined microscopically; 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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

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CUMENE

CAS Number: 98-82-8

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First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| | | B6C3F1 MICE FEMALE | | females
(cont...) |
|-------------|-----------|--------------------|----------------------|
| | | 500 PPM | |
| DAY ON TEST | ANIMAL ID | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | | | |
| | | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 0 | 3 | 3 | 3 | 7 | 3 | 2 | 3 | 3 | 3 | 3 | 1 | 7 | 3 | 3 | | |
| | | 1 | 3 | 3 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 3 | 7 | 3 | 6 | 1 | 2 | 3 | 2 | 8 | 9 | 2 | 2 | |
| | | | |
| | | 0 | 0 | | |
| | | 0 | 0 | | |
| | | 7 | 7 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | | |

females
(cont...)

Lymphoma Malignant

Lymph Node

Lymphoma Malignant

Lumbar, Lymphoma Malignant

Pancreatic, Lymphoma Malignant

Renal, Lymphoma Malignant

Lymph Node, Bronchial

Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung

Lymphoma Malignant

Lymph Node, Mandibular

Lymphoma Malignant

Lymph Node, Mediastinal

Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung

Lymphoma Malignant

Lymph Node, Mesenteric

Carcinoma, Metastatic, Uncertain
Primary Site

Lymphoma Malignant

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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

females
(cont...)

| | |
|---|---|
| Spleen | + |
| Hemangiosarcoma |
| Lymphoma Malignant | | | | X | | | | X | | | | | | | | | X | | | | | X | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung | | | X | |
| Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | | |

INTEGUMENTARY SYSTEM

| |
|---------------------------------|
| Mammary Gland | + |
| Fibroadenoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |
| Skin | + |
| Subcutaneous Tissue, Hemangioma | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Sarcoma |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

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CUMENE

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Lab: BNW

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

| | |
|---|---|
| Brain | + |
| Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung | |

RESPIRATORY SYSTEM

| | |
|--|---|
| Larynx | + |
| Squamous Cell Papilloma | | | | X | |
| Lung | + |
| Alveolar/Bronchiolar Adenoma | X | | | | | | | | | | | | | | | | | X | | | | | | X | X |
| Alveolar/Bronchiolar Adenoma, Multiple | | | | X | X | X | X | | X | X | X | X | | X | X | X | | | | X | X | | | | |
| Alveolar/Bronchiolar Carcinoma | X | X | X | | | | | | | | | | | X | X | | | X | | | | | | X | X |
| Alveolar/Bronchiolar Carcinoma, Multiple | | | | X | X | X | | X | | X | X | | | | | X | | | X | X | | X | | | |
| Carcinoma, Metastatic, Uncertain
Primary Site |
| Hepatocellular Carcinoma, Metastatic,
Liver | | | | X | | | X | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | X | | | X | | X | | | | | | | | | | | | | | X | | |
| Mediastinum, Alveolar/Bronchiolar
Carcinoma, Metastatic, Lung | | X | |
| Nose | + |
| Hemangioma | |

* .. Total animals with tissue examined microscopically; 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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

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

Lymphoma Malignant

Pleura

+

Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung

x

Carcinoma, Metastatic, Uncertain
Primary Site

Trachea

+ +

SPECIAL SENSES SYSTEM

Eye

+ A + +

Lymphoma Malignant

Harderian Gland

+ +

Adenoma

x

Carcinoma

x x

Lymphoma Malignant

URINARY SYSTEM

Kidney

+ +

Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| | | |
|-------------------------------|-------------|-----------------------|
| B6C3F1 MICE FEMALE
500 PPM | DAY ON TEST | 7
3
2 | 7
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| * TOTALS | | |

ALIMENTARY SYSTEM

| | |
|---------------------------|----|
| Esophagus | + | 50 |
| Squamous Cell Carcinoma | 1 |
| Gallbladder | + | + | + | + | + | + | + | + | A | + | + | + | + | I | I | A | A | + | + | + | M | + | + | + | + | 37 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 47 |
| Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | | | | | 1 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 48 |
| Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | | | | | 1 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 48 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 48 |
| Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | | | | | 1 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 47 |
| Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | | | | | 1 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 47 |
| Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | | | | | 1 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqsted: 02/27/2006

Time Report Reqsted: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 6 |
|----------------------------------|-----------|----------|----|
| DAY ON TEST | | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 9 | 0 | 3 | 3 | 3 | 7 | 3 | 3 | 3 | 1 | 6 | 3 | 3 | 8 |
| | | 2 | 1 | 3 | 3 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 3 | 1 | 2 | 2 | 1 | 2 | 8 | 5 | 1 | 2 | 7 |
| | | | |
| B6C3F1 MICE FEMALE
500 PPM | ANIMAL ID | 0 | 0 |
| | | 0 | 0 |
|  |  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | | * TOTALS | |
| Hepatocellular Adenoma | | | X | X | X | | | | X | | | | X | X | X | | X | X | X | | X | X | | X | | 19 |
| Hepatocellular Adenoma, Multiple | | X | | | | | X | | | X | X | | | | | | | | | | | | | | X | 10 |
| Hepatocellular Carcinoma | | | | | | X | | | | | | X | | X | X | | | | | | | | | X | | 12 |
| Ito Cell Tumor Benign |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Lymphoma Malignant | | | | | | X | | | | | | | | | | | | | | | | X | | | | 4 |
| Mesentery | | | | + | | | + | | + | | | + | | | | | | + | | | | | | | + | 9 |
| Pancreas |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | | | | 2 |
| Salivary Glands |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | | | | 2 |
| Stomach, Forestomach |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | | | | 1 |
| Squamous Cell Papilloma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | | 2 |
| Stomach, Glandular |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | | | | 1 |

CARDIOVASCULAR SYSTEM

| | | |
|--------------|---|---|
| Blood Vessel | + | 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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| | | | |
|-------------------------------|---|-----------------------|-------------|
| B6C3F1 MICE FEMALE
500 PPM | DAY ON TEST | 7
3
2 | 7
0
1 | 7
3
3 | 7
3
3 | 7
3
1 | 7
3
1 | 7
3
2 | 7
3
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2 | 7
3
1 | 7
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2 | 7
1
8 | 5
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7 |
| | <hr style="border-top: 1px dotted black;"/> | | |
| | ANIMAL ID | 0
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9 | |
| | * TOTALS | |

| | |
|---|----|
| Heart | + | 50 |
| Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung | | 1 |
| Carcinoma, Metastatic, Uncertain
Primary Site | | | | | | | | | | | | | | | | X | | | | | | | | | | 1 |
| Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | | | | 1 |

ENDOCRINE SYSTEM

| | |
|----------------------------------|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Pheochromocytoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Carcinoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | | 1 |
| Parathyroid Gland | + | + | + | + | M | + | + | M | + | M | + | + | + | + | + | + | + | M | M | M | I | M | + | M | I | 29 |
| Pituitary Gland | + | + | + | X | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Pars Distalis, Adenoma | | | | X | | | | | | | X | | X | X | | | | | | | X | | | | | 10 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Carcinoma, Metastatic, Uncertain | | | | | | | | | | | | | | | | X | | | | | | | | | | 1 |

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

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

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

| | |
|--------------------------|---|
| Primary Site | |
| Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Follicular Cell, Adenoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 3 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | |
|----------------------------------|----|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | M | + | + | + | + | 42 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Carcinoma, Metastatic, Uncertain |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Primary Site | |
| Cystadenoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 3 |
| Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 3 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 |
| Polyp Stromal |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 |

HEMATOPOIETIC SYSTEM

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

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| | | * TOTALS | | | | |
|---|-------------|-----------------------|---|----|----|
| B6C3F1 MICE FEMALE
500 PPM | DAY ON TEST | 7
3
2 | 7
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3 | 7
3
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| | ANIMAL ID | 0
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| Lymphoma Malignant | | | X | | | | 1 | | |
| Lymph Node | | | | | | + | | | | | | | | | | | | | | | | | | | + | | 5 | | |
| Lymphoma Malignant | | | 1 | | |
| Lumbar, Lymphoma Malignant | | | 3 | | |
| Pancreatic, Lymphoma Malignant | | | 1 | | |
| Renal, Lymphoma Malignant | | | X | | 3 | | |
| Lymph Node, Bronchial | | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | 46 | |
| Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung | | | | | | | | | | | | | | | | | | X | | | | | | | | | 1 | | |
| Lymphoma Malignant | | | | X | | | | | | | | | | | | | | | | | | | | X | | | 6 | | |
| Lymph Node, Mandibular | | M | + | M | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | M | M | M | + | + | + | 42 |
| Lymphoma Malignant | | | | X | | 5 | | |
| Lymph Node, Mediastinal | | M | + | M | M | + | + | M | + | + | M | + | + | + | + | + | + | + | + | + | + | M | + | + | M | + | + | 40 | |
| Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung | | | 2 | | |
| Lymphoma Malignant | | | | X | | | | | | | | | | | | | | | | | | | | X | | | 5 | | |
| Lymph Node, Mesenteric | | + | + | I | + | 48 | |
| Carcinoma, Metastatic, Uncertain
Primary Site | | | | | | | | | | | | | | | | | | X | | | | | | | | | 1 | | |
| Lymphoma Malignant | | | | X | | | | | | | | | | | | | | | | | | | | X | | | 7 | | |

* .. Total animals with tissue examined microscopically; 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
500 PPM | DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 6 |
| | | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 9 | 0 | 3 | 3 | 3 | 7 | 3 | 3 | 3 | 1 | 6 | 3 | 3 | 8 |
| | | 2 | 1 | 3 | 3 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 3 | 1 | 2 | 2 | 1 | 2 | 8 | 5 | 1 | 2 | 7 |
| | ANIMAL ID | 0 | 0 |
| | | 0 | 0 |
| | | 7 | 7 |
| | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | | * TOTALS | |

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|--|----|
| Spleen | + | 50 |
| Hemangiosarcoma | | | | | | | | | X | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | X | | | X | X | | | | 7 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | 48 |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung | | 1 |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | X | | | | | 3 |

INTEGUMENTARY SYSTEM

| | |
|---------------------------------|----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Fibroadenoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Subcutaneous Tissue, Hemangioma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Subcutaneous Tissue, Sarcoma | | | | | | | | | | X | | | | | | X | | | | | | | | | | 2 |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

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|-------------------------------|-------------|-------------|
| B6C3F1 MICE FEMALE
500 PPM | DAY ON TEST | 7
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| | ANIMAL ID | 0
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| Brain | + | 50 |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung | | X | | 1 |

RESPIRATORY SYSTEM

| | |
|---|----|
| Larynx | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Squamous Cell Papilloma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Alveolar/Bronchiolar Adenoma | | | | | X | | | | | | | | X | | | | | | X | X | | | | | | 8 |
| Alveolar/Bronchiolar Adenoma, Multiple | X | | X | X | | X | X | X | X | X | | X | | | X | X | X | X | | | X | X | X | | | 30 |
| Alveolar/Bronchiolar Carcinoma | X | | | | X | | | | | | | | | | X | X | | | | | X | | | X | X | 15 |
| Alveolar/Bronchiolar Carcinoma, Multiple | | X | | X | | | | X | X | | X | X | X | | | | | | | X | X | | | | | 19 |
| Carcinoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | X | | | | | | | | | 1 |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | X | | | | | | | | | | | | | | | 3 |
| Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | | | | 5 |
| Mediastinum, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemangioma | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |

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

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

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

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Lab: BNW

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|-------------------------------|---|-----------------------|-------------|
| B6C3F1 MICE FEMALE
500 PPM | DAY ON TEST | 7
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| * TOTALS | | | |

Lymphoma Malignant

X

1

Pleura

+

2

Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung

1

Carcinoma, Metastatic, Uncertain
Primary Site

X

1

Trachea

+

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SPECIAL SENSES SYSTEM

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Lymphoma Malignant

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Adenoma

X

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Carcinoma

X

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Lymphoma Malignant

X

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URINARY SYSTEM

Kidney

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Alveolar/Bronchiolar Carcinoma,
Metastatic, Lung

X

1

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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

| | | |
|--|-----|----|
| Carcinoma, Metastatic, Uncertain
Primary Site | X | 1 |
| Lymphoma Malignant | X X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 4 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Lymphoma Malignant | X X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 3 |

SYSTEMIC LESIONS

| | | |
|--------------------|-----------|----|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant | X X X X X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 12 |

*** 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