

Experiment Number: 10987 - 01
Test Type: Chronic PN
Route: DOSED FEED
Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Dibutyl Phthalate
CAS Number: 84-74-2

Date Report Requested: 08/20/2019
Time Report Requested: 12:03:41
First Dose M/F: 08/30/10 / 08/31/10
Lab: BAT

NTP Study Number: C10987
Lock Date: 01/15/2015
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.3_002
PWG Approval Date: NONE

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HARLAN SPRAGUE DAWLEY RATS MALE 0 ppm	DAY ON TEST																											males (cont....)
	0 7 3 0	0 7 3 0	0 7 0 1	0 5 0 6	0 6 0 3	0 6 1 1	0 7 0 1	0 1 6 9	0 6 0 3	0 7 3 0	0 3 7 5	0 7 6 9	0 6 2 9	0 7 2 2	0 7 1 6	0 7 2 9	0 7 2 9	0 7 2 9	0 7 3 0	0 7 3 0	0 7 3 0	0 6 6 1	0 6 5 4	0 6 3 1				
	0 0 0 0 0	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 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 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				
	1	2	3	4	5	6	7	8	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6			

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hepatocellular Carcinoma																										
Lymphoma Malignant																										
Oral Mucosa																										
Pharyngeal, Squamous Cell Carcinoma																										
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymphoma Malignant																										
Acinus, Adenoma																										
Acinus, Adenoma, Multiple																										
Acinus, Carcinoma																										
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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HARLAN SPRAGUE DAWLEY RATS MALE 0 ppm		DAY ON TEST																												males (cont...)
		ANIMAL ID																												
		0 7 3 0	0 7 3 0	0 7 0 1	0 5 0 6	0 6 0 3	0 6 1 1	0 7 0 1	0 1 6 9	0 6 0 3	0 7 3 0	0 3 7 5	0 7 2 9	0 6 8 6	0 7 2 9	0 7 1 6	0 7 2 9	0 7 2 2	0 7 2 9	0 7 3 0	0 7 3 0	0 6 3 0	0 6 6 1	0 6 5 4	0 6 3 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 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	0 0 0 0 6					

Stomach, Forestomach
Lymphoma Malignant

+ +

Stomach, Glandular
Lymphoma Malignant

+ +

CARDIOVASCULAR SYSTEM

Blood Vessel

+ +

Heart
Endocardium, Schwannoma Malignant
Myocardium, Schwannoma Malignant+
X

ENDOCRINE SYSTEM

Adrenal Cortex

+ +

Adrenal Medulla
Pheochromocytoma Benign
Pheochromocytoma Malignant+
X X XIslets, Pancreatic
Adenoma+
X X X

Parathyroid Gland

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

Pituitary Gland
Lymphoma Malignant

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

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X .. Lesion present
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Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
0 ppm | DAY ON TEST | | 0 | males
(cont...) |
|--|-------------|--|--------------------|
| | ANIMAL ID | | 7 | 7 | 7 | 5 | 6 | 6 | 7 | 1 | 6 | 7 | 3 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | |
| | | | 3 | 3 | 0 | 0 | 0 | 1 | 0 | 6 | 0 | 3 | 7 | 2 | 8 | 2 | 2 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 6 | 5 | 3 | |
| | | | 0 | 0 | 1 | 6 | 3 | 1 | 1 | 9 | 3 | 0 | 5 | 9 | 6 | 9 | 2 | 6 | 9 | 9 | 9 | 0 | 0 | 0 | 1 | 4 | 1 | |
| | | | 0 | |
| | | | 0 | |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | |
| Schwannoma Malignant, Metastatic, Peripheral Nerve | | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| Pars Distalis, Adenoma | | | X | | | | | | | | X | | | | X | X | | | X | | | X | | | X | | | |
| Thyroid Gland | | | + | |
| Lymphoma Malignant | | | |
| Bilateral, C-cell, Adenoma | | | |
| C-cell, Adenoma | | | | | | X | | X | | | | | | X | | | | | | | X | | | | | | | |
| C-cell, Carcinoma | | | |
| Follicular Cell, Adenoma | | | X | | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | |
|-------------------------------|--|
| Epididymis | + | |
| Mesothelioma Malignant | |
| Preputial Gland | + | |
| Adenoma | |
| Lymphoma Malignant | |
| Duct, Squamous Cell Carcinoma | |
| Prostate | + | |
| Lymphoma Malignant | |
| Ventral, Adenoma | |
| Seminal Vesicle | + | |

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

+ .. Tissue examined microscopically

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I .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

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Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
0 ppm | DAY ON TEST | 0
7
3
0 | 0
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9 | 0
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3 | 0
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5 | 0
7
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9 | 0
6
8
6 | 0
7
2
9 | 0
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2 | 0
7
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6 | 0
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9 | 0
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9 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
6
6
1 | 0
6
5
4 | 0
7
3
1 | males
(cont...) |
|--|-------------|--------------------|
| | ANIMAL ID | 0
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| Testis | | + | |
| Bilateral, Mesothelioma Malignant | | |
| Interstitial Cell, Adenoma | | | X |
| HEMATOPOIETIC SYSTEM | | |
| Bone Marrow | | + | |
| Lymphoma Malignant | | |
| Lymph Node | | | | + | |
| Bronchial, Lymphoma Malignant | | |
| Bronchial, Neuroendocrine Tumor, Malignant, Metastatic, Uncertain Primary Site | | |
| Mediastinal, Lymphoma Malignant | | |
| Renal, Lymphoma Malignant | | |
| Lymph Node, Mandibular | | + | |
| Lymphoma Malignant | | |
| Lymph Node, Mesenteric | | + | |
| Lymphoma Malignant | | |
| Spleen | | + | |
| Lymphoma Malignant | | |
| Thymus | | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | |

INTEGUMENTARY SYSTEM

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

+ .. Tissue examined microscopically

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M .. Missing tissue

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| HARLAN SPRAGUE DAWLEY RATS
MALE
0 ppm | DAY ON TEST | 0
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3
0 | 0
7
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(cont...) | |
|---|---|----------------------------|--------------------|----------------------------|
| | ANIMAL ID | 0
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6 |
| | Mammary Gland
Fibroadenoma | + | | + |
| | Skin
Basal Cell Adenoma
Fibroma
Keratoacanthoma
Pilomatrixoma
Subcutaneous Tissue, Fibroma
Subcutaneous Tissue, Fibrosarcoma
Subcutaneous Tissue, Lymphoma Malignant | + | | + |
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* .. Total animals with tissue examined microscopically; Total animals with tumor

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| HARLAN SPRAGUE DAWLEY RATS
MALE
0 ppm | DAY ON TEST | | | | males
(cont....) |
|---|-----------------------|--|--|---------------------|
| | 0
7
3
0 | 0
7
3
0 | 0
7
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1 | 0
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6 | 0
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1 | 0
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9 | 0
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3 | 0
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4 | 0
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5 | 0
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0
6 | | | |
| | ANIMAL ID | | | | |

Lymphoma Malignant
Pheochromocytoma Malignant, Metastatic,
Adrenal Medulla

Nose

+ +

Trachea

+ +

SPECIAL SENSES SYSTEM

Eye

Lymphoma Malignant

+ +

Harderian Gland

+ +

Zymbal's Gland
Carcinoma

URINARY SYSTEM

Kidney

Lymphoma Malignant

Renal Tubule, Adenoma

+ +

Urinary Bladder

+ +

SYSTEMIC LESIONS

Multiple Organ

Lymphoma Malignant

Mesothelioma Malignant

+ +

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+ .. Tissue examined microscopically

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| HARLAN SPRAGUE DAWLEY RATS
MALE
0 ppm | DAY ON TEST | 0
7
2
9 | 0
7
2
9 | 0
7
3
1 | 0
7
3
1 | 0
5
9
8 | 0
7
2
9 | 0
5
9
2 | 0
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4 | 0
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3
1 | 0
6
7
4 | 0
7
3
0 | 0
7
3
0 | 0
7
3
1 | 0
5
6
0 | * TOTALS | | |
|---|-------------|----------|-----------------------|--|
| | ANIMAL ID | 0
0
0
2
7 | 0
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2
8 | 0
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6 | 0
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4
7 | 0
0
0
4
8 | 0
0
0
4
9 | | 0
0
0
5
0 | |
| | | | | |
| Stomach, Forestomach
Lymphoma Malignant | | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | 49
1 | |
| Stomach, Glandular
Lymphoma Malignant | | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | 49
1 | |
| CARDIOVASCULAR SYSTEM | | | | |
| Blood Vessel | | + | 49 | |
| Heart | | + | 49 | |
| Endocardium, Schwannoma Malignant | | | | | | | | | X | | | | | | | | | | | | | | | | | 1 | |
| Myocardium, Schwannoma Malignant | | | 1 | |
| ENDOCRINE SYSTEM | | | | |
| Adrenal Cortex | | + | 49 | |
| Adrenal Medulla | | + | 49 | |
| Pheochromocytoma Benign | | | X | | | | | | | X | | | | | | | | | | | X | | | | | 7 | |
| Pheochromocytoma Malignant | | | | | | | | | | | | | | | | | | X | | | | | | | | 1 | |
| Islets, Pancreatic | | + | 49 | |
| Adenoma | | | | | | X | | | | | | | | | | | | | | | | | | | | 4 | |
| Parathyroid Gland | | + | 48 | |
| Pituitary Gland | | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| 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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
0 ppm | DAY ON TEST | 0729 | 0729 | 0731 | 0731 | 0578 | 0779 | 0572 | 0694 | 0775 | 0770 | 0670 | 0770 | 0490 | 0676 | 0771 | 0771 | 0779 | 0779 | 0771 | 0674 | 0770 | 0773 | 0770 | 0771 | 0576 | |
|---|-------------|--|
| | ANIMAL ID | 00027 | 00088 | 00099 | 00000 | 00001 | 00002 | 00003 | 00004 | 00005 | 00006 | 00007 | 00008 | 00009 | 00010 | 00011 | 00012 | 00013 | 00014 | 00015 | 00016 | 00017 | 00018 | 00019 | 00020 | 00021 | |
| | | 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 | | |
| Schwannoma Malignant, Metastatic, Peripheral Nerve | | |
| 1 | | |
| Pars Distalis, Adenoma | | |
| X | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | |
|-------------------------------|----|
| Epididymis | + | 49 |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | X | | | | | | | 1 |
| Preputial Gland | + | 49 |
| Adenoma | | | | | | X | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | | 1 |
| Duct, Squamous Cell Carcinoma | | | | | | | | | | X | | | | | | | | | | | | | | | 1 |
| Prostate | + | 49 |
| Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | | 1 |
| Ventral, Adenoma | | | | | | | | | | | | | | | X | | | | | | | | | | 1 |
| Seminal Vesicle | + | 49 |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
0 ppm | DAY ON TEST | |
|--|-------------|----------|
| | 0729 | 0729 | 0731 | 0731 | 0598 | 0729 | 0592 | 0694 | 0725 | 0730 | 0760 | 0733 | 0409 | 0676 | 0731 | 0731 | 0729 | 0729 | 0731 | 0674 | 0730 | 0730 | 0731 | 0560 | |
| ANIMAL ID | 00027 | 00028 | 00029 | 00030 | 00031 | 00032 | 00033 | 00034 | 00035 | 00036 | 00037 | 00038 | 00039 | 00040 | 00041 | 00042 | 00043 | 00044 | 00045 | 00046 | 00047 | 00048 | 00049 | 00050 | * TOTALS |
| Testis | + | + | 49 |
| Bilateral, Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | X | | | | | 1 |
| Interstitial Cell, Adenoma | | | X | | 2 |
| HEMATOPOIETIC SYSTEM | | |
| Bone Marrow | + | + | 49 |
| Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | | 1 |
| Lymph Node | | | | | | | | | | | | | | + | + | | + | | | | | + | | | 5 |
| Bronchial, Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | | 1 |
| Bronchial, Neuroendocrine Tumor, Malignant, Metastatic, Uncertain Primary Site | | X | | | | 1 |
| Mediastinal, Lymphoma Malignant | | | | | | | | | | | | | | X | | | | | | | | | | | 1 |
| Renal, Lymphoma Malignant | | | | | | | | | | | | | | X | | | | | | | | | | | 1 |
| Lymph Node, Mandibular | + | + | 49 |
| Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | | 1 |
| Lymph Node, Mesenteric | + | + | 49 |
| Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | | 1 |
| Spleen | + | + | 49 |
| Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | | 1 |
| Thymus | + | + | 48 |
| Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | | 1 |

INTEGUMENTARY SYSTEM

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

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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
0 ppm | DAY ON TEST | 0
7
2
9 | 0
7
2
9 | 0
7
3
1 | 0
7
3
1 | 0
5
9
8 | 0
7
2
9 | 0
5
9
2 | 0
6
9
4 | 0
7
2
5 | 0
7
3
0 | 0
6
3
0 | 0
7
3
0 | 0
4
0
9 | 0
6
7
6 | 0
7
3
1 | 0
7
3
1 | 0
7
2
9 | 0
7
2
9 | 0
7
3
1 | 0
6
7
4 | 0
7
3
0 | 0
7
3
0 | 0
7
3
1 | 0
5
6
0 | * TOTALS | |
|---|-------------|----------|--|
| | ANIMAL ID | 0
0
0
2
7 | 0
0
0
2
8 | 0
0
0
2
9 | 0
0
0
3
0 | 0
0
0
3
1 | 0
0
0
3
2 | 0
0
0
3
3 | 0
0
0
3
4 | 0
0
0
3
5 | 0
0
0
3
6 | 0
0
0
3
7 | 0
0
0
3
8 | 0
0
0
3
9 | 0
0
0
4
0 | 0
0
0
4
1 | 0
0
0
4
2 | 0
0
0
4
3 | 0
0
0
4
4 | 0
0
0
4
5 | 0
0
0
4
6 | 0
0
0
4
7 | 0
0
0
4
8 | 0
0
0
4
9 | 0
0
0
5
0 | | |
| | | | |
| Mammary Gland
Fibroadenoma | | + | 49
1 | |
| Skin | | + | 49 | |
| Basal Cell Adenoma | | | | | | | | | | | | | | | | X | | | | | | | | | | 1 | |
| Fibroma | | | | | | | | | | | | | | | | | | | X | | | | | | | 1 | |
| Keratoacanthoma | | | | X | X | | | | | | | | | | | | | | | | X | | | | | 8 | |
| Pilomatrixoma | | | X | | | 3 | |
| Subcutaneous Tissue, Fibroma | | | 2 | |
| Subcutaneous Tissue, Fibrosarcoma | | | 1 | |
| Subcutaneous Tissue, Lymphoma Malignant | | | | | | | | | | | | | | X | | | | | | | | | | | | 1 | |
| MUSCULOSKELETAL SYSTEM | | | |
| Bone | | + | 49 | |
| NERVOUS SYSTEM | | | |
| Brain | | + | 49 | |
| Glioma Malignant | | | 2 | |
| Meningioma Benign | | | | | | | | | | | | | | | | | | | | | X | | | | | 1 | |
| Peripheral Nerve | | | + | | 2 | |
| Paraganglioma | | | X | | 1 | |
| Trigeminal, Schwannoma Malignant | | | 1 | |
| RESPIRATORY SYSTEM | | | |
| Lung | | + | 49 | |
| Alveolar/Bronchiolar Adenoma | | X | | 1 | |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

Test Type: Chronic PN

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P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

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Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
0 ppm | DAY ON TEST | 0
7
2
9 | 0
7
2
9 | 0
7
3
1 | 0
7
3
1 | 0
5
9
8 | 0
7
2
9 | 0
5
9
2 | 0
6
9
4 | 0
7
2
5 | 0
7
3
0 | 0
6
3
0 | 0
7
3
0 | 0
4
0
9 | 0
6
7
6 | 0
7
3
1 | 0
7
3
1 | 0
7
2
9 | 0
7
2
9 | 0
7
3
1 | 0
6
7
4 | 0
7
3
0 | 0
7
3
0 | 0
7
3
1 | 0
5
6
0 | * TOTALS | | |
|---|---|-----------------------|----------|---|----|
| | ANIMAL ID | 0
0
0
2
7 | 0
0
0
2
8 | 0
0
0
2
9 | 0
0
0
3
0 | 0
0
0
3
1 | 0
0
0
3
2 | 0
0
0
3
3 | 0
0
0
3
4 | 0
0
0
3
5 | 0
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0
3
6 | 0
0
0
3
7 | 0
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0
3
8 | 0
0
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3
9 | 0
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4
0 | 0
0
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4
1 | 0
0
0
4
2 | 0
0
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4
3 | 0
0
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4
4 | 0
0
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4
5 | 0
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4
6 | 0
0
0
4
7 | 0
0
0
4
8 | 0
0
0
4
9 | 0
0
0
5
0 | | | |
| | Lymphoma Malignant | | | | | | | | | | | | | | X | | | | | | | | | | | | 1 | |
| | Pheochromocytoma Malignant, Metastatic, Adrenal Medulla | | | | | | | | | | | | | | | | | | X | | | | | | | | | 1 |
| | Nose | + | | + | 49 |
| Trachea | + | + | 49 | | |
| SPECIAL SENSES SYSTEM | | | | | |
| Eye | + | + | 49 | | |
| Lymphoma Malignant | | | | | | | | | | | | | | X | | | | | | | | | | | | 1 | | |
| Harderian Gland | + | + | 49 | | |
| Zymbal's Gland | | | | | | | | | | + | | | | | | | | | | | | | | | | 1 | | |
| Carcinoma | | | | | | | | | | X | | | | | | | | | | | | | | | | 1 | | |
| URINARY SYSTEM | | | | | |
| Kidney | + | + | 49 | | |
| Lymphoma Malignant | | | | | | | | | | | | | | X | | | | | | | | | | | | 1 | | |
| Renal Tubule, Adenoma | | | | | | | | | | | | | | | | | | | | X | | | | | | 1 | | |
| Urinary Bladder | + | + | 49 | | |
| SYSTEMIC LESIONS | | | | | |
| Multiple Organ | + | + | 49 | | |
| Lymphoma Malignant | | | | | | | | | | | | | | X | | | | | | | | | | | | 1 | | |
| Mesothelioma 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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

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Dibutyl Phthalate

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Lab: BAT

* .. Total animals with tissue examined microscopically; Total animals with tumor
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Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
300 ppm | | DAY ON TEST | | | | | males
(cont....) |
|---|--|-----------------------|--|--|--|---------------------|
| | | 0
7
3
0 | 0
6
0
3 | 0
7
3
1 | 0
6
1
9 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
4
2
9 | 0
7
2
4 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
6
2
9 | 0
7
3
2 | 0
7
0
6 | 0
7
2
9 | 0
7
3
1 | 0
7
3
1 | 0
7
2
9 | 0
7
2
9 | 0
5
5
5 | 0
7
2
9 | 0
7
5
9 | 0
7
2
9 | | | | |
| ANIMAL ID | | 0
0
0
5
1 | 0
0
0
5
2 | 0
0
0
5
3 | 0
0
0
5
4 | 0
0
0
5
5 | 0
0
0
5
6 | 0
0
0
5
7 | 0
0
0
5
8 | 0
0
0
5
9 | 0
0
0
6
0 | 0
0
0
6
1 | 0
0
0
6
2 | 0
0
0
6
3 | 0
0
0
6
4 | 0
0
0
6
5 | 0
0
0
6
6 | 0
0
0
6
7 | 0
0
0
6
8 | 0
0
0
6
9 | 0
0
0
7
0 | 0
0
0
7
1 | 0
0
0
7
2 | 0
0
0
7
3 | 0
0
0
7
4 | 0
0
0
7
5 | | | | |

ALIMENTARY SYSTEM

| |
|---------------------------|
| Esophagus | + |
| Intestine Large, Cecum | + |
| Intestine Large, Colon | + |
| Intestine Large, Rectum | + |
| Intestine Small, Duodenum | + |
| Intestine Small, Ileum | + | M | + |
| Intestine Small, Jejunum | + | M | + |
| Liver | + |
| Cholangioma |
| Leukemia Mononuclear |
| Mesentery |
| Pancreas | + |
| Acinus, Adenoma | X | |
| Acinus, Adenoma, Multiple | |
| Salivary Glands | + |
| Stomach, Forestomach | + |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

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Dibutyl Phthalate

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Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
300 ppm | DAY ON TEST | 0
7
3
0 | 0
6
0
3 | 0
7
3
1 | 0
6
1
9 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
7
2
9 | 0
4
2
4 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
7
2
9 | 0
6
3
2 | 0
7
0
6 | 0
7
2
9 | 0
7
3
1 | 0
7
3
1 | 0
7
2
9 | 0
7
2
9 | 0
5
5
5 | 0
7
2
9 | 0
7
2
9 | males
(cont...) | | |
|---|-------------|--------------------|-----------------------|-----------------------|
| | ANIMAL ID | 0
0
0
5
1 | 0
0
0
5
2 | 0
0
0
5
3 | 0
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0
5
4 | 0
0
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5
5 | 0
0
0
5
6 | 0
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0
5
7 | 0
0
0
5
8 | 0
0
0
5
9 | 0
0
0
6
0 | 0
0
0
6
1 | 0
0
0
6
2 | 0
0
0
6
3 | 0
0
0
6
4 | 0
0
0
6
5 | 0
0
0
6
6 | 0
0
0
6
7 | 0
0
0
6
8 | 0
0
0
6
9 | 0
0
0
7
0 | 0
0
0
7
1 | 0
0
0
7
2 | 0
0
0
7
3 | | 0
0
0
7
4 | 0
0
0
7
5 |
| | | | | |
| Stomach, Glandular | | + | + | |
| CARDIOVASCULAR SYSTEM | | | | |
| Blood Vessel | | + | + | |
| Heart | | + | + | |
| Pericardium, Mesothelioma Malignant | | | | |
| ENDOCRINE SYSTEM | | | | |
| Adrenal Cortex | | + | + | |
| Adrenal Medulla | | + | + | |
| Pheochromocytoma Benign | | | X | | | | | | | | | | | | X | | | X | | | | | | | | | |
| Islets, Pancreatic | | + | + | |
| Adenoma | | | | | | X | | | | | | X | | | X | | | | | | X | | X | | | | |
| Parathyroid Gland | | + | + | |
| Pituitary Gland | | + | + | |
| Pars Distalis, Adenoma | | | | | | X | | | | | X | | | | X | | X | | | X | | | | | | | |
| Thyroid Gland | | + | + | |
| Bilateral, C-cell, Adenoma | | | | X | | | |
| C-cell, Adenoma | | | | | | X | X | | | | | X | X | | | | | X | | X | | | | | 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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First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
300 ppm | | DAY ON TEST | | | | | males
(cont....) |
|---|--|-----------------------|--|--|--|---------------------|
| | | 0
7
3
0 | 0
6
0
3 | 0
7
3
1 | 0
6
1
9 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
7
2
9 | 0
4
2
4 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
6
2
9 | 0
7
3
0 | 0
7
2
9 | 0
7
3
1 | 0
7
3
1 | 0
7
2
9 | 0
7
2
9 | 0
5
5
5 | 0
7
2
9 | 0
5
5
5 | 0
7
2
9 | | | | |
| ANIMAL ID | | 0
0
0
5
1 | 0
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5
2 | 0
0
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5
3 | 0
0
0
5
4 | 0
0
0
5
5 | 0
0
0
5
6 | 0
0
0
5
7 | 0
0
0
5
8 | 0
0
0
5
9 | 0
0
0
6
0 | 0
0
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6
1 | 0
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0
6
2 | 0
0
0
6
3 | 0
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6
4 | 0
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6
5 | 0
0
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6
6 | 0
0
0
6
7 | 0
0
0
6
8 | 0
0
0
6
9 | 0
0
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7
0 | 0
0
0
7
1 | 0
0
0
7
2 | 0
0
0
7
3 | 0
0
0
7
4 | 0
0
0
7
5 | | | | |

NONE

GENITAL SYSTEM

Coagulating Gland

Epididymis
Mesothelioma Malignant

Preputial Gland

Prostate

Seminal Vesicle

Testis
Mesothelioma Malignant
Interstitial Cell, Adenoma

HEMATOPOIETIC SYSTEM

Bone Marrow
Leukemia MononuclearLymph Node, Mandibular
Leukemia Mononuclear

Lymph Node, Mesenteric

Spleen

* .. Total animals with tissue examined microscopically; 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: BAT

[illegible]

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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

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CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
300 ppm | DAY ON TEST | 0
7
3
0 | 0
6
0
3 | 0
7
3
1 | 0
6
1
9 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
7
2
9 | 0
4
2
4 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
7
2
9 | 0
6
3
2 | 0
7
0
6 | 0
7
2
9 | 0
7
3
1 | 0
7
3
1 | 0
7
2
9 | 0
7
2
9 | 0
5
5
5 | 0
7
2
9 | 0
7
2
9 | males
(cont...) | |
|---|-------------|--------------------|-----------------------|
| | ANIMAL ID | 0
0
0
5
1 | 0
0
0
5
2 | 0
0
0
5
3 | 0
0
0
5
4 | 0
0
0
5
5 | 0
0
0
5
6 | 0
0
0
5
7 | 0
0
0
5
8 | 0
0
0
5
9 | 0
0
0
6
0 | 0
0
0
6
1 | 0
0
0
6
2 | 0
0
0
6
3 | 0
0
0
6
4 | 0
0
0
6
5 | 0
0
0
6
6 | 0
0
0
6
7 | 0
0
0
6
8 | 0
0
0
6
9 | 0
0
0
7
0 | 0
0
0
7
1 | 0
0
0
7
2 | 0
0
0
7
3 | 0
0
0
7
4 | | 0
0
0
7
5 |
| | | | |
| Trachea | | + | |
| SPECIAL SENSES SYSTEM | | | |
| Eye | | + | |
| Harderian Gland | | + | |
| URINARY SYSTEM | | | |
| Kidney | | + | |
| Urinary Bladder | | + | |
| SYSTEMIC LESIONS | | | |
| Multiple Organ | | + | |
| Leukemia Mononuclear | | | |
| Mesothelioma 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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
300 ppm | | DAY ON TEST | | 0 | * TOTALS |
|---|--|-------------|----------|
| | | 2 | 3 | 3 | 6 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 6 | 3 | 2 | 2 | 3 | 3 | 2 | 5 | 2 | 2 | 2 | 3 | 8 | 1 | |
| | | 9 | 0 | 0 | 5 | 0 | 9 | 9 | 1 | 1 | 0 | 0 | 8 | 1 | 9 | 9 | 0 | 0 | 9 | 0 | 9 | 9 | 2 | 1 | 5 | 7 | |
| ANIMAL ID | | 0 | 0 | |
| | | 0 | 0 | |
| | | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |

ALIMENTARY SYSTEM

| | |
|---------------------------|----|
| Esophagus | + | 50 |
| Intestine Large, Cecum | + | 50 |
| Intestine Large, Colon | + | 50 |
| Intestine Large, Rectum | + | 50 |
| Intestine Small, Duodenum | + | 50 |
| Intestine Small, Ileum | + | 49 |
| Intestine Small, Jejunum | + | 49 |
| Liver | + | 50 |
| Cholangioma | X | | 1 |
| Leukemia Mononuclear | 1 |
| Mesentery | 1 |
| Pancreas | + | 50 |
| Acinus, Adenoma | | | | | | | | | | X | | | | | | | | | X | | | | | | | | 3 |
| Acinus, Adenoma, Multiple | | 1 |
| Salivary Glands | + | 50 |
| Stomach, Forestomach | + | 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: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
300 ppm | DAY ON TEST | 0 | * TOTALS |
|---|-------------|----|----------|
| | 2 | 3 | 3 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 2 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | | |
| | 9 | 0 | | |
| | ANIMAL ID | 0 | |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| Stomach, Glandular | + | + | 50 | |
| CARDIOVASCULAR SYSTEM | | | |
| Blood Vessel | + | + | 50 | |
| Heart | + | + | 50 | |
| Pericardium, Mesothelioma Malignant | | | | | | | | | | | | X | | | | | | | | | | | | | | 1 | |
| ENDOCRINE SYSTEM | | | |
| Adrenal Cortex | + | + | 50 | |
| Adrenal Medulla | + | + | 50 | |
| Pheochromocytoma Benign | | | | | | X | | | | | X | | | | X | | | | | | | | | | | 6 | |
| Islets, Pancreatic | + | + | 50 | |
| Adenoma | | | | X | | | | | | | | | | | X | | | | | | | | | | | 7 | |
| Parathyroid Gland | + | + | M | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Pituitary Gland | + | + | 50 | |
| Pars Distalis, Adenoma | | | | | X | | | | | | | | | X | | X | | | | X | | X | | | | 10 | |
| Thyroid Gland | + | + | 50 | |
| Bilateral, C-cell, Adenoma | | 1 | |
| C-cell, Adenoma | | | | | | | | | X | | | | | X | | | | | | | | | | | | 9 | |
| 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

Experiment Number: 10987 - 01

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Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
300 ppm | | DAY ON TEST | | | | | | | | | | ANIMAL ID | | | | | | | | | | | | | | * TOTALS |
|---|--|-----------------------|--|----------|
| | | 0
7
2
9 | 0
7
3
0 | 0
7
3
0 | 0
5
6
5 | 0
7
3
0 | 0
7
2
9 | 0
7
2
9 | 0
7
3
1 | 0
7
3
1 | 0
7
3
0 | 0
7
6
8 | 0
7
3
1 | 0
7
2
9 | 0
7
2
9 | 0
7
3
0 | 0
7
3
0 | 0
4
5
0 | 0
7
2
9 | 0
7
2
9 | 0
7
2
2 | 0
7
3
1 | 0
6
8
5 | 0
6
1
7 | | |
| | | 0
0
0
7
6 | 0
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7
7 | 0
0
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7
8 | 0
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7
9 | 0
0
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3 | 0
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5 | 0
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9
6 | 0
0
0
9
7 | 0
0
0
9
8 | 0
0
0
9
9 | | |

NONE

GENITAL SYSTEM

| | |
|----------------------------|----|
| Coagulating Gland | + | | 1 |
| Epididymis | + | 50 |
| Mesothelioma Malignant | 1 |
| Preputial Gland | + | M | 49 |
| Prostate | + | 50 |
| Seminal Vesicle | + | 50 |
| Testis | + | 50 |
| Mesothelioma Malignant | 1 |
| Interstitial Cell, Adenoma | X | | | | | | | | X | | | | | | | X | | | | | X | | | 5 |

HEMATOPOIETIC SYSTEM

| | |
|------------------------|----|
| Bone Marrow | + | 50 |
| Leukemia Mononuclear | 1 |
| Lymph Node, Mandibular | + | 49 |
| Leukemia Mononuclear | 1 |
| Lymph Node, Mesenteric | + | 49 |
| 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

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Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
300 ppm | DAY ON TEST | 0
7
2
9 | 0
7
3
0 | 0
7
3
0 | 0
5
6
5 | 0
7
3
0 | 0
7
2
9 | 0
7
2
9 | 0
7
3
1 | 0
7
3
1 | 0
7
3
0 | 0
7
3
0 | 0
2
6
8 | 0
7
3
1 | 0
7
2
9 | 0
7
2
9 | 0
7
3
0 | 0
7
3
0 | 0
7
4
9 | 0
7
2
5
0 | 0
7
2
9 | 0
7
2
9 | 0
7
2
2 | 0
7
3
1 | 0
6
8
5 | 0
6
1
7 | * TOTALS |
|---|-------------|----------|
| | ANIMAL ID | 0
0
0
7
6 | 0
0
0
7
7 | 0
0
0
7
8 | 0
0
0
7
9 | 0
0
0
8
0 | 0
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1 | 0
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2 | 0
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3 | 0
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4 | 0
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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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9
2 | 0
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9
3 | 0
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4 | 0
0
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9
5 | 0
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9
6 | 0
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0
9
7 | 0
0
0
9
8 | 0
0
0
9
9 | 0
0
1
0
0 | |
| | | |
| Leukemia Mononuclear | | | | | | | | | | | | | M | | | | | | | | | | | | | | 1 |
| Thymus | | + | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| INTEGUMENTARY SYSTEM | | |
| Mammary Gland | | + | 49 |
| Fibroadenoma | | X | | 1 |
| Skin | | + | 50 |
| Pilomatrixoma | | | 1 |
| Subcutaneous Tissue, Fibroma | | | X | | | 1 |
| Subcutaneous Tissue, Fibrosarcoma | | | 1 |
| Subcutaneous Tissue, Lipoma | | | | | | | | | | | | | | | | | | | | | X | | | | | | 2 |
| MUSCULOSKELETAL SYSTEM | | |
| Bone | | + | 50 |
| NERVOUS SYSTEM | | |
| Brain | | + | 50 |
| RESPIRATORY SYSTEM | | |
| Lung | | + | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leiomyosarcoma | | | | | | | | X | | | | | | | | | | | | | | | | | | | 1 |
| Leukemia Mononuclear | | | 1 |
| Nose | | + | 50 |

* .. 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: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
300 ppm | DAY ON TEST | 0
7
2
9 | 0
7
3
0 | 0
7
3
0 | 0
5
6
5 | 0
7
3
0 | 0
7
2
9 | 0
7
2
9 | 0
7
3
1 | 0
7
3
1 | 0
7
3
0 | 0
7
6
8 | 0
7
3
1 | 0
7
2
9 | 0
7
2
9 | 0
7
3
0 | 0
7
3
0 | 0
4
5
0 | 0
7
2
9 | 0
7
2
9 | 0
7
2
2 | 0
7
3
1 | 0
6
8
5 | 0
6
1
7 | * TOTALS |
|---|-------------|----------|
| | ANIMAL ID | 0
0
0
7
6 | 0
0
0
7
7 | 0
0
0
7
8 | 0
0
0
7
9 | 0
0
0
8
0 | 0
0
0
8
1 | 0
0
0
8
2 | 0
0
0
8
3 | 0
0
0
8
4 | 0
0
0
8
5 | 0
0
0
8
6 | 0
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0
8
7 | 0
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8
8 | 0
0
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9
0 | 0
0
0
9
1 | 0
0
0
9
2 | 0
0
0
9
3 | 0
0
0
9
4 | 0
0
0
9
5 | 0
0
0
9
6 | 0
0
0
9
7 | 0
0
0
9
8 | 0
0
0
9
9 | |
| | | |
| Trachea | | + | 50 |
| SPECIAL SENSES SYSTEM | | |
| Eye | | + | 50 |
| Harderian Gland | | + | 50 |
| URINARY SYSTEM | | |
| Kidney | | + | 50 |
| Urinary Bladder | | + | 50 |
| SYSTEMIC LESIONS | | |
| Multiple Organ | | + | 50 |
| Leukemia Mononuclear | | | 1 |
| Mesothelioma 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

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| HARLAN SPRAGUE DAWLEY RATS
MALE
1000 ppm | DAY ON TEST | 0
5
1
2 | 0
7
3
0 | 0
7
3
1 | 0
7
3
1 | 0
6
5
2 | 0
7
3
1 | 0
5
8
5 | 0
6
0
9 | 0
7
3
1 | 0
7
3
1 | 0
7
2
9 | 0
7
2
9 | 0
7
3
0 | 0
7
3
0 | 0
6
2
1 | 0
6
3
6 | 0
6
1
5 | 0
6
6
1 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
7
2
9 | males
(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
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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 | | | |
| | | | | |
| | | | | |
| | | | | |

ALIMENTARY SYSTEM

| | |
|--|---|
| Esophagus | + |
| Intestine Large, Cecum | + |
| Intestine Large, Colon | + |
| Intestine Large, Rectum | + |
| Intestine Small, Duodenum | + |
| Intestine Small, Ileum | + |
| Intestine Small, Jejunum
Adenocarcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + |
| Liver | + |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | | X | | | | | | | |
| Lymphoma Malignant | | | | | X | | | | | | X | | | | | | | | | | | | | | | |
| Pancreas | + |
| Lymphoma Malignant |
| Acinus, Adenoma | X |
| Salivary Glands | + |
| Stomach, Forestomach | + |
| Stomach, Glandular | + |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
1000 ppm | | DAY ON TEST | | | | males
(cont...) |
|--|--|-----------------------|------------------|--|--|--------------------|
| | | 0
5
1
2 | 0
7
3
0 | 0
7
3
1 | 0
7
3
1 | 0
6
5
2 | 0
7
3
1 | 0
5
8
5 | 0
6
0
9 | 0
7
3
1 | 0
7
3
1 | 0
7
2
9 | 0
7
2
9 | 0
7
3
0 | 0
7
3
0 | 0
6
2
1 | 0
6
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6 | 0
6
1
5 | 0
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1 | 0
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0 | 0
7
3
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3
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7
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3
0 | 0
7
3
0 | 0
7
2
9 | | | |
| 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
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5 | 0
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6 | 0
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1
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7 | 0
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1
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8 | 0
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2 | 0
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3 | 0
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4 | 0
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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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9 | 0
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2
1 | 0
0
1
2
2 | 0
0
1
2
3 | 0
0
1
2
4 | 0
0
1
2
5 | 0
0
1
2
6 | | | | |

CARDIOVASCULAR SYSTEM

Blood Vessel

+ +

Heart

+ +

ENDOCRINE SYSTEM

Adrenal Cortex

+ +

Adrenal Medulla

+ +

Pheochromocytoma Benign

X X

Pheochromocytoma Malignant

X X

Islets, Pancreatic

+ +

Adenoma

X X

Parathyroid Gland

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

Pituitary Gland

+ +

Lymphoma Malignant

X X

Pars Distalis, Adenoma

X X

Thyroid Gland

+ +

Bilateral, C-cell, Adenoma

X X

C-cell, Adenoma

X X

GENERAL BODY SYSTEM

NONE

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
1000 ppm | | DAY ON TEST | | | | males
(cont...) |
|--|--|-----------------------|--|--|--------------------|
| | | 0
5
1
2 | 0
7
3
0 | 0
7
3
1 | 0
7
3
1 | 0
6
5
2 | 0
7
3
1 | 0
5
8
5 | 0
6
0
9 | 0
7
3
1 | 0
7
3
1 | 0
7
2
9 | 0
7
2
9 | 0
7
3
0 | 0
7
3
0 | 0
6
2
1 | 0
6
3
6 | 0
6
1
5 | 0
6
6
1 | 0
7
3
0 | 0
7
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0 | 0
7
3
0 | 0
7
3
0 | 0
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0 | 0
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3
0 | 0
7
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0 | 0
7
2
9 | | | |
| ANIMAL ID | | 0
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1
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1 | 0
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1
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2 | 0
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1
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3 | 0
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4 | 0
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1
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5 | 0
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6 | 0
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7 | 0
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1
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8 | 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
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1
7 | 0
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1
1
8 | 0
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9 | 0
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1
2
0 | 0
0
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2
1 | 0
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1
2
2 | 0
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2
3 | 0
0
1
2
4 | 0
0
1
2
5 | 0
0
1
2
6 | 0
0
1
2
7 | | | |

GENITAL SYSTEM

| |
|----------------------------|
| Epididymis | + |
| Preputial Gland | + |
| Prostate | + |
| Lymphoma Malignant |
| Seminal Vesicle | + |
| Lymphoma Malignant |
| Testis | + |
| Interstitial Cell, Adenoma | |

HEMATOPOIETIC SYSTEM

| |
|---------------------------------|
| Bone Marrow | + |
| Lymphoma Malignant |
| Lymph Node |
| Mediastinal, Lymphoma Malignant | |
| Renal, Lymphoma Malignant |
| Lymph Node, Mandibular | + |
| Lymphoma Malignant |
| Lymph Node, Mesenteric | + |
| 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

Experiment Number: 10987 - 01

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Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
1000 ppm | | DAY ON TEST | | | | males
(cont...) |
|--|--|-----------------------|------------------|--|--|--------------------|
| | | 0
5
1
2 | 0
7
3
0 | 0
7
3
1 | 0
7
3
1 | 0
6
5
2 | 0
7
3
1 | 0
5
8
5 | 0
6
0
9 | 0
7
3
1 | 0
7
3
1 | 0
7
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9 | 0
7
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9 | 0
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9 | | | |
| ANIMAL ID | | 0
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9 | 0
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2
1 | 0
0
1
2
2 | 0
0
1
2
3 | 0
0
1
2
4 | 0
0
1
2
5 | 0
0
1
2
6 | | | | |

Spleen
Lymphoma Malignant+
X XThymus
Lymphoma Malignant+ + + M + + + + + + + M + M + + + + + + + + + + + + + +
X

INTEGUMENTARY SYSTEM

Mammary Gland
Fibroadenoma

+ +

Skin
Basal Cell Adenoma
Squamous Cell Papilloma
Subcutaneous Tissue, Fibroma
Subcutaneous Tissue, Fibrosarcoma
Subcutaneous Tissue, Lipoma+
X
X
X
X

MUSCULOSKELETAL SYSTEM

Bone

+ +

NERVOUS SYSTEM

Brain
Glioma Malignant
Lymphoma Malignant+
XPeripheral Nerve
Schwannoma 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

Experiment Number: 10987 - 01

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Route: DOSED FEED

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P04: NEOPLASMS BY INDIVIDUAL ANIMAL

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Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
1000 ppm | DAY ON TEST | 0
5
1
2 | 0
7
3
0 | 0
7
3
1 | 0
7
3
1 | 0
6
5
2 | 0
7
3
1 | 0
5
8
5 | 0
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9 | 0
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1 | 0
7
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9 | 0
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9 | 0
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0 | 0
7
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0 | 0
7
3
0 | 0
7
2
9 | males
(cont...) |
|--|-------------|------------------|--------------------|
| | ANIMAL ID | 0
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7 | 0
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2
1 | 0
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2
2 | 0
0
1
2
3 | 0
0
1
2
4 | 0
0
1
2
5 | | |
| | | | |
| Spinal Cord | | + | | |
| RESPIRATORY SYSTEM | | | |
| Lung | | + | |
| Alveolar/Bronchiolar Adenoma | | | | | | | | | | | | | | | | | | | X | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| Nose | | + | |
| Trachea | | + | |
| SPECIAL SENSES SYSTEM | | | |
| Eye | | + | |
| Schwannoma Malignant | | | | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | | + | |
| URINARY SYSTEM | | | |
| Kidney | | + | |
| Lipoma | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| Urinary Bladder | | + | |
| SYSTEMIC LESIONS | | | |
| Multiple Organ | | + | |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
1000 ppm | DAY ON TEST | | 0
7
2
9 | 0
7
3
1 | 0
7
3
1 | 0
7
2
9 | 0
7
2
9 | 0
7
3
0 | 0
2
8
4 | 0
7
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6 | 0
7
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4 | 0
6
4
7 | 0
7
1
1 | 0
7
0
9 | 0
7
3
0 | 0
6
6
3 | 0
6
8
5 | 0
7
2
9 | 0
7
2
9 | 0
7
2
9 | 0
6
9
1 | 0
7
2
2 | 0
6
4
6 | 0
7
2
9 | 0
7
2
9 | * TOTALS |
|--|-------------|--|-----------------------|----------|
| | ANIMAL ID | | 0
0
1
2
6 | 0
0
1
2
7 | 0
0
1
2
8 | 0
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9 | 0
0
1
3
0 | 0
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1 | 0
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2 | 0
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1
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3 | 0
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3 | 0
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3
4 | 0
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3
5 | 0
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3
6 | 0
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7 | 0
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3
8 | 0
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4
1 | 0
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1
4
2 | 0
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1
4
3 | 0
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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 | |

ALIMENTARY SYSTEM

| | |
|--|---------|
| Esophagus | + | 50 |
| Intestine Large, Cecum | + | + | + | M | + | 49 |
| Intestine Large, Colon | + | 50 |
| Intestine Large, Rectum | + | 50 |
| Intestine Small, Duodenum | + | 50 |
| Intestine Small, Ileum | + | 50 |
| Intestine Small, Jejunum
Adenocarcinoma | + | 50
1 |
| Liver | + | 50 |
| Hepatocellular Adenoma | 1 |
| Lymphoma Malignant | | X | | | | | | | | | | | X | | | | | | | | | | | | | | 4 |
| Pancreas | + | 50 |
| Lymphoma Malignant | | | | | | | | | | | | | | X | | | | | | | | | | | | | 1 |
| Acinus, Adenoma | | | | X | | | | | | | | | | | | | | | | | | | | X | | | 3 |
| Salivary Glands | + | 50 |
| Stomach, Forestomach | + | 50 |
| Stomach, Glandular | + | 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: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
1000 ppm | DAY ON TEST | | 0 | 0 | |
|--|-------------|--|----------|--|
| | ANIMAL ID | | 7 | 7 | 7 | 7 | 7 | 7 | 2 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 7 | |
| | | | 2 | 3 | 3 | 2 | 2 | 3 | 8 | 0 | 3 | 4 | 2 | 1 | 0 | 3 | 3 | 6 | 8 | 2 | 2 | 2 | 9 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | |
| | | | 9 | 1 | 1 | 9 | 9 | 0 | 4 | 6 | 0 | 4 | 7 | 1 | 9 | 0 | 0 | 3 | 5 | 9 | 9 | 9 | 1 | 2 | 6 | 9 | 9 | 9 | 9 | 9 | |
| | | | 0 | 0 | |
| | | | 1 | 1 | |
| | | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | |
| | | | * TOTALS | |

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

| | |
|----------------------------|----|
| Adrenal Cortex | + | 50 |
| Adrenal Medulla | + | 50 |
| Pheochromocytoma Benign | | | | X | | | | | | | | | | X | | X | | | | X | | | | | | | | | | 11 |
| Pheochromocytoma Malignant | | 1 |
| Islets, Pancreatic | + | 50 |
| Adenoma | | | X | | | | | | | | | | | | | | | | | X | | | | | | | | | | 3 |
| Parathyroid Gland | M | + | + | + | + | + | + | + | M | + | M | + | M | + | + | + | + | M | M | M | + | + | + | + | + | + | + | + | + | 42 |
| Pituitary Gland | + | 50 |
| Lymphoma Malignant | 1 |
| Pars Distalis, Adenoma | | | | | | | | | X | | X | | | | | | X | | | | | | | | | | X | | | 12 |
| Thyroid Gland | + | 50 |
| Bilateral, C-cell, Adenoma | | | | | X | | 1 |
| C-cell, Adenoma | | | | | | | | | X | | | | X | X | X | | | | | | | | | | | | | | | 9 |

GENERAL BODY SYSTEM

NONE

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

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

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Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
1000 ppm | | DAY ON TEST | | 0 | * TOTALS | |
|--|--|-------------|----------|---|
| | | ANIMAL ID | | 7 | 7 | 7 | 7 | 7 | 2 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | | |
| | | | | 2 | 3 | 3 | 2 | 2 | 3 | 8 | 0 | 3 | 4 | 2 | 1 | 0 | 3 | 3 | 6 | 8 | 2 | 2 | 2 | 9 | 2 | 4 | 2 | | 2 |
| | | | | 9 | 1 | 1 | 9 | 9 | 0 | 4 | 6 | 0 | 4 | 7 | 1 | 9 | 0 | 0 | 3 | 5 | 9 | 9 | 9 | 1 | 2 | 6 | 9 | | 9 |
| | | 0 | 0 | | |
| | | 1 | 1 | | |
| | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 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 | | | |

GENITAL SYSTEM

| | |
|----------------------------|----|
| Epididymis | + | 50 |
| Preputial Gland | + | 50 |
| Prostate | + | 50 |
| Lymphoma Malignant | | X | | 1 |
| Seminal Vesicle | + | 50 |
| Lymphoma Malignant | | X | | 1 |
| Testis | + | 50 |
| Interstitial Cell, Adenoma | | 1 |

HEMATOPOIETIC SYSTEM

| | |
|---------------------------------|----|
| Bone Marrow | + | 50 |
| Lymphoma Malignant | | X | | 3 |
| Lymph Node | | + | | 3 |
| Mediastinal, Lymphoma Malignant | | 1 |
| Renal, Lymphoma Malignant | 2 |
| Lymph Node, Mandibular | + | 50 |
| Lymphoma Malignant | 1 |
| Lymph Node, Mesenteric | + | 50 |
| Lymphoma Malignant | | | | | | | | | | | | | | X | | | | | | | | | | | | | | 3 |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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BLANK .. Not examined microscopically

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Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
1000 ppm | DAY ON TEST | 0
7
2
9 | 0
7
3
1 | 0
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9 | 0
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4 | 0
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7 | 0
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9 | 0
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9 | 0
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2 | 0
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9 | 0
7
2
9 | * TOTALS | |
|--|-------------|----------|--|
| | ANIMAL ID | 0
0
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2
6 | 0
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7 | 0
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6 | 0
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7 | 0
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1
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8 | 0
0
1
4
9 | | |
| | | | |
| Spleen
Lymphoma Malignant | | + | 50
4 | |
| Thymus
Lymphoma Malignant | | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | 45
1 | |
| INTEGUMENTARY SYSTEM | | | |
| Mammary Gland
Fibroadenoma | | + | 50
1 | |
| Skin
Basal Cell Adenoma | | + | 50
1 | |
| Squamous Cell Papilloma | | | X | | | | 1 | |
| Subcutaneous Tissue, Fibroma | | | | | | | | | | | | | | | | | | | X | | | | | | | 1 | |
| Subcutaneous Tissue, Fibrosarcoma | | | 2 | |
| Subcutaneous Tissue, Lipoma | | | | X | | 2 | |
| MUSCULOSKELETAL SYSTEM | | | |
| Bone | | + | 50 | |
| NERVOUS SYSTEM | | | |
| Brain
Glioma Malignant | | + | X | | + | + | 50
1 | |
| Lymphoma Malignant | | | 1 | |
| Peripheral Nerve
Schwannoma Malignant | | | 2
1 | |

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

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

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Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
1000 ppm | DAY ON TEST | 0
7
2
9 | 0
7
3
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1 | 0
7
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9 | 0
7
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7 | 0
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1 | 0
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9 | 0
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3 | 0
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5 | 0
7
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9 | 0
7
2
9 | 0
7
2
9 | 0
6
9
1 | 0
7
2
2 | 0
6
4
6 | 0
7
2
9 | 0
7
2
9 | * TOTALS |
|--|-------------|------------------|----------|
| | ANIMAL ID | 0
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2
6 | 0
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7 | 0
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8 | 0
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9 | 0
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3 | 0
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4 | 0
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5 | 0
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6 | 0
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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 | | |
| | | | |
| Spinal Cord | | 1 | | |
| RESPIRATORY SYSTEM | | | |
| Lung | | 50 | | |
| Alveolar/Bronchiolar Adenoma | | 1 | | |
| Lymphoma Malignant | | 2 | | |
| Nose | | 50 | | |
| Trachea | | 50 | | |
| SPECIAL SENSES SYSTEM | | | |
| Eye | | 50 | | |
| Schwannoma Malignant | | 1 | | |
| Harderian Gland | | 50 | | |
| URINARY SYSTEM | | | |
| Kidney | | 50 | | |
| Lipoma | | 1 | | |
| Lymphoma Malignant | | 1 | | |
| Urinary Bladder | | 50 | | |
| SYSTEMIC LESIONS | | | |
| Multiple Organ | | 50 | | |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
1000 ppm | DAY ON TEST | 0
7
2
9 | 0
7
3
1 | 0
7
3
1 | 0
7
2
9 | 0
7
2
9 | 0
7
3
0 | 0
2
8
4 | 0
7
0
6 | 0
7
3
0 | 0
6
4
4 | 0
7
2
7 | 0
7
1
1 | 0
7
0
9 | 0
7
3
0 | 0
6
6
3 | 0
6
8
5 | 0
7
2
9 | 0
7
2
9 | 0
7
2
9 | 0
6
9
1 | 0
7
2
2 | 0
6
4
6 | 0
7
2
9 | 0
7
2
9 | * TOTALS | |
|--|-------------|----------|--|
| | 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 | | |
| | | | |
| | | | |
| Lymphoma Malignant | | 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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3000 ppm | DAY ON TEST | | 0 | males
(cont...) |
|--|-------------|--|--------------------|
| | ANIMAL ID | | 7 | 7 | 5 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 1 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | | | 3 | 3 | 6 | 1 | 2 | 2 | 3 | 1 | 2 | 1 | 3 | 3 | 4 | 3 | 2 | 9 | 9 | 2 | 2 | 2 | 5 | 3 | 3 | 2 | 2 | 3 |
| | | | 0 | 0 | 2 | 8 | 9 | 9 | 1 | 9 | 9 | 5 | 0 | 0 | 1 | 0 | 9 | 9 | 9 | 4 | 9 | 9 | 4 | 0 | 0 | 9 | 9 | 0 |
| | | | 0 | |
| | | | 1 | |
| | | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |

ALIMENTARY SYSTEM

| |
|---------------------------|
| Esophagus | + |
| Intestine Large, Cecum | + |
| Intestine Large, Colon | + |
| Intestine Large, Rectum | + |
| Intestine Small, Duodenum | + |
| Intestine Small, Ileum | + |
| Intestine Small, Jejunum | + |
| Liver | + |
| Leukemia Mononuclear | | | X | |
| Pancreas | + |
| Acinus, Adenoma |
| Salivary Glands | + |
| Stomach, Forestomach | + |
| Leiomyosarcoma |
| Stomach, Glandular | + |

CARDIOVASCULAR 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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| DAY ON TEST | | 0730 | 0730 | 0562 | 0718 | 0729 | 0731 | 0519 | 0729 | 0715 | 0730 | 0730 | 0141 | 0730 | 0729 | 0699 | 0729 | 0729 | 0729 | 0654 | 0730 | 0730 | 0729 | 0729 | 0730 | | |
|-------------|--|-----------------|--|
| | | 0730 | 0730 | |
| ANIMAL ID | | 00151 | 00152 | 00153 | 00154 | 00155 | 00156 | 00157 | 00158 | 00159 | 00160 | 00161 | 00162 | 00163 | 00164 | 00165 | 00166 | 00167 | 00168 | 00169 | 00170 | 00171 | 00172 | 00173 | 00174 | 00175 | |
| | | 00176 | 00177 | 00178 | 00179 | 00180 | 00181 | 00182 | 00183 | 00184 | 00185 | 00186 | 00187 | 00188 | 00189 | 00190 | 00191 | 00192 | 00193 | 00194 | 00195 | 00196 | 00197 | 00198 | 00199 | 00200 | |
| | | males (cont...) | | |

Blood Vessel

+ +

Heart

+ +

ENDOCRINE SYSTEM

Adrenal Cortex

+ +

Adrenal Medulla

+ +

Pheochromocytoma Benign

X

Pheochromocytoma Malignant

Bilateral, Pheochromocytoma Benign

X

Islets, Pancreatic

+ +

Parathyroid Gland

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

Pituitary Gland

+ +

Pars Distalis, Adenoma

X

X

X

X

X

X

X

Pars Intermedia, Adenoma

X

Thyroid Gland

+ +

C-cell, Adenoma

X

X

X

X

C-cell, Carcinoma

X

Follicular Cell, Adenoma

X

GENERAL BODY SYSTEM

NONE

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3000 ppm | DAY ON TEST | | 0
7
3
0 | 0
7
3
0 | 0
5
6
2 | 0
7
1
8 | 0
7
2
9 | 0
7
2
9 | 0
7
3
1 | 0
5
1
9 | 0
7
2
9 | 0
7
1
5 | 0
7
3
0 | 0
1
4
1 | 0
7
3
0 | 0
7
2
9 | 0
6
9
9 | 0
7
2
9 | 0
7
2
9 | 0
7
2
9 | 0
6
5
4 | 0
7
3
0 | 0
7
3
0 | 0
7
2
9 | 0
7
2
9 | 0
7
3
0 | males
(cont...) |
|--|-------------|--|-----------------------|
| | ANIMAL ID | | 0
0
1
5
1 | 0
0
1
5
2 | 0
0
1
5
3 | 0
0
1
5
4 | 0
0
1
5
5 | 0
0
1
5
6 | 0
0
1
5
7 | 0
0
1
5
8 | 0
0
1
5
9 | 0
0
1
6
0 | 0
0
1
6
1 | 0
0
1
6
2 | 0
0
1
6
3 | 0
0
1
6
4 | 0
0
1
6
5 | 0
0
1
6
6 | 0
0
1
6
7 | 0
0
1
6
8 | 0
0
1
6
9 | 0
0
1
7
0 | 0
0
1
7
1 | 0
0
1
7
2 | 0
0
1
7
3 | 0
0
1
7
4 | 0
0
1
7
5 |

GENITAL SYSTEM

| |
|----------------------------|
| Epididymis | + |
| Preputial Gland | + |
| Prostate | + |
| Seminal Vesicle | + |
| Testis | + |
| Interstitial Cell, Adenoma | | | | | | | | | | X | | | | | | | | | | X | | | | | | | |

HEMATOPOIETIC SYSTEM

| |
|-----------------------------------|
| Bone Marrow | + |
| Leukemia Mononuclear | | | X | |
| Lymph Node | | | + | |
| Mediastinal, Leukemia Mononuclear | | | X | |
| Lymph Node, Mandibular | + |
| Leukemia Mononuclear | | | X | |
| Lymph Node, Mesenteric | + |
| Hemangioma |
| Leukemia Mononuclear | | | X | |
| Spleen | + |
| Leukemia Mononuclear | | | 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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3000 ppm | | DAY ON TEST | | | | males
(cont...) |
|--|--|-----------------------|------------------|--|--|--------------------|
| | | 0
7
3
0 | 0
7
3
0 | 0
5
6
2 | 0
7
1
8 | 0
7
2
9 | 0
7
2
9 | 0
7
3
1 | 0
5
1
9 | 0
7
2
9 | 0
7
1
5 | 0
7
3
0 | 0
7
3
0 | 0
1
4
1 | 0
7
3
0 | 0
7
2
9 | 0
6
9
9 | 0
7
2
9 | 0
7
2
9 | 0
7
2
9 | 0
6
5
4 | 0
7
3
0 | 0
7
3
0 | 0
7
2
9 | 0
7
2
9 | 0
7
3
0 | 0
7
2
9 | | | |
| ANIMAL ID | | 0
0
1
5
1 | 0
0
1
5
2 | 0
0
1
5
3 | 0
0
1
5
4 | 0
0
1
5
5 | 0
0
1
5
6 | 0
0
1
5
7 | 0
0
1
5
8 | 0
0
1
5
9 | 0
0
1
6
0 | 0
0
1
6
1 | 0
0
1
6
2 | 0
0
1
6
3 | 0
0
1
6
4 | 0
0
1
6
5 | 0
0
1
6
6 | 0
0
1
6
7 | 0
0
1
6
8 | 0
0
1
6
9 | 0
0
1
7
0 | 0
0
1
7
1 | 0
0
1
7
2 | 0
0
1
7
3 | 0
0
1
7
4 | 0
0
1
7
5 | | | | |

Thymus

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

INTEGUMENTARY SYSTEM

Mammary Gland
Fibroadenoma

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

Skin
Subcutaneous Tissue, Fibrolipoma
Subcutaneous Tissue, Fibroma
Subcutaneous Tissue, Fibrosarcoma
Subcutaneous Tissue, Lipoma+ + + + + + + + + + + + + + X + + + + + + + + + + + + +
X
X
X X

MUSCULOSKELETAL SYSTEM

Bone

+ +

Skeletal Muscle
Rhabdomyosarcoma
Sarcoma+
X

NERVOUS SYSTEM

Brain
Glioma Malignant
Cranial Nerve, Schwannoma Malignant+
XPeripheral Nerve
Trigeminal, Schwannoma 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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3000 ppm | | DAY ON TEST | | males
(cont...) |
|--|--|-------------|--------------------|
| | | 0730 | 0730 | 0562 | 0718 | 0729 | 0729 | 0731 | 0519 | 0719 | 0715 | 0730 | 0733 | 0141 | 0730 | 0729 | 0699 | 0729 | 0729 | 0729 | 0654 | 0730 | 0730 | 0729 | 0729 | 0730 | 0730 | |
| ANIMAL ID | | 00151 | 00152 | 00153 | 00154 | 00155 | 00156 | 00157 | 00158 | 00159 | 00160 | 00161 | 00162 | 00163 | 00164 | 00165 | 00166 | 00167 | 00168 | 00169 | 00170 | 00171 | 00172 | 00173 | 00174 | 00175 | 00176 | |
| | | 0011 | 0011 | |

Spinal Cord

+

RESPIRATORY SYSTEM

Lung

+ +

Alveolar/Bronchiolar Adenoma

Carcinoma, Metastatic, Thyroid Gland

Sarcoma, Metastatic, Skeletal Muscle

X

Nose

+ +

Trachea

+ +

SPECIAL SENSES SYSTEM

Eye

+ +

Optic Nerve, Schwannoma Malignant

Harderian Gland

+ +

Schwannoma Malignant, Metastatic, Brain

Schwannoma Malignant, Metastatic, Peripheral Nerve

X

URINARY SYSTEM

Kidney

+ +

Ureter

Urinary Bladder

+ +

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3000 ppm | | DAY ON TEST | 0
7
3
0 | 0
7
3
0 | 0
5
6
2 | 0
7
1
8 | 0
7
2
9 | 0
7
2
9 | 0
7
3
1 | 0
5
1
9 | 0
7
2
9 | 0
7
1
5 | 0
7
3
0 | 0
7
3
0 | 0
1
4
1 | 0
7
3
0 | 0
7
2
9 | 0
6
9
9 | 0
7
2
9 | 0
7
2
9 | 0
6
5
4 | 0
7
3
0 | 0
7
3
0 | 0
7
2
9 | 0
7
2
9 | 0
7
3
0 | males
(cont...) |
|--|--|-------------|--------------------|
| | | ANIMAL ID | 0
0
1
5
1 | 0
0
1
5
2 | 0
0
1
5
3 | 0
0
1
5
4 | 0
0
1
5
5 | 0
0
1
5
6 | 0
0
1
5
7 | 0
0
1
5
8 | 0
0
1
5
9 | 0
0
1
6
0 | 0
0
1
6
1 | 0
0
1
6
2 | 0
0
1
6
3 | 0
0
1
6
4 | 0
0
1
6
5 | 0
0
1
6
6 | 0
0
1
6
7 | 0
0
1
6
8 | 0
0
1
6
9 | 0
0
1
7
0 | 0
0
1
7
1 | 0
0
1
7
2 | 0
0
1
7
3 | 0
0
1
7
4 | |

SYSTEMIC LESIONS

Multiple Organ
Leukemia Mononuclear

| | |
|---|--|
| + | |
| | | | 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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

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P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

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First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3000 ppm | DAY ON TEST | 0
7
3
0 | 0
7
3
1 | 0
7
3
1 | 0
5
6
5 | 0
7
3
1 | 0
6
8
0 | 0
7
2
9 | 0
6
6
6 | 0
7
2
9 | 0
7
2
9 | 0
7
3
1 | 0
7
3
1 | 0
7
3
0 | 0
7
3
0 | 0
5
8
9 | 0
5
9
2 | 0
7
3
1 | 0
6
2
5 | 0
7
3
0 | 0
7
3
0 | 0
4
1
4 | 0
7
2
9 | 0
6
0
9 | 0
6
9
1 | |
|--|-------------|----------|
| | ANIMAL ID | 0
0
1
7
6 | 0
0
1
7
7 | 0
0
1
7
8 | 0
0
1
7
9 | 0
0
1
8
0 | 0
0
1
8
1 | 0
0
1
8
2 | 0
0
1
8
3 | 0
0
1
8
4 | 0
0
1
8
5 | 0
0
1
8
6 | 0
0
1
8
7 | 0
0
1
8
8 | 0
0
1
9
0 | 0
0
1
9
1 | 0
0
1
9
2 | 0
0
1
9
3 | 0
0
1
9
4 | 0
0
1
9
5 | 0
0
1
9
6 | 0
0
1
9
7 | 0
0
1
9
8 | 0
0
1
9
9 | 0
0
2
0
0 | * TOTALS |

ALIMENTARY SYSTEM

| | |
|--|---------|
| Esophagus | + | 50 |
| Intestine Large, Cecum | + | 50 |
| Intestine Large, Colon | + | 50 |
| Intestine Large, Rectum | + | 50 |
| Intestine Small, Duodenum | + | 50 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Jejunum | + | 50 |
| Liver
Leukemia Mononuclear | + | 50
1 |
| Pancreas
Acinus, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | 50
1 |
| Salivary Glands | + | M | + | 49 |
| Stomach, Forestomach
Leiomyosarcoma | + | 50
1 |
| Stomach, Glandular | + | 50 |

CARDIOVASCULAR 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

Lab: BAT

| | |
|---|----------|
| DAY ON TEST

HARLAN SPRAGUE DAWLEY RATS
MALE

3000 ppm | 0730 | 0731 | 0735 | 0736 | 0731 | 0760 | 0779 | 0766 | 0729 | 0729 | 0779 | 0731 | 0731 | 0733 | 0730 | 0589 | 0592 | 0631 | 0630 | 0734 | 0733 | 0414 | 0729 | 0609 | 0661 | * TOTALS |
| | 0011 | 0011 | 0011 | 0017 | 0011 | 0011 | 0008 | 0008 | 0008 | 0008 | 0008 | 0008 | 0008 | 0009 | 0009 | 0009 | 0009 | 0009 | 0011 | 0009 | 0011 | 0008 | 0009 | 0000 | | |
| | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | |

[illegible]

ENDOCRINE SYSTEM

[illegible]

GENERAL BODY SYSTEM

NONE

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3000 ppm | DAY ON TEST | 0730 | 0731 | 0731 | 0565 | 0731 | 0680 | 0729 | 0666 | 0729 | 0729 | 0729 | 0731 | 0731 | 0730 | 0730 | 0589 | 0592 | 0731 | 0625 | 0730 | 0730 | 0414 | 0729 | 0609 | 0609 | | * TOTALS | |
|--|-------------|--|----------|--|
| | ANIMAL ID | 00176 | 00177 | 00178 | 00179 | 00180 | 00181 | 00182 | 00183 | 00184 | 00185 | 00186 | 00187 | 00188 | 00189 | 00190 | 00191 | 00192 | 00193 | 00194 | 00195 | 00196 | 00197 | 00198 | 00199 | 00200 | | | |
| | | | | |
| | | | | |

GENITAL SYSTEM

| | |
|----------------------------|----|
| Epididymis | + | 50 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Prostate | + | 50 |
| Seminal Vesicle | + | 50 |
| Testis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | 47 |
| Interstitial Cell, Adenoma | | | | | X | | | | | | | X | | | | | | | | | | | | | | | 4 |

HEMATOPOIETIC SYSTEM

| | |
|-----------------------------------|----|
| Bone Marrow | + | 50 |
| Leukemia Mononuclear | 1 |
| Lymph Node | | | | + | | 2 |
| Mediastinal, Leukemia Mononuclear | | 1 |
| Lymph Node, Mandibular | + | M | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Leukemia Mononuclear | 1 |
| Lymph Node, Mesenteric | + | 50 |
| Hemangioma | 1 |
| Leukemia Mononuclear | 1 |
| Spleen | + | 50 |
| Leukemia Mononuclear | 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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3000 ppm | DAY ON TEST | 0 | 0 | * TOTALS | |
|--|-------------|----------|----|----------|--|
| | | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 5 | 7 | 6 | 7 | 7 | 4 | 7 | 6 | 6 | | | |
| | | 3 | 3 | 3 | 6 | 3 | 8 | 2 | 6 | 2 | 2 | 2 | 3 | 3 | 3 | 8 | 9 | 9 | 3 | 2 | 3 | 3 | 1 | 2 | 0 | 9 | | |
| | ANIMAL ID | 0 | 0 | | |
| | | 1 | 1 | 2 | | | |
| | | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| | | * TOTALS | | | |
| Thymus | | + | + | 49 | |
| INTEGUMENTARY SYSTEM | | | | | |
| Mammary Gland | | + | + | 50 | | |
| Fibroadenoma | | | | | | | | | | | | | X | | | | | | | | | | X | | | 3 | | |
| Skin | | + | + | 50 | | |
| Subcutaneous Tissue, Fibrolipoma | | | | | | | | | | | | | X | | | | | | | | | | | | | 2 | | |
| Subcutaneous Tissue, Fibroma | | | | | | X | | | X | | | | | | | | | | | | | | X | | | 4 | | |
| Subcutaneous Tissue, Fibrosarcoma | | | 3 | | |
| Subcutaneous Tissue, Lipoma | | | X | | 1 | | |
| MUSCULOSKELETAL SYSTEM | | | | | |
| Bone | | + | + | 50 | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | + | | | | | | | | 2 | | |
| Rhabdomyosarcoma | | | 1 | | |
| Sarcoma | | | | | | | | | | | | | | | | | | X | | | | | | | | 1 | | |
| NERVOUS SYSTEM | | | | | |
| Brain | | + | + | 50 | | |
| Glioma Malignant | | | 1 | | |
| Cranial Nerve, Schwannoma Malignant | | | X | | | 1 | | |
| Peripheral Nerve | | | 1 | | |
| Trigeminal, Schwannoma 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

Lab: BAT

[illegible]

1

RESPIRATORY SYSTEM

[illegible]

SPECIAL SENSES SYSTEM

[illegible]

URINARY SYSTEM

[illegible]

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
10000 ppm | DAY ON TEST | | | males
(cont...) |
|---|------------------|-----------------------|--|--------------------|
| | 0
7
3
1 | 0
7
0
5 | 0
7
3
0 | 0
7
3
0 | 0
7
2
9 | 0
7
2
9 | 0
6
2
1 | 0
7
3
0 | 0
6
7
0 | 0
5
1
2 | 0
6
5
4 | 0
7
2
9 | 0
7
3
0 | 0
7
3
0 | 0
4
0
0 | 0
2
3
1 | 0
7
2
9 | 0
7
1
6 | 0
7
3
0 | 0
7
3
0 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
5
9
5 | 0
7
2
9 | | | |
| | ANIMAL ID | 0
0
2
0
1 | 0
0
2
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2 | 0
0
2
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3 | 0
0
2
0
4 | 0
0
2
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5 | 0
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6 | 0
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7 | 0
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8 | 0
0
2
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9 | 0
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1
0 | 0
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1 | 0
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2 | 0
0
2
1
3 | 0
0
2
1
4 | 0
0
2
1
5 | 0
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1
6 | 0
0
2
1
7 | 0
0
2
2
8 | 0
0
2
2
9 | 0
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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 | | |

ALIMENTARY SYSTEM

| |
|---------------------------|
| Esophagus | + |
| Intestine Large, Cecum | + |
| Intestine Large, Colon | + |
| Intestine Large, Rectum | + |
| Intestine Small, Duodenum | + |
| Intestine Small, Ileum | + |
| Intestine Small, Jejunum | + |
| Liver | + |
| Cholangiocarcinoma | | | | | | X | |
| Leukemia, Erythrocyte | X | |
| Lymphoma Malignant | | | | | | | | | | X | X | | | | | X | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | + | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + |
| Acinus, Adenoma | | | X | | X | X | | | | | | | | | | | | X | | | X | | X | | | X |
| Acinus, Adenoma, Multiple | |
| Salivary Glands | + |
| Stomach, Forestomach | + |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
10000 ppm | | DAY ON TEST | | | | | males
(cont...) |
|---|--|-----------------------|--|--|--|--------------------|
| | | 0
7
3
1 | 0
7
0
5 | 0
7
3
0 | 0
7
3
0 | 0
7
2
9 | 0
7
2
9 | 0
6
2
1 | 0
7
2
3 | 0
6
7
0 | 0
5
1
2 | 0
6
5
4 | 0
7
2
9 | 0
7
3
0 | 0
7
3
0 | 0
4
0
0 | 0
2
3
1 | 0
7
2
9 | 0
7
1
6 | 0
7
3
0 | 0
7
3
0 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
5
9
5 | 0
7
2
9 | | | | |
| ANIMAL ID | | 0
0
2
0
1 | 0
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2
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2 | 0
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2
0
3 | 0
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2
0
4 | 0
0
2
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5 | 0
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6 | 0
0
2
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7 | 0
0
2
0
8 | 0
0
2
0
9 | 0
0
2
1
0 | 0
0
2
1
1 | 0
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2
1
2 | 0
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2
1
3 | 0
0
2
1
4 | 0
0
2
1
5 | 0
0
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1
6 | 0
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2
1
7 | 0
0
2
1
8 | 0
0
2
2
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 | | | | |

Stomach, Glandular
Lymphoma Malignant+
X

CARDIOVASCULAR SYSTEM

Blood Vessel

+ +

Heart

+ +

Lymphoma Malignant

Myocardium, Schwannoma Malignant

X

X

ENDOCRINE SYSTEM

Adrenal Cortex

+ +

Adrenal Medulla

Pheochromocytoma Benign

Pheochromocytoma Malignant

+
X X X

Islets, Pancreatic

Adenoma

+
X

Parathyroid Gland

+ +

Pituitary Gland

Lymphoma Malignant

Pars Distalis, Adenoma

+
X X X X X

Thyroid Gland

Bilateral, C-cell, 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

Lab: BAT

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

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Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

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First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
10000 ppm | DAY ON TEST | 0
7
3
1 | 0
7
0
5 | 0
7
3
0 | 0
7
3
0 | 0
7
2
9 | 0
7
2
9 | 0
6
2
1 | 0
7
2
3 | 0
6
7
0 | 0
5
1
2 | 0
6
5
4 | 0
7
2
9 | 0
7
3
0 | 0
7
3
0 | 0
4
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0 | 0
2
3
1 | 0
7
2
9 | 0
7
1
6 | 0
7
3
0 | 0
7
3
0 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
5
9
5 | 0
7
2
9 | males
(cont...) |
|---|-------------|--------------------|
| | ANIMAL ID | 0
0
2
0
1 | 0
0
2
0
2 | 0
0
2
0
3 | 0
0
2
0
4 | 0
0
2
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5 | 0
0
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6 | 0
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2
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7 | 0
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2
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8 | 0
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2
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9 | 0
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2
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2 | 0
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3 | 0
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2
1
4 | 0
0
2
1
5 | 0
0
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1
6 | 0
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7 | 0
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2
1
8 | 0
0
2
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9 | 0
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0 | 0
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2
1 | 0
0
2
2
2 | 0
0
2
2
3 | 0
0
2
2
4 | 0
0
2
2
5 | |
| | | |
| Lymphoma Malignant | | | | | | | | | X | X | | | | | | | X | | | | | | | | | | |
| Lymph Node | | | | | | | | | + | + | | | | | | | | | | | | | | | | | |
| Lumbar, Lymphoma Malignant | | | | | | | | | X | | | | | | | | | | | | | | | | | | |
| Mediastinal, Lymphoma Malignant | | | | | | | | | X | X | | | | | | | | | | | | | | | | | |
| Renal, Lymphoma Malignant | | | | | | | | | X | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | | + |
| Lymphoma Malignant | | | | | | | | | X | | | | | | | | X | | | | | | | | | | |
| Lymph Node, Mesenteric | | + |
| Leukemia Mononuclear | | |
| Lymphoma Malignant | | | | | | | | | X | | | | | | | | X | | | | | | | | | X | |
| Spleen | | + |
| Hemangiosarcoma | | |
| Leukemia, Erythrocyte | | | X | |
| Lymphoma Malignant | | | | | | | | | X | | | | | | | | X | | | | | | | | | | |
| Thymus | | + | + | + | + | + | M | + |
| Lymphoma Malignant | | | | | | | | X | X | X | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | |
|-----------------------------------|--|
| Mammary Gland | + | |
| Fibroadenoma | |
| Skin | + | |
| Squamous Cell Papilloma | |
| Subcutaneous Tissue, Fibrosarcoma | |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

| | | |
|---|-------------|--------------------|
| HARLAN SPRAGUE DAWLEY RATS
MALE
10000 ppm | DAY ON TEST | 0731 | 0735 | 0730 | 0733 | 0732 | 0739 | 0731 | 0730 | 0737 | 0731 | 0735 | 0732 | 0739 | 0730 | 0734 | 0732 | 0739 | 0737 | 0733 | 0730 | 0731 | 0733 | 0731 | 0733 | 0731 | 0739 | 0732 | males
(cont...) |
| | ANIMAL ID | 00201 | 00022 | |

| | |
|-----------------------------|---|
| Subcutaneous Tissue, Lipoma | X | |
|-----------------------------|---|

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

| |
|-----------------------------|
| Brain | + |
| Leukemia Erythrocytic |
| Lymphoma Malignant |
| Oligodendroglioma Malignant | |
| Peripheral Nerve |

RESPIRATORY SYSTEM

| |
|-----------------------|
| Lung | + |
| Leukemia, Erythrocyte | |
| Lymphoma Malignant |
| Nose | + |
| Lymphoma Malignant |
| Osteosarcoma |
| Pleura |
| Trachea | + |

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

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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

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Dibutyl Phthalate

CAS Number: 84-74-2

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Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| DAY ON TEST | | 0731 | 0730 | 0730 | 0732 | 0739 | 0621 | 0720 | 0637 | 0512 | 0654 | 0729 | 0730 | 0730 | 0400 | 0231 | 0729 | 0716 | 0730 | 0730 | 0731 | 0731 | 0731 | 0595 | 0729 | males
(cont...) |
|---|--|--------------------|
| | | 0731 | 0730 | 0730 | 0732 | 0739 | 0621 | 0720 | 0637 | 0512 | 0654 | 0729 | 0730 | 0730 | 0400 | 0231 | 0729 | 0716 | 0730 | 0730 | 0731 | 0731 | 0731 | 0595 | 0729 | |
| ANIMAL ID | | 00201 | 00202 | 00203 | 00204 | 00205 | 00206 | 00207 | 00208 | 00209 | 00211 | 00212 | 00213 | 00214 | 00215 | 00216 | 00217 | 00218 | 00219 | 00220 | 00221 | 00222 | 00223 | 00224 | 00225 | males
(cont...) |
| | | 0021 | 0022 | 0023 | 0024 | 0025 | 0026 | 0027 | 0028 | 0029 | 0021 | 0021 | 0022 | 0023 | 0024 | 0025 | 0026 | 0027 | 0028 | 0029 | 0020 | 0021 | 0022 | 0023 | 0024 | |
| HARLAN SPRAGUE DAWLEY RATS MALE 10000 ppm | | |

SPECIAL SENSES SYSTEM

| |
|--------------------|
| Eye | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| Harderian Gland | + |
| Zymbal's Gland |
| Carcinoma |

URINARY SYSTEM

| |
|-----------------------|
| Kidney | + |
| Leukemia, Erythrocyte | |
| Lymphoma Malignant |
| Nephroblastoma |
| Ureter |
| Urinary Bladder | + |

SYSTEMIC LESIONS

| |
|-----------------------|
| Multiple Organ | + |
| Leukemia |
| Leukemia Erythrocytic | |
| Leukemia Mononuclear | |
| 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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

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P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

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First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
10000 ppm | | DAY ON TEST | | 0 | * TOTALS |
|---|--|-------------|--|----------|
| | | ANIMAL ID | | 2 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 1 | 7 | 7 | 7 | 7 | 7 | 0 | 7 | 7 | 4 | | | | |
| | | | | 7 | 0 | 3 | 8 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 1 | 8 | 3 | 2 | 4 | 3 | 3 | 2 | 2 | 5 | 2 | 3 | 9 | | |
| | | | | 5 | 1 | 0 | 4 | 9 | 9 | 9 | 0 | 0 | 1 | 1 | 9 | 9 | 4 | 1 | 9 | 1 | 0 | 0 | 9 | 9 | 7 | 9 | 0 | 5 | | |
| | | | | 0 | |
| | | | | 0 | |
| | | | | 2 | |
| | | | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | |
| | | | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | |

ALIMENTARY SYSTEM

| | |
|---------------------------|----|
| Esophagus | + | 50 |
| Intestine Large, Cecum | + | 50 |
| Intestine Large, Colon | + | 50 |
| Intestine Large, Rectum | + | 50 |
| Intestine Small, Duodenum | + | 50 |
| Intestine Small, Ileum | + | 50 |
| Intestine Small, Jejunum | + | 50 |
| Liver | + | 50 |
| Cholangiocarcinoma | 1 |
| Leukemia, Erythrocyte | 1 |
| Lymphoma Malignant | 3 |
| Mesentery | | | | | | | | | | | + | | | | | | | | | | | | | | | | | 2 |
| Pancreas | + | 49 |
| Acinus, Adenoma | X | | 8 |
| Acinus, Adenoma, Multiple | | | | | | X | | | | | | | | | | X | | | | | | | | | | | | 2 |
| Salivary Glands | + | 50 |
| Stomach, Forestomach | + | 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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

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Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| DAY ON TEST | | 0 | | |
|------------------------------------|--|----------|
| | | 2 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 1 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | 4 |
| HARLAN SPRAGUE DAWLEY RATS
MALE | | 7 | 0 | 3 | 8 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 1 | 8 | 3 | 2 | 4 | 3 | 3 | 2 | 2 | 5 | 2 | 3 | 7 | | |
| | | 5 | 1 | 0 | 4 | 9 | 9 | 9 | 0 | 0 | 1 | 1 | 9 | 9 | 4 | 1 | 9 | 1 | 0 | 0 | 9 | 9 | 7 | 9 | 0 | | 5 |
| 10000 ppm | | 0 | | |
| | | 0 | | 0 |
| ANIMAL ID | | 2 | | |
| | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | 5 |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | * TOTALS |

Stomach, Glandular
Lymphoma Malignant

+ +

50
1

CARDIOVASCULAR SYSTEM

Blood Vessel

+ +

50

Heart

+ +

50

Lymphoma Malignant

1

Myocardium, Schwannoma Malignant

1

ENDOCRINE SYSTEM

Adrenal Cortex

+ +

50

Adrenal Medulla

+ +

50

Pheochromocytoma Benign

3

Pheochromocytoma Malignant

X

1

Islets, Pancreatic

+ +

50

Adenoma

X

2

Parathyroid Gland

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

47

Pituitary Gland

+ +

50

Lymphoma Malignant

1

Pars Distalis, Adenoma

X

X

6

Thyroid Gland

+ +

50

Bilateral, C-cell, 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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
10000 ppm | DAY ON TEST | | 0
2
7
5 | 0
7
0
1 | 0
7
3
0 | 0
6
8
4 | 0
7
2
9 | 0
7
2
9 | 0
7
2
9 | 0
7
3
0 | 0
7
3
0 | 0
7
3
1 | 0
7
3
1 | 0
7
2
9 | 0
5
1
9 | 0
6
8
4 | 0
7
3
1 | 0
7
2
9 | 0
1
4
1 | 0
7
3
0 | 0
7
3
0 | 0
7
2
9 | 0
7
2
9 | 0
0
5
7 | 0
7
2
9 | 0
7
3
0 | 0
4
9
5 | * TOTALS | | |
|---|-------------|--|------------------|----------|--|--|
| | ANIMAL ID | | 0
2
2
6 | 0
0
2
2
7 | 0
0
2
2
8 | 0
0
2
2
9 | 0
0
2
2
0 | 0
0
2
2
1 | 0
0
2
2
2 | 0
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2
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3 | 0
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3 | 0
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4 | 0
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4 | 0
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4 | 0
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2
4 | 0
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4 | 0
0
2
2
4 | 0
0
2
2
4 | 0
0
2
2
5 | 0
0
2
2
0 | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| C-cell, Adenoma | | | X | | | | | X | | | | | X | | | | | X | | | X | | | 8 | | | | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | |
|-----------------------------|----|
| Epididymis | + | 50 |
| Lymphoma Malignant | 1 |
| Preputial Gland | + | 50 |
| Lymphoma Malignant | 2 |
| Prostate | + | 50 |
| Lymphoma Malignant | 1 |
| Seminal Vesicle | + | M | + | + | + | | 49 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | X | | | | | | | | 1 |
| Testis | + | 50 |
| Granulosa Cell Tumor Benign | | | | | | | | | | | | X | | | | | | | | | | | | | | | 1 |
| Leukemia, Erythrocyte | 1 |
| Lymphoma Malignant | 2 |
| Interstitial Cell, Adenoma | | | | | | X | | | | | | | | | | | | | | | | | | X | | | 5 |

HEMATOPOIETIC SYSTEM

| | |
|-----------------------|-----------|
| Bone Marrow | + | 50 |
| Leukemia, Erythrocyte | | 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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
10000 ppm | DAY ON TEST | 0
2
7
5 | 0
7
0
1 | 0
7
3
0 | 0
6
8
4 | 0
7
2
9 | 0
7
2
9 | 0
7
2
9 | 0
7
3
0 | 0
7
3
0 | 0
7
3
1 | 0
7
2
1 | 0
5
1
9 | 0
6
8
4 | 0
7
3
1 | 0
7
2
9 | 0
1
4
1 | 0
7
3
0 | 0
7
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7
2
9 | 0
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4
9
5 | * TOTALS | | |
|---|-------------|------------------|----------|----|--|
| | ANIMAL ID | 0
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4 | 0
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4 | 0
0
2
2
4 | 0
0
2
2
4 | 0
0
2
2
4 | 0
0
2
2
5 | | | | |
| | | | | | |
| Lymphoma Malignant | | | 3 | | |
| Lymph Node | | | 2 | | |
| Lumbar, Lymphoma Malignant | | | 1 | | |
| Mediastinal, Lymphoma Malignant | | | 2 | | |
| Renal, Lymphoma Malignant | | | 1 | | |
| Lymph Node, Mandibular | | | + | + | 50 | |
| Lymphoma Malignant | | | 2 | | |
| Lymph Node, Mesenteric | | | + | + | 50 | |
| Leukemia Mononuclear | | | 1 | | |
| Lymphoma Malignant | | | 2 | | |
| Spleen | | | + | + | 50 | |
| Hemangiosarcoma | | | X | | 1 | | |
| Leukemia, Erythrocyte | | | 1 | | |
| Lymphoma Malignant | | | 2 | | |
| Thymus | | | + | + | 49 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | X | | | | | | | 4 | | |
| INTEGUMENTARY SYSTEM | | | | | |
| Mammary Gland | | | + | + | 50 | |
| Fibroadenoma | | | | | | | | | | | | | | | | | | | | | X | | | | | 3 | | |
| Skin | | | + | + | 50 | |
| Squamous Cell Papilloma | | | | | | X | | | | | | | | | | | | X | | | | | | | | 2 | | |
| Subcutaneous Tissue, Fibrosarcoma | | | 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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
MALE
10000 ppm | DAY ON TEST | | | * TOTALS |
|---|-----------------------|--|----------|
| | 0
2
7
5 | 0
7
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1 | 0
7
3
0 | 0
6
8
4 | 0
7
2
9 | 0
7
2
9 | 0
7
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9 | 0
7
3
0 | 0
7
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0 | 0
7
3
1 | 0
7
3
1 | 0
5
1
9 | 0
6
8
4 | 0
7
3
1 | 0
7
2
9 | 0
1
4
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7
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0 | 0
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9 | 0
7
2
9 | 0
0
5
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7
2
9 | 0
7
3
0 | 0
4
9
5 | | | | |
| | ANIMAL ID | | | |
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9 | 0
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8 | 0
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4
9 | 0
0
2
5
0 | | |

Subcutaneous Tissue, Lipoma

2

MUSCULOSKELETAL SYSTEM

Bone

+ 50

Skeletal Muscle

1

NERVOUS SYSTEM

Brain

+ 50

Leukemia Erythrocytic

1

Lymphoma Malignant

1

Oligodendroglioma Malignant

1

Peripheral Nerve

+ 2

RESPIRATORY SYSTEM

Lung

+ 50

Leukemia, Erythrocyte

1

Lymphoma Malignant

3

Nose

+ 50

Lymphoma Malignant

1

Osteosarcoma

X

1

Pleura

+

1

Trachea

+ 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

Lab: BAT

| | | | |
|---|-------------|-------------|----------|
| HARLAN SPRAGUE DAWLEY RATS
MALE
10000 ppm | DAY ON TEST | 0
2
5 | 0
7
1 | 0
7
0 | 0
6
4 | 0
7
9 | 0
7
9 | 0
7
9 | 0
7
3 | 0
7
0 | 0
7
3 | 0
7
1 | 0
7
9 | 0
5
9 | 0
6
4 | 0
7
1 | 0
7
9 | 0
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7
3 | 0
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7 | 0
7
9 | 0
7
3 | 0
4
5 | * TOTALS |
| | ANIMAL ID | 0
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9 | 0
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2 | 0
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3 | 0
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4 | 0
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5 | 0
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3
6 | 0
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2
3
7 | 0
0
2
3
8 | 0
0
2
3
9 | 0
0
2
4
0 | 0
0
2
4
1 | 0
0
2
4
2 | 0
0
2
4
3 | 0
0
2
4
4 | 0
0
2
4
5 | 0
0
2
4
6 | 0
0
2
4
7 | 0
0
2
4
8 | 0
0
2
4
9 | | |
| | | | |

Zymbal's Gland Carcinoma

Urinary Bladder

Multiple Organ
Leukemia
Leukemia Erythrocytic
Leukemia Mononuclear
Lymphoma Malignant

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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

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First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

*** END OF MALE DATA ***

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

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

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Dibutyl Phthalate

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Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0 ppm | | DAY ON TEST | | | females
(cont...) |
|---|--|------------------|-----------------------|--|----------------------|
| | | 0
6
4
6 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
2 | 0
7
1
5 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | 0
5
9
1 | 0
7
3
2 | 0
7
3
2 | 0
7
3
0 | 0
6
5
9 | 0
7
3
0 | 0
6
2
4 | 0
3
5
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
0 | 0
6
9
6 | 0
3
5
4 | 0
6
3
0 | 0
7
3
2 | | | |
| | | ANIMAL ID | 0
0
2
5
1 | 0
0
2
5
2 | 0
0
2
5
3 | 0
0
2
5
4 | 0
0
2
5
5 | 0
0
2
5
6 | 0
0
2
5
7 | 0
0
2
5
8 | 0
0
2
5
9 | 0
0
2
6
0 | 0
0
2
6
1 | 0
0
2
6
2 | 0
0
2
6
3 | 0
0
2
6
4 | 0
0
2
6
5 | 0
0
2
6
6 | 0
0
2
6
7 | 0
0
2
6
8 | 0
0
2
6
9 | 0
0
2
7
0 | 0
0
2
7
1 | 0
0
2
7
2 | 0
0
2
7
3 | 0
0
2
7
4 | 0
0
2
7
5 | | |

ALIMENTARY SYSTEM

| |
|------------------------------------|
| Esophagus | + |
| Intestine Large, Cecum | + | + | + | + | + | M | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + |
| Intestine Large, Rectum | + |
| Intestine Small, Duodenum | + |
| Intestine Small, Ileum | + |
| Intestine Small, Jejunum | + |
| Liver | + |
| Adenocarcinoma, Metastatic, Uterus | |
| Leukemia Granulocytic |
| Pancreas | + |
| Adenocarcinoma, Metastatic, Uterus | |
| Lymphoma Malignant |
| Salivary Glands | + |
| Stomach, Forestomach | + |
| Stomach, Glandular | + |

* .. Total animals with tissue examined microscopically; 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: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0 ppm | | DAY ON TEST | | | | females
(cont...) |
|---|--|-----------------------|--|--|----------------------|
| | | 0
6
4
6 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
2 | 0
7
1
5 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | 0
5
9
1 | 0
7
3
2 | 0
7
3
2 | 0
7
3
0 | 0
6
5
9 | 0
7
3
0 | 0
6
2
4 | 0
3
5
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
0 | 0
6
9
6 | 0
3
5
4 | 0
6
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0 | 0
7
3
2 | | | |
| ANIMAL ID | | 0
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6 | 0
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7 | 0
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2
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8 | 0
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2
5
9 | 0
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2
6
0 | 0
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2
6
1 | 0
0
2
6
2 | 0
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2
6
3 | 0
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4 | 0
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6
5 | 0
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6 | 0
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2
6
7 | 0
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6
8 | 0
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6
9 | 0
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7
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0
2
7
1 | 0
0
2
7
2 | 0
0
2
7
3 | 0
0
2
7
4 | 0
0
2
7
5 | | | |

CARDIOVASCULAR SYSTEM

Blood Vessel

+ +

Heart

+ +

ENDOCRINE SYSTEM

Adrenal Cortex

+ +

Adrenal Medulla

+ +

Islets, Pancreatic
Adenoma

+ +

Parathyroid Gland

+ M + +

Pituitary Gland
Pars Distalis, Adenoma
Pars Distalis, Carcinoma+ + + + + X + + + + + + + + + + X X X X
XThyroid Gland
C-cell, Adenoma
C-cell, Carcinoma+ + + + + X + + + + X X X X
X

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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0 ppm | DAY ON TEST | 0
6
4
6 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
2 | 0
7
1
5 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | 0
5
9
1 | 0
7
3
2 | 0
7
3
2 | 0
6
5
0 | 0
7
3
0 | 0
6
2
4 | 0
3
5
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
0 | 0
6
9
6 | 0
3
5
4 | 0
6
3
0 | 0
7
3
2 | females
(cont...) | |
|---|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------|----------------------------|
| | ANIMAL ID | 0
0
2
5
1 | 0
0
2
5
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2
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3 | 0
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5
4 | 0
0
2
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6 | 0
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7 | 0
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5
8 | 0
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2
5
9 | 0
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2
2
6
0 | 0
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2
2
6
1 | 0
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6
2 | 0
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2
6
3 | 0
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6
4 | 0
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6
5 | 0
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6
6 | 0
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6
7 | 0
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8 | 0
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9 | 0
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7
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7
1 | 0
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2
2
7
2 | 0
0
2
2
7
3 | 0
0
2
2
7
4 | | 0
0
2
2
7
5 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Ovary | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyp Stromal | | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma Stromal | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Polyp, Glandular | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Granulocytic | | | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymph Node, Mesenteric | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Spleen | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Granulocytic | | | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0 ppm | DAY ON TEST | 0
6
4
6 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
2 | 0
7
1
5 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | 0
5
9
1 | 0
7
3
2 | 0
7
3
2 | 0
7
3
0 | 0
6
5
9 | 0
7
3
0 | 0
6
2
4 | 0
3
5
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
0 | 0
6
9
6 | 0
3
5
4 | 0
6
3
0 | 0
7
3
2 | females
(cont...) | |
|---|-------------|----------------------|--|
| | ANIMAL ID | 0
0
2
5
1 | 0
0
2
5
2 | 0
0
2
5
3 | 0
0
2
5
4 | 0
0
2
5
5 | 0
0
2
5
6 | 0
0
2
5
7 | 0
0
2
5
8 | 0
0
2
5
9 | 0
0
2
6
0 | 0
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2
6
1 | 0
0
2
6
2 | 0
0
2
6
3 | 0
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4 | 0
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5 | 0
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6 | 0
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6
7 | 0
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6
8 | 0
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6
9 | 0
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7
0 | 0
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7
1 | 0
0
2
7
2 | 0
0
2
7
3 | 0
0
2
7
4 | 0
0
2
7
5 | | |
| | | | |
| Mammary Gland | | + | | |
| Adenocarcinoma | | | | | | X | | | | | X | | | X | | | | | | | | | | | | | | |
| Fibroadenoma | | X | | | | X | X | X | | | | X | X | | X | X | | X | | | X | X | | | | X | | |
| Fibroadenoma, Multiple | | | | X | | | | | X | X | | | | | | | | | | X | | | X | | | | | |
| Skin | | + | | |
| Subcutaneous Tissue, Fibrous Histiocytoma | | | |
| Subcutaneous Tissue, Schwannoma Malignant | | | |
| MUSCULOSKELETAL SYSTEM | | | |
| Bone | | + | |
| NERVOUS SYSTEM | | | |
| Brain | | + | |
| Glioma Malignant | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| RESPIRATORY SYSTEM | | | |
| Lung | | + | |
| Neuroendocrine Tumor, Malignant, Metastatic, Uncertain Primary Site | | | | X | | |
| Nose | | + | |
| Trachea | | + | |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0 ppm | DAY ON TEST | 0
6
4
6 | 0
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5 | 0
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2 | 0
5
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1 | 0
7
3
2 | 0
7
3
2 | 0
7
3
0 | 0
6
5
9 | 0
7
3
0 | 0
6
2
4 | 0
3
5
1 | 0
7
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1 | 0
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0 | 0
6
9
6 | 0
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5
4 | 0
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3
0 | 0
7
3
2 | females
(cont...) |
|---|-------------|----------------------|
| | ANIMAL ID | 0
0
2
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1 | 0
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3 | 0
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4 | 0
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9 | 0
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2 | 0
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3 | 0
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4 | 0
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1 | 0
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2
7
2 | 0
0
2
7
3 | 0
0
2
7
4 | 0
0
2
7
5 | |
| | | |
| Eye | | + |
| Harderian Gland
Leukemia Granulocytic | | + |
| | | |
| Kidney
Leukemia Granulocytic | | + |
| Urinary Bladder
Lymphoma Malignant | | + |
| | | |
| Multiple Organ
Leukemia Granulocytic
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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0 ppm | DAY ON TEST | 0
6
8
0 | 0
7
3
2 | 0
7
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2 | 0
6
8
5 | 0
6
4
0 | 0
6
6
2 | 0
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1 | 0
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2 | 0
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2 | 0
5
9
4 | 0
6
6
9 | 0
5
3
5 | 0
5
6
4 | 0
7
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0 | 0
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4
4 | 0
7
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1 | 0
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2 | 0
5
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8 | 0
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3
2 | 0
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3
2 | 0
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0 | 0
7
3
1 | * TOTALS |
|---|-------------|----------|
| | ANIMAL ID | 0
0
2
7
6 | 0
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7 | 0
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8 | 0
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9 | 0
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7 | 0
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9
8 | 0
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9 | 0
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0 | |

ALIMENTARY SYSTEM

| | |
|------------------------------------|----|
| Esophagus | + | 50 |
| Intestine Large, Cecum | + | 48 |
| Intestine Large, Colon | + | 50 |
| Intestine Large, Rectum | + | 50 |
| Intestine Small, Duodenum | + | 50 |
| Intestine Small, Ileum | + | 50 |
| Intestine Small, Jejunum | + | 50 |
| Liver | + | 50 |
| Adenocarcinoma, Metastatic, Uterus | | 1 |
| Leukemia Granulocytic | 1 |
| Pancreas | + | 50 |
| Adenocarcinoma, Metastatic, Uterus | | 1 |
| Lymphoma Malignant | 1 |
| Salivary Glands | + | M | + | + | + | + | + | 49 |
| Stomach, Forestomach | + | 50 |
| Stomach, Glandular | + | 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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0 ppm | DAY ON TEST | 0
6
8
0 | 0
7
3
2 | 0
7
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2 | 0
6
8
5 | 0
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0 | 0
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2 | 0
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1 | 0
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2 | 0
5
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4 | 0
6
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9 | 0
5
3
5 | 0
5
6
4 | 0
7
3
0 | 0
3
4
4 | 0
7
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1 | 0
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2 | 0
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8 | 0
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2 | 0
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2 | 0
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3
0 | 0
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3
1 | * TOTALS |
|---|-------------|----------|
| | ANIMAL ID | 0
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6 | 0
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3 | 0
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4 | 0
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5 | 0
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6 | 0
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7 | 0
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6 | 0
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2
9
7 | 0
0
2
9
8 | 0
0
2
9
9 | 0
0
2
9
0 | |

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

| | |
|-------------------------------|---------|
| Adrenal Cortex | + | 50 |
| Adrenal Medulla | + | 50 |
| Islets, Pancreatic
Adenoma | + | 50
1 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | M | + | M | + | M | + | + | + | + | + | + | 45 |
| Pituitary Gland | + | 50 |
| Pars Distalis, Adenoma | | X | X | X | | | X | | | | | X | | | | | X | | | | X | | | | | | | | | 12 |
| Pars Distalis, Carcinoma | 1 |
| Thyroid Gland | + | 50 |
| C-cell, Adenoma | | X | | | | X | X | | | | | | | X | | | X | | X | | | | | | X | | | | | 12 |
| C-cell, Carcinoma | 1 |

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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0 ppm | DAY ON TEST | 0
6
8
0 | 0
7
3
2 | 0
7
3
2 | 0
6
8
5 | 0
6
4
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6
6
2 | 0
7
3
1 | 0
7
3
2 | 0
7
3
2 | 0
5
9
4 | 0
6
6
9 | 0
5
3
5 | 0
5
6
4 | 0
7
3
0 | 0
3
4
4 | 0
7
3
1 | 0
7
3
1 | 0
7
2
5 | 0
7
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1 | 0
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0
2 | 0
5
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8 | 0
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2 | 0
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3
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3
0 | 0
7
3
1 | * TOTALS |
|---|-------------|----------|
| | ANIMAL ID | 0
0
2
7
6 | 0
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7
7 | 0
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2
7
8 | 0
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9 | 0
0
2
8
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1 | 0
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2 | 0
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3 | 0
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8
4 | 0
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2
8
5 | 0
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6 | 0
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2
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7 | 0
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8
8 | 0
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8
9 | 0
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1 | 0
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9
2 | 0
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9
3 | 0
0
2
9
4 | 0
0
2
9
5 | 0
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2
9
6 | 0
0
2
9
7 | 0
0
2
9
8 | 0
0
2
9
9 | 0
0
3
0
0 | |
| | | |
| Clitoral Gland | | + | + | + | + | M | + | 49 |
| Ovary | | + | 50 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | X | | | | | | | | 1 |
| Schwannoma Malignant | | | | | X | | 1 |
| Uterus | | + | 50 |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | | X | | | | | | | | 1 |
| Polyp Stromal | | X | X | | 3 |
| Sarcoma Stromal | | | X | | | | | 1 |
| Endometrium, Polyp, Glandular | | | X | | | 2 |
| HEMATOPOIETIC SYSTEM | | |
| Bone Marrow | | + | 50 |
| Leukemia Granulocytic | | | 1 |
| Lymph Node, Mandibular | | + | M | + | + | + | + | 49 |
| Lymph Node, Mesenteric | | + | 50 |
| Spleen | | + | 50 |
| Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | X | | | | | | | | 1 |
| Leukemia Granulocytic | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | X | | | | | | | | 1 |
| Thymus | | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | 49 |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0 ppm | DAY ON TEST | | * TOTALS |
|---|-------------|----------|
| | 0680 | 0732 | 0732 | 0685 | 06640 | 06621 | 07732 | 07732 | 07732 | 0594 | 0669 | 0535 | 0564 | 0730 | 0344 | 0731 | 07731 | 07725 | 0731 | 0302 | 0588 | 0732 | 0732 | 0730 | |
| ANIMAL ID | 00276 | 00027 | 00028 | 00029 | 00022 | 00022 | 00028 | 00028 | 00023 | 00028 | 00022 | 00022 | 00022 | 00022 | 00022 | 00022 | 00022 | 00022 | 00022 | 00022 | 00022 | 00022 | 00022 | 00022 | * TOTALS |
| Mammary Gland | + | + | 50 |
| Adenocarcinoma | | | | | | | | | | | | | | | X | | | | | | | | | | 4 |
| Fibroadenoma | X | | | X | X | | | | | | | | X | X | X | X | X | | | X | | | | X | 23 |
| Fibroadenoma, Multiple | | | X | | | X | X | X | X | | | | | | | | | | | X | | | | | 10 |
| Skin | + | + | 50 |
| Subcutaneous Tissue, Fibrous Histiocytoma | | | | | X | | | | | | | | | | | | | | | | | | | | 1 |
| Subcutaneous Tissue, Schwannoma Malignant | | | | | | X | | | | | | | | | | | | | | | | | | | 1 |
| MUSCULOSKELETAL SYSTEM | | |
| Bone | + | + | 50 |
| NERVOUS SYSTEM | | |
| Brain | + | + | 50 |
| Glioma Malignant | | 1 |
| RESPIRATORY SYSTEM | | |
| Lung | + | + | 50 |
| Neuroendocrine Tumor, Malignant, Metastatic, Uncertain Primary Site | | 1 |
| Nose | + | + | 50 |
| Trachea | + | + | 50 |
| SPECIAL SENSES SYSTEM | | |

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

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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

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Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0 ppm | DAY ON TEST | 0
6
8
0 | 0
7
3
2 | 0
7
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2 | 0
6
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5 | 0
6
4
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1 | 0
7
3
2 | 0
7
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2 | 0
5
9
4 | 0
6
6
9 | 0
5
3
5 | 0
5
6
4 | 0
7
3
0 | 0
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4
4 | 0
7
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1 | 0
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3
1 | * TOTALS |
|---|-------------|----------|
| | ANIMAL ID | 0
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6 | 0
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7 | 0
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2
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8 | 0
0
2
9
9 | 0
0
3
0
0 | |
| | | |
| | | |
| Eye | | + | 50 |
| Harderian Gland | | + | 50 |
| Leukemia Granulocytic | | | 1 |
| | | |
| URINARY SYSTEM | | |
| Kidney | | + | 50 |
| Leukemia Granulocytic | | | 1 |
| Urinary Bladder | | + | 50 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | X | | | | | | | | 1 |
| | | |
| SYSTEMIC LESIONS | | |
| Multiple Organ | | + | 50 |
| Leukemia Granulocytic | | | 1 |
| 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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
300 ppm | | DAY ON TEST | | | | females
(cont...) |
|---|--|-----------------------|--|--|----------------------|
| | | 0
5
1
4 | 0
7
3
2 | 0
5
6
4 | 0
7
0
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
6
7
5 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
4
0
3 | 0
4
0
0 | 0
7
3
1 | 0
6
3
0 | 0
7
3
1 | 0
7
3
1 | 0
6
3
2 | 0
7
3
1 | 0
7
3
1 | 0
6
3
2 | 0
7
3
1 | 0
7
3
1 | 0
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
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 | | | |

ALIMENTARY SYSTEM

| |
|--------------------------------------|
| Esophagus | + |
| Intestine Large, Cecum | + |
| Intestine Large, Colon | + |
| Intestine Large, Rectum | + |
| Intestine Small, Duodenum | + |
| Intestine Small, Ileum | + |
| Intestine Small, Jejunum | + |
| Liver | + |
| Hepatocellular Adenoma | | | | | | X | |
| Hepatocholangiocarcinoma |
| Lymphoma Malignant |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |
| Salivary Glands | + |
| Stomach, Forestomach | + |
| Stomach, Glandular
Leiomyosarcoma | + |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
300 ppm | | DAY ON TEST | | females
(cont...) |
|---|--|----------------------|
| | | 0
5
1
4 | 0
7
3
2 | 0
5
6
4 | 0
7
0
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
6
7
5 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
4
0
3 | 0
4
0
0 | 0
7
3
1 | 0
6
3
0 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
6
6
2 | 0
7
3
1 | 0
7
3
1 | 0
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
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3
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6 | 0
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3
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7 | 0
0
3
0
8 | 0
0
3
0
9 | 0
0
3
0
0 | 0
0
3
0
1 | 0
0
3
0
2 | 0
0
3
0
3 | 0
0
3
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4 | 0
0
3
0
5 | 0
0
3
0
6 | 0
0
3
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7 | 0
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3
0
8 | 0
0
3
0
9 | 0
0
3
0
0 | 0
0
3
0
1 | 0
0
3
0
2 | 0
0
3
0
3 | 0
0
3
0
4 | 0
0
3
0
5 | |

CARDIOVASCULAR SYSTEM

Blood Vessel

+ +

Heart

+ +

ENDOCRINE SYSTEM

Adrenal Cortex
Adenoma

+ +

Adrenal Medulla
Pheochromocytoma Benign

+ +

Islets, Pancreatic

+ +

Parathyroid Gland

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

Pituitary Gland
Pars Distalis, Adenoma+
X X X X X X X X X X X X X X X X X XThyroid Gland
C-cell, Adenoma+
X X X X X X X X X X X X X X X X X X

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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
300 ppm | | DAY ON TEST | | | | | females
(cont...) |
|---|--|-----------------------|--|--|--|----------------------|
| | | 0
5
1
4 | 0
7
3
2 | 0
5
6
4 | 0
7
0
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
6
7
5 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
4
0
3 | 0
4
0
0 | 0
7
3
1 | 0
6
1
0 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
6
6
2 | 0
7
3
1 | 0
7
3
1 | 0
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
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6 | 0
0
3
0
7 | 0
0
3
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8 | 0
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3
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9 | 0
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3
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0 | 0
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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
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7 | 0
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8 | 0
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9 | 0
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0 | 0
0
3
0
1 | 0
0
3
0
2 | 0
0
3
0
3 | 0
0
3
0
4 | 0
0
3
0
5 | | | | |

Clitoral Gland

+ +

Ovary

+ +

Uterus

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

Polyp Stromal

X

X

X

Cervix, Schwannoma Malignant

X

HEMATOPOIETIC SYSTEM

Bone Marrow

+ +

Lymphoma Malignant

Lymph Node, Mandibular

+ +

Lymph Node, Mesenteric

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

Spleen

+ +

Lymphoma Malignant

Thymus

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

INTEGUMENTARY SYSTEM

Mammary Gland

+ +

Adenocarcinoma

Adenoma

Fibroadenoma

X X

Fibroadenoma, Multiple

Myoepithelioma

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

Experiment Number: 10987 - 01

Test Type: Chronic PN

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Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

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Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
300 ppm | DAY ON TEST | 0
5
1
4 | 0
7
3
2 | 0
5
6
4 | 0
7
0
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
6
7
5 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
4
0
3 | 0
4
0
0 | 0
7
3
1 | 0
6
1
0 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
6
6
2 | 0
7
3
1 | 0
7
3
1 | 0
7
3
2 | females
(cont...) | |
|---|-------------|----------------------|------------------|
| | ANIMAL ID | 0
3
0
1 | 0
0
3
2 | 0
0
3
3 | 0
0
3
0 | 0
0
3
0 | 0
0
3
6 | 0
0
3
7 | 0
0
3
8 | 0
0
3
9 | 0
0
3
0 | 0
0
3
1 | 0
0
3
1 | 0
0
3
1 | 0
0
3
1 | 0
0
3
1 | 0
0
3
1 | 0
0
3
1 | 0
0
3
1 | 0
0
3
2 | 0
0
3
2 | 0
0
3
2 | 0
0
3
2 | 0
0
3
3 | 0
0
3
4 | | 0
0
3
5 |
| | | | |
| Skin
Neural Crest Tumor | | + | |
| MUSCULOSKELETAL SYSTEM | | | |
| Bone | | + | |
| NERVOUS SYSTEM | | | |
| Brain | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | |
| RESPIRATORY SYSTEM | | | |
| Lung
Neural Crest Tumor, Metastatic, Skin | | + | |
| Nose | | + | |
| Trachea | | + | |
| SPECIAL SENSES SYSTEM | | | |
| Eye | | + | |
| Harderian Gland | | + | |
| Zymbal's Gland
Adenoma | | | |

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

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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

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First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
300 ppm | DAY ON TEST | 0
5
1
4 | 0
7
3
2 | 0
5
6
4 | 0
7
0
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
6
7
5 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
4
0
3 | 0
4
0
0 | 0
7
3
1 | 0
6
1
0 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
6
6
2 | 0
7
3
1 | 0
7
3
1 | 0
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
1 | 0
0
3
2
2 | 0
0
3
2
3 | 0
0
3
2
4 | | 0
0
3
2
5 |
| | Kidney | + | | + |
| | Lipoma | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Urinary Bladder | | + | |
| SYSTEMIC LESIONS | | | |
| Multiple Organ | | + | | |
| Lymphoma Malignant | | | |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
300 ppm | | | DAY ON TEST | | 0 | * TOTALS | |
|---|--|---|-------------|----------|---|
| | | | ANIMAL ID | | 7 | 5 | 7 | 7 | 7 | 2 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 4 | 7 | 7 | 7 | | |
| | | | | | 3 | 9 | 3 | 3 | 3 | 8 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 3 | 3 | 3 | 9 | 3 | 6 | 3 | 3 | 3 | | |
| | | | | | 2 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 6 | 2 | 2 | | 2 |
| | | | | | 0 | | 0 |
| | | 0 | 0 | 0 | | | |
| | | 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 | 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 | | |

ALIMENTARY SYSTEM

| | |
|---------------------------|----|
| Esophagus | + | 50 |
| Intestine Large, Cecum | + | 50 |
| Intestine Large, Colon | + | 50 |
| Intestine Large, Rectum | + | 50 |
| Intestine Small, Duodenum | + | 50 |
| Intestine Small, Ileum | + | 50 |
| Intestine Small, Jejunum | + | 50 |
| Liver | + | 50 |
| Hepatocellular Adenoma | 1 |
| Hepatocholeangioma | | | | | | | | | | | | | | X | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | X | | | | | | | | 1 |
| Pancreas | + | 49 |
| Salivary Glands | + | 50 |
| Stomach, Forestomach | + | 50 |
| Stomach, Glandular | + | 50 |
| Leiomyosarcoma | | | | | | | | | | | | | | | | | | | 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

Lab: BAT[illegible][illegible][illegible]

NONE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
300 ppm | DAY ON TEST | 0732 | 0590 | 0732 | 0733 | 0733 | 0733 | 0281 | 0733 | 0733 | 0733 | 0733 | 0492 | 0733 | 0733 | 0733 | 0733 | 0733 | 0594 | 0733 | 0466 | 0733 | 0733 | 0733 | 0733 | |
|---|-------------|----------|
| | ANIMAL ID | 00326 | 00327 | 00328 | 00329 | 00330 | 00331 | 00332 | 00333 | 00334 | 00335 | 00336 | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346 | 00347 | 00348 | 00349 | |
| | | * TOTALS |

Clitoral Gland

+ 50

Ovary

+ 50

Uterus

+ 50

Polyp Stromal

X 6

Cervix, Schwannoma Malignant

1

HEMATOPOIETIC SYSTEM

Bone Marrow

+ 50

Lymphoma Malignant

X 1

Lymph Node, Mandibular

+ 50

Lymph Node, Mesenteric

+ 49

Spleen

+ 50

Lymphoma Malignant

X 2

Thymus

+ 48

INTEGUMENTARY SYSTEM

Mammary Gland

+ 50

Adenocarcinoma

X 2

Adenoma

X 1

Fibroadenoma

X 25

Fibroadenoma, Multiple

X 9

Myoepithelioma

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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
300 ppm | DAY ON TEST | 0
7
3
2 | 0
5
9
0 | 0
7
3
2 | 0
7
3
0 | 0
7
3
0 | 0
7
2
8
1 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
4
9
4 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | 0
5
9
4 | 0
7
3
2 | 0
4
6
6 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | * TOTALS | | | |
|---|-------------|----------|-----------------------|-----------------------|-----------------------|
| | ANIMAL ID | 0
0
3
2
6 | 0
0
3
2
7 | 0
0
3
2
8 | 0
0
3
2
9 | 0
0
3
3
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8 | 0
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9 | 0
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3
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3
4
1 | 0
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4
2 | 0
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3
4
3 | 0
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3
4
4 | 0
0
3
4
5 | 0
0
3
4
6 | 0
0
3
4
7 | | 0
0
3
4
8 | 0
0
3
4
9 | 0
0
3
5
0 |
| | | | | | |
| Skin | | + | 50 | | |
| Neural Crest Tumor | | | | | | | | | | | | | | | | | | | | | X | | | | 1 | | |
| MUSCULOSKELETAL SYSTEM | | | | | |
| Bone | | + | 50 | | |
| NERVOUS SYSTEM | | | | | |
| Brain | | + | 49 | | |
| RESPIRATORY SYSTEM | | | | | |
| Lung | | + | 50 | | |
| Neural Crest Tumor, Metastatic, Skin | | | | | | | | | | | | | | | | | | | | | X | | | | 1 | | |
| Nose | | + | 50 | | |
| Trachea | | + | 50 | | |
| SPECIAL SENSES SYSTEM | | | | | |
| Eye | | + | 50 | | |
| Harderian Gland | | + | 50 | | |
| Zymbal's Gland | | | 1 | | |
| 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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
300 ppm | DAY ON TEST | 0
7
3
2 | 0
5
9
0 | 0
7
3
2 | 0
7
3
0 | 0
7
3
0 | 0
7
2
1 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
7
4
0 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | 0
5
9
4 | 0
7
3
2 | 0
4
6
6 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | | | | |
|---|-------------|-----------------------|--|
| | ANIMAL ID | 0
0
3
2
6 | 0
0
3
2
7 | 0
0
3
2
8 | 0
0
3
2
9 | 0
0
3
3
0 | 0
0
3
3
1 | 0
0
3
3
2 | 0
0
3
3
3 | 0
0
3
3
4 | 0
0
3
3
5 | 0
0
3
3
6 | 0
0
3
3
7 | 0
0
3
3
8 | 0
0
3
3
9 | 0
0
3
4
0 | 0
0
3
4
1 | 0
0
3
4
2 | 0
0
3
4
3 | 0
0
3
4
4 | 0
0
3
4
5 | 0
0
3
4
6 | 0
0
3
4
7 | 0
0
3
4
8 | 0
0
3
4
9 | 0
0
3
5
0 | |
| | | | |
| | * TOTALS | | |
| Kidney
Lipoma | + | + | 50
1 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | 49 | |
| SYSTEMIC LESIONS | | | |
| Multiple Organ
Lymphoma Malignant | + | + | 50
2 | |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1000 ppm | DAY ON TEST | 0
5
6
4 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
5 | 0
6
7
5 | 0
7
3
1 | 0
7
3
0 | 0
3
5
1 | 0
4
1
8 | 0
6
1
0 | 0
2
9
0 | 0
7
3
1 | 0
7
3
1 | 0
7
3
2 | 0
6
6
0 | 0
7
3
2 | 0
5
2
4 | 0
5
7
0 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
7
3
2 | females
(cont...) | |
|--|-------------|----------------------|-----------------------|
| | ANIMAL ID | 0
0
3
5
1 | 0
0
3
5
2 | 0
0
3
5
3 | 0
0
3
5
4 | 0
0
3
5
5 | 0
0
3
5
6 | 0
0
3
5
7 | 0
0
3
5
8 | 0
0
3
5
9 | 0
0
3
6
0 | 0
0
3
6
1 | 0
0
3
6
2 | 0
0
3
6
3 | 0
0
3
6
4 | 0
0
3
6
5 | 0
0
3
6
6 | 0
0
3
6
7 | 0
0
3
6
8 | 0
0
3
7
0 | 0
0
3
7
1 | 0
0
3
7
2 | 0
0
3
7
3 | 0
0
3
7
4 | | 0
0
3
7
5 |
| | | | |

ALIMENTARY SYSTEM

| | |
|--|---|
| Esophagus | + |
| Intestine Large, Cecum | + |
| Intestine Large, Colon | + |
| Intestine Large, Rectum | + |
| Intestine Small, Duodenum | + |
| Intestine Small, Ileum | + |
| Intestine Small, Jejunum | + |
| Liver | + |
| Hepatocellular Adenoma | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | X | |
| Pancreas | + |
| Lymphoma Malignant | | X | |
| Tubulostromal Carcinoma, Metastatic, Ovary | | | | | | | | | | | | | | | | | | | | X | | | | | | |
| Salivary Glands | + |
| Stomach, Forestomach | + |
| Lymphoma Malignant | | X | |
| Stomach, Glandular | + |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1000 ppm | DAY ON TEST | | | | | females
(cont...) |
|--|-----------------------|--|--|--|----------------------|
| | 0
5
6
4 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
6
2
5 | 0
6
7
5 | 0
7
3
1 | 0
7
3
0 | 0
3
5
1 | 0
4
1
8 | 0
6
1
0 | 0
2
9
0 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
2 | 0
6
6
0 | 0
7
3
2 | 0
5
2
4 | 0
5
7
0 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | | | | |
| | ANIMAL ID | | | | | |
| | 0
0
3
5
1 | 0
0
3
5
2 | 0
0
3
5
3 | 0
0
3
5
4 | 0
0
3
5
5 | 0
0
3
5
6 | 0
0
3
5
7 | 0
0
3
5
8 | 0
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3
5
9 | 0
0
3
6
0 | 0
0
3
6
1 | 0
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3
6
2 | 0
0
3
6
3 | 0
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3
6
4 | 0
0
3
6
5 | 0
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3
6
6 | 0
0
3
6
7 | 0
0
3
6
8 | 0
0
3
6
9 | 0
0
3
7
0 | 0
0
3
7
1 | 0
0
3
7
2 | 0
0
3
7
3 | 0
0
3
7
4 | 0
0
3
7
5 | | | | |

Lymphoma Malignant

X

CARDIOVASCULAR SYSTEM

Blood Vessel

+ +

Heart

+ +

Lymphoma Malignant

X

ENDOCRINE SYSTEM

Adrenal Cortex

+ +

Adenoma

Lymphoma Malignant

X

Adrenal Medulla

+ +

Pheochromocytoma Benign

Pheochromocytoma Malignant

Islets, Pancreatic

+ +

Adenoma

X

Parathyroid Gland

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

Pituitary Gland

+ +

Lymphoma Malignant

X

Pars Distalis, Adenoma

X X X X X X X X X X X X X X X X X X

Thyroid Gland

M +

C-cell, Adenoma

X X X X X X X X X X X X X X X X X X

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1000 ppm | DAY ON TEST | 0
5
6
4 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
6
2
5 | 0
6
7
5 | 0
7
3
1 | 0
7
3
0 | 0
3
5
1 | 0
4
4
8 | 0
6
1
0 | 0
2
9
0 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
2 | 0
6
6
0 | 0
7
3
2 | 0
5
2
4 | 0
5
7
0 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
7
3
2 | females
(cont...) |
|--|-------------|----------------------|
| | ANIMAL ID | 0
0
3
5
1 | 0
0
3
5
2 | 0
0
3
5
3 | 0
0
3
5
4 | 0
0
3
5
5 | 0
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3
5
6 | 0
0
3
5
7 | 0
0
3
5
8 | 0
0
3
5
9 | 0
0
3
6
0 | 0
0
3
6
1 | 0
0
3
6
2 | 0
0
3
6
3 | 0
0
3
6
4 | 0
0
3
6
5 | 0
0
3
6
6 | 0
0
3
6
7 | 0
0
3
6
8 | 0
0
3
7
9 | 0
0
3
7
0 | 0
0
3
7
1 | 0
0
3
7
2 | 0
0
3
7
3 | 0
0
3
7
4 | 0
0
3
7
5 | |
| | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland

+ +

Ovary

+ +

Lymphoma Malignant

X

Tubulostromal Carcinoma

X

Uterus

+ +

Polyp Stromal

X

Tubulostromal Carcinoma, Metastatic, Ovary

X

Vagina

Schwannoma Malignant

HEMATOPOIETIC SYSTEM

Bone Marrow

+ +

Lymphoma Malignant

X

Lymph Node, Mandibular

+ +

Lymph Node, Mesenteric

+ +

Lymphoma Malignant

X

Spleen

+ +

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1000 ppm | DAY ON TEST | | | | females
(cont...) |
|--|------------------|-----------------------|--|--|----------------------|
| | 0
5
6
4 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
6
2
5 | 0
6
7
5 | 0
7
3
1 | 0
7
3
0 | 0
3
5
1 | 0
4
1
8 | 0
6
1
0 | 0
2
9
0 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
2 | 0
6
3
6 | 0
7
3
2 | 0
5
2
4 | 0
5
7
0 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | | | | |
| | ANIMAL ID | 0
0
3
5
1 | 0
0
3
5
2 | 0
0
3
5
3 | 0
0
3
5
4 | 0
0
3
5
5 | 0
0
3
5
6 | 0
0
3
5
7 | 0
0
3
5
8 | 0
0
3
5
9 | 0
0
3
6
0 | 0
0
3
6
1 | 0
0
3
6
2 | 0
0
3
6
3 | 0
0
3
6
4 | 0
0
3
6
5 | 0
0
3
6
6 | 0
0
3
6
7 | 0
0
3
6
8 | 0
0
3
6
9 | 0
0
3
7
0 | 0
0
3
7
1 | 0
0
3
7
2 | 0
0
3
7
3 | 0
0
3
7
4 | 0
0
3
7
5 | | | |

Lymphoma Malignant

X

Thymus

+ +

Lymphoma Malignant

X

INTEGUMENTARY SYSTEM

Mammary Gland

+ +

Adenocarcinoma

X

Adenoma

X

Fibroadenoma

X

X

X

X

X

Fibroadenoma, Multiple

X

X

X

X

X

X

X

X

X

Skin

+ +

Subcutaneous Tissue, Fibrosarcoma

X

X

Subcutaneous Tissue, Lipoma

Subcutaneous Tissue, Neural Crest Tumor

X

MUSCULOSKELETAL SYSTEM

Bone

+ +

Skeletal Muscle

+

Sarcoma

X

NERVOUS SYSTEM

Brain

+ +

RESPIRATORY 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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1000 ppm | DAY ON TEST | 0
5
6
4 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
6
2
5 | 0
6
7
5 | 0
7
3
1 | 0
7
3
0 | 0
3
5
1 | 0
4
1
8 | 0
6
1
0 | 0
2
9
0 | 0
7
3
1 | 0
7
3
1 | 0
7
3
2 | 0
6
6
0 | 0
7
3
2 | 0
5
2
4 | 0
5
7
0 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
7
3
2 | females
(cont...) | |
|--|-------------|----------------------|-----------------------|
| | ANIMAL ID | 0
0
3
5
1 | 0
0
3
5
2 | 0
0
3
5
3 | 0
0
3
5
4 | 0
0
3
5
5 | 0
0
3
5
6 | 0
0
3
5
7 | 0
0
3
5
8 | 0
0
3
5
9 | 0
0
3
6
0 | 0
0
3
6
1 | 0
0
3
6
2 | 0
0
3
6
3 | 0
0
3
6
4 | 0
0
3
6
5 | 0
0
3
6
6 | 0
0
3
6
7 | 0
0
3
6
8 | 0
0
3
6
9 | 0
0
3
7
0 | 0
0
3
7
1 | 0
0
3
7
2 | 0
0
3
7
3 | 0
0
3
7
4 | | 0
0
3
7
5 |
| Lung
Alveolar/Bronchiolar Adenoma | | + | |
| Nose | | + | |
| Trachea | | + | |
| SPECIAL SENSES SYSTEM | | | |
| Eye | | + | |
| Harderian Gland | | + | |
| URINARY SYSTEM | | | |
| Kidney
Lymphoma Malignant
Nephroblastoma | | + | |
| Urinary Bladder | | + | |
| SYSTEMIC LESIONS | | | |
| Multiple Organ
Lymphoma Malignant | | + | |

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

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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1000 ppm | DAY ON TEST | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | 0
6
6
2 | 0
5
9
7 | 0
7
3
2 | 0
6
9
8 | 0
5
4
3 | 0
6
9
2 | 0
3
0
9 | 0
3
9
3 | 0
7
1
9 | 0
5
1
2 | 0
7
3
2 | 0
7
3
2 | 0
7
3
1 | 0
7
3
1 | 0
3
5
1 | 0
4
9
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
6
5
9 | 0
5
9
1 | * TOTALS |
|--|-------------|----------|
| | ANIMAL ID | 0
0
3
7
6 | 0
0
3
7
7 | 0
0
3
7
8 | 0
0
3
7
9 | 0
0
3
8
0 | 0
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3
8
1 | 0
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2 | 0
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3
8
3 | 0
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3
8
4 | 0
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3
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5 | 0
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6 | 0
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3
8
7 | 0
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3
8
8 | 0
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3
8
9 | 0
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3
9
0 | 0
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3
9
1 | 0
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3
9
2 | 0
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3
9
3 | 0
0
3
9
4 | 0
0
3
9
5 | 0
0
3
9
6 | 0
0
3
9
7 | 0
0
3
9
8 | 0
0
3
9
9 | 0
0
3
9
0 | |

ALIMENTARY SYSTEM

| | |
|--|----|
| Esophagus | + | 50 |
| Intestine Large, Cecum | + | 50 |
| Intestine Large, Colon | + | 50 |
| Intestine Large, Rectum | + | 50 |
| Intestine Small, Duodenum | + | 50 |
| Intestine Small, Ileum | + | 50 |
| Intestine Small, Jejunum | + | 50 |
| Liver | + | 50 |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | X | | | | | | | | | 2 |
| Lymphoma Malignant | X | | | | | | | 2 |
| Pancreas | + | 50 |
| Lymphoma Malignant | 1 |
| Tubulostromal Carcinoma, Metastatic, Ovary | | 1 |
| Salivary Glands | + | 50 |
| Stomach, Forestomach | + | 50 |
| Lymphoma Malignant | 1 |
| Stomach, Glandular | + | 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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1000 ppm | | DAY ON TEST | | 0 | * TOTALS | | | |
|--|--|-------------|--|----------|---|---|---|
| | | ANIMAL ID | | 7 | 7 | 7 | 6 | 5 | 7 | 6 | 5 | 6 | 3 | 3 | 7 | 5 | 7 | 7 | 7 | 3 | 4 | 7 | 7 | 7 | 7 | 6 | 5 | | | 9 | 1 |
| | | | | 3 | 3 | 3 | 6 | 9 | 3 | 9 | 4 | 9 | 0 | 9 | 1 | 1 | 3 | 3 | 3 | 3 | 5 | 9 | 3 | 3 | 3 | 3 | 5 | | | 9 | 1 |
| | | | | 2 | 2 | 2 | 2 | 7 | 2 | 8 | 3 | 2 | 9 | 3 | 9 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 9 | 1 |
| | | ANIMAL ID | | 0 | 0 | | |
| | | | | 0 | 0 | | |
| | | | | 3 | 4 | 0 | | |
| | | | | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | | |
| | | | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | | |

Lymphoma Malignant

1

CARDIOVASCULAR SYSTEM

Blood Vessel

+ 50

Heart

+ 50

Lymphoma Malignant

1

ENDOCRINE SYSTEM

Adrenal Cortex

+ 50

Adenoma

X

1

Lymphoma Malignant

1

Adrenal Medulla

+ 50

Pheochromocytoma Benign

X

1

Pheochromocytoma Malignant

X

1

Islets, Pancreatic

+ 50

Adenoma

1

Parathyroid Gland

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

Pituitary Gland

+ 50

Lymphoma Malignant

1

Pars Distalis, Adenoma

X X X

X X X

X

12

Thyroid Gland

+ 49

C-cell, Adenoma

X

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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1000 ppm | | DAY ON TEST | | * TOTALS |
|--|--|-------------|--|----------|
| | | 0 | 0 | | |
| | | 7 | 7 | 7 | 6 | 5 | 7 | 6 | 5 | 6 | 3 | 3 | 7 | 5 | 7 | 7 | 7 | 3 | 4 | 7 | 7 | 7 | 7 | 6 | 5 | 9 | 1 | 5 | | |
| | | 3 | 3 | 3 | 6 | 9 | 3 | 9 | 4 | 9 | 0 | 9 | 1 | 1 | 3 | 3 | 3 | 3 | 5 | 9 | 3 | 3 | 3 | 3 | 5 | 9 | 1 | 9 | | |
| ANIMAL ID | | 0 | 0 | | |
| | | 0 | 0 | | |
| | | 3 | 3 | 4 | 0 | | |
| | | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | 0 | | |
| | | * TOTALS | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland

+ 50

Ovary

+ 50

Lymphoma Malignant

1

Tubulostromal Carcinoma

1

Uterus

+ 50

Polyp Stromal

X

5

Tubulostromal Carcinoma, Metastatic, Ovary

1

Vagina

+

1

Schwannoma Malignant

X

1

HEMATOPOIETIC SYSTEM

Bone Marrow

+ 50

Lymphoma Malignant

X

2

Lymph Node, Mandibular

+ 50

Lymph Node, Mesenteric

+ 50

Lymphoma Malignant

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

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FEMALE
1000 ppm | DAY ON TEST | 0 | * TOTALS |
|--|-------------|----------|
| | | 7 | 7 | 7 | 6 | 5 | 7 | 6 | 5 | 6 | 3 | 3 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 5 | |
| | | 3 | 3 | 3 | 6 | 9 | 3 | 9 | 4 | 9 | 0 | 9 | 1 | 1 | 3 | 3 | 3 | 3 | 5 | 9 | 3 | 3 | 3 | 3 | 5 | 9 | |
| | ANIMAL ID | 2 | 2 | 2 | 2 | 7 | 2 | 8 | 3 | 2 | 9 | 3 | 9 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 9 | |
| | | 0 | |
| | | 0 | |
| | | 3 | 4 | |
| | | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| Lymphoma Malignant | | | | | | | | | | | | | | X | | | | | X | | | | | | | | 3 |
| Thymus | | + | 50 |
| Lymphoma Malignant | | 1 |
| INTEGUMENTARY SYSTEM | | |
| Mammary Gland | | + | 50 |
| Adenocarcinoma | | | | | | | | | X | | | | | | | X | | | X | | | X | | | | | 5 |
| Adenoma | | 2 |
| Fibroadenoma | | | X | | X | X | X | | | | | X | X | X | X | | X | | | | | | | | X | | 21 |
| Fibroadenoma, Multiple | | X | | X | | | | X | | | | | | | | | | | | | | | | | | | 5 |
| Skin | | + | 50 |
| Subcutaneous Tissue, Fibrosarcoma | | 2 |
| Subcutaneous Tissue, Lipoma | | X | | | 1 |
| Subcutaneous Tissue, Neural Crest Tumor | | 1 |
| MUSCULOSKELETAL SYSTEM | | |
| Bone | | + | 50 |
| Skeletal Muscle | | 1 |
| Sarcoma | | 1 |
| NERVOUS SYSTEM | | |
| Brain | | + | 50 |

* .. 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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Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1000 ppm | DAY ON TEST | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | 0
6
6
2 | 0
5
9
7 | 0
7
3
2 | 0
6
9
8 | 0
5
4
3 | 0
6
9
2 | 0
3
0
9 | 0
3
9
3 | 0
7
1
9 | 0
5
1
2 | 0
7
3
2 | 0
7
3
2 | 0
7
3
1 | 0
7
3
1 | 0
3
5
1 | 0
4
9
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
6
5
9 | 0
5
9
1 | * TOTALS |
|--|-------------|--------------|
| | ANIMAL ID | 0
0
3
7
6 | 0
0
3
7
7 | 0
0
3
7
8 | 0
0
3
7
9 | 0
0
3
8
0 | 0
0
3
8
1 | 0
0
3
8
2 | 0
0
3
8
3 | 0
0
3
8
4 | 0
0
3
8
5 | 0
0
3
8
6 | 0
0
3
8
7 | 0
0
3
8
8 | 0
0
3
8
9 | 0
0
3
9
0 | 0
0
3
9
1 | 0
0
3
9
2 | 0
0
3
9
3 | 0
0
3
9
4 | 0
0
3
9
5 | 0
0
3
9
6 | 0
0
3
9
7 | 0
0
3
9
8 | 0
0
3
9
9 | 0
0
4
0
0 | |
| | | |
| Lung
Alveolar/Bronchiolar Adenoma | | + | 50
1 |
| Nose | | + | 50 |
| Trachea | | + | 50 |
| SPECIAL SENSES SYSTEM | | |
| Eye | | + | 50 |
| Harderian Gland | | + | 50 |
| URINARY SYSTEM | | |
| Kidney
Lymphoma Malignant
Nephroblastoma | | + | 50
1
1 |
| Urinary Bladder | | + | 50 |
| SYSTEMIC LESIONS | | |
| Multiple Organ
Lymphoma Malignant | | + | 50
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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BLANK .. Not examined microscopically

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| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3000 ppm | | DAY ON TEST | | | | females
(cont...) |
|--|--|-----------------------|--|--|----------------------|
| | | 0
5
0
1 | 0
7
1
2 | 0
7
3
0 | 0
7
3
0 | 0
5
9
1 | 0
7
3
0 | 0
7
3
0 | 0
4
8
3 | 0
7
2
1 | 0
3
2
6 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
5
4
3 | 0
7
3
1 | 0
7
3
1 | 0
7
3
2 | 0
7
3
2 | 0
6
7
6 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | 0
3
8
8 | 0
7
3
2 | 0
7
3
2 | | | |
| | | 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
0
4
1
2 | 0
0
4
1
3 | 0
0
4
1
4 | 0
0
4
1
5 | 0
0
4
1
6 | 0
0
4
1
7 | 0
0
4
1
8 | 0
0
4
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 | 0
0
4
2
5 | | | |

ALIMENTARY SYSTEM

| | |
|--|---|
| Esophagus | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leiomyoma | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Leiomyosarcoma | | | | | X | |
| Liver | + |
| Cholangioma | | X | | | | | |
| Hepatocellular Carcinoma |
| Histiocytic Sarcoma | X | | | | | |
| Leiomyosarcoma, Metastatic, Intestine Small, Jejunum | | | | | X | |
| Mesentery | | + | | | | | |
| Histiocytic Sarcoma | X | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Histiocytic Sarcoma | X | | | | | |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

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FEMALE
3000 ppm | DAY ON TEST | 0
5
0
1 | 0
7
1
2 | 0
7
3
0 | 0
7
3
0 | 0
5
9
1 | 0
7
3
0 | 0
7
3
0 | 0
4
8
3 | 0
7
2
1 | 0
3
2
6 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
5
4
3 | 0
7
3
1 | 0
7
3
1 | 0
7
3
2 | 0
7
3
2 | 0
6
7
6 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | 0
3
8
8 | 0
7
3
2 | 0
7
3
2 | females
(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
0
4
1
2 | 0
0
4
1
3 | 0
0
4
1
4 | 0
0
4
1
5 | 0
0
4
1
6 | 0
0
4
1
7 | 0
0
4
1
8 | 0
0
4
1
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 | 0
0
4
2
5 | | |
| | | | |
| Salivary Glands | | + | + | + | + | + | M | + | |
| Stomach, Forestomach | | + | |
| Stomach, Glandular | | + | |
| CARDIOVASCULAR SYSTEM | | | |
| Blood Vessel | | + | |
| Heart | | + | |
| ENDOCRINE SYSTEM | | | |
| Adrenal Cortex
Adenoma | | + | |
| Adrenal Medulla | | + | |
| Islets, Pancreatic
Adenoma | | + | |
| Histiocytic Sarcoma | | | |
| Parathyroid Gland | | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | |
| Pituitary Gland
Pars Distalis, Adenoma | | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | X | + | X | + | X | + | + | + | + | + | |
| Thyroid Gland
C-cell, Adenoma | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | X | + | + | + | + | + | |

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+ .. Tissue examined microscopically
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| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3000 ppm | | DAY ON TEST | | females
(cont...) |
|--|--|------------------|----------------------|
| | | 0
5
0
1 | 0
7
1
2 | 0
7
3
0 | 0
7
3
0 | 0
5
9
1 | 0
7
3
0 | 0
7
3
0 | 0
4
8
3 | 0
7
2
1 | 0
3
2
6 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
5
4
3 | 0
7
3
1 | 0
7
3
1 | 0
7
3
2 | 0
6
7
2 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | 0
3
8
8 | 0
7
3
2 | 0
7
3
2 | | | |
| | | 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
0
4
1
2 | 0
0
4
1
3 | 0
0
4
1
4 | 0
0
4
1
5 | 0
0
4
1
6 | 0
0
4
1
7 | 0
0
4
1
8 | 0
0
4
1
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 | 0
0
4
2
5 | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland

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

Ovary

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

Histiocytic Sarcoma

X

Uterus

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

Histiocytic Sarcoma

Polyp Stromal

X X

X

X

Sarcoma Stromal

X

Schwannoma Malignant

X

Squamous Cell Carcinoma, Metastatic, Vagina

X

Squamous Cell Papilloma

X

Vagina

+

+

Schwannoma Malignant

X

Squamous Cell Carcinoma

X

HEMATOPOIETIC SYSTEM

Bone Marrow

+ +

Lymph Node

+

+

Histiocytic Sarcoma

X

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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FEMALE
3000 ppm | DAY ON TEST | 0
5
0
1 | 0
7
1
2 | 0
7
3
0 | 0
7
3
0 | 0
5
9
1 | 0
7
3
0 | 0
7
3
0 | 0
4
8
3 | 0
7
2
1 | 0
3
2
6 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
5
4
3 | 0
7
3
1 | 0
7
3
1 | 0
7
3
2 | 0
7
3
2 | 0
6
7
6 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | 0
3
8
8 | 0
7
3
2 | 0
7
3
2 | females
(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
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
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 | | | |
| | | | | |
| Lumbar, Squamous Cell Carcinoma,
Metastatic, Vagina | | X | | | |
| Lymph Node, Mandibular | | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymph Node, Mesenteric
Histiocytic Sarcoma
Schwannoma Malignant, Metastatic, Uterus | | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | |
| Spleen
Histiocytic Sarcoma | | + | X | + | + | + | + | + | |
| Thymus | | + | M | + | + | |
| INTEGUMENTARY SYSTEM | | | | |
| Mammary Gland
Adenocarcinoma
Adenoma
Fibroadenoma
Fibroadenoma, Multiple | | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | |
| | | | | |
| | | | | |
| Skin
Subcutaneous Tissue, Fibrosarcoma | | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| MUSCULOSKELETAL SYSTEM | | | | |
| Bone | | + | + | |

NERVOUS SYSTEM

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+ .. Tissue examined microscopically
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I .. Insufficient tissue

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| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3000 ppm | DAY ON TEST | 0
5
0
1 | 0
7
1
2 | 0
7
3
0 | 0
7
3
0 | 0
5
9
1 | 0
7
3
0 | 0
7
3
0 | 0
4
8
3 | 0
7
2
1 | 0
3
2
6 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
5
4
3 | 0
7
3
1 | 0
7
3
1 | 0
7
3
2 | 0
7
3
2 | 0
6
7
6 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | 0
3
8
8 | 0
7
3
2 | 0
7
3
2 | females
(cont...) |
|--|-------------|----------------------|
| | ANIMAL ID | 0
0
4
0
1 | 0
0
4
0
2 | 0
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4
0
3 | 0
0
4
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4 | 0
0
4
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5 | 0
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4
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6 | 0
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4
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7 | 0
0
4
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8 | 0
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4
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9 | 0
0
4
1
0 | 0
0
4
1
1 | 0
0
4
1
2 | 0
0
4
1
3 | 0
0
4
1
4 | 0
0
4
1
5 | 0
0
4
1
6 | 0
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4
1
7 | 0
0
4
1
8 | 0
0
4
1
9 | 0
0
4
2
0 | 0
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4
2
1 | 0
0
4
2
2 | 0
0
4
2
3 | 0
0
4
2
4 | 0
0
4
2
5 | |
| | | |
| Brain
Glioma Malignant | | + | |
| RESPIRATORY SYSTEM | | |
| Lung
Histiocytic Sarcoma | | + | |
| Nose | | + | |
| Trachea | | + | |
| SPECIAL SENSES SYSTEM | | |
| Eye | | + | |
| Harderian Gland | | + | |
| URINARY SYSTEM | | |
| Kidney
Histiocytic Sarcoma | | + | |
| Urinary Bladder | | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| SYSTEMIC LESIONS | | |
| Multiple Organ
Histiocytic Sarcoma | | + | |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Lab: BAT[illegible]

ALIMENTARY SYSTEM

[illegible]

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3000 ppm | DAY ON TEST | 0
7
3
2 | 0
7
3
2 | 0
5
0
1 | 0
3
6
1 | 0
7
3
2 | 0
6
4
6 | 0
5
3
3 | 0
7
3
1 | 0
6
7
6 | 0
6
8
3 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
2 | 0
7
3
2 | 0
6
3
1 | 0
6
2
9 | 0
7
3
0 | 0
7
3
0 | 0
6
1
0 | 0
7
3
0 | 0
7
3
2 | 0
7
3
2 | * TOTALS | | |
|--|-------------|----------|--------------|--|
| | 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
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1 | 0
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2 | 0
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4
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3 | 0
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4 | 0
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5 | 0
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7 | 0
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8 | 0
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9 | 0
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5 | 0
0
4
4
6 | 0
0
4
4
7 | 0
0
4
4
8 | 0
0
4
4
9 | | | |
| | | | | |
| Salivary Glands | | + | 49 | |
| Stomach, Forestomach | | + | 50 | |
| Stomach, Glandular | | + | 50 | |
| CARDIOVASCULAR SYSTEM | | | | |
| Blood Vessel | | + | 50 | |
| Heart | | + | 50 | |
| ENDOCRINE SYSTEM | | | | |
| Adrenal Cortex
Adenoma | | + | 50
1 | |
| Adrenal Medulla | | + | 50 | |
| Islets, Pancreatic
Adenoma
Histiocytic Sarcoma | | + | 50
1
1 | |
| Parathyroid Gland | | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Pituitary Gland
Pars Distalis, Adenoma | | + | 50
9 | |
| Thyroid Gland
C-cell, Adenoma | | + | 50
9 | |

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

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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

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First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3000 ppm | | DAY ON TEST | | | | | |
|--|--|-----------------------|--|--|--|--|
| | | 0
7
3
2 | 0
7
3
2 | 0
5
0
1 | 0
3
6
1 | 0
7
3
2 | 0
6
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6 | 0
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3 | 0
7
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1 | 0
6
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6 | 0
7
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1 | 0
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0 | 0
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0 | 0
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2 | 0
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| ANIMAL ID | | 0
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7 | 0
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8 | 0
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4
9 | 0
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5
0 | | | | |
| | | * TOTALS | | | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | |
|---|----|
| Clitoral Gland | + | 49 |
| Ovary | + | 49 |
| Histiocytic Sarcoma | 1 |
| Uterus | + | 49 |
| Histiocytic Sarcoma | 1 |
| Polyp Stromal | 5 |
| Sarcoma Stromal | 1 |
| Schwannoma Malignant | 2 |
| Squamous Cell Carcinoma, Metastatic, Vagina | | 1 |
| Squamous Cell Papilloma | 1 |
| Vagina | 2 |
| Schwannoma Malignant | 1 |
| Squamous Cell Carcinoma | 1 |

HEMATOPOIETIC SYSTEM

| | |
|---------------------|----|
| Bone Marrow | + | 50 |
| Lymph Node | 5 |
| Histiocytic Sarcoma | | 1 |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

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First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3000 ppm | DAY ON TEST | 0
7
3
2 | 0
7
3
2 | 0
5
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1 | 0
3
6
1 | 0
7
3
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6
4
6 | 0
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3 | 0
7
3
1 | 0
6
7
6 | 0
6
8
3 | 0
7
3
1 | 0
7
3
1 | 0
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7
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2 | 0
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1 | 0
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9 | 0
7
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0 | 0
7
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0 | 0
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7
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0 | 0
7
3
2 | 0
7
3
2 | * TOTALS | |
|--|-------------|----------|-----------------------|
| | ANIMAL ID | 0
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4
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6 | 0
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0
4
4
9 | | 0
0
4
5
0 |
| | | | |
| Lumbar, Squamous Cell Carcinoma,
Metastatic, Vagina | | | 1 |
| Lymph Node, Mandibular | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | 48 |
| Lymph Node, Mesenteric | | + | 49 |
| Histiocytic Sarcoma | | | 1 |
| Schwannoma Malignant, Metastatic, Uterus | | | | | X | | 1 |
| Spleen | | + | 50 |
| Histiocytic Sarcoma | | | 1 |
| Thymus | | + | + | + | M | + | 48 |
| INTEGUMENTARY SYSTEM | | | |
| Mammary Gland | | + | 49 |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | X | | | | X | | 2 |
| Adenoma | | | 1 |
| Fibroadenoma | | | X | X | | | X | X | | X | | X | | X | | | | X | X | | | | X | | | | 20 |
| Fibroadenoma, Multiple | | | | | X | | | | X | | | | | X | | | | | | | X | | | | | | 8 |
| Skin | | + | 49 |
| Subcutaneous Tissue, Fibrosarcoma | | | X | | 1 |
| MUSCULOSKELETAL SYSTEM | | | |
| Bone | | + | 50 |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

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Date Report Requested: 08/20/2019

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First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3000 ppm | DAY ON TEST | 0
7
3
2 | 0
7
3
2 | 0
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1 | 0
3
6
1 | 0
7
3
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6
4
6 | 0
5
3
3 | 0
7
3
1 | 0
6
7
6 | 0
6
8
3 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
2 | 0
7
3
2 | 0
6
3
1 | 0
6
2
9 | 0
7
3
0 | 0
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6
1
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7
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0 | 0
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3
2 | 0
7
3
2 | * TOTALS | |
|--|-------------|----------|---------|
| | ANIMAL ID | 0
0
4
2
6 | 0
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4
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7 | 0
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2
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2
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0
4
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7 | 0
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8 | 0
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9 | 0
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1 | 0
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4
5 | 0
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4
6 | 0
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4
4
7 | 0
0
4
4
8 | 0
0
4
4
9 | | |
| | | | |
| Brain
Glioma Malignant | | + | 50
1 |
| RESPIRATORY SYSTEM | | | |
| Lung
Histiocytic Sarcoma | | + | 50
1 |
| Nose | | + | 50 |
| Trachea | | + | 50 |
| SPECIAL SENSES SYSTEM | | | |
| Eye | | + | 50 |
| Harderian Gland | | + | 50 |
| URINARY SYSTEM | | | |
| Kidney
Histiocytic Sarcoma | | + | 50
1 |
| Urinary Bladder | | + | 49 |
| SYSTEMIC LESIONS | | | |
| Multiple Organ
Histiocytic Sarcoma | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | 50
2 |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

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Dibutyl Phthalate

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First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
10000 ppm | DAY ON TEST | | females
(cont...) |
|---|-----------------------|
| | 0
7
3
0 | 0
7
3
0 | 0
6
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7
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0 | 0
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4 | 0
6
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5 | 0
7
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2 | 0
7
3
2 | 0
5
4
7 | 0
7
3
2 | 0
7
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3 | 0
7
3
1 | 0
5
8
9 | 0
7
3
1 | 0
6
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0 | 0
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8 | 0
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| ANIMAL ID | 0
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8 | 0
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9 | 0
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3 | 0
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7 | 0
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8 | 0
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9 | 0
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7
1 | 0
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4
7
2 | 0
0
4
7
3 | 0
0
4
7
4 | 0
0
4
7
5 |

ALIMENTARY SYSTEM

| |
|---------------------------------------|
| Esophagus | + |
| Cholangiocarcinoma, Metastatic, Liver | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + |
| Intestine Large, Colon | + |
| Intestine Large, Rectum | + |
| Lymphoma Malignant |
| Intestine Small, Duodenum | + |
| Intestine Small, Ileum | + |
| Intestine Small, Jejunum | + |
| Liver | + |
| Cholangiocarcinoma |
| Hepatocellular Adenoma |
| Lymphoma Malignant | X | | | |
| Mesentery |
| Cholangiocarcinoma, Metastatic, Liver | |
| Pancreas | + |
| Lymphoma Malignant |
| Salivary Glands | + | 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

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First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
10000 ppm | DAY ON TEST | | 0 | females
(cont...) |
|---|-------------|--|----------------------|
| | ANIMAL ID | | 7 | 7 | 6 | 6 | 7 | 7 | 4 | 7 | 6 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 5 | 7 | 6 | 5 | 7 | 5 | 4 | 4 | |
| | | | 3 | 3 | 5 | 2 | 3 | 3 | 2 | 3 | 5 | 1 | 3 | 3 | 3 | 4 | 3 | 0 | 3 | 8 | 3 | 1 | 1 | 3 | 5 | 4 | 6 | |
| | | | 0 | |
| | | | 4 | |
| | | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |
| Stomach, Forestomach | | | + | |
| Cholangiocarcinoma, Metastatic, Liver | | | |
| Stomach, Glandular | | | + | |
| CARDIOVASCULAR SYSTEM | | | |
| Blood Vessel | | | + | |
| Heart | | | + | |
| Lymphoma Malignant | | | |
| ENDOCRINE SYSTEM | | | |
| Adrenal Cortex | | | + | |
| Adrenal Medulla | | | + | |
| Islets, Pancreatic | | | + | |
| Adenoma | | | |
| Parathyroid Gland | | | + | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | M | + | M | + | M | |
| Pituitary Gland | | | + | |
| Pars Distalis, Adenoma | | | X | X | | | X | | | | | | | | | X | | | | | X | X | | | X | | | |
| Pars Distalis, Carcinoma | | | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| Thyroid Gland | | | + | |
| C-cell, Adenoma | | | | | | | | | | | | | | X | | | | | | | X | X | | | | | | |
| C-cell, 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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Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
10000 ppm | | DAY ON TEST | | | females
(cont...) |
|---|--|------------------|-----------------------|--|----------------------|
| | | 0
7
3
0 | 0
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3
0 | 0
4
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7
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6
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4 | 0
6
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5 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | 0
5
4
7 | 0
7
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| | | ANIMAL ID | 0
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4
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4
7
3 | 0
0
4
7
4 | 0
0
4
7
5 | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland

+ +

Ovary

+ +

Tubulostromal Adenoma

Uterus

+ +

Polyp Stromal

X

X

X

Endometrium, Polyp, Glandular

X

HEMATOPOIETIC SYSTEM

Bone Marrow

+ +

Lymphoma Malignant

Lymph Node

Inguinal, Lymphoma Malignant

Mediastinal, Lymphoma Malignant

Lymph Node, Mandibular

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

Lymphoma Malignant

Lymph Node, Mesenteric

+ +

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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
10000 ppm | DAY ON TEST | 0
7
3
0 | 0
7
3
0 | 0
6
5
5 | 0
6
2
5 | 0
7
3
0 | 0
7
3
0 | 0
4
2
0 | 0
7
3
0 | 0
6
5
4 | 0
6
1
5 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | 0
5
4
7 | 0
7
3
2 | 0
7
0
3 | 0
7
3
1 | 0
5
8
9 | 0
7
3
1 | 0
6
1
0 | 0
5
1
5 | 0
7
3
2 | 0
5
5
1 | 0
4
4
8 | 0
4
6
6 | females
(cont...) | |
|---|-------------|----------------------|--|
| | ANIMAL ID | 0
0
4
5
1 | 0
0
4
5
2 | 0
0
4
5
3 | 0
0
4
5
4 | 0
0
4
5
5 | 0
0
4
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6 | 0
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4
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7 | 0
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4
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8 | 0
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9 | 0
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1 | 0
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2 | 0
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4
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3 | 0
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4 | 0
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4
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7 | 0
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6
8 | 0
0
4
6
9 | 0
0
4
7
0 | 0
0
4
7
1 | 0
0
4
7
2 | 0
0
4
7
3 | 0
0
4
7
4 | 0
0
4
7
5 | | |
| | | | |
| Spleen
Lymphoma Malignant | | + | |
| Thymus | | + | + | + | + | + | + | + | + | + | M | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | |
| INTEGUMENTARY SYSTEM | | | |
| Mammary Gland
Adenocarcinoma | | + | |
| Fibroadenoma | | | X | | | | X | | | | | X | | | | X | | | X | | | | | | X | X | | |
| Fibroadenoma, Multiple | | | | X | X | | | | | | | | X | | | | | | | | | | | | | | | |
| Myoepithelioma | | | |
| Skin
Basal Cell Adenoma | | + | |
| Subcutaneous Tissue, Fibrosarcoma | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| MUSCULOSKELETAL SYSTEM | | | |
| Bone | | + | |
| NERVOUS SYSTEM | | | |
| Brain
Granular Cell Tumor Benign | | + | |
| RESPIRATORY SYSTEM | | | |
| Lung
Carcinoma, Metastatic, Thyroid Gland | | + | |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

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First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
10000 ppm | DAY ON TEST | 0
7
3
0 | 0
7
3
0 | 0
6
5
5 | 0
6
2
5 | 0
7
3
0 | 0
7
3
0 | 0
4
2
0 | 0
7
3
0 | 0
6
5
4 | 0
6
1
5 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | 0
5
4
7 | 0
7
3
2 | 0
7
0
3 | 0
7
3
1 | 0
5
8
9 | 0
7
3
1 | 0
6
1
0 | 0
5
1
5 | 0
7
3
2 | 0
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5
1 | 0
4
4
8 | 0
4
6
6 | females
(cont...) |
|---|-------------|----------------------|
| | ANIMAL ID | 0
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4 | 0
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6 | 0
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4
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7 | 0
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4
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8 | 0
0
4
5
9 | 0
0
4
6
0 | 0
0
4
6
1 | 0
0
4
6
2 | 0
0
4
6
3 | 0
0
4
6
4 | 0
0
4
6
5 | 0
0
4
6
6 | 0
0
4
6
7 | 0
0
4
6
8 | 0
0
4
6
9 | 0
0
4
7
0 | 0
0
4
7
1 | 0
0
4
7
2 | 0
0
4
7
3 | 0
0
4
7
4 | 0
0
4
7
5 | |
| | | |
| Nose | | + | |
| Trachea | | + | |
| SPECIAL SENSES SYSTEM | | |
| Eye | | + | |
| Harderian Gland | | + | |
| URINARY SYSTEM | | |
| Kidney | | + | |
| Urinary Bladder | | + | M | + | + | |
| 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

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| DAY ON TEST | 0731 | 0731 | 0731 | 0732 | 0732 | 0473 | 0772 | 0773 | 0773 | 0773 | 0773 | 0371 | 0773 | 0571 | 0773 | 0773 | 0773 | 0571 | 0473 | 0573 | 0773 | 0671 | 0773 | 0733 | |
|-----------------------------------|--|
| HARLAN SPRAGUE DAWLEY RATS FEMALE | 31 | 31 | 31 | 32 | 32 | 73 | 32 | 31 | 31 | 31 | 31 | 29 | 31 | 57 | 31 | 32 | 32 | 61 | 38 | 43 | 32 | 18 | 31 | 33 | |
| 10000 ppm | 00476 | 00477 | 00478 | 00479 | 00480 | 00481 | 00482 | 00483 | 00484 | 00485 | 00486 | 00487 | 00488 | 00489 | 00490 | 00491 | 00492 | 00493 | 00494 | 00495 | 00496 | 00497 | 00498 | 00499 | |
| ANIMAL ID | 0476 | 0477 | 0478 | 0479 | 0480 | 0481 | 0482 | 0483 | 0484 | 0485 | 0486 | 0487 | 0488 | 0489 | 0490 | 0491 | 0492 | 0493 | 0494 | 0495 | 0496 | 0497 | 0498 | 0499 | |
| * TOTALS | |

ALIMENTARY SYSTEM

| | |
|---------------------------------------|----|
| Esophagus | + | 50 |
| Cholangiocarcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | X | | | | | | 1 |
| Intestine Large, Cecum | + | 49 |
| Intestine Large, Colon | + | 50 |
| Intestine Large, Rectum | + | 50 |
| Lymphoma Malignant | | | | X | | 1 |
| Intestine Small, Duodenum | + | 50 |
| Intestine Small, Ileum | + | 50 |
| Intestine Small, Jejunum | + | 50 |
| Liver | + | 50 |
| Cholangiocarcinoma | | | | | | | | | | | | | | | | | | | X | | | | | | 1 |
| Hepatocellular Adenoma | 1 |
| Lymphoma Malignant | | | | X | | | | | | | | | | | | | | | | | | X | | | 2 |
| Mesentery | | | | | | | | | | | | | | | | | | | + | | | | | | 1 |
| Cholangiocarcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | | X | | | | | | 1 |
| Pancreas | + | 50 |
| Lymphoma Malignant | | | | X | | 1 |
| Salivary Glands | + | 49 |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

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P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Dibutyl Phthalate

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Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
10000 ppm | DAY ON TEST | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
2 | 0
7
3
2 | 0
4
7
3 | 0
7
3
2 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
3
2
9 | 0
7
3
1 | 0
5
5
7 | 0
7
3
1 | 0
7
3
2 | 0
7
3
2 | 0
5
6
1 | 0
4
3
8 | 0
5
4
3 | 0
7
3
2 | 0
6
1
8 | 0
7
3
1 | 0
3
3
3 | * TOTALS | | |
|---|-------------|----------|-----------------------|--|
| | ANIMAL ID | 0
0
4
7
6 | 0
0
4
7
7 | 0
0
4
7
8 | 0
0
4
7
9 | 0
0
4
8
0 | 0
0
4
8
1 | 0
0
4
8
2 | 0
0
4
8
3 | 0
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4
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4 | 0
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4
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5 | 0
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4
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6 | 0
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4
8
7 | 0
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4
8
8 | 0
0
4
8
9 | 0
0
4
9
0 | 0
0
4
9
1 | 0
0
4
9
2 | 0
0
4
9
3 | 0
0
4
9
4 | 0
0
4
9
5 | 0
0
4
9
6 | 0
0
4
9
7 | 0
0
4
9
8 | | 0
0
5
0
0 | |
| | | | | |
| Stomach, Forestomach
Cholangiocarcinoma, Metastatic, Liver | | + | 50
1 | | |
| Stomach, Glandular | | + | 50 | | |
| CARDIOVASCULAR SYSTEM | | | | |
| Blood Vessel | | + | 50 | | |
| Heart
Lymphoma Malignant | | + | 50
1 | | | |
| ENDOCRINE SYSTEM | | | | |
| Adrenal Cortex | | + | 50 | | | |
| Adrenal Medulla | | + | 50 | | | |
| Islets, Pancreatic
Adenoma | | + | 50
1 | | | |
| Parathyroid Gland | | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 43 | | | |
| Pituitary Gland
Pars Distalis, Adenoma
Pars Distalis, Carcinoma | | + | 50
12
1 | | | |
| Thyroid Gland
C-cell, Adenoma
C-cell, Carcinoma | | + | 50
5
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

Experiment Number: 10987 - 01

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First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
10000 ppm | | DAY ON TEST | | 0 | 0 | * TOTALS | |
|---|--|-------------|--|----------|----------|---|
| | | ANIMAL ID | | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 3 | 7 | 5 | 7 | 7 | 7 | 7 | 5 | 4 | 5 | 7 | 6 | 7 | 7 | 3 | | |
| | | | | 3 | 3 | 3 | 3 | 3 | 7 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 5 | 3 | 3 | 3 | 3 | 6 | 3 | 4 | 3 | 1 | 3 | 3 | | |
| | | | | 1 | 1 | 1 | 2 | 2 | 3 | 2 | 1 | 1 | 1 | 1 | 9 | 1 | 7 | 1 | 2 | 2 | 2 | 2 | 1 | 8 | 3 | 2 | 8 | 1 | | 3 |
| | | ANIMAL ID | | 0 | 0 | | |
| | | | | 0 | 0 | | |
| | | | | 4 | 4 | 5 | | |
| | | | | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | |
| | | | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| | | | | * TOTALS | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | |
|-------------------------------|----|
| Clitoral Gland | + | 50 |
| Ovary | + | 50 |
| Tubulostromal Adenoma | | | X | | 1 |
| Uterus | + | 50 |
| Polyp Stromal | | | X | X | | | X | | | | | | | | | X | | X | | | | | | | X | | | | 9 |
| Endometrium, Polyp, Glandular | | 1 |

HEMATOPOIETIC SYSTEM

| | |
|---------------------------------|----|
| Bone Marrow | + | 50 |
| Lymphoma Malignant | X | | | | 1 |
| Lymph Node | | | | + | | 1 |
| Inguinal, Lymphoma Malignant | | | | X | | 1 |
| Mediastinal, Lymphoma Malignant | | | | X | | 1 |
| Lymph Node, Mandibular | + | 49 |
| Lymphoma Malignant | | | | X | | 1 |
| Lymph Node, Mesenteric | + | 50 |
| Lymphoma Malignant | | | | X | | X | | | | 2 |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
10000 ppm | DAY ON TEST | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
2 | 0
7
3
2 | 0
4
7
3 | 0
7
3
2 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
3
2
9 | 0
7
3
1 | 0
5
5
7 | 0
7
3
1 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | 0
5
6
1 | 0
4
3
8 | 0
5
4
3 | 0
7
3
2 | 0
6
1
8 | 0
7
3
1 | 0
3
3
3 | * TOTALS | |
|---|-------------|----------|--|
| | ANIMAL ID | 0
0
4
7
6 | 0
0
4
7
7 | 0
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4
7
8 | 0
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4
7
9 | 0
0
4
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6 | 0
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9
7 | 0
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4
9
8 | 0
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5
0
0 | | |
| | | | |
| Spleen | | + | 50 | |
| Lymphoma Malignant | | | | | X | | | | | | | | | | | | | | | | | | X | | | 2 | |
| Thymus | | + | 48 | |
| INTEGUMENTARY SYSTEM | | | |
| Mammary Gland | | + | 50 | |
| Adenocarcinoma | | | X | | 1 | |
| Fibroadenoma | | X | X | X | | | | | X | | | X | X | | X | | | | | X | | X | | | | 16 | |
| Fibroadenoma, Multiple | | | 4 | |
| Myoepithelioma | | | | | | | | | | X | | | | | | | | | | | | | | | | 1 | |
| Skin | | + | 50 | |
| Basal Cell Adenoma | | | 1 | |
| Subcutaneous Tissue, Fibrosarcoma | | | 1 | |
| MUSCULOSKELETAL SYSTEM | | | |
| Bone | | + | 50 | |
| NERVOUS SYSTEM | | | |
| Brain | | + | 50 | |
| Granular Cell Tumor Benign | | | | | | | | | | | | | | | | | | | X | | | | | | | 1 | |
| RESPIRATORY SYSTEM | | | |
| Lung | | + | 50 | |
| Carcinoma, Metastatic, Thyroid Gland | | | 1 | |

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

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

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Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
10000 ppm | DAY ON TEST | 0
7
3
1 | 0
7
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1 | 0
7
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2 | 0
7
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2 | 0
4
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1 | 0
7
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1 | 0
3
2
9 | 0
7
3
1 | 0
5
5
7 | 0
7
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7
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2 | 0
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2 | 0
5
6
1 | 0
4
3
8 | 0
5
4
3 | 0
7
3
2 | 0
6
1
8 | 0
7
3
1 | 0
3
3
3 | * TOTALS | | | |
|---|-------------|----------|-----------------------|-----------------------|----|
| | ANIMAL ID | 0
0
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7 | 0
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3 | 0
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4 | 0
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5 | 0
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9
6 | 0
0
4
9
7 | 0
0
4
9
8 | | 0
0
4
9
9 | 0
0
5
0
0 | |
| | Nose | + | | + | 50 | |
| | Trachea | + | | + | + | 50 |
| SPECIAL SENSES SYSTEM | | | | | |
| Eye | + | + | + | 50 | | |
| Harderian Gland | + | + | + | 50 | | |
| URINARY SYSTEM | | | | | |
| Kidney | + | + | + | 50 | | |
| Urinary Bladder | + | + | + | 49 | | |
| SYSTEMIC LESIONS | | | | | |
| Multiple Organ | + | + | + | 50 | | |
| Lymphoma Malignant | | | | X | | | | | | | | | | | | | | | | | | | X | | | 2 | | |

*** 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