

Experiment Number: 10034 - 04
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Bisphenol A
CAS Number: 80-05-7

Date Report Requested: 08/16/2017
Time Report Requested: 10:21:03
First Dose M/F: 09/25/12 / 09/25/12
Lab: NCTR

NTP Study Number: C10034
Lock Date: 08/16/2017
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: 09/29/2017

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		DAY ON TEST																				males (cont...)						
SPRAGUE DAWLEY (NCTR) RATS MALE		0550	0727	0725	0728	0727	0727	0722	0722	0727	0544	0692	0073	0058	0057	0056	0065	0078	0063	0052	0059		0072	0078	0046	0064	0067	0058
	F1 Veh. Ctrl M	0001	0002	0001	0002	0003	0004	0002	0004	0005	0007	0001	0002	0008	0009	0002	0000	0002	0001	0002	0000	0001	0002	0001	0003	0003	0004	0004

ALIMENTARY SYSTEM

Esophagus	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Colon Adenocarcinoma Leukemia Granulocytic	A	A		+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+			
Intestine Small, Ileum Leukemia Granulocytic	A	A		+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	A	+		
Liver Hepatocellular Adenoma Histiocytic Sarcoma Leukemia Granulocytic Leukemia Mononuclear Lymphoma Malignant	+	+	+	+	+	+	X	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mesentery																													+
Oral Mucosa Squamous Cell Carcinoma																													
Pancreas Histiocytic Sarcoma Leukemia Granulocytic Leukemia Mononuclear Lymphoma Malignant Acinar Cell, Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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SPRAGUE DAWLEY (NCTR) RATS MALE F1 Veh. Ctrl M	DAY ON TEST																				ANIMAL ID	males (cont...)					
	050	072	075	078	077	077	077	054	069	067	053	053	055	056	067	066	051	055	072	072			046	064	066	077	058
	00011	00012	00021	00022	00031	00032	00041	00042	00051	00052	00071	00072	00081	00082	00091	00092	00111	00112	00121	00122	00131	00132	00141	00142	00151	00152	

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

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia Granulocytic																										
Leukemia Mononuclear																										
Lymphoma Malignant																										

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma																										
Leukemia Granulocytic																										
Leukemia Mononuclear																										
Lymphoma Malignant																										
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pheochromocytoma Benign		X	X																							
Pheochromocytoma Malignant																										
Bilateral, Pheochromocytoma Malignant																										
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma		X																								
Histiocytic Sarcoma																										

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	050	072	075	078	077	077	077	054	062	063	053	053	055	066	078	063	051	055	072	078	048	064	062	058			072
Parathyroid Gland	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	
Leukemia Granulocytic																											
Leukemia Mononuclear																						X					
Lymphoma Malignant																											
Pars Distalis, Adenoma	X	X	X			X	X		X			X		X		X			X			X					
Thyroid Gland	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	
Lymphoma Malignant																											
GENERAL BODY SYSTEM																											
Tissue NOS	+																								+		
Leukemia Mononuclear																									X		
Sarcoma	X																										
GENITAL SYSTEM																											
Bulbourethral Gland																											
Coagulating Gland	A	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Histiocytic Sarcoma													X														
Epididymis	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Histiocytic Sarcoma													X														
Lymphoma Malignant																											
Fat Pad, Epididymal																										+	

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SPRAGUE DAWLEY (NCTR) RATS MALE F1 Veh. Ctrl M	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ANIMAL ID	males (cont...)	
	5	7	7	7	7	7	7	5	6	0	5	5	5	6	7	6	5	5	7	7	4	6	6	5			7
	5	7	2	2	2	2	2	4	9	7	8	7	6	5	2	1	2	9	2	8	6	4	6	6	8	0	
	0	7	7	5	8	7	7	4	2	3	3	9	7	6	8	3	1	6	8	8	8	8	8	8	8	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	4	4	4	4	0	
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	2	2	2	2	3	3	3	3	0	
	1	1	2	2	3	3	4	4	5	5	7	8	8	9	9	0	0	1	1	1	3	3	4	4	5	0	
	1	2	1	2	1	2	1	2	1	2	1	2	2	1	2	1	2	1	2	1	2	1	2	1	1	0	

Preputial Gland Carcinoma Squamous Cell Papilloma Bilateral, Carcinoma			+	+			+	+									+	+							+			
Prostate, Dorsal/lateral Lobe Histiocytic Sarcoma Lymphoma Malignant	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Prostate, Ventral Lobe Adenoma Histiocytic Sarcoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Seminal Vesicle Histiocytic Sarcoma	A	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+		
Testes Histiocytic Sarcoma	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			

HEMATOPOIETIC SYSTEM

Bone Marrow Leukemia Granulocytic Leukemia Mononuclear Lymphoma Malignant	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+		
Lymph Node Cervical, Lymphoma Malignant Lumbar, Lymphoma Malignant Mediastinal, Histiocytic Sarcoma			+	+		+	+							+		+						+						

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SPRAGUE DAWLEY (NCTR) RATS MALE F1 Veh. Ctrl M	5	7	7	7	7	7	7	5	6	0	5	5	5	6	7	6	5	5	7	7	4	6	6	5	7			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Mediastinal, Leukemia Granulocytic
 Mediastinal, Lymphoma Malignant
 Pancreatic, Leukemia Granulocytic
 Pancreatic, Lymphoma Malignant
 Renal, Leukemia Granulocytic
 Renal, Lymphoma Malignant

Lymph Node, Mandibular
 Leukemia Granulocytic
 Lymphoma Malignant

Spleen
 Leukemia Granulocytic
 Leukemia Mononuclear
 Lymphoma Malignant

Thymus
 Leukemia Granulocytic
 Lymphoma Malignant

INTEGUMENTARY SYSTEM

Mammary Gland
 Adenocarcinoma, Multiple
 Fibroma

Skin
 Fibroma
 Pilomatrixoma

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SPRAGUE DAWLEY (NCTR) RATS MALE F1 Veh. Ctrl M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	5	7	7	7	7	7	7	5	6	0	5	5	5	6	7	6	5	5	7	7	4	6	6	5		7	
	0	7	5	8	7	7	7	4	2	3	3	9	7	6	5	2	1	2	9	6	8	8	8	4		8	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	2	2	2	2	3	3	3	3		
	1	1	2	2	3	3	4	4	5	5	7	7	8	8	9	9	0	0	1	1	3	3	4	4	5		
	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1		

MUSCULOSKELETAL SYSTEM

Bone																										
Rib, Osteosarcoma																									X	
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle																									+	

NERVOUS SYSTEM

Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
Leukemia Mononuclear																									X			
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Leukemia Mononuclear																									X			
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Granular Cell Tumor Malignant																												
Leukemia Mononuclear																									X			
Nerve Trigeminal	+		+				+																		+	+		
Peripheral Nerve, Sciatic	+		+				+																			+	+	
Histiocytic Sarcoma																									X			
Peripheral Nerve, Tibial	+		+				+																			+	+	
Histiocytic Sarcoma																									X			
Spinal Cord, Cervical	+		+				+																			+	+	

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--	-------------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-----------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	--------------------

Spinal Cord, Lumbar

+ +

Spinal Cord, Thoracic

+ +

RESPIRATORY SYSTEM

Lung
 Alveolar/Bronchiolar Adenoma
 Histiocytic Sarcoma
 Leukemia Granulocytic
 Leukemia Mononuclear
 Lymphoma Malignant

+
 X
 X

Nose
 Leukemia Granulocytic
 Lymphoma Malignant

+ +

Trachea

+ +

SPECIAL SENSES SYSTEM

Eye

+ +

Zymbal's Gland
 Carcinoma

+
 X

URINARY SYSTEM

Kidney
 Histiocytic Sarcoma

+
 X

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| | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 Veh. Ctrl M | DAY ON TEST | 050 | 072 | 077 | 078 | 077 | 077 | 077 | 054 | 069 | 007 | 005 | 005 | 006 | 007 | 006 | 005 | 007 | 004 | 006 | 006 | 005 | 007 |
| | ANIMAL ID | 00011 | 00012 | 00021 | 00022 | 00031 | 00032 | 00041 | 00042 | 00051 | 00052 | 00071 | 00072 | 00081 | 00082 | 00091 | 00092 | 00101 | 00102 | 00111 | 00112 | 00121 | 00122 |

males (cont...)

Leukemia Granulocytic
 Leukemia Mononuclear
 Lipoma
 Lymphoma Malignant

X

Urinary Bladder

+

+

SYSTEMIC LESIONS

Multiple Organ
 Histiocytic Sarcoma
 Leukemia Granulocytic
 Leukemia Mononuclear
 Lymphoma Malignant

+
 X

X

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| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|--|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | | |
| SPRAGUE DAWLEY (NCTR)
RATS MALE | | 7 | 4 | 5 | 5 | 7 | 7 | 7 | 2 | 4 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 4 | 5 | 6 | 7 | 6 | 4 | 2 | 6 |
| | | 2 | 8 | 2 | 6 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 0 | 3 | 2 | 2 | 1 | 7 | 9 | 5 | 2 | 2 | 3 | 9 | 8 | 0 |
| | | 1 | 7 | 7 | 0 | 8 | 8 | 8 | 6 | 6 | 7 | 0 | 7 | 7 | 8 | 7 | 5 | 5 | 9 | 3 | 7 | 4 | 5 | 5 | 4 | |
| F1 Veh. Ctrl M | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | | 5 | 6 | 6 | 7 | 7 | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus | + | + | + | + | | | | | | | | | | | | | | | | | | | | | | 35 |
| Intestine Large, Colon | + | + | + | + | | | | | | | | | | | | | | | | | | | | | | 29 |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Intestine Small, Ileum | + | + | + | + | | | | | | | | | | | | | | | | | | | | | | 26 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Acinar Cell, 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 Veh. Ctrl M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|---------|
| | 0721 | 0487 | 0527 | 0560 | 0728 | 0778 | 0778 | 0778 | 0226 | 0426 | 0727 | 0770 | 0770 | 0637 | 0728 | 0778 | 0617 | 0665 | 0449 | 0559 | 0623 | 0727 | 0664 | 0495 | | 0235 | 0085 |
| ANIMAL ID | 04352 | 04336 | 04333 | 04333 | 04344 | 04664 | 04664 | 04666 | 04666 | 04666 | 04666 | 04666 | 04666 | 04666 | 04666 | 04666 | 04666 | 04666 | 04666 | 04666 | 04666 | 04666 | 04666 | 04666 | 04666 | 04666 | 04666 |
| Stomach, Forestomach
Squamous Cell Papilloma | + | + | + | + | | + | | + | + | | + | + | + | | | + | + | + | + | + | | + | + | + | + | | 36
2 |
| Stomach, Glandular | + | + | + | + | | + | | + | + | | + | + | + | | | + | + | + | + | + | | + | + | + | + | | 34 |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Pheochromocytoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Bilateral, Pheochromocytoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 Veh. Ctrl M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|
| | 0721 | 0487 | 0527 | 0560 | 0728 | 0778 | 0778 | 0226 | 0426 | 0770 | 0770 | 0770 | 0637 | 0728 | 0728 | 0617 | 0665 | 0459 | 0623 | 0724 | | 0645 | 0280 | 0680 |
| ANIMAL ID | 04352 | 04336 | 04333 | 04333 | 04344 | 04664 | 04664 | 04665 | 04665 | 04665 | 04665 | 04665 | 04665 | 04665 | 04665 | 04665 | 04665 | 04665 | 04665 | 04665 | 04665 | 04665 | 04665 | 04665 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Pituitary Gland | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Leukemia Granulocytic | | | | | | | | | | | X | | | | | | | | | | | | | 1 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | X | | | | | | 2 |
| Pars Distalis, Adenoma | X | | | | | | | | | X | | | X | X | X | X | | X | | X | X | X | | 21 |
| Thyroid Gland | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | 46 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | X | | | | | | 1 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Bulbourethral Gland | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Coagulating Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | 47 |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | X | | | | | | 2 |
| Fat Pad, Epididymal | | | | | | | | | | | | | | | | | | | | | | + | | 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: 10034 - 04

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Bisphenol A

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| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 Veh. Ctrl M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|
| | 0721 | 0487 | 0527 | 0560 | 0728 | 0778 | 0778 | 0226 | 0426 | 0770 | 0770 | 0770 | 0677 | 0778 | 0677 | 0665 | 0459 | 0663 | 0764 | 0645 | | 0228 | 0680 | 0604 |
| ANIMAL ID | 04352 | 04336 | 04333 | 04333 | 04344 | 04664 | 04664 | 04665 | 04665 | 04665 | 04665 | 04665 | 04666 | 04666 | 04668 | 04668 | 04668 | 04668 | 04668 | 04668 | 04668 | 04668 | 04668 | 04668 |
| Preputial Gland | + | | | | + | | | | | | + | | | + | | | | | + | | + | | | |
| Carcinoma | | | | | | | | | | | | | | X | | | | | | | | | | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | X | | |
| Bilateral, Carcinoma | X | | | | | | | | | | | | | | | | | | | | | | | |
| Prostate, Dorsal/lateral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | X | | | | | | | | | | | | | | | | | | | | | | |
| Prostate, Ventral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | | | X | | | | | | X | | | | X | | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | X |
| Seminal Vesicle | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | A | + |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Granulocytic | | | | | | | | | | | | | X | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | X | | | | | | | | | | | | | | | | | X | | | | | |
| Lymph Node | + | + | | + | | | | | | | + | + | | | | | | | + | | + | | | + |
| Cervical, Lymphoma Malignant | | X | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | X | | | | | |
| Mediastinal, 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

Experiment Number: 10034 - 04

Test Type: CHRONIC

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Bisphenol A

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| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 Veh. Ctrl M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|----|
| | 0721 | 0487 | 0527 | 0560 | 0728 | 0778 | 0778 | 0226 | 0426 | 0770 | 0770 | 0770 | 0637 | 0728 | 0627 | 0665 | 0459 | 0623 | 0724 | 0645 | | 0228 | 0680 | |
| ANIMAL ID | 04352 | 04336 | 04333 | 04333 | 04344 | 04344 | 06665 | 06665 | 06665 | 06665 | 06665 | 06665 | 06665 | 06665 | 08883 | 08883 | 08883 | 08883 | 08883 | 08883 | 08883 | 08883 | 08883 | |
| Mediastinal, Leukemia Granulocytic | | | | | | | | | | | | | | | X | | | | | | | | | 1 |
| Mediastinal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | X | | 1 |
| Pancreatic, Leukemia Granulocytic | | | | | | | | | | | | | | | X | | | | | | | | | 1 |
| Pancreatic, Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | X | | | | | 2 |
| Renal, Leukemia Granulocytic | | | | | | | | | | | | | | | X | | | | | | | | | 1 |
| Renal, Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | X | | | | | 2 |
| Lymph Node, Mandibular | | | | | | | | | | | | | | | | | | | | | | | | 7 |
| Leukemia Granulocytic | | | + | + | | | | | | | | | | | + | | | | | | | | | 1 |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | X | | | | | 2 |
| Spleen | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | X | | | | | | | | | 1 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | X | | | | | 2 |
| Thymus | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | X | | | | | | | | | 1 |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | X | | | | | 2 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenocarcinoma, Multiple | | | | | | | | | | | | | | | X | | | | | | | | | 1 |
| Fibroma | | | | | | | X | | | | | | | | | | | | X | | | | | 2 |
| Skin | | | | | | | | | | | | | | | | | | | | | | | | 12 |
| Fibroma | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pilomatrixoma | | | | | | | | | | | | | | | | | | | | | | | | 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: 10034 - 04
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 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

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 Bisphenol A
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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 Veh. Ctrl M | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | ANIMAL ID | 7 | 4 | 5 | 5 | 7 | 7 | 7 | 2 | 4 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 4 | 5 | 6 | 7 | 6 | 4 | 2 | 6 | |
| | | 2 | 8 | 2 | 6 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 0 | 3 | 2 | 2 | 1 | 7 | 9 | 5 | 2 | 2 | 3 | 9 | 8 | 0 | |
| | | 1 | 7 | 7 | 0 | 8 | 8 | 8 | 6 | 6 | 7 | 0 | 7 | 7 | 7 | 5 | 5 | 5 | 9 | 5 | 3 | 7 | 5 | 5 | 4 | 4 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| | | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| | | 5 | 6 | 6 | 7 | 7 | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | | |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|
| Bone | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Rib, Osteosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Skeletal Muscle | | | | | | | | | | | + | | | | | | | | | | | | | | | | 2 | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | | | 49 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Granular Cell Tumor Malignant | | | | | | | | | | | | | | | | | X | | | | | | | | | | 1 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Nerve Trigeminal | | | | | | + | | | | | | | + | + | + | | + | | | | | | | | | | 11 |
| Peripheral Nerve, Sciatic | | | | | | + | | | | | | | | + | + | + | | + | | | | | | | | | 11 |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Peripheral Nerve, Tibial | | | | | | + | | | | | | | | | + | + | + | | + | | | | | | | | 11 |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Spinal Cord, Cervical | | | | | | + | | | | | | | | | + | + | + | | + | | | | | | | | 11 |

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

M .. Missing tissue
 A .. Autolysis precludes evaluation
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F1 Veh. Ctrl M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|--|
| | 0721 | 0487 | 0527 | 0560 | 0728 | 0778 | 0778 | 0226 | 0426 | 0770 | 0770 | 0770 | 0637 | 0728 | 0728 | 0617 | 0665 | 0459 | 0663 | 0727 | | 0664 | 0425 | 0268 | 0604 | |
| ANIMAL ID | 04352 | 04361 | 04362 | 04371 | 04372 | 04366 | 04366 | 04366 | 04366 | 04366 | 04366 | 04366 | 04366 | 04366 | 04366 | 04368 | 04368 | 04368 | 04368 | 04368 | 04368 | 04368 | 04368 | 04368 | 04368 | |
| Spinal Cord, Lumbar | | | | + | | | | | | | | | | | | | | | | | | | | | 11 | |
| Spinal Cord, Thoracic | | | | + | | | | | | | | | | | | | | | | | | | | | 11 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | | + | + | + | | | | | + | + | + | + | + | + | + | 38 | |
| Alveolar/Bronchiolar Adenoma | | | | | | | | | | | | | | | | | | | | | | X | | | 1 | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Leukemia Granulocytic | | | | | | | | | | | | | | X | | | | | | | | | | | 1 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | X | | 2 | |
| Nose | + | + | + | + | | | | + | + | | + | + | + | | | | | + | + | + | + | + | + | + | 33 | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | X | 1 | |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | | X | 2 | |
| Trachea | + | + | + | + | | | | + | + | | + | + | + | | | | | + | + | A | + | + | | + | 31 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | | | | | | | | | | | | | | | | | | | | | | | + | 4 | |
| Zymbal's Gland | + | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |

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

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

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 Veh. Ctrl M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | | |
| | 7 | 4 | 5 | 5 | 7 | 7 | 7 | 2 | 4 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 4 | 5 | 6 | | 7 | 6 | 4 | 2 |
| ANIMAL ID | 2 | 8 | 2 | 6 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 0 | 3 | 2 | 2 | 1 | 7 | 9 | 5 | 2 | 2 | 3 | 9 | 8 | 0 |
| | 1 | 7 | 7 | 0 | 8 | 8 | 8 | 6 | 6 | 7 | 0 | 7 | 7 | 7 | 8 | 7 | 5 | 5 | 3 | 7 | 4 | 5 | 5 | 4 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 5 | 6 | 6 | 7 | 7 | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | |
| | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|---|--|--|---|
| Leukemia Granulocytic | X | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lipoma | X | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | X | | | 2 | | | |
| Urinary Bladder | + | | | | | | | | | | | | | | | | | | | | | | | 4 |

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Leukemia Granulocytic | X | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| 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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|--|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2.5 BPA M | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 6 | 7 | 5 | 2 | 7 | 7 | 6 | 7 | 6 | 4 | 6 | 6 | 7 | 7 | 5 | 6 | 6 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | |
| | | 8 | 1 | 1 | 9 | 2 | 1 | 9 | 2 | 5 | 1 | 4 | 2 | 3 | 2 | 4 | 3 | 1 | 7 | 8 | 2 | 2 | 2 | 0 | 2 | |
| | | 1 | 3 | 7 | 3 | 7 | 9 | 3 | 7 | 1 | 9 | 4 | 0 | 0 | 9 | 3 | 0 | 6 | 5 | 6 | 4 | 5 | 7 | 7 | 7 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | | |
| | | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 1 | 1 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 9 | 9 | 0 | 0 | | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | | + | + | | + | + | + | + | | + | + | + | + | + | | | | | + | |
| Intestine Large, Colon | + | A | A | A | | A | + | | + | + | + | + | | + | + | + | A | + | | | | | + | |
| Intestine Small, Ileum | + | A | A | A | | A | + | | + | + | + | + | | + | + | + | A | + | | | | | A | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | X | | | | | | | | |
| Pancreas | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | X | | | | | | | |
| Stomach, Forestomach | + | + | + | + | | + | + | | + | + | + | + | | + | + | + | + | + | | | | | + | |
| Stomach, Glandular | + | + | A | + | | + | + | | + | + | + | + | | + | + | + | + | + | | | | | + | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

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

* .. Total animals with tissue examined microscopically; 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2.5 BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|
| | 0681 | 0713 | 0517 | 0293 | 0727 | 0779 | 0663 | 0777 | 0662 | 0666 | 0777 | 0779 | 0554 | 0663 | 0666 | 0558 | 0772 | 0775 | 0777 | 0779 | | | 0779 | 0777 | 0779 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0011 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0011 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 0011 | |
| | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 1 | 1 | 1 | 1 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 9 | 9 | 0 | 0011 | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 0011 | |

Lymphoma Malignant

X

Adrenal Medulla

Pheochromocytoma Benign

Pheochromocytoma Malignant

Islets, Pancreatic

Adenoma

Carcinoma

Parathyroid Gland

Pituitary Gland

Lymphoma Malignant

Pars Distalis, Adenoma

Pars Intermedia, Adenoma

Thyroid Gland

C-cell, Carcinoma

Follicular Cell, Carcinoma

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Coagulating Gland

Epididymis

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2.5 BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|------------------|-----------------------|------------------|
| | 0
6
8
1 | 0
7
1
3 | 0
5
1
7 | 0
2
9
3 | 0
7
2
7 | 0
7
1
9 | 0
6
9
3 | 0
7
2
7 | 0
6
5
1 | 0
4
1
9 | 0
6
4
0 | 0
6
2
0 | 0
7
3
0 | 0
7
2
9 | 0
5
4
3 | 0
6
1
6 | 0
6
7
5 | 0
5
2
4 | 0
7
2
5 | 0
7
2
7 | | | 0
7
2
0 | 0
7
0
0 | 0
7
2
7 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
0
1
7
1 | |

Lymphoma Malignant

X

Fat Pad, Epididymal

+

Preputial Gland

+

+

+

+

+

+

Carcinoma

X

Squamous Cell Papilloma

Prostate, Dorsal/lateral Lobe

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

Lymphoma Malignant

X

Prostate, Ventral Lobe

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

Adenoma

X

X

X

Adenoma, Multiple

X

Lymphoma Malignant

X

Seminal Vesicle

+

A

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

Testes

+

+

+

+

+

+

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+

+

+

+

+

+

+

+

+

+

Seminoma Malignant

HEMATOPOIETIC SYSTEM

Bone Marrow

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

Lymphoma Malignant

X

Lymph Node

+

+

+

+

+

+

Axillary, Lymphoma Malignant

X

Lumbar, Lymphoma Malignant

X

Mediastinal, Lymphoma Malignant

X

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2.5 BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------|
| | 0681 | 0713 | 0517 | 0293 | 0727 | 0779 | 0663 | 0767 | 0661 | 0449 | 0664 | 0660 | 0779 | 0772 | 0563 | 0661 | 0665 | 0578 | 0772 | 0772 | 0777 | 0777 | 0777 | 0777 | |
| ANIMAL ID | 001171 | 001181 | 001188 | 001198 | 001211 | 001221 | 001222 | 001222 | 001222 | 001233 | 001233 | 001233 | 001233 | 001233 | 001233 | 001233 | 001233 | 001233 | 001233 | 001244 | 001244 | 001244 | 001244 | 001255 | 001255 |

Pancreatic, Lymphoma Malignant

X

Lymph Node, Mandibular
Lymphoma Malignant

+

+ +

X

Lymph Node, Mesenteric
Lymphoma Malignant

+

X

Spleen
Lymphoma Malignant
Sarcoma

+ +

X

X

Thymus
Lymphoma Malignant

+ + A +

X

INTEGUMENTARY SYSTEM

Mammary Gland
Fibroadenoma
Fibroadenoma, Multiple
Lymphoma Malignant

+ +

X

X

X

Skin
Squamous Cell Carcinoma
Squamous Cell Papilloma
Subcutaneous Tissue, Fibroma
Subcutaneous Tissue, Lipoma
Subcutaneous Tissue, Sarcoma

+ + +

+

+

+

+

+

+

+

X

X X

X

X

MUSCULOSKELETAL 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|--|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2.5 BPA M | | 0681 | 0713 | 0517 | 0293 | 0727 | 0779 | 0663 | 0727 | 0661 | 0449 | 0664 | 0660 | 0779 | 0779 | 0553 | 0663 | 0665 | 0574 | 0772 | 0772 | 0772 | 0770 | 0770 | 0772 | |
| ANIMAL ID | | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0044 | 0044 | 0044 | 0044 | 0055 | |
| Bone, Femur | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem
Granular Cell Tumor Benign | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Brain, Cerebellum | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Brain, Cerebrum
Granular Cell Tumor Malignant | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Nerve Trigeminal | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| Peripheral Nerve, Sciatic | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| Peripheral Nerve, Tibial | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| Spinal Cord, Cervical | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| Spinal Cord, Lumbar | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| Spinal Cord, Thoracic | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung
Alveolar/Bronchiolar Carcinoma | | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | X |

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

M .. Missing tissue
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Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2.5 BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|------|------|------|
| | 0681 | 0713 | 0517 | 0293 | 0727 | 0779 | 0663 | 0777 | 0629 | 0664 | 0660 | 0723 | 0779 | 0543 | 0660 | 0665 | 0578 | 0724 | 0775 | 0772 | 0770 | 0770 | 0770 | 0772 | 0772 | | | | | | | | |
| | 0011 | 0011 | 0011 | 0011 | 0011 | 0012 | 0022 | 0022 | 0023 | 0033 | 0033 | 0044 | 0044 | 0055 | 0055 | 0066 | 0077 | 0077 | 0088 | 0099 | 0099 | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0010 | 0011 | 0012 |

Nose
Lymphoma Malignant

+ +

Trachea

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

SPECIAL SENSES SYSTEM

Eye

URINARY SYSTEM

Kidney
Lymphoma Malignant
Sarcoma, Metastatic, Spleen

+ +

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: 10034 - 04

Test Type: CHRONIC

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Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

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First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|--|
| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | |
| SPRAGUE DAWLEY (NCTR)
RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 4 | 6 | 7 | 6 | 7 | 7 | 1 | 6 | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 5 | 6 | 4 | 4 | 0 | 0 | |
| F1 2.5 BPA M | 6 | 5 | 2 | 1 | 2 | 2 | 7 | 4 | 4 | 9 | 3 | 9 | 7 | 2 | 2 | 5 | 8 | 5 | 9 | 7 | 7 | |
| | 2 | 0 | 7 | 4 | 8 | 4 | 7 | 7 | 0 | 6 | 9 | 4 | 9 | 5 | 3 | 4 | 4 | 3 | 0 | 6 | 6 | |
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 1 | 2 | 2 | 2 | 3 | 3 | 5 | 5 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | |
| | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |
| | | | | | | | | | | | | | | | | | | | | * TOTALS | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Esophagus | + | + | | + | | | | + | + | + | + | + | + | | | + | + | + | + | + | | | | 32 |
| Intestine Large, Colon | + | + | | A | | | | + | + | + | + | + | + | | | A | A | A | + | A | | | + | 22 |
| Intestine Small, Ileum | + | A | | A | | | | A | + | + | A | + | + | + | | A | A | A | + | A | | | A | 17 |
| Liver | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Hemangiosarcoma | | | | | | | X | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | 46 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Stomach, Forestomach | + | + | | + | | | | + | + | + | + | + | + | + | | A | + | + | + | + | | | + | 31 |
| Stomach, Glandular | + | + | | + | | | | + | + | + | + | + | + | + | | A | + | + | + | + | | | + | 30 |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | + | 1 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 1 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2.5 BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|
| | 0462 | 0650 | 0727 | 0614 | 0728 | 0774 | 0167 | 0557 | 0550 | 0664 | 0669 | 0664 | 0669 | 0775 | 0773 | 0554 | 0664 | 0443 | 0440 | 0776 | | 0726 | 0776 |
| ANIMAL ID | 04512 | 04522 | 04533 | 04511 | 04522 | 04531 | 04542 | 04561 | 04566 | 04566 | 04566 | 04566 | 04566 | 04566 | 04566 | 04566 | 04566 | 04566 | 04566 | 04566 | 04566 | 04566 | 04566 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Pheochromocytoma Benign | | | | | | | | | | | | | | X | | | | | | | | | 3 |
| Pheochromocytoma Malignant | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | 46 |
| Adenoma | | | | | | | | | | | | | | | X | | | | | | | | 3 |
| Carcinoma | | | | | X | | | | | | X | | X | | | | | | | | | | 3 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | 46 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pars Distalis, Adenoma | | X | | X | X | X | | | | | X | X | X | X | X | | X | | | | | X | 25 |
| Pars Intermedia, Adenoma | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | A | + | A | + | A | + | + | 40 |
| C-cell, Carcinoma | | | | | | | | | | | | X | | | | | | | | | | | 1 |
| Follicular Cell, Carcinoma | | | | | | | | | | | | | | | | | | | | | X | | 1 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Coagulating Gland | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | 46 |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |

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

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

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2.5 BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|----|----|----|
| | 04 | 06 | 07 | 06 | 07 | 07 | 01 | 06 | 05 | 05 | 06 | 06 | 06 | 07 | 07 | 05 | 06 | 04 | 04 | 00 | | 07 | 07 | 06 | 06 | 05 | 03 |
| ANIMAL ID | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Fat Pad, Epididymal | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Preputial Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Prostate, Dorsal/lateral Lobe | | | | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Prostate, Ventral Lobe | | | | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | 5 |
| Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Seminal Vesicle | | | | | | | | | | | | | | | | | | | | | | | | | | | 42 |
| Testes | | | | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| Seminoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | | | | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | | 9 |
| Axillary, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lumbar, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Mediastinal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

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

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

Experiment Number: 10034 - 04
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A
CAS Number: 80-05-7

Date Report Requested: 08/16/2017
Time Report Requested: 10:21:03
First Dose M/F: 09/25/12 / 09/25/12
Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2.5 BPA M | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|----|----|--|--|--|--|---|---|
| | ANIMAL ID | 4 | 6 | 7 | 6 | 7 | 7 | 1 | 6 | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 5 | 6 | 4 | 4 | 0 | 7 | 7 | | | | | | | |
| | 2 | 5 | 2 | 7 | 1 | 2 | 8 | 4 | 7 | 4 | 0 | 6 | 9 | 3 | 9 | 7 | 5 | 8 | 5 | 9 | 7 | 6 | 2 | | | | | | | |
| | 2 | 0 | 7 | 4 | 8 | 4 | 7 | 7 | 0 | 6 | 6 | 9 | 4 | 9 | 5 | 3 | 4 | 4 | 3 | 0 | 6 | 6 | 3 | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | | | | | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | | | | | | | |
| | 1 | 2 | 2 | 3 | 3 | 5 | 5 | 4 | 4 | 5 | 6 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 9 | 9 | 0 | 0 | 0 | | | | | | | |
| | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | |
| Pancreatic, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | |
| Lymph Node, Mandibular
Lymphoma Malignant | | + | | + | | | | | | | | | | | | + | + | | | | | + | | 10 | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | |
| Lymph Node, Mesenteric
Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | |
| Spleen
Lymphoma Malignant | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | 47 | | | | | | | |
| Sarcoma | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | |
| Thymus
Lymphoma Malignant | | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland
Fibroadenoma | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | | | | | | |
| Fibroadenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | |
| Skin
Squamous Cell Carcinoma | | | | | | | | | + | + | + | | | | | | + | + | | | + | + | 16 | | | | | | | |
| Squamous Cell Papilloma | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | 2 |
| Subcutaneous Tissue, Fibroma | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | |
| Subcutaneous Tissue, Lipoma | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | |
| Subcutaneous Tissue, Sarcoma | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | 1 | |

MUSCULOSKELETAL 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2.5 BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 0462 | 0650 | 0727 | 0614 | 0728 | 0774 | 0167 | 0654 | 0550 | 0556 | 0669 | 0663 | 0669 | 0772 | 0773 | 0554 | 0668 | 0443 | 0440 | 0776 | | 0776 | 0663 | | | | | | | |
| ANIMAL ID | 04512 | 04511 | 04522 | 04533 | 04531 | 04552 | 04551 | 04564 | 04562 | 04561 | 04562 | 04566 | 04566 | 04566 | 04566 | 04566 | 04566 | 04584 | 04584 | 04584 | 04588 | 04588 | 04588 | 04588 | 04588 | 04588 | 04588 | 04588 | 04588 | 04588 |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Granular Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Granular Cell Tumor Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Nerve Trigeminal | | | | + | | | | | | + | | | | | + | | | | | | + | | | | | | | | 6 | |
| Peripheral Nerve, Sciatic | | | | + | | | | | | + | | | | | + | | | | | | + | | | | | | | | 6 | |
| Peripheral Nerve, Tibial | | | | + | | | | | | + | | | | | + | | | | | | + | | | | | | | | 6 | |
| Spinal Cord, Cervical | | | | + | | | | | | + | | | | | + | | | | | | + | | | | | | | | 6 | |
| Spinal Cord, Lumbar | | | | + | | | | | | + | | | | | + | | | | | | + | | | | | | | | 6 | |
| Spinal Cord, Thoracic | | | | + | | | | | | + | | | | | + | | | | | | + | | | | | | | | 6 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | | + | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 39 | |
| Alveolar/Bronchiolar Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

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

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

Experiment Number: 10034 - 04
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Bisphenol A
CAS Number: 80-05-7

Date Report Requested: 08/16/2017
Time Report Requested: 10:21:03
First Dose M/F: 09/25/12 / 09/25/12
Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2.5 BPA M | DAY ON TEST | 0
4
6
2 | 0
6
5
0 | 0
7
2
7 | 0
6
1
4 | 0
7
2
8 | 0
7
2
4 | 0
1
7
7 | 0
6
4
7 | 0
5
4
0 | 0
5
9
6 | 0
6
3
9 | 0
6
6
4 | 0
7
2
5 | 0
7
2
3 | 0
5
8
4 | 0
6
4
3 | 0
4
9
0 | 0
7
2
6 | 0
7
2
6 | 0
6
5
3 | * TOTALS | |
|---|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|-----------------------|
| | ANIMAL ID | 0
4
5
1
2 | 0
4
5
2
1 | 0
4
5
2
1 | 0
4
5
3
2 | 0
4
5
5
1 | 0
4
5
5
2 | 0
4
6
4
1 | 0
6
6
4
2 | 0
6
6
5
1 | 0
6
6
5
2 | 0
6
6
6
1 | 0
6
6
6
2 | 0
6
6
7
1 | 0
8
4
7
1 | 0
8
4
7
2 | 0
8
4
8
1 | 0
8
4
9
2 | 0
8
4
9
1 | 0
8
4
9
2 | 0
8
5
0
1 | | 0
8
5
0
2 |
| Nose
Lymphoma Malignant | | + | + | | + | | + | + | + | + | + | + | + | | | + | + | + | + | + | | + | 32
1 |
| Trachea | | + | + | | + | | A | + | + | A | + | + | + | | | A | + | A | + | + | | + | 23 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | | | | | | | | | | | | | | | | | | | | | + | 1 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney
Lymphoma Malignant
Sarcoma, Metastatic, Spleen | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48
1
1 |
| Urinary Bladder | | | | | | | | | | | | | | | | | | | | | | | 1 |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ
Lymphoma Malignant | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48
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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | |
|--|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25.0 BPA M | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 |
| | | 6 | 5 | 7 | 7 | 5 | 4 | 7 | 3 | 6 | 4 | 7 | 7 | 7 | 5 | 5 | 7 | 6 | 5 | 7 | 5 | | 7 | 4 |
| | ANIMAL ID | 6 | 6 | 2 | 2 | 8 | 9 | 0 | 9 | 7 | 1 | 2 | 2 | 2 | 8 | 7 | 2 | 8 | 7 | 4 | 2 | 2 | 8 | 1 |
| | | 7 | 9 | 7 | 7 | 9 | 6 | 1 | 4 | 3 | 3 | 6 | 0 | 8 | 8 | 9 | 8 | 7 | 7 | 8 | 8 | 8 | 9 | 9 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| | | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 9 | 9 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 5 | 6 | 6 | 7 |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | | | + | + | + | + | + | + | | + | + | + | | + | + | | | | | + | + |
| Intestine Large, Colon
Adenocarcinoma | + | + | | | + | + | + | + | + | + | | + | + | + | | + | + | | | | | + | + |
| Intestine Small, Ileum | + | A | | | + | + | + | A | + | + | | + | + | + | | + | + | | | | | + | + |
| Intestine Small, Jejunum | | | | | | | | | | | | | | | | | | | | | | | + |
| Liver
Hepatocellular Adenoma, Multiple
Leukemia Mononuclear
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | X | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | + | | | | | | |
| Oral Mucosa
Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach | + | + | | | + | + | + | + | + | + | | + | + | + | | + | + | | + | + | | + | + |
| Stomach, Glandular
Squamous Cell Papilloma | + | + | | | + | + | + | + | + | + | | + | + | + | + | | + | + | + | + | | + | + |
| | | | | | | | | | | | | | | | | | | | | | | X | |

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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25.0 BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|-------|-------|-------|-------|-------|-------|-------|
| | 0667 | 0669 | 0727 | 0727 | 0589 | 0496 | 0771 | 0394 | 0673 | 0413 | 0726 | 0722 | 0722 | 0588 | 0577 | 0728 | 0657 | 0577 | 0728 | 0728 | | 0729 | 0488 | 0728 | 0729 | 0488 | 0729 | 0485 |
| ANIMAL ID | 00331 | 00332 | 00334 | 00342 | 00351 | 00352 | 00361 | 00362 | 00371 | 00372 | 00379 | 00392 | 00394 | 00401 | 00402 | 00405 | 00409 | 00411 | 00412 | 00421 | 00422 | 00441 | 00442 | 00444 | 00445 | 00446 | 00447 | 00461 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart
Leukemia Mononuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex
Leukemia Mononuclear
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adrenal Medulla
Pheochromocytoma Benign
Pheochromocytoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Islets, Pancreatic
Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland
Leukemia Mononuclear
Lymphoma Malignant
Pars Distalis, Adenoma
Pars Intermedia, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thyroid Gland
Follicular Cell, Carcinoma | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

GENERAL BODY SYSTEM

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | |
|--|----------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|---|
| SPRAGUE DAWLEY (NCTR)
RATS MALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | |
| | F1 25.0 BPA M | 6 | 5 | 7 | 7 | 5 | 4 | 7 | 3 | 6 | 4 | 7 | 7 | 7 | 5 | 5 | 7 | 6 | 5 | 7 | 5 | | 7 | 7 | 4 |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | |
| | | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 5 | 5 | 6 | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | |

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coagulating Gland
Leukemia Mononuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ductus Deferens | | | | | | | | | | | | | | | | | | | | | | | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Preputial Gland
Carcinoma | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + |
| | X | | | | | | | | X | | X | | | | | | | | X | | | | |
| Prostate, Dorsal/lateral Lobe
Leukemia Mononuclear
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Prostate, Ventral Lobe
Adenoma
Leukemia Mononuclear
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | X | | | | | | | | | | | | | | | | X | | | | |
| Seminal Vesicle | + | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

HEMATOPOIETIC SYSTEM

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

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | | | | |
|------------------------------------|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|-------|-------|-------|-------|-------|-------|-----|
| SPRAGUE DAWLEY (NCTR)
RATS MALE | | 067 | 056 | 072 | 072 | 058 | 049 | 070 | 039 | 067 | 041 | 072 | 072 | 072 | 058 | 057 | 072 | 068 | 057 | 072 | 054 | 022 | 028 | 077 | 048 | | 078 | 079 | 048 | 077 | 045 | 061 | 069 |
| F1 25.0 BPA M | | 00331 | 00332 | 00341 | 00342 | 00351 | 00352 | 00361 | 00362 | 00371 | 00372 | 00381 | 00382 | 00391 | 00392 | 00401 | 00402 | 00411 | 00412 | 00421 | 00422 | 00431 | 00432 | 00441 | 00442 | | 00451 | 00452 | 00461 | 00462 | 00471 | 00472 | |

Leukemia Mononuclear
 Lymphoma Malignant

Lymph Node
 Brachial, Lymphoma Malignant
 Cervical, Lymphoma Malignant
 Lumbar, Lymphoma Malignant
 Mediastinal, Lymphoma Malignant
 Pancreatic, Lymphoma Malignant
 Renal, Lymphoma Malignant

Lymph Node, Mandibular
 Lymphoma Malignant

Lymph Node, Mesenteric

Spleen
 Leukemia Mononuclear
 Lymphoma Malignant
 Sarcoma

Thymus
 Leukemia Mononuclear
 Lymphoma Malignant

INTEGUMENTARY SYSTEM

Mammary Gland
 Fibroadenoma

* .. Total animals with tissue examined microscopically; 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25.0 BPA M | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | | | | |
|---|-------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|------|------|------|------|------|------|------|
| ANIMAL ID | | 0667 | 0669 | 0777 | 0779 | 0558 | 0449 | 0770 | 0339 | 0667 | 0441 | 0772 | 0772 | 0778 | 0558 | 0557 | 0778 | 0668 | 0557 | 0774 | 0772 | | 0778 | 0448 | 0448 | 0779 | 0445 | 0449 | 0661 |
| 00331 | 00332 | 00334 | 0042 | 0051 | 0062 | 0071 | 0082 | 0091 | 0002 | 0012 | 0022 | 0032 | 0042 | 0052 | 0062 | 0072 | 0082 | 0092 | 0102 | 0112 | 0122 | 0132 | 0142 | 0152 | 0162 | 0172 | 0182 | 0192 | 0202 |

| | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Peripheral Nerve, Sciatic | | | | | | | | | | | | | | | | | | | | | + |
| Peripheral Nerve, Tibial | | | | | | | | | | | | | | | | | | | | | + |
| Spinal Cord, Cervical | | | | | | | | | | | | | | | | | | | | | + |
| Spinal Cord, Lumbar | | | | | | | | | | | | | | | | | | | | | + |
| Spinal Cord, Thoracic | | | | | | | | | | | | | | | | | | | | | + |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|--|--|---|---|---|---|---|---|--|---|---|---|---|--|---|---|---|--|--|---|---|--|--|---|---|--|
| Lung | + | + | | | + | + | + | + | + | + | | + | + | + | + | | + | + | + | | | + | + | | | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | | | + | + | + | + | + | + | | + | | + | + | | + | + | + | | | + | + | | | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | | | + | + | + | + | + | + | | + | | + | + | | + | + | + | | | + | + | | | + | + | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenoma | | | | | | | | | | | | | | | + | | | | | | | | | | | | | | | + |
| Carcinoma | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | X |

URINARY 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25.0 BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
| | 0560 | 0339 | 0580 | 0550 | 0728 | 0776 | 0644 | 0455 | 0773 | 0752 | 0540 | 0489 | 0669 | 0660 | 0727 | 0668 | 0252 | 0578 | 0728 | 0533 | | 0752 |
| ANIMAL ID | 04672 | 04681 | 04682 | 04691 | 04692 | 04671 | 04662 | 04661 | 04667 | 04677 | 04678 | 04688 | 04689 | 04681 | 04682 | 04681 | 04682 | 04683 | 04682 | 04683 | 04684 | 04682 |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Leukemia Mononuclear | | | | | | | | | | | | | X | | | | | | | | | 1 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Leukemia Mononuclear | | | | | | | | | | | | | X | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | X | | | | | | | | 1 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | 47 |
| Pheochromocytoma Benign | | | | | | | X | | | | | | | | | | | | | | | 2 |
| Pheochromocytoma Malignant | | | | | | | | | | | | | | | | X | | | | | | 1 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Adenoma | | | | | | | | | | | | | | | | | X | | | X | X | 7 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | 47 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Leukemia Mononuclear | | | | | | | | | | | | | X | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | X | | | | X | | | | 2 |
| Pars Distalis, Adenoma | X | | X | | | X | | X | X | X | | | | X | X | | X | | X | | X | 23 |
| Pars Intermedia, Adenoma | | | X | | | | | | | | | | | | | | | | | | | 1 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Follicular Cell, Carcinoma | | | | | | | | | | | | | | | | | | | | | | 1 |

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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

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 Bisphenol A
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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25.0 BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|
| | 0560 | 0339 | 0580 | 0550 | 0728 | 0776 | 0642 | 0457 | 0577 | 0577 | 0544 | 0666 | 0667 | 0767 | 0662 | 0257 | 0728 | 0772 | 0578 | 0733 | | 0757 | | | | |
| ANIMAL ID | 04672 | 04681 | 04682 | 04691 | 04692 | 06671 | 06672 | 06678 | 06679 | 06681 | 06682 | 06688 | 06689 | 06690 | 06691 | 06692 | 06698 | 06699 | 08601 | 08602 | 08608 | 08609 | 08613 | 08614 | 08618 | 08619 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|-------------------|
| Coagulating Gland
Leukemia Mononuclear | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47
1 |
| Ductus Deferens | + | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Preputial Gland
Carcinoma | | | | | | | | + | | | | | | | | | + | + | + | | | | | + | X | 15
5 | |
| Prostate, Dorsal/lateral Lobe
Leukemia Mononuclear
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48
1
1 |
| Prostate, Ventral Lobe
Adenoma
Leukemia Mononuclear
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48
2
1
1 |
| Seminal Vesicle | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

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

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

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25.0 BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|---|-------------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|--|
| | 0560 | 0339 | 0580 | 0510 | 0728 | 0776 | 0647 | 0457 | 0077 | 0077 | 0542 | 0774 | 0722 | 0485 | 0669 | 0675 | 0721 | 0688 | 0257 | 0722 | | 0578 | 0723 | 0537 | 0727 | |
| ANIMAL ID | 04672 | 04681 | 04682 | 04691 | 04692 | 0661 | 0662 | 0661 | 0662 | 0667 | 0667 | 0667 | 0667 | 0667 | 0668 | 0668 | 0668 | 0668 | 0668 | 0668 | 0668 | 0668 | 0668 | 0668 | 0668 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | X | | | | | | | | | | 1 | |
| Lymphoma Malignant | | X | | | | | | | | | | | | | X | | | | | X | | | | | 3 | |
| Lymph Node | | + | | + | | | | | | | | | | | + | | | | | + | | | | + | 13 | |
| Brachial, Lymphoma Malignant | | | | | | | | | | | | | | | X | | | | | | | | | | 1 | |
| Cervical, Lymphoma Malignant | | | | | | | | | | | | | | | X | | | | | | | | | | 1 | |
| Lumbar, Lymphoma Malignant | | | X | | | | | | | | | | | | X | | | | | | | | | | 2 | |
| Mediastinal, Lymphoma Malignant | | | | | | | | | | | | | | | X | | | | | | | | | | 1 | |
| Pancreatic, Lymphoma Malignant | | | | | | | | | | | | | | | X | | | | | | | | | | 1 | |
| Renal, Lymphoma Malignant | | | | | | | | | | | | | | | X | | | | | | | | | | 1 | |
| Lymph Node, Mandibular | | | | | | | | | | | | | | | | | | | | | | | | | 9 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | X | | | | | | | | | | 1 | |
| Lymph Node, Mesenteric | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Spleen | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | X | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | X | | | | | | | | | | | | X | | | | | X | | | | | 3 | |
| Sarcoma | | | | | | | | | | | | | | | | | | | | | | | X | | 1 | |
| Thymus | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | X | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | X | | | | | | | | | | 1 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Fibroadenoma | | | | | | | | | | | | | | | | | | | | | | | | 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: 10034 - 04
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A
CAS Number: 80-05-7

Date Report Requested: 08/16/2017
Time Report Requested: 10:21:03
First Dose M/F: 09/25/12 / 09/25/12
Lab: NCTR

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
|------------------------------------|--|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | | 5 | 3 | 5 | 5 | 7 | 7 | 6 | 4 | 5 | 7 | 7 | 5 | 4 | 6 | 6 | 7 | 6 | 2 | 5 | 7 | 7 | 5 | 7 |
| SPRAGUE DAWLEY (NCTR)
RATS MALE | | 6 | 3 | 8 | 1 | 2 | 2 | 7 | 7 | 7 | 2 | 2 | 4 | 8 | 5 | 5 | 2 | 1 | 8 | 6 | 2 | 2 | 3 | 2 |
| F1 25.0 BPA M | | 0 | 9 | 0 | 0 | 8 | 6 | 9 | 7 | 3 | 5 | 5 | 0 | 9 | 9 | 0 | 7 | 8 | 5 | 2 | 8 | 8 | 7 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| | | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | | 7 | 8 | 8 | 9 | 9 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | |
| | | * TOTALS | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|--|--|--|---|---|---|--|--|---|---|--|--|--|--|---|---|--|---|--|---|---|--|--|-----------|
| Skin | | | | + | + | + | | | + | + | | | | | + | + | | | | + | + | | | 14 |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | X | | | | | | | | 1 |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Subcutaneous Tissue, Fibroma | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Subcutaneous Tissue, Fibrosarcoma | | | | | | | | | X | | | | | | | | | | | | | | | 2 |
| Subcutaneous Tissue, Lipoma | | | | | | | | | | | | | | | | | | X | | | | | | 1 |
| Subcutaneous Tissue, Myxosarcoma | | | | | | X | | | | | | | | | | | | | | | | | | 1 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Bone | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Skeletal Muscle | | | | | | | | | | | | | + | + | | | | | + | | | | | 3 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Leukemia Mononuclear | | | | | | | | | | | | X | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | 1 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Leukemia Mononuclear | | | | | | | | | | | | X | | | | | | | | | | | 1 |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Leukemia Mononuclear | | | | | | | | | | | | X | | | | | | | | | | | 1 |
| Lymphoma Malignant | | X | | | | | | | | | | | X | | | | | | | | | | 2 |
| Nerve Trigeminal | | | | | | | | | | | + | | + | + | | | | | + | | | | 5 |

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

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

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25.0 BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|
| | 0560 | 0339 | 0580 | 0510 | 0728 | 0726 | 0647 | 0457 | 0073 | 0075 | 0072 | 0044 | 0089 | 0066 | 0065 | 0072 | 0061 | 0028 | 0056 | 0072 | | 0075 | 0073 | 0072 |
| ANIMAL ID | 04672 | 04681 | 04682 | 04681 | 04672 | 04661 | 04666 | 04666 | 04666 | 04666 | 04666 | 04666 | 04666 | 04666 | 04666 | 04666 | 04666 | 04666 | 04666 | 04666 | 04666 | 04666 | 04666 | 04666 |
| Peripheral Nerve, Sciatic | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Tibial | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Cervical | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Lumbar | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Thoracic | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|--|--|---|---|---|--|---|---|---|---|---|---|---|---|---|--|---|---|--|--|
| Lung | + | + | + | + | | | + | + | + | | + | + | + | + | + | + | + | + | | | + | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | | | + | + | + | | + | + | + | + | | | + | + | + | | | + | | |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | A | + | + | | | + | + | + | | + | + | + | + | | | + | + | + | | | + | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY 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: 10034 - 04

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Date Report Requested: 08/16/2017

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

First Dose M/F: 09/25/12 / 09/25/12

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25.0 BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|----|
| | 0560 | 0339 | 0580 | 0550 | 0778 | 0776 | 0647 | 0457 | 0577 | 0577 | 0545 | 0489 | 0666 | 0667 | 0722 | 0488 | 0555 | 0218 | 0566 | 0772 | | 0778 | 0553 | 0773 | 0757 | |
| ANIMAL ID | 04672 | 04681 | 04682 | 04661 | 04662 | 04661 | 04662 | 04661 | 04662 | 04661 | 04662 | 04661 | 04662 | 04661 | 04662 | 04661 | 04662 | 04661 | 04662 | 04661 | 04662 | 04661 | 04662 | 04661 | 04662 | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Leukemia Mononuclear | | | | | | | | | | | | | | X | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | X | | | | | | | | | | | 1 |
| Oncocytoma Benign | | | | | | | X | | | | | | | | | | | | | | | | | | | 1 |
| Urinary Bladder | | + | | | | | | | | | | | | | | | | | | | | | | | | 3 |

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | X | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | X | | | | | | | | | | | | | X | | | | | X | | | | | | 3 |

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

M .. Missing tissue
 A .. Autolysis precludes evaluation
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Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | | |
|---|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | | | |
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 250.0BPA M | ANIMAL ID | 3 | 7 | 4 | 5 | 6 | 7 | 6 | 6 | 7 | 7 | 5 | 7 | 7 | 5 | 6 | 6 | 5 | 6 | 7 | 7 | | 7 | 6 | 6 | 7 | |
| | | 1 | 1 | 6 | 7 | 0 | 0 | 7 | 8 | 2 | 2 | 8 | 2 | 2 | 9 | 9 | 9 | 7 | 0 | 0 | 2 | 2 | 2 | 3 | 2 | 2 | |
| | | 2 | 3 | 8 | 5 | 2 | 0 | 4 | 7 | 6 | 7 | 9 | 8 | 8 | 5 | 7 | 8 | 4 | 1 | 6 | 7 | 7 | 8 | 0 | 3 | 2 | 8 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 4 |
| | | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | |
| | | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 1 | 1 | 2 | 2 | 2 | 3 | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Esophagus | + | + | + | + | + | + | + | + | | + | | + | + | + | + | + | + | | | + | + | | | | | |
| Intestine Large, Colon
Lymphoma Malignant | + | + | A | + | + | + | + | + | | + | | + | + | + | + | + | + | | | A | + | | | | | |
| Intestine Small, Ileum | + | A | A | A | + | + | A | + | | + | | + | + | + | + | + | A | | | A | + | | | | | |
| Liver
Fibrosarcoma, Metastatic, Skin
Hemangiosarcoma
Hepatocellular Adenoma
Hepatocellular Carcinoma
Lipoma
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas
Lymphoma Malignant
Acinar Cell, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | | + | | + | + | + | + | + | + | | | | | | + | + | | |
| Stomach, Glandular | + | + | A | + | + | + | + | + | | + | | + | + | + | + | + | + | | | | | A | + | | | |

CARDIOVASCULAR SYSTEM

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

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

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Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 250.0BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------------|--------------------|--------------------|
| | 0
3
1
2 | 0
7
1
3 | 0
4
6
8 | 0
5
7
5 | 0
6
0
2 | 0
7
0
0 | 0
6
7
4 | 0
6
8
7 | 0
7
2
6 | 0
7
2
7 | 0
5
2
8 | 0
7
2
8 | 0
5
9
5 | 0
6
9
7 | 0
6
9
8 | 0
5
7
4 | 0
6
0
1 | 0
7
0
6 | 0
7
2
7 | 0
7
2
7 | 0
6
2
8 | 0
6
3
0 | 0
6
2
3 | 0
7
2
8 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
0
4
9
1 | males
(cont...) | |

Heart
Lymphoma Malignant

+ +

ENDOCRINE SYSTEM

Adrenal Cortex
Adenoma
Lymphoma Malignant

+ +

Adrenal Medulla
Lymphoma Malignant
Pheochromocytoma Benign

+
 X X

Islets, Pancreatic
Adenoma
Lymphoma Malignant

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

Parathyroid Gland
Lymphoma Malignant

+ +

Pituitary Gland
Lymphoma Malignant
Pars Distalis, Adenoma

+
 X X X X X X X X X X

Thyroid Gland
Lymphoma Malignant
C-cell, Carcinoma

+ A A + + + A +
 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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 250.0BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|
| | 0
3
1
2 | 0
7
1
3 | 0
4
6
8 | 0
5
7
5 | 0
6
0
2 | 0
7
0
0 | 0
6
7
4 | 0
6
8
7 | 0
7
2
6 | 0
7
2
7 | 0
5
2
8 | 0
7
2
8 | 0
5
9
5 | 0
6
9
7 | 0
6
9
8 | 0
5
7
4 | 0
6
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1 | 0
7
2
6 | 0
7
2
7 | 0
7
2
8 | 0
6
3
0 | 0
6
2
3 | 0
7
2
8 | | |
| ANIMAL ID | 0
0
4
9
1 | 0
0
4
9
2 | 0
0
5
0
1 | 0
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5
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1 | 0
0
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2 | 0
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1 | 0
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1 | 0
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8
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2 | 0
2
6
9
1 | 0
2
6
9
2 | 0
4
8
1
1 | 0
4
8
1
2 | 0
4
8
2
1 | 0
4
8
2
2 | 0
4
8
2
3 | |

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coagulating Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesothelioma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Fat Pad, Epididymal | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lipoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Preputial Gland | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | + | + | | | | | | | + | + | + | | | | | | | + | | + | |
| Squamous Cell Papilloma | | | | | | | | | | | | | X | | | | | | | | | | | X | |
| Prostate, Dorsal/lateral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prostate, Ventral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Seminal Vesicle | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesothelioma 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|---|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 250.0BPA M | ANIMAL ID | 3 | 7 | 4 | 5 | 6 | 7 | 6 | 6 | 7 | 7 | 5 | 7 | 7 | 5 | 6 | 6 | 5 | 6 | 6 | 5 | 6 | 7 | 7 | 7 | |
| | | 1 | 1 | 6 | 7 | 0 | 0 | 7 | 8 | 2 | 2 | 8 | 2 | 2 | 9 | 9 | 9 | 7 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | |
| | | 2 | 3 | 8 | 5 | 2 | 0 | 4 | 7 | 6 | 7 | 9 | 8 | 8 | 5 | 7 | 8 | 4 | 1 | 6 | 7 | 7 | 8 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | |
| | | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | |
| | | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 5 | 5 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 1 | 1 | 2 | 2 | 3 | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | + | | | | + | | | | | + | | + | | | | | | | | | + | | + | |
| Axillary, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | | | | + | | | | + | | | | | | + | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibroadenoma | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Skin | | + | | + | | + | + | + | | + | | | | | | | | | | | | | | | |
| Basal 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

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| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 250.0BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|------------------|-----------------------|------------------|
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8 | 0
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5 | 0
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7 | 0
6
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8 | 0
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4 | 0
6
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1 | 0
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2
6 | 0
7
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7 | 0
7
2
8 | | | 0
6
3
0 | 0
6
2
3 | 0
7
2
8 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
0
4
9
1 | |

Squamous Cell Papilloma X
 Subcutaneous Tissue, Fibroma X
 Subcutaneous Tissue, Fibrosarcoma
 Subcutaneous Tissue, Lipoma

MUSCULOSKELETAL SYSTEM

Bone +
 Tibia, Osteosarcoma X
 Vertebra, Chordoma

Bone, Femur +

Skeletal Muscle

NERVOUS SYSTEM

Brain, Brain Stem + + A +

Brain, Cerebellum + + A +

Brain, Cerebrum
 Granular Cell Tumor Benign + + A +
 Lymphoma Malignant X X

Nerve Trigeminal + +

Peripheral Nerve, Sciatic + +

Peripheral Nerve, Tibial + +

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

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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 250.0BPA M | DAY ON TEST | | 0312 | 0713 | 0468 | 0575 | 0670 | 0770 | 0678 | 0674 | 0676 | 0777 | 0678 | 0778 | 0779 | 0575 | 0666 | 0667 | 0574 | 0661 | 0776 | 0777 | 0778 | 0663 | 0662 | 0778 |
| | ANIMAL ID | | 00491 | 00492 | 00501 | 00502 | 00511 | 00512 | 00521 | 00522 | 00531 | 00532 | 00541 | 00542 | 00551 | 00552 | 00561 | 00562 | 00571 | 00572 | 00581 | 00582 | 00591 | 00592 | 00601 | 00602 |

males
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesothelioma 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
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|-------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE

F1 250.0BPA M | | DAY ON TEST | 04
61 | 03
43 | 05
18 | 04
74 | 05
83 | 04
91 | 06
31 | 03
92 | 06
10 | 07
27 | 07
20 | 05
57 | 02
45 | 04
86 | 07
27 | 03
69 | 07
27 | 06
78 | 07
26 | 07
28 | 07
28 | 07
14 | 06
09 | 06
27 | * TOTALS |
| | | ANIMAL ID | 04
83
2 | 04
88
1 | 04
48
2 | 04
48
1 | 04
48
2 | 06
69
1 | 06
69
2 | 06
69
1 | 06
69
2 | 06
69
1 | 06
69
2 | 06
69
1 | 06
69
2 | 06
69
1 | 08
87
2 | 08
87
1 | 08
87
2 | 08
87
1 | 08
87
2 | 08
87
1 | 08
87
2 | 08
87
1 | 08
87
2 | 08
89
1 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------|
| Esophagus | + | + | + | + | + | + | + | + | + | | | | | + | + | + | | | | + | + | + | | | | | | 36 | |
| Intestine Large, Colon | A | + | + | + | + | + | + | + | + | | | | | + | + | + | | | | A | + | + | + | | | + | A | A | 30 |
| Lymphoma Malignant | | | | | | | | | X | | | | | | | | | | | | | | | | | | | 1 | |
| Intestine Small, Ileum | A | + | + | A | + | + | A | + | + | | | | | + | + | + | | | | A | + | + | + | | | + | A | A | 24 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Fibrosarcoma, Metastatic, Skin | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | 1 |
| Hemangiosarcoma | | | | X | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Hepatocellular Adenoma | | | | | | | | X | | | | | | | | | X | | | | | | | | | | | 2 | |
| Hepatocellular Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | X | | | | 2 | |
| Lipoma | | | | | X | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | X | | | | | | X | | | | | | | | | | | | | | | | | X | | 3 | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Lymphoma Malignant | | | X | | | | | | X | | | | | | | | | | | | | | | | | | | 2 | |
| Acinar Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | | | | | + | + | + | | | | + | + | + | | | + | + | + | 36 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | | | | | + | + | + | | | | A | + | + | + | | | + | A | + | 32 |

CARDIOVASCULAR SYSTEM

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

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
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RATS MALE
F1 250.0BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--|--|
| | 0461 | 0343 | 0518 | 0474 | 0583 | 0491 | 0631 | 0392 | 0610 | 0777 | 0750 | 0524 | 0488 | 0727 | 0369 | 0727 | 0706 | 0678 | 0728 | 0728 | 0714 | 0709 | 0662 | 0677 | | | |
| ANIMAL ID | 048332 | 048841 | 048842 | 048845 | 048851 | 048852 | 048861 | 048862 | 048866 | 048869 | 048891 | 048892 | 048893 | 048894 | 048895 | 048896 | 048897 | 048898 | 048899 | 048899 | 048899 | 048899 | 048899 | 048899 | 048899 | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Lymphoma Malignant | | | X | | | | | X | | | | | | | | | | | | | | | | | 2 | | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Adenoma | | | | | | | | | | | | | | | | X | | | | | | | | | 1 | | |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Lymphoma Malignant | | | | | | | | X | | | | | | | | | | | | | | | | 1 | | | |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | X | | | 3 | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | | |
| Adenoma | | | | | | | | | | | | | | | | X | | | | | | | | 1 | | | |
| Lymphoma Malignant | | | | | | | | X | | | | | | | | | | | | | | | | 1 | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Lymphoma Malignant | | | | | | | | X | | | | | | | | | | | | | | | | 1 | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Lymphoma Malignant | | | X | | | | | X | | | | | | | | | | | | | | | | 2 | | | |
| Pars Distalis, Adenoma | X | | | X | X | X | | X | | X | X | | | | | | | | X | | X | | | 21 | | | |
| Thyroid Gland | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | 44 | | | |
| Lymphoma Malignant | | | | | | | | X | | | | | | | | | | | | | | | | 1 | | | |
| C-cell, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | |

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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 250.0BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0461 | 0343 | 0518 | 0474 | 0583 | 0491 | 0631 | 0392 | 0600 | 0717 | 0770 | 0525 | 0244 | 0478 | 0369 | 0727 | 0770 | 0618 | 0722 | 0728 | 0778 | 0778 | 0614 | 0609 | |
| ANIMAL ID | 04832 | 04832 | 04832 | 04832 | 04832 | 06691 | 06691 | 06691 | 06691 | 06691 | 06691 | 06691 | 06691 | 06691 | 06877 | 06877 | 06877 | 06877 | 06877 | 06877 | 06877 | 06877 | 06877 | 06877 | 06877 |

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
| Coagulating Gland | + | | | | | | | | | | | | | | | | | | | | | | | | 49 |
| Epididymis | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Mesothelioma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Fat Pad, Epididymal | + | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lipoma | X | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Preputial Gland | + | | | | | | | | | | | | | | | | | | | | | | | | 13 |
| Carcinoma | X | | | | | | | | | | | | | | | | | | | | | | | | 5 |
| Squamous Cell Papilloma | X | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Prostate, Dorsal/lateral Lobe | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Prostate, Ventral Lobe | + | | | | | | | | | | | | | | | | | | | | | | | | 49 |
| Adenoma | X | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Seminal Vesicle | A + + A + + A + + + + + + + A + + + + + + + A A | | | | | | | | | | | | | | | | | | | | | | | | 41 |
| Adenoma | X | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Testes | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| 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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

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 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 250.0BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0461 | 0343 | 0518 | 0474 | 0583 | 0491 | 0631 | 0392 | 0610 | 0727 | 0750 | 0527 | 0486 | 0737 | 0379 | 0727 | 0608 | 0716 | 0722 | 0728 | 0778 | 0714 | 0609 | 0627 | |
| ANIMAL ID | 04832 | 04884 | 04884 | 04884 | 04884 | 04884 | 04884 | 04884 | 04884 | 04884 | 04884 | 04884 | 04884 | 04884 | 04884 | 04884 | 04884 | 04884 | 04884 | 04884 | 04884 | 04884 | 04884 | 04884 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Lymphoma Malignant | | | X | | | | | X | | | | | | | | | | | | | | X | | | 3 |
| Lymph Node | | | + | | | | + | + | | + | | | | + | | + | + | + | | | | | + | | 15 |
| Axillary, Lymphoma Malignant | | | | | | | | X | | | | | | | | | | | | | | | | | 1 |
| Lumbar, Lymphoma Malignant | | | | | | | | X | | | | | | | | | | | | | | | | | 2 |
| Mediastinal, Lymphoma Malignant | | | | | | | | X | | | | | | | | | | | | | | | | | 2 |
| Pancreatic, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymph Node, Mandibular | | | + | | | | + | + | | | | + | | | | | | | + | | | | | | 8 |
| Lymphoma Malignant | | | X | | | | | X | | | | | | | | | | | | | | | | | 2 |
| Lymph Node, Mesenteric | | | | | | | | + | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | X | | | | | | | | | | | | | | | | | 1 |
| Spleen | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 47 |
| Lymphoma Malignant | | | X | | | | | X | | | | | | | | | | | | | | X | | | 3 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Lymphoma Malignant | | | X | | | | | X | | | | | | | | | | | | | | | | | 2 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Fibroadenoma | | | | | | | | | | | | | | X | | | | | | | | | | | 2 |
| Skin | | | | | | | + | | | + | + | | | + | | + | + | | | | + | | + | | 14 |
| Basal 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 250.0BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|---|----|----|
| | 0461 | 0343 | 0518 | 0474 | 0583 | 0491 | 0631 | 0392 | 0610 | 0727 | 0770 | 0525 | 0244 | 0488 | 0722 | 0366 | 0778 | 0612 | 0728 | 0774 | 0610 | 0778 | 0619 | 0627 | | | | |
| ANIMAL ID | 04832 | 04841 | 04844 | 04845 | 04888 | 04891 | 04899 | 04899 | 04899 | 04899 | 04899 | 04899 | 04899 | 04899 | 04899 | 04899 | 04899 | 04899 | 04899 | 04899 | 04899 | 04899 | 04899 | 04899 | | | | |
| Spinal Cord, Cervical | + | | | + | + | | | | | | | | | | | | | | | + | | + | + | + | 8 | | | |
| Spinal Cord, Lumbar | + | | | + | + | | | | | | | | | | | | | | | + | | + | + | + | 8 | | | |
| Spinal Cord, Thoracic | + | | | + | + | | | | | | | | | | | | | | | + | | + | + | + | 8 | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | | + | + | + | + | | + | + | + | 38 | |
| Chordoma, Metastatic, Bone | | | | | | | | | | | | | | | | | | | | | | | | X | | | 1 | |
| Lymphoma Malignant | | | | X | | | | | | X | | | | | | | | | | | | | | | | | 2 | |
| Nose | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | | + | + | + | | | + | + | + | 34 | |
| Lymphoma Malignant | | | | X | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Trachea | A | + | + | A | + | + | + | + | + | | | | + | + | + | | | A | | + | + | + | | | + | A | A | 27 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lymphoma Malignant | | | | X | | | | | | X | | | | | | | | | | | | | | | X | | 3 | |
| Urinary Bladder | | | | | | | | | + | | | | | | | | | + | | | | | | | | | 5 | |
| Transitional Epithelium, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

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

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|---|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|---|-----------|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 |
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 250.0BPA M | ANIMAL ID | 4 | 3 | 5 | 4 | 5 | 4 | 6 | 3 | 6 | 7 | 7 | 5 | 2 | 4 | 7 | 3 | 7 | 7 | 6 | 7 | | 7 | 6 | 6 |
| | | 6 | 4 | 1 | 7 | 8 | 9 | 3 | 9 | 1 | 2 | 2 | 5 | 4 | 8 | 2 | 6 | 2 | 0 | 1 | 2 | 2 | 2 | 1 | |
| | | 1 | 3 | 8 | 4 | 3 | 1 | 1 | 2 | 0 | 7 | 0 | 7 | 5 | 6 | 7 | 9 | 7 | 6 | 8 | 6 | 8 | 8 | 4 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| | | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | | 3 | 4 | 4 | 4 | 5 | 5 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | | |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Multiple Organ | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | X | | | | | X | | | | | | | | | | | | | X | | | |
| Mesothelioma Malignant | | | | | | | | | | | | | | | X | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2500.BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
| | 0302 | 0306 | 0308 | 0311 | 0315 | 0317 | 0320 | 0322 | 0325 | 0327 | 0330 | 0332 | 0335 | 0337 | 0340 | 0342 | 0345 | 0347 | 0350 | 0352 | 0355 | 0357 | 0360 | 0362 | |
| ANIMAL ID | 00651 | 00662 | 00666 | 00667 | 00671 | 00672 | 00678 | 00681 | 00682 | 00686 | 00688 | 00688 | 00688 | 00688 | 00688 | 00688 | 00688 | 00688 | 00688 | 00688 | 00688 | 00688 | 00688 | 00688 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | | + | | + | + | | + | | + | | + | + | + | + | | | | | + | |
| Intestine Large, Colon | + | + | + | + | | + | | + | + | | + | | + | | + | | A | + | + | A | | | | + |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | X | | | | | | | | | | | | X | | | | | | | | | | | |
| Intestine Small, Duodenum | | | | | | | | | | | | | | | | | | | | | | | | + |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | X |
| Intestine Small, Ileum | + | + | + | + | | + | | + | + | | + | | + | | + | | A | + | + | A | | | + | |
| Lymphoma Malignant | | | | | | | | | | | | X | | | | | | | | | | | | |
| Intestine Small, Jejunum | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | | | | | | | X |
| Hepatocellular Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocellular Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | X | | | | | | | | | | | | | X | | | | | | | | | | |
| Sarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | X |
| Mesentery | | | | | | + | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | + | | | | | | | | | | | | | | | | | | | | |

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

M .. Missing tissue
 A .. Autolysis precludes evaluation
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Experiment Number: 10034 - 04
 Test Type: CHRONIC
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 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2500.BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|--|
| | 0302 | 0306 | 0311 | 0315 | 0320 | 0324 | 0329 | 0333 | 0338 | 0342 | 0347 | 0351 | 0356 | 0400 | 0404 | 0409 | 0413 | 0418 | 0422 | 0427 | 0431 | 0436 | 0440 | 0445 | | |
| ANIMAL ID | 00651 | 00661 | 00671 | 00681 | 00691 | 00701 | 00711 | 00721 | 00731 | 00741 | 00751 | 00761 | 00771 | 00781 | 00791 | 00801 | 00811 | 00821 | 00831 | 00841 | 00851 | 00861 | 00871 | 00881 | 00891 | |
| Fibrosarcoma | | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Fibroma | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | X | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | | | + | | + | + | | | + | | + | | + | + | + | + | | | | + | | |
| Stomach, Glandular | + | + | + | + | | | + | | + | + | | | + | | + | | + | + | + | + | | | | + | | |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | X | | | | | | | | | | | | | X | | | | | | | | | | | | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Adenoma | | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | X | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Sarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bilateral, Pheochromocytoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

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Experiment Number: 10034 - 04
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 Bisphenol A
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| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2500.BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
| | 0302 | 0306 | 0311 | 0315 | 0320 | 0324 | 0329 | 0333 | 0338 | 0342 | 0347 | 0351 | 0356 | 0400 | 0404 | 0409 | 0413 | 0418 | 0422 | 0427 | 0431 | 0436 | 0440 | | |
| ANIMAL ID | 00651 | 00652 | 00653 | 00654 | 00655 | 00656 | 00657 | 00658 | 00659 | 00660 | 00661 | 00662 | 00663 | 00664 | 00665 | 00666 | 00667 | 00668 | 00669 | 00670 | 00671 | 00672 | 00673 | 00674 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Islets, Pancreatic Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Adenoma | | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | | X |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coagulating Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Sarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | | X |

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2500.BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|---|
| | 0
3
0
2 | 0
5
8
2 | 0
5
4
2 | 0
5
4
1 | 0
7
2
5 | 0
7
2
6 | 0
5
8
9 | 0
7
2
7 | 0
5
8
6 | 0
6
3
1 | 0
7
2
8 | 0
7
2
7 | 0
4
8
0 | 0
7
2
8 | 0
7
4
9 | 0
4
2
8 | 0
6
7
8 | 0
4
1
2 | 0
5
6
7 | 0
7
0
0 | 0
7
2
7 | 0
7
3
1 | 0
6
6
9 | 0
7
2
6 | | | |
| ANIMAL ID | 0
0
6
5
1 | 0
0
6
5
2 | 0
0
6
6
1 | 0
0
6
6
2 | 0
0
6
7
1 | 0
0
6
7
2 | 0
0
6
8
1 | 0
0
6
8
2 | 0
0
6
9
1 | 0
0
6
9
2 | 0
2
8
1
2 | 0
2
8
1
2 | 0
2
8
1
2 | 0
2
8
1
2 | 0
2
8
3
1 | 0
2
8
3
2 | 0
2
8
4
1 | 0
2
8
4
2 | 0
2
8
5
2 | 0
4
9
7
1 | 0
4
9
7
2 | 0
4
9
7
1 | 0
4
9
8
2 | 0
4
9
8
1 | 0
4
9
8
2 | | |
| Fat Pad, Epididymal
Leukemia Granulocytic
Sarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | | + | X |
| Preputial Gland
Carcinoma
Squamous Cell Papilloma | | | + | | | | + | | | + | | | | + | + | | | + | + | | | | | | | | |
| Prostate, Dorsal/lateral Lobe
Lymphoma Malignant
Sarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prostate, Ventral Lobe
Adenoma
Sarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Seminal Vesicle
Sarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Testes
Sarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Bone Marrow
Leukemia Granulocytic
Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node
Axillary, 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|---|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2500.BPA M | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | | 3 | 5 | 5 | 5 | 7 | 7 | 5 | 7 | 5 | 6 | 7 | 7 | 4 | 7 | 7 | 4 | 7 | 6 | 4 | 5 | 7 | 7 | 7 | 6 | |
| | | 0 | 8 | 4 | 4 | 2 | 2 | 8 | 2 | 8 | 3 | 2 | 2 | 8 | 2 | 2 | 4 | 2 | 7 | 1 | 6 | 0 | 2 | 3 | 6 | 2 |
| | | 2 | 2 | 2 | 1 | 5 | 6 | 9 | 7 | 6 | 1 | 8 | 7 | 0 | 8 | 9 | 9 | 8 | 8 | 2 | 7 | 0 | 7 | 1 | 9 | 6 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | |
| | | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 7 | 7 | 8 | 8 | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |

Brachial, Lymphoma Malignant
 Cervical, Lymphoma Malignant
 Inguinal, Lymphoma Malignant
 Lumbar, Lymphoma Malignant
 Lumbar, Sarcoma, Metastatic, Skin
 Mediastinal, Lymphoma Malignant
 Pancreatic, Lymphoma Malignant
 Popliteal, Lymphoma Malignant
 Renal, Hemangioma
 Renal, Lymphoma Malignant

X
 X
 X
 X
 X
 X
 X
 X
 X

Lymph Node, Mandibular
 Lymphoma Malignant

+
 X

+

+

+

+

Lymph Node, Mesenteric
 Lymphoma Malignant

+
 X

+

Spleen
 Hemangiosarcoma
 Leukemia Granulocytic
 Lymphoma Malignant
 Sarcoma, Metastatic, Uncertain Primary Site

+
 X
 X

+
 X
 X

Thymus
 Lymphoma Malignant

+
 X

+ +

INTEGUMENTARY SYSTEM

Mammary Gland
 Fibroadenoma

+
 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: 10034 - 04

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Date Report Requested: 08/16/2017

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

First Dose M/F: 09/25/12 / 09/25/12

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|--|----------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | | 3 | 5 | 5 | 5 | 7 | 7 | 5 | 7 | 5 | 6 | 7 | 7 | 4 | 7 | 7 | 4 | 7 | 6 | 4 | 5 | 7 | 7 | 7 | 6 | | 7 |
| SPRAGUE DAWLEY (NCTR)
RATS MALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | F1 2500.BPA M | 2 | 2 | 2 | 1 | 5 | 6 | 9 | 7 | 6 | 1 | 8 | 7 | 0 | 8 | 9 | 9 | 8 | 8 | 2 | 7 | 0 | 2 | 3 | 6 | 2 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 0 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 5 | 5 | 6 | 6 | 7 | 8 | 8 | 9 | 9 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 7 | 7 | 8 | 8 | 9 | 9 | 9 | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Fibroadenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibroma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Fibroma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Lipoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Bone | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cranium, Osteosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Brain, Brain Stem | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma, Deep Invasion | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Cerebellum | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Cerebrum | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Granular Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2500.BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|--|
| | 0302 | 0306 | 0308 | 0311 | 0315 | 0317 | 0320 | 0322 | 0325 | 0327 | 0330 | 0332 | 0335 | 0337 | 0340 | 0342 | 0345 | 0347 | 0350 | 0352 | 0355 | 0357 | 0360 | 0362 | | |
| ANIMAL ID | 00651 | 00661 | 00662 | 00667 | 00671 | 00672 | 00678 | 00682 | 00689 | 00691 | 00692 | 00698 | 00699 | 00701 | 00702 | 00708 | 00711 | 00712 | 00718 | 00721 | 00722 | 00727 | 00728 | 00731 | 00732 | |
| Nerve Trigeminal | | + | | | | + | | | | + | + | | | | + | | | + | + | | | + | + | | | |
| Peripheral Nerve, Sciatic | | + | | | | + | | | | + | + | | | | + | | | + | + | | | + | + | | | |
| Peripheral Nerve, Tibial | | + | | | | + | | | | + | + | | | | + | | | + | + | | | + | + | | | |
| Spinal Cord, Cervical | | + | | | | + | | | | + | + | | | | + | | | + | + | | | + | + | | | |
| Spinal Cord, Lumbar | | + | | | | + | | | | + | + | | | | + | | | + | + | | | + | + | | | |
| Spinal Cord, Thoracic | | + | | | | + | | | | + | + | | | | + | | | + | + | | | + | + | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | | | + | | | + | + | | | + | | | + | | | + | + | + | + | | + | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | X | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Sarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Nose | + | + | + | + | | | + | | | + | + | | | + | | | + | | | + | + | + | + | | + | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | | | + | | | + | + | | | + | | | + | | | + | + | + | + | | + | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | | | | | | | | | | | | | | | | | | | | | | | | + | |

* .. Total animals with tissue examined microscopically; 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: 10034 - 04
 Test Type: CHRONIC
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 Bisphenol A
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Date Report Requested: 08/16/2017
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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2500.BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|--|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 3 | 5 | 5 | 5 | 7 | 7 | 5 | 7 | 5 | 6 | 7 | 7 | 4 | 7 | 7 | 4 | 7 | 6 | 4 | 5 | 7 | 7 | 7 | 6 | 7 | | |
| | 0 | 8 | 4 | 4 | 2 | 2 | 8 | 2 | 8 | 3 | 2 | 2 | 8 | 2 | 2 | 4 | 2 | 7 | 1 | 6 | 0 | 2 | 3 | 6 | 2 | | |
| | 2 | 2 | 2 | 1 | 5 | 6 | 9 | 7 | 6 | 1 | 8 | 7 | 0 | 8 | 9 | 9 | 8 | 8 | 2 | 7 | 0 | 7 | 1 | 9 | 6 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | | |
| | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 7 | 7 | 8 | 8 | 9 | | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | | |

Zymbal's Gland

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | X | | | | | | | | | | | X | | | | | | | | | | | | | |
| Urinary Bladder | | | | | | | | | | | | | | | | | | | | | | | | | + |

SYSTEMIC LESIONS

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

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

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

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2500.BPA M | | 4 | 7 | 5 | 7 | 5 | 6 | 5 | 3 | 6 | 4 | 5 | 6 | 6 | 6 | 5 | 7 | 7 | 7 | 7 | 5 | 7 | 6 | 6 | 3 | 6 |
| | | 6 | 0 | 7 | 2 | 2 | 9 | 8 | 4 | 1 | 4 | 6 | 3 | 9 | 4 | 1 | 2 | 2 | 2 | 3 | 4 | 0 | 4 | 7 | 8 | 3 |
| | | 6 | 8 | 1 | 7 | 7 | 2 | 2 | 9 | 5 | 4 | 6 | 8 | 5 | 6 | 4 | 6 | 7 | 8 | 0 | 7 | 5 | 9 | 7 | 2 | 2 |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 4 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | 9 | 0 | 0 | 1 | 1 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 3 |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| | | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------|
| Esophagus | + | + | + | | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | 34 |
| Intestine Large, Colon | + | + | A | | + | + | + | + | + | A | A | + | + | + | | | | | A | + | + | + | A | + | | 27 |
| Adenoma | | X | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Intestine Small, Duodenum | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Intestine Small, Ileum | + | + | A | | + | + | A | + | + | + | A | A | + | + | + | | | A | + | + | + | A | A | | 25 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Intestine Small, Jejunum | | | | | + | | | | | | | | | | | | | | | | | | | | | 1 |
| Adenocarcinoma | | | | | X | | | | | | | | | | | | | | | | | | | | | 1 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemangiosarcoma | X | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hepatocellular Adenoma, Multiple | | | | | X | | | | | | | | | | | | | | | | | | | | | 1 |
| Hepatocellular Carcinoma | | | | | X | | | | | | | | | | | | | | | | | | | | | 1 |
| Leukemia Granulocytic | X | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | X | | | | | | | | | | | | | | | | | | 3 |
| Sarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2500.BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|--|
| | 0466 | 0708 | 0501 | 0707 | 0507 | 0602 | 0502 | 0309 | 0604 | 0405 | 0606 | 0606 | 0606 | 0504 | 0707 | 0707 | 0707 | 0707 | 0504 | 0705 | 0706 | 0604 | 0607 | 0302 | | 0302 | |
| ANIMAL ID | 04992 | 05000 | 05000 | 05001 | 05001 | 05002 | 07001 | 07002 | 07002 | 07002 | 07002 | 07002 | 07002 | 07002 | 07002 | 08001 | 08001 | 08001 | 08001 | 08001 | 08001 | 08001 | 08001 | 08001 | 08001 | | |
| Fibrosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Pancreas | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 48 | |
| Fibroma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Leukemia Granulocytic | X | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Lymphoma Malignant | | | | | | | | X | | | | | | | | | | | | | | | | | 3 | | |
| Stomach, Forestomach | + | + | A | | + | + | + | + | + | + | + | + | + | + | | | | | | | A | + | + | + | + | 32 | |
| Stomach, Glandular | + | + | A | | + | + | + | + | + | + | + | + | + | + | | | | | | | A | + | + | + | + | 33 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Leukemia Granulocytic | X | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Lymphoma Malignant | | | | | | | | X | | | | | | | | | | | | | | | | | 3 | | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 48 | |
| Adenoma | | | | | | | | | | | | | X | | | | | | | | | | | | 2 | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Sarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Pheochromocytoma Benign | | X | | | | X | | | | | | | | | | | | | | | | | | | 2 | | |
| Bilateral, Pheochromocytoma 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2500.BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0466 | 0788 | 0571 | 0727 | 0522 | 0692 | 0582 | 0349 | 0614 | 0546 | 0663 | 0695 | 0644 | 0511 | 0722 | 0722 | 0773 | 0547 | 0764 | 0649 | 0677 | 0385 | 0632 | 0362 | |
| ANIMAL ID | 04992 | 05001 | 05002 | 05001 | 05002 | 05001 | 05002 | 05001 | 05002 | 05001 | 05002 | 05001 | 05002 | 05001 | 05002 | 05001 | 05002 | 05001 | 05002 | 05001 | 05002 | 05001 | 05002 | 05001 | 05002 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Islets, Pancreatic Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | 49 |
| Lymphoma Malignant | | | | X | | | | | X | | | | | | | | X | | | | | | | | 4 |
| Sarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | X | | | | | | | | | | | | | | | 1 |
| Thyroid Gland Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Thyroid Gland C-cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Thyroid Gland C-cell, Adenoma | | | A | + | + | + | A | + | + | + | A | A | + | + | + | + | + | + | A | + | + | + | + | A | 44 |
| Thyroid Gland Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Thyroid Gland C-cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | X | | X | 2 |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Sarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Coagulating Gland | + | + | A | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | A | + | + | + | + | + | 46 |
| Sarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Sarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

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

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

Experiment Number: 10034 - 04

Test Type: CHRONIC

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Species/Strain: RATS/Sprague Dawley (NCTR)

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Bisphenol A

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Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2500.BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|--|
| | 0466 | 0788 | 0571 | 0727 | 0522 | 0692 | 0582 | 0349 | 0645 | 0416 | 0086 | 0068 | 0065 | 0064 | 0051 | 0072 | 0077 | 0073 | 0054 | 0070 | 0064 | 0077 | 0068 | 0038 | | 0063 | |
| ANIMAL ID | 04992 | 05001 | 05002 | 05001 | 05002 | 05001 | 05002 | 05001 | 05002 | 05001 | 05002 | 05001 | 05002 | 05001 | 05002 | 05001 | 05002 | 05001 | 05002 | 05001 | 05002 | 05001 | 05002 | 05001 | 05002 | | |
| Fat Pad, Epididymal | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Preputial Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prostate, Dorsal/lateral Lobe | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prostate, Ventral Lobe | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Seminal Vesicle | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Testes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Axillary, 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2500.BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
| | 0466 | 0708 | 0507 | 0702 | 0502 | 0609 | 0508 | 0304 | 0001 | 0004 | 0006 | 0003 | 0009 | 0005 | 0004 | 0002 | 0007 | 0007 | 0005 | 0007 | 0006 | 0004 | 0007 | 0006 | | 0003 |
| ANIMAL ID | 04992 | 05000 | 05000 | 05001 | 05002 | 07001 | 07002 | 07003 | 07004 | 07005 | 07006 | 07007 | 07008 | 07009 | 07010 | 08001 | 08002 | 08003 | 08004 | 08005 | 08006 | 08007 | 08008 | 08009 | 08010 | 08011 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

Brachial, Lymphoma Malignant 1
 Cervical, Lymphoma Malignant 1
 Inguinal, Lymphoma Malignant 1
 Lumbar, Lymphoma Malignant 1
 Lumbar, Sarcoma, Metastatic, Skin X 1
 Mediastinal, Lymphoma Malignant X 2
 Pancreatic, Lymphoma Malignant X 2
 Popliteal, Lymphoma Malignant 1
 Renal, Hemangioma X 1
 Renal, Lymphoma Malignant X 2

Lymph Node, Mandibular Lymphoma Malignant + + X 9
 Lymphoma Malignant X 2

Lymph Node, Mesenteric Lymphoma Malignant 2
 Lymphoma Malignant 1

Spleen + + + + + + + + + + + + + + + + + A + + + + + 49
 Hemangiosarcoma 1
 Leukemia Granulocytic X 1
 Lymphoma Malignant X 3
 Sarcoma, Metastatic, Uncertain Primary Site 1

Thymus + + A + 49
 Lymphoma Malignant X 2

INTEGUMENTARY SYSTEM

Mammary Gland Fibroadenoma + 50
 Fibroadenoma 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: 10034 - 04
 Test Type: CHRONIC
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 Bisphenol A
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RATS MALE
F1 2500.BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0466 | 0708 | 0507 | 0702 | 0502 | 0609 | 0508 | 0304 | 0601 | 0404 | 0506 | 0603 | 0609 | 0604 | 0501 | 0702 | 0702 | 0703 | 0504 | 0700 | 0604 | 0607 | 0308 | 0603 | |
| ANIMAL ID | 04992 | 05000 | 05000 | 05001 | 05011 | 07005 | 07007 | 07007 | 07007 | 07007 | 07007 | 07007 | 07007 | 07007 | 07008 | 08008 | 08008 | 08008 | 08008 | 08008 | 08008 | 08008 | 08008 | 08008 | 08008 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
| Fibroadenoma, Multiple | X | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Fibroma | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Skin | + | | | | | | | | | | | | | | | | | | | | | | | | 19 |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Subcutaneous Tissue, Fibroma | X | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Subcutaneous Tissue, Lipoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Subcutaneous Tissue, Sarcoma | X | | | | | | | | | | | | | | | | | | | | | | | | 1 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
| Bone | + | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Cranium, Osteosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Bone, Femur | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Skeletal Muscle | + | | | | | | | | | | | | | | | | | | | | | | | | 1 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
| Brain, Brain Stem | + + A + | | | | | | | | | | | | | | | | | | | | | | | | 49 |
| Carcinoma, Deep Invasion | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Brain, Cerebellum | + + A + | | | | | | | | | | | | | | | | | | | | | | | | 49 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Brain, Cerebrum | + + A + | | | | | | | | | | | | | | | | | | | | | | | | 49 |
| Granular Cell Tumor Benign | 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

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 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|---|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|----|----|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2500.BPA M | | 04 | 07 | 05 | 07 | 05 | 06 | 05 | 03 | 06 | 04 | 05 | 06 | 06 | 06 | 05 | 07 | 07 | 07 | 07 | 05 | | 07 | 06 | 06 | 03 | 06 |
| ANIMAL ID | | 06 | 08 | 01 | 07 | 07 | 02 | 09 | 08 | 04 | 01 | 04 | 06 | 03 | 09 | 04 | 01 | 02 | 02 | 03 | 04 | 00 | 04 | 07 | 08 | 03 | 02 |
| | | 09 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 08 | 08 | 09 | 09 | 09 | 09 | 09 | 09 | 09 | 09 | 09 |
| | | 99 | 00 | 00 | 01 | 01 | 05 | 05 | 06 | 06 | 07 | 07 | 08 | 08 | 09 | 09 | 09 | 09 | 00 | 01 | 01 | 02 | 02 | 03 | 03 | 03 | |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |
| Nerve Trigeminal | | | | | | | | | | | | | | | | | | | | | | 14 | | | | | |
| Peripheral Nerve, Sciatic | | | | | | | | | | | | | | | | | | | | | | 14 | | | | | |
| Peripheral Nerve, Tibial | | | | | | | | | | | | | | | | | | | | | | 14 | | | | | |
| Spinal Cord, Cervical | | | | | | | | | | | | | | | | | | | | | | 14 | | | | | |
| Spinal Cord, Lumbar | | | | | | | | | | | | | | | | | | | | | | 14 | | | | | |
| Spinal Cord, Thoracic | | | | | | | | | | | | | | | | | | | | | | 14 | | | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | | | | | | | | | | | | | | | | | | | | | | 35 | | | | | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | |
| Sarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | |
| Nose | | | | | | | | | | | | | | | | | | | | | | 32 | | | | | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | |
| Trachea | | | | | | | | | | | | | | | | | | | | | | 32 | | | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | | | | | | | | | | | | | | | | | | | | | 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2500.BPA M | DAY ON TEST | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|---|-------------|------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|---|--|
| | 0466 | 0781 | 0577 | 0752 | 0562 | 0552 | 0353 | 0664 | 0014 | 0064 | 0039 | 0044 | 0066 | 0093 | 0064 | 0085 | 0077 | 0077 | 0077 | 0057 | 0076 | 0066 | | 0036 | 0063 | 0068 | 0036 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 4 | 7 | 5 | 7 | 5 | 6 | 5 | 3 | 6 | 4 | 5 | 6 | 6 | 6 | 5 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 5 | 7 | 6 | 6 | 3 | 6 | |
| | 6 | 0 | 7 | 2 | 2 | 9 | 8 | 4 | 1 | 4 | 6 | 3 | 9 | 4 | 1 | 2 | 2 | 2 | 3 | 4 | 0 | 4 | 7 | 8 | 8 | 3 | 3 | | |
| | 6 | 8 | 1 | 7 | 7 | 2 | 2 | 9 | 5 | 4 | 6 | 8 | 5 | 6 | 4 | 6 | 7 | 8 | 0 | 7 | 5 | 9 | 7 | 2 | 2 | 2 | 2 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 4 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | |
| | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | |
| | 9 | 0 | 0 | 1 | 1 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | | |
| | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | | |

Zymbal's Gland + 1

URINARY SYSTEM

Kidney + 50
 Lymphoma Malignant X 3

Urinary Bladder + 4

SYSTEMIC LESIONS

Multiple Organ + 50
 Leukemia Granulocytic X 1
 Lymphoma Malignant X 3

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

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

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25000BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|
| | 0
3
1
2 | 0
7
2
6 | 0
6
6
1 | 0
7
2
8 | 0
5
4
2 | 0
3
7
3 | 0
5
0
2 | 0
7
0
0 | 0
3
0
1 | 0
6
4
5 | 0
6
2
2 | 0
7
3
5 | 0
4
6
5 | 0
3
8
7 | 0
6
5
1 | 0
4
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4 | 0
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6 | 0
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7 | 0
3
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5 | 0
6
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8 | 0
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6 | 0
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2
9 | 0
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9 | 0
7
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| | 0
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2 | 0
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7
1 | 0
2
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8
2 | 0
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9
1 | 0
2
9
9
2 | 0
3
0
0
1 | 0
3
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2 | 0
3
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1
1 | 0
3
0
3
1 | 0
5
1
3
2 | 0
5
1
3
1 | 0
5
1
4
1 | 0
5
1
4
2 | 0
5
1
5
1 | |
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|---|---|---|---|
| Esophagus | + | + | + | | + | + | + | + | + | + | + | | + | + | + | + | + | | | + | + | + | | + |
| Intestine Large, Colon | + | A | A | | + | + | + | + | + | + | + | | + | + | + | + | + | | | A | + | + | | + |
| Intestine Large, Rectum
Leiomyosarcoma | | | | | | | | | | | | | | + | | | | | | | | | | |
| Intestine Small, Ileum
Lymphoma Malignant | + | A | A | | + | + | + | + | + | + | + | | + | + | + | + | + | | | A | + | + | | + |
| Intestine Small, Jejunum
Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Liver
Hepatocellular Carcinoma
Histiocytic Sarcoma
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | A | + | | + | + |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | A | + | + | + | + |
| Stomach, Forestomach | + | + | + | | + | + | + | + | + | + | + | | + | + | + | + | + | | | A | + | + | | + |
| Stomach, Glandular | + | + | + | | + | + | + | + | + | + | + | | + | + | + | + | + | | | A | + | + | | + |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | | |
|---|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|---|---|---|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25000BPA M | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | | | |
| | | 3 | 7 | 6 | 7 | 5 | 3 | 5 | 7 | 3 | 6 | 6 | 7 | 5 | 4 | 3 | 6 | 4 | 7 | 7 | 3 | | 6 | 6 | 7 | 6 | 7 |
| | | 1 | 2 | 6 | 6 | 2 | 4 | 7 | 0 | 0 | 3 | 4 | 8 | 2 | 3 | 6 | 8 | 5 | 6 | 2 | 0 | 3 | 5 | 6 | 2 | 4 | 2 |
| | | 2 | 6 | 1 | 8 | 2 | 3 | 2 | 0 | 1 | 5 | 2 | 7 | 5 | 5 | 7 | 1 | 4 | 6 | 7 | 5 | 8 | 6 | 9 | 2 | 9 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 5 |
| | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | |
| | | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 1 | 1 | 1 | 3 | 3 | 4 | 4 | 5 | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | |

Squamous Cell Papilloma

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pheochromocytoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Adenoma | | | X | | | | X | X | | | | | X | X | | | | | | X | | | | X | X | |
| 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25000BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 3 | 7 | 6 | 7 | 5 | 3 | 5 | 7 | 3 | 6 | 6 | 7 | 5 | 4 | 3 | 6 | 4 | 7 | 7 | 3 | 6 | 6 | 7 | 6 | 7 | |
| | 1 | 2 | 6 | 2 | 4 | 7 | 0 | 0 | 3 | 4 | 8 | 2 | 3 | 6 | 8 | 5 | 6 | 2 | 2 | 0 | 3 | 5 | 2 | 4 | 2 | |
| | 2 | 6 | 1 | 8 | 2 | 3 | 2 | 0 | 1 | 5 | 2 | 7 | 5 | 5 | 7 | 1 | 4 | 6 | 7 | 5 | 8 | 6 | 9 | 9 | 9 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | |
| | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 7 | 7 | 8 | 8 | 8 | 9 | 9 | 0 | 0 | 1 | 1 | 3 | 3 | 4 | 4 | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | |

Lymphoma Malignant

GENERAL BODY SYSTEM

Peritoneum +
 Paraganglioma X

Tissue NOS

GENITAL SYSTEM

Coagulating Gland + A +

Epididymis +
 Lymphoma Malignant
 Mesothelioma Malignant X

Fat Pad, Epididymal

Preputial Gland +
 Carcinoma X

Prostate, Dorsal/lateral Lobe +
 Adenoma
 Lymphoma Malignant

Prostate, Ventral Lobe + + + + + + + + + + + X + + + + + + + + + + + + + +
 Adenoma X
 Adenoma, Multiple X
 Lymphoma Malignant X

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

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

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 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | |
|--|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | | |
| SPRAGUE DAWLEY (NCTR)
RATS MALE | | 3 | 7 | 6 | 7 | 5 | 3 | 5 | 7 | 3 | 6 | 6 | 7 | 5 | 4 | 3 | 6 | 4 | 7 | 7 | 3 | 6 | 6 | 7 | 6 | 7 |
| | | 1 | 2 | 6 | 2 | 4 | 7 | 0 | 0 | 3 | 4 | 8 | 2 | 3 | 6 | 8 | 5 | 6 | 2 | 2 | 0 | 3 | 5 | 2 | 4 | 2 |
| F1 25000BPA M | | 2 | 6 | 1 | 8 | 2 | 3 | 2 | 0 | 1 | 5 | 2 | 7 | 5 | 5 | 7 | 1 | 4 | 6 | 7 | 5 | 8 | 6 | 9 | 9 | 9 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 |
| | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |
| | | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 1 | 1 | 3 | 3 | 4 | 4 | 5 | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Seminal Vesicle | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesothelioma Malignant | | X | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | + | | | | | | | | | | + | + | | | + | | | | | | + | | | |
| Axillary, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cervical, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inguinal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Popliteal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | | | | | | | | | | | | | + | | | | | | | | | | + | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | | | | | | | | | | | | | + | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | |

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

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| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25000BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
3
1
2 | 0
7
2
6 | 0
6
6
1 | 0
7
2
8 | 0
5
4
2 | 0
3
7
3 | 0
5
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2 | 0
7
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0 | 0
3
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1 | 0
6
4
5 | 0
6
8
2 | 0
7
2
7 | 0
5
3
5 | 0
4
6
5 | 0
3
8
7 | 0
6
5
1 | 0
4
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4 | 0
7
2
6 | 0
7
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7 | 0
3
0
5 | 0
6
3
8 | 0
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5
6 | 0
7
2
9 | 0
6
4
9 | | 0
7
2
9 |
| ANIMAL ID | 0
0
8
1
1 | 0
0
8
1
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2
1 | 0
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0
8
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8
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2 | 0
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8
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7
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2
9
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2 | 0
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9
8
1 | 0
2
9
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2 | 0
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9
9
1 | 0
2
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2 | 0
3
0
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1 | 0
3
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1 | 0
3
0
1
2 | 0
3
0
1
1 | 0
5
1
3
3 | 0
5
1
3
4 | 0
5
1
4
1 | 0
5
1
4
2 | 0
5
1
4
5 | 0
5
1
5
1 |

Lymphoma Malignant

Thymus
 Lymphoma Malignant

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

INTEGUMENTARY SYSTEM

Mammary Gland
 Fibroadenoma
 Fibroma, Multiple

+ +

X

Skin
 Basal Cell Adenoma
 Sebaceous Gland, Adenoma
 Subcutaneous Tissue, Fibroma
 Subcutaneous Tissue, Fibrosarcoma
 Subcutaneous Tissue, Histiocytic Sarcoma
 Subcutaneous Tissue, Histiocytic Sarcoma,
 Metastatic, Liver

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

X

X

MUSCULOSKELETAL SYSTEM

Bone
 Rib, Osteosarcoma

+
 X

Bone, Femur

+ +

Skeletal Muscle

NERVOUS SYSTEM

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25000BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|--|
| | 0
3
1
2 | 0
7
2
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6
6
1 | 0
7
2
8 | 0
5
4
2 | 0
3
7
3 | 0
5
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2 | 0
7
0
0 | 0
3
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1 | 0
6
4
5 | 0
6
2
2 | 0
7
3
7 | 0
5
2
5 | 0
4
6
5 | 0
3
8
7 | 0
6
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1 | 0
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4 | 0
7
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7 | 0
3
0
5 | 0
6
3
8 | 0
6
5
6 | 0
7
2
9 | 0
6
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9 | 0
7
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9 | | | |
| ANIMAL ID | 0
0
8
1
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8
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3
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0
8
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2 | 0
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1 | 0
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5
2 | 0
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8
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2 | 0
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9
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1 | 0
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2 | 0
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1 | 0
2
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2 | 0
3
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1 | 0
3
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3
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2 | 0
3
0
1
1 | 0
5
3
3
2 | 0
5
1
3
1 | 0
5
1
4
1 | 0
5
1
4
2 | 0
5
1
5
1 | | |
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Brain, Cerebrum
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Nerve Trigeminal | + | | | | | | | + | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Sciatic | + | | | | | | | + | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Tibial | + | | | | | | | + | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Cervical | + | | | | | | | + | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Lumbar | + | | | | | | | + | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Thoracic | + | | | | | | | + | | | | | | | | | | | | | | | | | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung
Histiocytic Sarcoma
Lymphoma Malignant | + | + | + | | + | + | + | + | + | + | | + | + | + | + | + | | | | + | + | + | | | + | | |
| Nose
Lymphoma Malignant | + | + | + | | + | + | + | + | + | + | | + | + | + | + | + | | | | + | + | + | | | + | | |
| Trachea | + | + | + | | + | + | + | + | + | + | | + | + | + | + | + | | | | A | + | + | | | + | | |

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

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

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25000BPA M | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ANIMAL ID | 3 | 7 | 6 | 7 | 5 | 3 | 5 | 7 | 3 | 6 | 6 | 7 | 5 | 4 | 3 | 6 | 4 | 7 | 7 | 3 | 6 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 |
| | | 1 | 2 | 6 | 2 | 4 | 7 | 0 | 0 | 3 | 4 | 8 | 2 | 3 | 6 | 8 | 5 | 6 | 2 | 2 | 0 | 3 | 5 | 2 | 4 | 2 | 9 | 9 | 2 | 4 | 2 | 9 | 2 | |
| | | 2 | 6 | 1 | 8 | 2 | 3 | 2 | 0 | 1 | 5 | 2 | 7 | 5 | 5 | 7 | 1 | 4 | 6 | 7 | 5 | 8 | 6 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 1 | 1 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 |

males
(cont...)

SPECIAL SENSES SYSTEM

Eye

Zymbal's Gland
Adenoma

URINARY SYSTEM

Kidney
Lymphoma Malignant

Urinary Bladder
Transitional Epithelium, Papilloma

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

SYSTEMIC LESIONS

Multiple Organ
Histiocytic Sarcoma
Lymphoma Malignant
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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25000BPA M | DAY ON TEST | 0560 | 0533 | 0726 | 0384 | 0597 | 0550 | 0662 | 0663 | 0712 | 0463 | 0767 | 0664 | 0565 | 0665 | 0572 | 0772 | 0583 | 0661 | 0726 | |
| | ANIMAL ID | 0515 | 0516 | 0516 | 0517 | 0517 | 0517 | 0517 | 0517 | 0517 | 0517 | 0517 | 0517 | 0517 | 0517 | 0517 | 0517 | 0517 | 0517 | 0517 | 0517 |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Esophagus | + | + | | + | + | + | + | + | + | + | | + | + | + | + | + | | + | + | 35 |
| Intestine Large, Colon | + | + | | + | + | + | + | A | + | + | | + | + | + | + | + | | A | + | 30 |
| Intestine Large, Rectum | | | | | | | | | | | | | | | | | | | | 2 |
| Leiomyosarcoma | | | | | | | | | | | | | | | | | | | | 1 |
| Intestine Small, Ileum | + | + | | + | + | + | + | A | + | A | | + | A | + | + | + | | A | + | 28 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | 1 |
| Intestine Small, Jejunum | | | | | | | | | | | | | | | | | | | | 1 |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | | | 1 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Hepatocellular Carcinoma | | | | | | | | | | | | | | | | | | | | 3 |
| Histiocytic Sarcoma | | | | | | | | | | | | X | | | X | | | | | 2 |
| Lymphoma Malignant | | | | | | | | | | | | | X | | | X | | | | 2 |
| Mesentery | | | | | | | | | | | | | | | | + | | | | 4 |
| Pancreas | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | 44 |
| Lymphoma Malignant | | | | | | | | | | | | | X | | | X | | | | 2 |
| Stomach, Forestomach | + | + | | + | + | + | + | + | + | + | | + | + | + | + | | | + | + | 34 |
| Stomach, Glandular | + | + | | + | + | + | + | + | + | A | | + | + | + | + | | | + | + | 33 |
| Tongue | | | | | | | | | | | | | + | | | | | | | 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: 10034 - 04
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Route: GAVAGE
Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
CAS Number: 80-05-7

Date Report Requested: 08/16/2017
Time Report Requested: 10:21:03
First Dose M/F: 09/25/12 / 09/25/12
Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25000BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------|
| | 05060 | 0533 | 0726 | 0384 | 0597 | 0550 | 0662 | 0663 | 0712 | 0463 | 0756 | 0664 | 0555 | 0665 | 0573 | 0725 | 0773 | 0581 | 0667 | 0726 | | |
| ANIMAL ID | 0515 | 0516 | 0517 | 0518 | 0519 | 0577 | 0578 | 0579 | 0570 | 0571 | 0572 | 0573 | 0574 | 0575 | 0576 | 0599 | 0590 | 0591 | 0592 | 0593 | 0594 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 5 | 6 | 6 | 7 | 7 | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 5 | |
| | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

Squamous Cell Papilloma X 1

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Histiocytic Sarcoma | | | | | | | | | | | X | | | | | | | | | | | 1 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Histiocytic Sarcoma | | | | | | | | | | | X | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | X | | X | | | | | | | | 2 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Lymphoma Malignant | | | | | | | | | | | | X | | X | | | | | | | | 2 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Pheochromocytoma Malignant | | | | | | | | | | | | | | | | | | | | | | 1 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Adenoma | | | | | | | | X | | | | | | | | | | | X | X | | 5 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Adenoma | | | | | X | | | | | | | | | | | | | | | | | 1 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Lymphoma Malignant | | | | | | | | | | | | | | | X | | | | | | | 1 |
| Pars Distalis, Adenoma | | | | X | X | X | X | | | X | | | X | | | X | | X | X | | | 17 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | 44 |

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

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

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Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | |
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25000BPA M | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 5 | 5 | 7 | 3 | 5 | 5 | 6 | 6 | 7 | 4 | 7 | 6 | 6 | 5 | 6 | 5 | 7 | 7 | 5 | 6 | 7 |
| | 6 | 3 | 2 | 8 | 9 | 1 | 7 | 0 | 1 | 6 | 2 | 5 | 1 | 3 | 3 | 7 | 2 | 2 | 8 | 5 | 2 |
| | 0 | 3 | 6 | 4 | 7 | 0 | 2 | 3 | 2 | 3 | 6 | 7 | 4 | 5 | 5 | 3 | 5 | 7 | 3 | 1 | 6 |
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 6 | 6 | 7 | 7 | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 5 |
| | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | |

Lymphoma Malignant

X

1

GENERAL BODY SYSTEM

Peritoneum

1

Paraganglioma

1

Tissue NOS

+

1

GENITAL SYSTEM

Coagulating Gland

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

45

Epididymis

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

46

Lymphoma Malignant

X

1

Mesothelioma Malignant

1

Fat Pad, Epididymal

+

1

Preputial Gland

+

+

+

9

Carcinoma

X

X

3

Prostate, Dorsal/lateral Lobe

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

46

Adenoma

X

1

Lymphoma Malignant

X

1

Prostate, Ventral Lobe

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

46

Adenoma

X

X

3

Adenoma, Multiple

X

3

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

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Lab: NCTR

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPRAGUE DAWLEY (NCTR)
RATS MALE | | 5 | 5 | 7 | 3 | 5 | 5 | 6 | 6 | 7 | 4 | 7 | 6 | 6 | 5 | 6 | 5 | 7 | 7 | 5 | 6 | 7 |
| | | 6 | 3 | 2 | 8 | 9 | 1 | 7 | 0 | 1 | 6 | 2 | 5 | 1 | 3 | 3 | 7 | 2 | 2 | 8 | 5 | 7 |
| F1 25000BPA M | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 5 | 6 | 6 | 7 | 7 | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Seminal Vesicle | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | 43 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | 1 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Lymphoma Malignant | | | | | | | | | | | | X | | | X | | | | | | | 2 |
| Lymph Node | | | | | | | | | + | + | + | + | | | + | | | | + | | | 11 |
| Axillary, Lymphoma Malignant | | | | | | | | | | | | | | | X | | | | | | | 1 |
| Cervical, Lymphoma Malignant | | | | | | | | | | | | | | | X | | | | | | | 1 |
| Inguinal, Lymphoma Malignant | | | | | | | | | | | | | | | X | | | | | | | 1 |
| Lumbar, Lymphoma Malignant | | | | | | | | | | | | | | | X | | | | | | | 1 |
| Mediastinal, Histiocytic Sarcoma | | | | | | | | | | | | X | | | | | | | | | | 1 |
| Mediastinal, Lymphoma Malignant | | | | | | | | | | | | | | | X | | | | | | | 1 |
| Pancreatic, Lymphoma Malignant | | | | | | | | | | | | | | X | | X | | | | | | 2 |
| Popliteal, Lymphoma Malignant | | | | | | | | | | | | | | | X | | X | | | | | 1 |
| Renal, Lymphoma Malignant | | | | | | | | | | | | | | X | | X | | | | | | 2 |
| Lymph Node, Mandibular | | | | | | | | | | | | | | | + | | + | | | | | 4 |
| Lymphoma Malignant | | | | | | | | | | | | | | | X | | X | | | | | 2 |
| Lymph Node, Mesenteric | | | | | | | | | | | | | | | + | | + | | | | | 3 |
| Lymphoma Malignant | | | | | | | | | | | | | | | X | | X | | | | | 2 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Histiocytic Sarcoma | | | | | | | | | | | | | X | | | | | | | | | 1 |

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25000BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
| | 0560 | 0533 | 0726 | 0384 | 0597 | 0550 | 0662 | 0663 | 0772 | 0743 | 0766 | 0655 | 0663 | 0535 | 0665 | 0573 | 0775 | 0722 | 0583 | 0651 | | 0726 |
| ANIMAL ID | 0511 | 0511 | 0511 | 0511 | 0511 | 0771 | 0771 | 0772 | 0772 | 0772 | 0772 | 0772 | 0772 | 0772 | 0772 | 0990 | 0990 | 0990 | 0990 | 0990 | 0990 | |
| Lymphoma Malignant | | | | | | | | | | | | | X | | X | | | | | | | 2 |
| Thymus | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 43 |
| Lymphoma Malignant | | | | | | | | | | | | | X | | X | | | | | | | 2 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | 45 |
| Fibroadenoma | | | | | | | | | | | | | | | | | X | | | | | 1 |
| Fibroma, Multiple | | | | | | | | | | | | | | | | | | | | | | 1 |
| Skin | | | | | + | + | + | | + | + | + | | | | + | | | | | + | | 17 |
| Basal Cell Adenoma | | | | | | X | | | | | | | | | | | | | | | | 1 |
| Sebaceous Gland, Adenoma | | | | | | | | | | | | | | | | | | | | | | 1 |
| Subcutaneous Tissue, Fibroma | | | | | | | | | | | | | | | | | | | | | | 1 |
| Subcutaneous Tissue, Fibrosarcoma | | | | | X | | | | | | | | | | | | | | | | | 2 |
| Subcutaneous Tissue, Histiocytic Sarcoma | | | | | | | | | | | X | | | | | | | | | | | 1 |
| Subcutaneous Tissue, Histiocytic Sarcoma, Metastatic, Liver | | | | | | | | | | | | | | | | X | | | | | | 1 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Bone | | | | | | | | | | | | | | | | | | | | | | 1 |
| Rib, Osteosarcoma | | | | | | | | | | | | | | | | | | | | | | 1 |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Skeletal Muscle | | | | | | | | | | | | | | | + | | | | | | | 1 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | |

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

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

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25000BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| | 0560 | 0533 | 0572 | 0538 | 0559 | 0551 | 0567 | 0566 | 0577 | 0541 | 0574 | 0566 | 0556 | 0565 | 0563 | 0575 | 0577 | 0558 | 0566 | 0572 | |
| ANIMAL ID | 0511 | 0511 | 0511 | 0511 | 0511 | 0511 | 0511 | 0512 | 0522 | 0522 | 0522 | 0522 | 0522 | 0522 | 0523 | 0533 | 0533 | 0534 | 0534 | 0534 | |
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | X | | | | | 1 |
| Nerve Trigeminal | | + | | + | | | + | | + | | | + | | | | | | | | | 8 |
| Peripheral Nerve, Sciatic | | + | | + | | | + | | + | | | + | | | | | | | | | 8 |
| Peripheral Nerve, Tibial | | + | | + | | | + | | + | | | + | | | | | | | | | 8 |
| Spinal Cord, Cervical | | + | | + | | | + | | + | | | + | | | | | | | | | 8 |
| Spinal Cord, Lumbar | | + | | + | | | + | | + | | | + | | | | | | | | | 8 |
| Spinal Cord, Thoracic | | + | | + | | | + | | + | | | + | | | | | | | | | 8 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | | + | + | + | + | + | + | | | + | + | + | + | | + | + | + | | 36 |
| Histiocytic Sarcoma | | | | | | | | | | | | X | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | X | | | X | | | | | 2 |
| Nose | + | + | | + | + | + | + | + | + | | | + | + | + | + | | | + | + | | 35 |
| Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | 2 |
| Trachea | + | + | | + | + | + | + | + | + | A | | + | + | + | + | + | | + | + | | 33 |

* .. Total animals with tissue examined microscopically; 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 0.05 EE2 M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|
| | 0727 | 0666 | 0552 | 0608 | 0776 | 0777 | 0777 | 0777 | 0332 | 0332 | 0772 | 0558 | 0772 | 0558 | 0554 | 0667 | 0556 | 0772 | 0668 | 0663 | | | 0772 | 0663 | 0446 |
| | 0097 | 0097 | 0098 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|--|---|--|--|--|--|---|---|--|---|---|---|--|--|--|---|---|--|---|---|--|---|--|
| Esophagus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | + | + | + | | + | | | | | + | + | | + | + | + | | | | + | + | | + | + | | + | |
| Intestine Large, Colon | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Jejunum | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liver | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma, Metastatic, Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinar Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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: 10034 - 04
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
CAS Number: 80-05-7

Date Report Requested: 08/16/2017
Time Report Requested: 10:21:03
First Dose M/F: 09/25/12 / 09/25/12
Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 0.05 EE2 M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|------|------|------|------|------|------|------|
| | 0727 | 0666 | 0552 | 0668 | 0776 | 0777 | 0777 | 0777 | 0332 | 0337 | 0772 | 0558 | 0772 | 0558 | 0554 | 0667 | 0556 | 0772 | 0668 | 0663 | | | 0772 | 0663 | 0446 | 0772 | 0556 | 0778 | | | | |
| | 0097 | 0097 | 0098 | 0098 | 0099 | 0099 | 0099 | 0031 | 0031 | 0031 | 0031 | 0033 | 0035 | 0035 | 0035 | 0035 | 0035 | 0037 | 0037 | 0037 | 0037 | 0039 | 0039 | 0039 | 0039 | 0091 | 0091 | 0091 | 0091 | 0099 | 0099 | 0099 |

Blood Vessel
Lymphoma Malignant

+ +

Heart
Lymphoma Malignant

+ +

ENDOCRINE SYSTEM

Adrenal Cortex
Adenoma
Lymphoma Malignant

+
 X
 X

Adrenal Medulla
Pheochromocytoma Benign
Bilateral, Pheochromocytoma Benign

+
 X
 X

Islets, Pancreatic

+ +

Parathyroid Gland
Lymphoma Malignant

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

Pituitary Gland
Lymphoma Malignant
Pars Distalis, Adenoma

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

Thyroid Gland
Lymphoma Malignant
Follicular Cell, Adenoma

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
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 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 0.05 EE2 M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | |
|---|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|--------------------|-----|-----|-----|-----|
| | 077 | 066 | 055 | 066 | 077 | 077 | 077 | 077 | 033 | 033 | 077 | 055 | 077 | 055 | 055 | 066 | 055 | 077 | 066 | 066 | | | 077 | 066 | 044 | 077 |
| | 27 | 66 | 55 | 00 | 22 | 00 | 33 | 27 | 77 | 22 | 88 | 22 | 88 | 44 | 77 | 66 | 22 | 77 | 00 | 66 | 66 | 77 | 66 | 44 | 77 | 55 |
| | 99 | 99 | 99 | 99 | 99 | 99 | 11 | 11 | 11 | 11 | 11 | 22 | 22 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 11 | 11 | 11 | 99 |
| | 71 | 72 | 81 | 82 | 91 | 92 | 31 | 32 | 41 | 42 | 51 | 52 | 91 | 92 | 01 | 02 | 11 | 12 | 31 | 32 | 41 | 42 | 71 | 72 | 91 | 92 |

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coagulating Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Preputial Gland
Carcinoma | | | | | | | + | | | | | | | + | | | | | | | + | + | | | |
| | | | | | | | X | | | | | | | X | | | | | | | X | X | | | |
| Prostate, Dorsal/lateral Lobe
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Prostate, Ventral Lobe
Adenoma
Adenoma, Multiple
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + |
| Testes
Interstitial Cell, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | X |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Lymph Node | | | | | | | | | | + | + | + | | | | | | | | | + | + | | | + |

* .. Total animals with tissue examined microscopically; 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | | | | | | | | | |
|---|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 0.05 EE2 M | | 0727 | 0666 | 0552 | 0608 | 0776 | 0777 | 0777 | 0777 | 0332 | 0337 | 0775 | 0777 | 0558 | 0552 | 0888 | 0444 | 0666 | 0552 | 0772 | 0668 | | 0663 | 0772 | 0663 | 0441 | 0776 | 0552 | 0777 | 0559 | 0999 | 0991 | 0991 | 0558 |
| ANIMAL ID | | 00971 | 00972 | 00981 | 00982 | 00991 | 00992 | 00993 | 00994 | 00995 | 00996 | 00997 | 00998 | 00999 | 00999 | 00999 | 00999 | 00999 | 00999 | 00999 | 00999 | | 00999 | 00999 | 00999 | 00999 | 00999 | 00999 | 00999 | 00999 | 00999 | 00999 | 00999 | 00999 |

Lumbar, Lymphoma Malignant X
 Mediastinal, Lymphoma Malignant X
 Pancreatic, Lymphoma Malignant X
 Renal, Lymphoma Malignant X

Lymph Node, Mandibular Lymphoma Malignant +

Spleen Lymphoma Malignant +
 Sarcoma X X X

Thymus Lymphoma Malignant + + + + + M + + + + + + + + + + + M + + + + + + +

INTEGUMENTARY SYSTEM

Mammary Gland M +
 Skin +

MUSCULOSKELETAL SYSTEM

Bone Cranium, Lymphoma Malignant X
 Vertebra, Lymphoma Malignant X
 Bone, Femur +
 Skeletal Muscle +

* .. Total animals with tissue examined microscopically; 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | |
|---|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|---|---|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 0.05 EE2 M | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | | |
| | | 7 | 6 | 5 | 6 | 7 | 7 | 7 | 7 | 3 | 3 | 7 | 5 | 7 | 5 | 5 | 6 | 5 | 7 | 6 | 6 | | 7 | 6 | 4 | 7 |
| | | 2 | 6 | 5 | 0 | 2 | 0 | 3 | 2 | 7 | 2 | 8 | 2 | 8 | 4 | 7 | 6 | 2 | 8 | 3 | 2 | 3 | 6 | 2 | 7 | 8 |
| | | 7 | 6 | 2 | 8 | 6 | 7 | 0 | 6 | 0 | 6 | 2 | 8 | 6 | 4 | 2 | 2 | 7 | 0 | 9 | 6 | 1 | 0 | 6 | 8 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 |
| | | 9 | 9 | 9 | 9 | 9 | 9 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 1 | 1 | 1 |
| | | 7 | 7 | 8 | 8 | 9 | 9 | 3 | 3 | 4 | 4 | 5 | 5 | 9 | 9 | 0 | 0 | 1 | 1 | 3 | 3 | 4 | 4 | 7 | 7 | 8 |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 |

Lymphoma Malignant

X

NERVOUS SYSTEM

Brain, Brain Stem

Lymphoma Malignant

+
X

Brain, Cerebellum

+ +

Brain, Cerebrum

Granular Cell Tumor Malignant

Lymphoma Malignant

+
X

Nerve Trigeminal

+ + + +

Peripheral Nerve, Sciatic

+ + + +

Peripheral Nerve, Tibial

+ + + +

Spinal Cord, Cervical

+ + + +

Spinal Cord, Lumbar

+ + + +

Spinal Cord, Thoracic

+ + + +

RESPIRATORY SYSTEM

Lung

Carcinoma, Metastatic, Zymbal'S Gland

Lymphoma Malignant

+
X

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | | |
|---|-------------|--------|-----------------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 0.05 EE2 M | DAY ON TEST | 0 | |
| | | 4 | |
| | | 0 | |
| | | 0 | |
| | ANIMAL ID | 0 | |
| | | 9 | |
| | | 1 | |
| | | 8
2 | |
| | | | * TOTALS |

ALIMENTARY SYSTEM

| | | |
|-----------------------------|---|----|
| Esophagus | + | 17 |
| Intestine Large, Colon | + | 15 |
| Adenocarcinoma | | 1 |
| Lymphoma Malignant | | 1 |
| Intestine Small, Ileum | + | 14 |
| Lymphoma Malignant | | 1 |
| Intestine Small, Jejunum | | 1 |
| Liver | + | 26 |
| Lymphoma Malignant | X | 2 |
| Mesentery | | 1 |
| Pancreas | + | 26 |
| Lymphoma Malignant | X | 2 |
| Sarcoma, Metastatic, Spleen | | 1 |
| Acinar Cell, Adenoma | | 1 |
| Stomach, Forestomach | + | 17 |
| Lymphoma Malignant | | 1 |
| Squamous Cell Carcinoma | | 1 |
| Stomach, Glandular | + | 16 |

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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 0.05 EE2 M | | DAY ON TEST | ANIMAL ID | * TOTALS |
|---|---|-------------|-----------|----------|
| | | 0 | 0 | |
| | | 4 | 9 | |
| | | 0 | 1 | |
| | | 0 | 8 | |
| | | | 2 | |
| Blood Vessel | + | | | 26 |
| Lymphoma Malignant | X | | | 1 |
| Heart | + | | | 26 |
| Lymphoma Malignant | X | | | 1 |
| ENDOCRINE SYSTEM | | | | |
| Adrenal Cortex | + | | | 26 |
| Adenoma | | | | 1 |
| Lymphoma Malignant | X | | | 2 |
| Adrenal Medulla | + | | | 26 |
| Pheochromocytoma Benign | | | | 1 |
| Bilateral, Pheochromocytoma Benign | | | | 1 |
| Islets, Pancreatic | + | | | 26 |
| Parathyroid Gland | + | | | 25 |
| Lymphoma Malignant | X | | | 1 |
| Pituitary Gland | + | | | 26 |
| Lymphoma Malignant | X | | | 2 |
| Pars Distalis, Adenoma | | | | 12 |
| Thyroid Gland | + | | | 25 |
| Lymphoma Malignant | X | | | 1 |
| Follicular Cell, Adenoma | | | | 1 |

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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
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 Lab: NCTR

| | | | |
|---|-------------|---|-----------------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 0.05 EE2 M | DAY ON TEST | 0 | |
| | | 4 | |
| | | 0 | |
| | | 0 | |
| | ANIMAL ID | 0 | |
| | | 9 | |
| | | 1 | |
| | | 8 | |
| | | 2 | |
| | | | * TOTALS |

NONE

GENITAL SYSTEM

| | | |
|-------------------------------|---|----|
| Coagulating Gland | + | 26 |
| Epididymis | + | 26 |
| Preputial Gland | | 4 |
| Carcinoma | | 4 |
| Prostate, Dorsal/lateral Lobe | + | 26 |
| Lymphoma Malignant | X | 1 |
| Prostate, Ventral Lobe | + | 26 |
| Adenoma | | 1 |
| Adenoma, Multiple | | 1 |
| Lymphoma Malignant | X | 1 |
| Seminal Vesicle | + | 25 |
| Testes | + | 26 |
| Interstitial Cell, Adenoma | | 1 |

HEMATOPOIETIC SYSTEM

| | | |
|--------------------|---|----|
| Bone Marrow | + | 26 |
| Lymphoma Malignant | X | 2 |
| Lymph Node | + | 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 0.05 EE2 M | | DAY ON TEST | ANIMAL ID | * TOTALS |
|---|---|-------------|-----------|----------|
| | | 0 | 0 | |
| | | 4 | 9 | |
| | | 0 | 1 | |
| | | 0 | 8 | |
| | | | 2 | |
| Lumbar, Lymphoma Malignant | X | | | 2 |
| Mediastinal, Lymphoma Malignant | | | | 1 |
| Pancreatic, Lymphoma Malignant | X | | | 2 |
| Renal, Lymphoma Malignant | X | | | 2 |
| Lymph Node, Mandibular | + | | | 6 |
| Lymphoma Malignant | X | | | 2 |
| Spleen | + | | | 26 |
| Lymphoma Malignant | X | | | 2 |
| Sarcoma | | | | 2 |
| Thymus | + | | | 24 |
| Lymphoma Malignant | X | | | 2 |
| INTEGUMENTARY SYSTEM | | | | |
| Mammary Gland | + | | | 25 |
| Skin | | | | 6 |
| MUSCULOSKELETAL SYSTEM | | | | |
| Bone | | | | 1 |
| Cranium, Lymphoma Malignant | | | | 1 |
| Vertebra, Lymphoma Malignant | | | | 1 |
| Bone, Femur | + | | | 26 |
| Skeletal Muscle | | | | 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

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 Bisphenol A
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| | | | |
|---|-------------|---|-----------------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 0.05 EE2 M | DAY ON TEST | 0 | |
| | | 4 | |
| | | 0 | |
| | | 0 | |
| | ANIMAL ID | 0 | |
| | | 9 | |
| | | 1 | |
| | | 8 | |
| | | 2 | |
| | | | * TOTALS |

Lymphoma Malignant

1

NERVOUS SYSTEM

| | | |
|-------------------------------|---|----|
| Brain, Brain Stem | + | 26 |
| Lymphoma Malignant | | 1 |
| Brain, Cerebellum | + | 26 |
| Brain, Cerebrum | + | 26 |
| Granular Cell Tumor Malignant | | 1 |
| Lymphoma Malignant | | 1 |
| Nerve Trigeminal | | 4 |
| Peripheral Nerve, Sciatic | | 4 |
| Peripheral Nerve, Tibial | | 4 |
| Spinal Cord, Cervical | | 4 |
| Spinal Cord, Lumbar | | 4 |
| Spinal Cord, Thoracic | | 4 |

RESPIRATORY SYSTEM

| | | |
|---------------------------------------|---|----|
| Lung | + | 19 |
| Carcinoma, Metastatic, Zymbal'S Gland | | 1 |
| Lymphoma Malignant | X | 2 |

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
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 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 0.05 EE2 M | | DAY ON TEST | ANIMAL ID | * TOTALS |
|---|--|-------------|-----------|----------|
| | | 0 | | |
| | | 4 | | |
| | | 0 | | |
| | | 0 | | |
| | | 0 | | |
| | | 0 | | |
| | | 9 | | |
| | | 1 | | |
| | | 8 | | |
| | | 2 | | |
| Nose | | + | | 17 |
| Lymphoma Malignant | | X | | 2 |
| Trachea | | + | | 17 |
| SPECIAL SENSES SYSTEM | | | | |
| Ear | | | | 1 |
| Neural Crest Tumor, Benign | | | | 1 |
| Eye | | | | 3 |
| Zymbal's Gland | | | | 1 |
| Carcinoma | | | | 1 |
| URINARY SYSTEM | | | | |
| Kidney | | + | | 26 |
| Liposarcoma | | | | 1 |
| Lymphoma Malignant | | X | | 2 |
| Urinary Bladder | | | | 1 |
| SYSTEMIC LESIONS | | | | |
| Multiple Organ | | + | | 26 |
| Lymphoma Malignant | | X | | 2 |

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

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

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

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First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 0.50 EE2 M | DAY ON TEST | 0591 | 0727 | 0472 | 0772 | 0551 | 0441 | 0725 | 0552 | 0711 | 0474 | 0779 | 0779 | 0779 | 0770 | 0642 | 0722 | 0722 | 0722 | 0667 | 0660 | 0728 | 0727 | 0462 | 0669 | 0728 | 0727 | 0463 | males
(cont...) |
| | ANIMAL ID | 01091 | 01100 | 01100 | 01101 | 01101 | 01101 | 01102 | 01102 | 01102 | 01102 | 01102 | 01102 | 01102 | 01102 | 01102 | 01102 | 01102 | 01102 | 01102 | 01102 | 01102 | 01102 | 01102 | 01102 | 01102 | 01102 | 01102 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | | | + | + | | | + | + | + | | | | | + | + | | | | | + | + | + | | | | + |
| Intestine Large, Colon | + | | A | | | + | + | | A | + | + | | | | | + | + | | | | | + | + | + | | | | A |
| Intestine Small, Ileum | + | | A | | | + | + | | A | + | + | | | | | + | + | | | | | A | + | + | | | | A |
| Liver | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Adenoma | | | | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Hepatocellular Carcinoma | | | | | | | | X | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Acinar Cell, Adenoma | | | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | | A | | | + | + | | + | + | + | | | | | + | + | + | | | | + | + | + | + | | | + |
| Stomach, Glandular | + | | A | | | + | + | | A | + | + | | | | | + | + | | | | | + | + | + | | | | + |

CARDIOVASCULAR SYSTEM

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

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|--|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | |
| | | 5 | 7 | 4 | 7 | 7 | 5 | 4 | 7 | 5 | 7 | 4 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 4 | 6 | 7 | 4 | 6 | | | |
| | | 9 | 2 | 7 | 2 | 2 | 1 | 1 | 2 | 5 | 1 | 7 | 2 | 2 | 2 | 0 | 4 | 2 | 2 | 2 | 2 | 7 | 0 | 2 | 2 | 8 | 8 | 7 | 2 | 8 | | |
| | | 1 | 7 | 1 | 6 | 7 | 9 | 4 | 5 | 2 | 1 | 4 | 8 | 9 | 9 | 7 | 0 | 6 | 5 | 8 | 8 | 4 | 9 | 8 | 7 | 3 | 6 | 3 | 3 | | | |
| SPRAGUE DAWLEY (NCTR)
RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F1 0.50 EE2 M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ANIMAL ID | | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | | |
| ANIMAL ID | | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| ANIMAL ID | | 9 | 9 | 0 | 0 | 1 | 1 | 5 | 5 | 6 | 6 | 7 | 7 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| ANIMAL ID | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | males
(cont...) | |

ENDOCRINE SYSTEM

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

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Coagulating Gland | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Ductus Deferens | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

M .. Missing tissue
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P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
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 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|------------------------------------|--|-------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE | | 0591 | 07271 | 0476 | 0727 | 0579 | 0474 | 0725 | 0572 | 0711 | 0475 | 0721 | 0574 | 0728 | 0579 | 0729 | 0670 | 0746 | 0725 | 0728 | 0778 | 0674 | 0679 | 0788 | 0727 | | 0473 |
| F1 0.50 EE2 M | | 01091 | 0110 | 0111 | 0111 | 0111 | 0313 | 0313 | 0313 | 0313 | 0313 | 0313 | 0515 | 0515 | 0515 | 0515 | 0515 | 0717 | 0717 | 0717 | 0717 | 0717 | 0717 | 0717 | 0919 | | 0919 |
| ANIMAL ID | | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 | 0098 | 0099 | 0100 | 0101 | 0102 | 0103 | 0104 | 0105 | 0106 | 0107 | 0108 | 0109 | 0110 | 0111 | 0112 | 0113 | 0114 | 0115 | 0116 |
| Epididymis | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Preputial Gland | | | | + | + | | + | | | | | | | | | | | + | | | | | | + | + | | |
| Adenoma | | | | | | | | | | | | | | | | | | X | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Prostate, Dorsal/lateral Lobe | | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prostate, Ventral Lobe | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Seminal Vesicle | | + | + | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + |
| Testes | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone Marrow | | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | | | | | + | + | | + | + | | | | | | + | | | |
| Axillary, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brachial, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cervical, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 0.50 EE2 M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|-------|-------|-------|
| | 0591 | 07271 | 04726 | 07727 | 05719 | 0414 | 0755 | 0072 | 0515 | 0711 | 0478 | 0772 | 0072 | 0772 | 0670 | 0722 | 0722 | 0674 | 0669 | 0708 | 0728 | 0728 | 0674 | 0669 | | 0708 | 0728 | 0728 |
| ANIMAL ID | 01091 | 01100 | 01101 | 01101 | 01101 | 01102 | 01102 | 01103 | 01103 | 01103 | 01103 | 01103 | 01105 | 01105 | 01105 | 01105 | 01105 | 01107 | 01107 | 01107 | 01107 | 01107 | 01107 | 01107 | 01109 | 01109 | 01109 | 01109 |

Renal, Lymphoma Malignant

X

Lymph Node, Mandibular
Lymphoma Malignant

+ +

Lymph Node, Mesenteric
Lymphoma Malignant

+
X

Spleen
Lymphoma Malignant

+ + A +

Thymus
Lymphoma Malignant

+ M +

INTEGUMENTARY SYSTEM

Mammary Gland
Adenocarcinoma
Fibroma
Histiocytic Sarcoma
Lipoma
Lymphoma Malignant

+ + A +
 X
 X
 X
 X

Skin
Basal Cell Adenoma
Basal Cell Carcinoma
Squamous Cell Papilloma
Subcutaneous Tissue, Histiocytic Sarcoma
Subcutaneous Tissue, Lipoma

+
 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE | 0
5
9
1 | 0
7
2
7 | 0
4
7
1 | 0
7
2
6 | 0
7
2
7 | 0
5
1
9 | 0
4
1
4 | 0
7
2
5 | 0
5
2
2 | 0
7
1
1 | 0
4
7
4 | 0
7
2
8 | 0
7
2
9 | 0
7
0
7 | 0
6
4
0 | 0
7
2
6 | 0
7
2
8 | 0
7
2
8 | 0
6
7
4 | 0
6
0
9 | 0
7
2
8 | 0
7
2
7 | 0
4
2
3 | | |
| F1 0.50 EE2 M | 0
1
0
9
1 | 0
1
0
9
2 | 0
1
1
0
1 | 0
1
1
0
1 | 0
1
1
1
2 | 0
3
2
5
1 | 0
3
2
5
2 | 0
3
2
6
1 | 0
3
2
6
2 | 0
3
2
6
1 | 0
3
2
7
2 | 0
3
2
7
1 | 0
5
2
7
2 | 0
5
4
2
1 | 0
5
4
2
2 | 0
5
4
3
1 | 0
5
4
3
2 | 0
5
4
3
1 | 0
7
4
4
1 | 0
7
4
4
2 | 0
7
4
4
2 | 0
7
4
4
1 | 0
9
2
5
2 | 0
9
2
5
6 | |
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

Bone

+

Bone, Femur

+ +

NERVOUS SYSTEM

Brain, Brain Stem

+ +

Brain, Cerebellum
Granular Cell Tumor Malignant

+ X

Brain, Cerebrum
Lymphoma Malignant
Meningioma Benign

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

Nerve Trigeminal

+ A + + + + + + + + +

Peripheral Nerve, Sciatic

+ A + + + + + + + + +

Peripheral Nerve, Tibial

+ A + + + + + + + + +

Spinal Cord, Cervical

+ A + + + + + + + + +

Spinal Cord, Lumbar

+ A + + + + + + + + +

Spinal Cord, Thoracic

+ A + + + + + + + + +

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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 0.50 EE2 M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|-------|-------|---|
| | 0591 | 07271 | 04726 | 07727 | 05759 | 04744 | 07755 | 05722 | 07751 | 04748 | 07729 | 05779 | 04778 | 07707 | 04766 | 07725 | 04788 | 07748 | 06679 | 06688 | 07728 | 07778 | 00709 | 07788 | | 00728 | 00763 | |
| ANIMAL ID | 01091 | 01102 | 01101 | 01112 | 01111 | 01122 | 01155 | 01156 | 01161 | 01162 | 01172 | 01173 | 01184 | 01185 | 01196 | 01197 | 01208 | 01209 | 01210 | 01221 | 01222 | 01233 | 01234 | 01245 | 01246 | 01257 | 01258 | |
| Lung
Lymphoma Malignant | + | | A | | | + | + | | | + | + | | | | | | | | | | | | | | | | | + |
| Nose
Lymphoma Malignant | + | | A | | | + | + | | | + | + | | | | | | | | | | | | | | | | | + |
| Trachea
Lymphoma Malignant | + | | A | | | + | + | | | + | + | | | | | | | | | | | | | | | | | + |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye
Lymphoma Malignant | | | | + | | | | | | | | | | | | | | | | | | | | | | | | + |
| Zymbal's Gland
Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ
Histiocytic Sarcoma
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | | |
|---|-------------|---|-----------------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 0.50 EE2 M | DAY ON TEST | 0 | |
| | | 5 | |
| | | 6 | |
| | | 0 | |
| | ANIMAL ID | 0 | |
| | | 9 | |
| | | 2 | |
| | | 6 | |
| | | 2 | |
| | | | * TOTALS |

ALIMENTARY SYSTEM

| | | |
|--------------------------|---|----|
| Esophagus | + | 14 |
| Intestine Large, Colon | + | 11 |
| Intestine Small, Ileum | + | 10 |
| Liver | + | 25 |
| Hepatocellular Adenoma | | 1 |
| Hepatocellular Carcinoma | | 1 |
| Lymphoma Malignant | | 1 |
| Mesentery | | 1 |
| Pancreas | + | 25 |
| Lymphoma Malignant | | 1 |
| Acinar Cell, Adenoma | | 1 |
| Stomach, Forestomach | + | 15 |
| Stomach, Glandular | + | 12 |

CARDIOVASCULAR SYSTEM

| | | |
|--------------------|---|----|
| Blood Vessel | + | 26 |
| Heart | + | 26 |
| Lymphoma Malignant | | 1 |

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | | |
|---|-------------|---|-----------------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 0.50 EE2 M | DAY ON TEST | 0 | |
| | | 5 | |
| | | 6 | |
| | | 0 | |
| | ANIMAL ID | 0 | |
| | | 9 | |
| | | 2 | |
| | | 6 | |
| | | 2 | |
| | | | * TOTALS |

ENDOCRINE SYSTEM

| | | |
|------------------------------------|---|----|
| Adrenal Cortex | + | 26 |
| Lymphoma Malignant | | 1 |
| Adrenal Medulla | + | 26 |
| Bilateral, Pheochromocytoma Benign | | 1 |
| Islets, Pancreatic | + | 26 |
| Parathyroid Gland | + | 25 |
| Adenoma | | 1 |
| Pituitary Gland | + | 26 |
| Lymphoma Malignant | | 1 |
| Pars Distalis, Adenoma | X | 6 |
| Thyroid Gland | + | 25 |
| Lymphoma Malignant | | 1 |

GENERAL BODY SYSTEM

| | | |
|------------|--|---|
| Tissue NOS | | 1 |
|------------|--|---|

GENITAL SYSTEM

| | | |
|-------------------|---|----|
| Coagulating Gland | + | 25 |
| Ductus Deferens | | 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 0.50 EE2 M | DAY ON TEST | | |
|---|-------------|--|-----------------|
| | ANIMAL ID | | |
| | 0 | | |
| | 5 | | |
| | 6 | | |
| | 0 | | |
| | 0 | | |
| | 9 | | |
| | 2 | | |
| | 6 | | |
| | 2 | | |
| | | | * TOTALS |
| Epididymis | + | | 26 |
| Lymphoma Malignant | | | 1 |
| Preputial Gland | | | 6 |
| Adenoma | | | 1 |
| Carcinoma | | | 1 |
| Prostate, Dorsal/lateral Lobe | + | | 25 |
| Lymphoma Malignant | | | 1 |
| Prostate, Ventral Lobe | + | | 26 |
| Adenoma | | | 2 |
| Lymphoma Malignant | | | 1 |
| Seminal Vesicle | + | | 23 |
| Testes | + | | 26 |
| HEMATOPOIETIC SYSTEM | | | |
| Bone Marrow | + | | 25 |
| Lymphoma Malignant | | | 1 |
| Lymph Node | + | | 6 |
| Axillary, Lymphoma Malignant | | | 1 |
| Brachial, Lymphoma Malignant | | | 1 |
| Cervical, Lymphoma Malignant | | | 1 |
| Lumbar, Lymphoma Malignant | | | 1 |
| Mediastinal, Lymphoma Malignant | | | 1 |
| Pancreatic, Lymphoma Malignant | | | 1 |

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

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

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 0.50 EE2 M | | DAY ON TEST | ANIMAL ID | * TOTALS |
|---|---|-------------|-----------|----------|
| | | 0 | | |
| | | 5 | | |
| | | 6 | | |
| | | 0 | | |
| | | 0 | | |
| | | 9 | | |
| | | 2 | | |
| | | 2 | | |
| | | 6 | | |
| | | 2 | | |
| Renal, Lymphoma Malignant | | | | 1 |
| Lymph Node, Mandibular
Lymphoma Malignant | | | | 7
1 |
| Lymph Node, Mesenteric
Lymphoma Malignant | | | | 1
1 |
| Spleen
Lymphoma Malignant | + | | | 25
1 |
| Thymus
Lymphoma Malignant | + | | | 25
1 |
| INTEGUMENTARY SYSTEM | | | | |
| Mammary Gland
Adenocarcinoma | + | | | 25
1 |
| Fibroma | | | | 2 |
| Histiocytic Sarcoma | | | | 1 |
| Lipoma | | | | 1 |
| Lymphoma Malignant | | | | 1 |
| Skin | | | | 7 |
| Basal Cell Adenoma | | | | 1 |
| Basal Cell Carcinoma | | | | 1 |
| Squamous Cell Papilloma | | | | 1 |
| Subcutaneous Tissue, Histiocytic Sarcoma | | | | 1 |
| Subcutaneous Tissue, Lipoma | | | | 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: 10034 - 04
 Test Type: CHRONIC
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 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | | |
|---|-------------|---|-----------------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 0.50 EE2 M | DAY ON TEST | 0 | |
| | | 5 | |
| | | 6 | |
| | | 0 | |
| | ANIMAL ID | 0 | |
| | | 9 | |
| | | 2 | |
| | | 6 | |
| | | 2 | |
| | | | * TOTALS |

MUSCULOSKELETAL SYSTEM

| | | |
|-------------|---|----|
| Bone | | 1 |
| Bone, Femur | + | 26 |

NERVOUS SYSTEM

| | | |
|-------------------------------|---|----|
| Brain, Brain Stem | + | 26 |
| Brain, Cerebellum | + | 26 |
| Granular Cell Tumor Malignant | | 1 |
| Brain, Cerebrum | + | 26 |
| Lymphoma Malignant | | 1 |
| Meningioma Benign | | 1 |
| Nerve Trigeminal | | 3 |
| Peripheral Nerve, Sciatic | | 3 |
| Peripheral Nerve, Tibial | | 3 |
| Spinal Cord, Cervical | | 3 |
| Spinal Cord, Lumbar | | 3 |
| Spinal Cord, Thoracic | | 3 |

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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | DAY ON TEST | |
|--|-----------|-------------|-----------------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 0.50 EE2 M | | 0 | |
| | | 5 | |
| | | 6 | |
| | | 0 | |
| | ANIMAL ID | 0 | |
| | | 9 | |
| | | 2 | |
| | | 6 | |
| | | 2 | |
| | | | * TOTALS |
| Lung | + | | 13 |
| Lymphoma Malignant | | | 1 |
| Nose | + | | 12 |
| Lymphoma Malignant | | | 1 |
| Trachea | + | | 12 |
| Lymphoma Malignant | | | 1 |
| SPECIAL SENSES SYSTEM | | | |
| Eye | | | 2 |
| Lymphoma Malignant | | | 1 |
| Zymbal's Gland | | | 1 |
| Carcinoma | | | 1 |
| URINARY SYSTEM | | | |
| Kidney | + | | 26 |
| Lymphoma Malignant | | | 1 |
| SYSTEMIC LESIONS | | | |
| Multiple Organ | + | | 26 |
| Histiocytic Sarcoma | | | 1 |
| Lymphoma Malignant | | | 1 |

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|--|-------------------------|------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE | | 0
6
7
6 | 0
6
7
6 | 0
7
2
7 | 0
7
2
7 | 0
7
2
7 | 0
6
9
8 | 0
7
2
7 | 0
6
1
5 | 0
5
4
7 | 0
6
2
2 | 0
6
2
7 | 0
4
4
9 | 0
7
2
8 | 0
7
2
8 | 0
7
2
9 | 0
5
5
6 | 0
5
7
5 | 0
7
0
6 | 0
6
9
0 | 0
6
6
8 | 0
7
2
4 | 0
6
9
6 | | | |
| | F1 Veh. StDose M | ANIMAL ID | 0
1
2
1
1 | 0
1
2
1
2 | 0
1
2
2
2 | 0
1
2
3
2 | 0
1
2
3
2 | 0
1
2
4
2 | 0
1
2
4
2 | 0
1
1
5
2 | 0
1
1
7
1 | 0
3
3
3
8 | 0
3
3
3
8 | 0
3
3
3
8 | 0
3
3
3
9 | 0
3
3
4
2 | 0
3
4
4
1 | 0
3
4
4
1 | 0
3
4
4
1 | 0
5
5
5
3 | 0
5
5
3
3 | 0
5
5
4
1 | 0
5
5
4
2 | 0
5
5
4
1 | 0
5
5
5
5 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Esophagus | + | + | | | + | + | + | + | | + | + | | | | | | | + | A | + | + | + | + | | + | |
| Intestine Large, Cecum | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon
Adenocarcinoma
Adenoma | + | + | | + | A | + | + | A | + | | A | A | | | | | | + | A | A | A | + | A | | + | |
| Intestine Small, Ileum | + | + | | | A | + | + | A | + | | A | A | | | | | | + | A | A | A | + | A | | + | |
| Intestine Small, Jejunum
Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liver
Hepatocellular Adenoma
Leukemia Mononuclear
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Mesentery | | | + | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa
Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas
Lymphoma Malignant
Acinar Cell, Adenoma | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | |
| Stomach, Forestomach | + | + | | | + | | + | + | + | + | | | + | + | | | | + | A | + | A | + | + | | + | |

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | |
|--|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|---|---|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 Veh. StDose M | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | | |
| | | 6 | 6 | 7 | 7 | 7 | 6 | 7 | 6 | 5 | 6 | 6 | 7 | 6 | 4 | 7 | 7 | 7 | 5 | 5 | 7 | | 6 | 6 | 6 | 7 |
| | | 7 | 7 | 2 | 2 | 2 | 9 | 2 | 1 | 5 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 5 | 7 | 0 | 0 | 9 | 6 | 2 | 9 |
| | | 6 | 6 | 7 | 7 | 7 | 8 | 7 | 1 | 5 | 7 | 2 | 7 | 4 | 9 | 8 | 8 | 9 | 6 | 5 | 6 | 0 | 0 | 8 | 4 | 6 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | |
| | | 1 | 1 | 2 | 2 | 3 | 4 | 4 | 5 | 5 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 1 | 1 | 3 | 3 | 4 | 4 | 5 | |
| | | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | |

Squamous Cell Papilloma

Stomach, Glandular

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

CARDIOVASCULAR SYSTEM

Blood Vessel

+ +

Heart

+ +

Leukemia Mononuclear
 Lymphoma Malignant

ENDOCRINE SYSTEM

Adrenal Cortex

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

Leukemia Mononuclear
 Lymphoma Malignant

Adrenal Medulla

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

Pheochromocytoma Benign
 Pheochromocytoma Malignant

X X X

Islets, Pancreatic

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

Adenoma

X X

Parathyroid Gland

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

Adenoma

X

Pituitary Gland

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

Leukemia Mononuclear

* .. Total animals with tissue examined microscopically; 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 Veh. StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0676 | 0677 | 0678 | 0679 | 0680 | 0681 | 0682 | 0683 | 0684 | 0685 | 0686 | 0687 | 0688 | 0689 | 0690 | 0691 | 0692 | 0693 | 0694 | 0695 | 0696 | 0697 | 0698 | 0699 | | |
| | 0676 | 0677 | 0678 | 0679 | 0680 | 0681 | 0682 | 0683 | 0684 | 0685 | 0686 | 0687 | 0688 | 0689 | 0690 | 0691 | 0692 | 0693 | 0694 | 0695 | 0696 | 0697 | 0698 | 0699 | 0700 | |
| | 112 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pars Distalis, Adenoma | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Thyroid Gland | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | A | A | + | A | + | + |
| C-cell, Carcinoma | X | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coagulating Gland | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + |
| Preputial Gland | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prostate, Dorsal/lateral Lobe | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + |
| Prostate, Ventral Lobe | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | |
| Seminal Vesicle | + | + | + | + | + | A | + | + | + | A | + | + | A | A | + | + | + | + | A | A | + | + | A | + | + |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + |
| Interstitial Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | X |

HEMATOPOIETIC 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|--|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 Veh. StDose M | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 6 | 6 | 7 | 7 | 7 | 6 | 7 | 6 | 5 | 6 | 6 | 7 | 6 | 4 | 7 | 7 | 7 | 5 | 5 | 7 | 6 | 6 | 6 | 7 | |
| | | 7 | 7 | 2 | 2 | 2 | 9 | 2 | 1 | 5 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 5 | 7 | 0 | 0 | 9 | 6 | 2 | 9 |
| | | 6 | 6 | 7 | 7 | 7 | 8 | 7 | 1 | 5 | 7 | 2 | 7 | 4 | 9 | 8 | 8 | 9 | 6 | 5 | 6 | 0 | 0 | 8 | 4 | 6 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | |
| | | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 1 | 1 | 3 | 3 | 4 | 4 | 5 | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |

Bone Marrow
 Leukemia Mononuclear
 Lymphoma Malignant

Lymph Node
 Lumbar, Lymphoma Malignant
 Mediastinal, Lymphoma Malignant
 Pancreatic, Lymphoma Malignant
 Renal, Leukemia Mononuclear
 Renal, Lymphoma Malignant

Lymph Node, Mandibular
 Leukemia Mononuclear
 Lymphoma Malignant
 Squamous Cell Carcinoma, Metastatic, Skin

Lymph Node, Mesenteric
 Lymphoma Malignant

Spleen
 Leukemia Mononuclear
 Lymphoma Malignant

Thymus
 Lymphoma Malignant

INTEGUMENTARY SYSTEM

Mammary Gland
 Fibroadenoma

* .. Total animals with tissue examined microscopically; 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: 10034 - 04
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
Time Report Requested: 10:21:03
First Dose M/F: 09/25/12 / 09/25/12
Lab: NCTR

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 Veh. StDose M | ANIMAL ID | 6 | 6 | 7 | 7 | 7 | 6 | 7 | 6 | 5 | 6 | 6 | 7 | 6 | 4 | 7 | 7 | 7 | 5 | 5 | 7 | 6 | 6 | 7 | 6 | |
| | | 7 | 7 | 2 | 2 | 2 | 9 | 2 | 1 | 5 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 5 | 7 | 0 | 0 | 9 | 6 | 2 | 9 |
| | | 6 | 6 | 7 | 7 | 7 | 8 | 7 | 1 | 5 | 7 | 2 | 7 | 4 | 9 | 8 | 8 | 9 | 6 | 5 | 6 | 0 | 0 | 8 | 4 | 6 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 |
| | 1 | 1 | 2 | 2 | 3 | 4 | 4 | 5 | 5 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 1 | 1 | 1 | 1 | 3 | 3 | 4 | 4 | 5 |
| | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |

males
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Fibroma | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basal Cell Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibroma | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Fibroma | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Fibrosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Lipoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Bone | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mandible, Squamous Cell Carcinoma, Deep Invasion | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Brain, Brain Stem | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Cerebellum | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Granular Cell Tumor Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Cerebrum | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; 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: 10034 - 04
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Bisphenol A
CAS Number: 80-05-7

Date Report Requested: 08/16/2017
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First Dose M/F: 09/25/12 / 09/25/12
Lab: NCTR

| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | |
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 Veh. StDose M | 6 | 6 | 7 | 7 | 7 | 6 | 7 | 6 | 5 | 6 | 6 | 7 | 6 | 4 | 7 | 7 | 7 | 5 | 5 | 7 | 6 | 6 | 6 | 7 | 6 | | | |
| ANIMAL ID | 7 | 7 | 2 | 2 | 2 | 9 | 2 | 1 | 5 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 5 | 7 | 0 | 0 | 9 | 6 | 2 | 9 | | | |
| | 6 | 6 | 7 | 7 | 7 | 8 | 7 | 1 | 5 | 7 | 2 | 7 | 4 | 9 | 8 | 8 | 9 | 6 | 5 | 6 | 0 | 0 | 6 | 8 | 4 | 6 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 1 | 1 | 1 | 1 | 3 | 3 | 4 | 4 | 5 | | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nerve Trigeminal | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Sciatic | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Tibial | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Cervical | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Lumbar | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Thoracic | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | + | + | | | | + | + | + | + | + | | | | | | | | | + | + | + | + | + | + | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | | | | A | + | + | + | + | | | | | | | | | | + | A | + | + | + | + | | + | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------------|---|---|
| SPRAGUE DAWLEY (NCTR)
RATS MALE | DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | males
(cont...) | | |
| | ANIMAL ID | | 6 | 6 | 7 | 7 | 7 | 6 | 7 | 6 | 5 | 6 | 6 | 7 | 6 | 4 | 7 | 7 | 7 | 5 | 5 | 7 | 6 | 6 | 6 | | 7 | 6 |
| | | | 7 | 7 | 2 | 2 | 2 | 9 | 2 | 1 | 5 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 5 | 7 | 0 | 0 | 9 | 6 | | 2 | 9 |
| | | | 6 | 6 | 7 | 7 | 7 | 8 | 7 | 1 | 5 | 7 | 2 | 7 | 4 | 9 | 8 | 8 | 9 | 6 | 5 | 6 | 0 | 0 | 8 | | 4 | 6 |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 |
| F1 Veh. StDose M | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | |
| | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | |
| | | | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 1 | 1 | 3 | 3 | 4 | 4 | 5 | |
| | | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Adenoma, Tubular | X | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 Veh. StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|
| | 0681 | 0727 | 0644 | 0728 | 0779 | 0775 | 0667 | 0663 | 0559 | 0669 | 0003 | 0704 | 0662 | 0672 | 0772 | 0488 | 0722 | 0397 | 0662 | 0553 | | 0725 | 0519 |
| ANIMAL ID | 05552 | 05561 | 05562 | 05571 | 05572 | 05574 | 05574 | 05575 | 05575 | 05575 | 05575 | 05575 | 05575 | 05575 | 05575 | 05575 | 05575 | 05575 | 05575 | 05575 | 05575 | 05575 | 05575 |
| | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|
| Esophagus | + | + | | + | + | + | + | + | + | | + | + | | | + | + | + | + | | + | + | | 32 | |
| Intestine Large, Cecum | | | | | | | | | | | | | | | | | | | | + | | | | 1 |
| Intestine Large, Colon | + | + | | + | + | + | + | + | A | | A | + | | | + | + | + | A | + | | A | A | 21 | |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Adenoma | | | | | | | | | | | | X | | | | | | | | | | | 1 | |
| Intestine Small, Ileum | + | + | | + | + | + | + | + | A | | A | + | | | + | + | + | A | + | | A | A | 20 | |
| Intestine Small, Jejunum | | | | | | | | | | | | | | | | | | | | + | | | 1 | |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | | X | | | | 1 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | | X | | | | 1 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | X | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | X | | 1 | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | + | | 1 | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | X | | 1 | |
| Pancreas | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | X | 1 | |
| Acinar Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | X | 1 | |
| Stomach, Forestomach | + | + | | + | + | + | + | + | + | | + | + | | | + | + | + | + | + | | + | + | 31 | |

* .. Total animals with tissue examined microscopically; 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 Veh. StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|------|----|----|---|
| | 0681 | 0727 | 0644 | 0728 | 0779 | 0775 | 0667 | 0663 | 0559 | 0669 | 0000 | 0704 | 0662 | 0662 | 0702 | 0702 | 0488 | 0727 | 0397 | 0667 | | 0662 | 0553 | 0725 | 0521 | 0559 | 0542 | | | |
| ANIMAL ID | 05552 | 05561 | 05562 | 05571 | 05574 | 05579 | 05580 | 05581 | 05582 | 05583 | 05584 | 05585 | 05586 | 05587 | 05588 | 05589 | 05590 | 05591 | 05592 | 05593 | 05594 | 05595 | 05596 | 05597 | 05598 | 05599 | | | | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 | |
| Stomach, Glandular | + | + | + | | | + | + | + | + | + | A | | + | + | | | + | | + | + | + | + | | | + | A | | 30 | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | 1 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | 1 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Pheochromocytoma Benign | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Pheochromocytoma Malignant | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | 1 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Adenoma | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pituitary Gland | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | 46 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 Veh. StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|--------------|----|
| | 0681 | 0722 | 0764 | 0778 | 0779 | 0775 | 0766 | 0766 | 0755 | 0766 | 0700 | 0707 | 0766 | 0766 | 0777 | 0777 | 0744 | 0777 | 0733 | 0766 | 0766 | 0755 | 0777 | 0755 | 0755 | | |
| ANIMAL ID | 05552 | 05551 | 05552 | 05551 | 05552 | 05771 | 05774 | 05775 | 05779 | 05770 | 05771 | 05772 | 05775 | 05775 | 05775 | 05775 | 05775 | 05775 | 05775 | 05775 | 05775 | 05775 | 05775 | 05775 | 05775 | 05775 | |
| Pars Distalis, Adenoma | | X | X | X | X | X | | X | | | | X | X | X | X | X | | | | X | | X | X | | | 29 | |
| Thyroid Gland
C-cell, Carcinoma | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A | 43
1 | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Coagulating Gland | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A | 45 | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Preputial Gland
Carcinoma | | | + | | | | | | + | | | | | | + | | | | + | | | + | | | 14
6 | | |
| Prostate, Dorsal/lateral Lobe | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A | 46 | |
| Prostate, Ventral Lobe
Adenoma
Adenoma, Multiple | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48
3
1 | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | A | + | + | A | A | 39 |
| Testes
Interstitial Cell, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49
1 | |

HEMATOPOIETIC 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 Veh. StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|------|--|
| | 0681 | 0727 | 0644 | 0728 | 0772 | 0775 | 0667 | 0667 | 0559 | 0669 | 0003 | 0704 | 0667 | 0667 | 0702 | 0702 | 0408 | 0702 | 0303 | 0606 | | 0606 | 0505 | 0702 | 0505 | 0504 | |
| ANIMAL ID | 0555 | 0555 | 0556 | 0557 | 0557 | 0744 | 0744 | 0755 | 0755 | 0755 | 0755 | 0755 | 0755 | 0755 | 0933 | 0933 | 0933 | 0933 | 0933 | 0933 | 0933 | 0933 | 0933 | 0933 | 0933 | 0933 | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | | 1 | |
| Lymph Node | | + | + | | | | | | | | | | | + | | | | | | | + | + | + | + | + | 16 | |
| Lumbar, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | | 1 | |
| Mediastinal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | | 1 | |
| Pancreatic, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | | 1 | |
| Renal, Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | X | | 1 | |
| Renal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | | 1 | |
| Lymph Node, Mandibular | | | | | | | | | + | | | | | + | + | | | | | + | | | + | + | | 8 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | | 1 | |
| Squamous Cell Carcinoma, Metastatic, Skin | | | | | | | | | X | | | | | | | | | | | | | | | | | 1 | |
| Lymph Node, Mesenteric | | | | | | | | | | | | | | | | | | | | | | | | + | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | | 1 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | | 1 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | | 1 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Fibroadenoma | | | | | | | 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPRAGUE DAWLEY (NCTR) | 6 | 7 | 6 | 7 | 7 | 7 | 6 | 6 | 5 | 6 | 0 | 7 | 6 | 6 | 7 | 7 | 4 | 7 | 3 | 6 | 6 | 5 | 7 | 5 | 5 | 5 | 5 | |
| | 8 | 2 | 4 | 2 | 2 | 1 | 1 | 3 | 7 | 0 | 4 | 2 | 6 | 2 | 2 | 2 | 8 | 2 | 9 | 7 | 7 | 5 | 2 | 1 | 4 | 4 | 2 | |
| RATS MALE | 1 | 7 | 4 | 8 | 9 | 5 | 7 | 7 | 9 | 6 | 8 | 7 | 7 | 2 | 7 | 7 | 4 | 7 | 3 | 6 | 6 | 3 | 5 | 5 | 9 | 9 | 9 | |
| F1 Veh. StDose M | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 5 | 6 | 6 | 7 | 7 | 9 | 9 | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | |
| ANIMAL ID | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|---|--|--|---|---|---|--|--|--|--|---|---|--|--|--|--|--|---|--|---|---|---|--|--|---|----|
| Fibroma | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Skin | + | | + | | | + | + | + | | | | | + | + | | | | | | + | | + | + | + | | | | 21 |
| Basal Cell Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Fibroma | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Subcutaneous Tissue, Fibroma | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Subcutaneous Tissue, Fibrosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Subcutaneous Tissue, Lipoma | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Subcutaneous Tissue, Schwannoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Mandible, Squamous Cell Carcinoma, Deep Invasion | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Granular Cell Tumor Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 Veh. StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|--|
| | 0681 | 0727 | 0644 | 0728 | 0779 | 0775 | 0667 | 0663 | 0559 | 0669 | 0003 | 0704 | 0662 | 0722 | 0772 | 0488 | 0722 | 0379 | 0667 | 0662 | 0553 | 0725 | 0519 | 0554 | | 0552 | |
| ANIMAL ID | 0552 | 0551 | 0552 | 0551 | 0552 | 0771 | 0774 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0993 | 0993 | 0993 | 0993 | 0993 | 0993 | 0993 | 0993 | 0993 | 0993 | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | X | 1 | | |
| Nerve Trigeminal | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Peripheral Nerve, Sciatic | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Peripheral Nerve, Tibial | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Spinal Cord, Cervical | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Spinal Cord, Lumbar | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Spinal Cord, Thoracic | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | | + | | + | + | + | + | + | + | + | | + | + | + | | + | + | + | + | + | + | | + | + | 36 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | X | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | X | | | 1 | |
| Nose | + | + | | | + | + | + | + | + | A | | + | + | | | + | + | + | + | + | | + | + | | 30 | | |
| Trachea | + | + | | | + | + | + | + | + | A | | + | + | | | + | + | + | + | + | | + | A | | 27 | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 Veh. StDose M | | DAY ON TEST | 0681 | 0727 | 0644 | 0728 | 0779 | 0775 | 0667 | 0663 | 0559 | 0666 | 0077 | 0662 | 0672 | 0772 | 0448 | 0722 | 0339 | 0667 | 0662 | 0553 | 0725 | 0521 | 0559 | 0542 | | | |
|--|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|----|
| | | ANIMAL ID | 0552 | 0551 | 0552 | 0551 | 0552 | 0551 | 0772 | 0774 | 0775 | 0770 | 0771 | 0775 | 0772 | 0772 | 0773 | 0993 | 0993 | 0993 | 0993 | 0993 | 0993 | 0993 | 0993 | 0993 | 0993 | | |
| Adenoma, Tubular | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | X | | | | | 1 | |
| Urinary Bladder | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | 6 |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2.5 StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
| | 0675 | 0772 | 0396 | 0728 | 0773 | 0432 | 0728 | 0660 | 0661 | 0771 | 0559 | 0672 | 0778 | 0677 | 0558 | 0668 | 0772 | 0777 | 0677 | 0420 | 0350 | 0730 | 0537 | 0556 | |
| | ANIMAL ID | 0137 | 0133 | 0133 | 0133 | 0133 | 0134 | 0144 | 0144 | 0144 | 0111 | 0133 | 0133 | 0133 | 0133 | 0133 | 0133 | 0133 | 0133 | 0133 | 0133 | 0133 | 0133 | 0133 | |
| | + | + | | + | + | | + | + | | + | + | | | | + | + | + | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | + | + | | + | + | | + | + | | + | + | | A | + | + | | | | + | A | + | | + | + | |
| | | | | | | | | | | | | | | | | | | | | | + | X | | | |
| | + | + | | + | | | A | + | | A | + | | A | + | + | | | + | A | + | | + | + | + | |
| | | | + | | | | | + | | + | | | | | | | | | | | | | | | |
| | | | X | | | | | | | X | | | | | | | | | | | | | | | |
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | X | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | + | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | | + | + | | | | + | + | | | + | + | + | | | | | + | + | + | | + | + |
| Intestine Large, Cecum | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon | + | + | | + | + | | + | + | | + | + | | A | + | + | | | | + | A | + | | + | + | |
| Intestine Small, Duodenum Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum | + | + | | + | | | A | + | | A | + | | A | + | + | | | + | A | + | | + | + | + | |
| Intestine Small, Jejunum Adenocarcinoma | | | | + | | | | + | | | | | | | | | | | | | | | | | |
| Intestine Small, Jejunum Adenoma | | | | X | | | | | | X | | | | | | | | | | | | | | | |
| Liver Hepatocellular Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Liver Hepatocellular Carcinoma | | | | X | | | | | | | | | | | | | | | | | | | | | |
| Liver Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery Liposarcoma, Metastatic, Kidney | | | | | | | | | | | | | | + | | | | | | | | | | | |
| Pancreas Leukemia Granulocytic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | |
| Pancreas Liposarcoma, Metastatic, Kidney | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas Acinar 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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2.5 StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
| | 0675 | 0727 | 0396 | 0728 | 0727 | 0436 | 0728 | 0620 | 0661 | 0727 | 0529 | 0672 | 0728 | 0677 | 0518 | 0668 | 0727 | 0727 | 0670 | 0482 | 0350 | 0730 | 0537 | 0556 | | |
| ANIMAL ID | 01371 | 01372 | 01373 | 01374 | 01375 | 01376 | 01377 | 01378 | 01379 | 01380 | 01381 | 01382 | 01383 | 01384 | 01385 | 01386 | 01387 | 01388 | 01389 | 01390 | 01391 | 01392 | 01393 | 01394 | 01395 | |

Stomach, Forestomach
Squamous Cell Papilloma

+ +

Stomach, Glandular
Adenoma

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

CARDIOVASCULAR SYSTEM

Blood Vessel
Leukemia Granulocytic
Mesothelioma Malignant

+ X

Heart
Leukemia Granulocytic
Mesothelioma Malignant
Schwannoma Malignant

+ X

ENDOCRINE SYSTEM

Adrenal Cortex
Adenoma
Leukemia Granulocytic

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

Adrenal Medulla
Pheochromocytoma Benign
Pheochromocytoma Malignant
Bilateral, Pheochromocytoma Benign

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

Islets, Pancreatic
Adenoma

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

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2.5 StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|-----------|--------------------|
| | 0675 | 0727 | 0396 | 0728 | 0727 | 0436 | 0722 | 0668 | 0661 | 0777 | 0529 | 0672 | 0767 | 0668 | 0518 | 0668 | 0777 | 0777 | 0666 | 0448 | 0335 | 0737 | 0556 | 0556 | | | |
| | 0137 | 0133 | 0138 | 0133 | 0133 | 0133 | 0144 | 0144 | 0144 | 0144 | 0155 | 0155 | 0155 | 0155 | 0155 | 0155 | 0155 | 0155 | 0155 | 0155 | 0155 | 0155 | 0155 | 0155 | | | |

Carcinoma

Parathyroid Gland
 Leukemia Granulocytic

Pituitary Gland
 Leukemia Granulocytic
 Pars Distalis, Adenoma
 Pars Intermedia, Adenoma

Thyroid Gland
 Leukemia Granulocytic
 C-cell, Adenoma
 Follicular Cell, Adenoma

GENERAL BODY SYSTEM

Tissue NOS
 Mesothelioma Malignant

GENITAL SYSTEM

Bulbourethral Gland

Coagulating Gland
 Leukemia Granulocytic

Epididymis
 Leukemia Granulocytic

Preputial Gland

* .. 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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2.5 StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------------------|--------------------|--------------------|
| | 0675 | 0772 | 0396 | 0728 | 0776 | 0433 | 0728 | 0660 | 0661 | 0777 | 0552 | 0672 | 0676 | 0551 | 0668 | 0677 | 0777 | 0660 | 0432 | 0390 | 0775 | 0530 | 0576 | 0556 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11333335555556677990212 | males
(cont...) | |

Carcinoma
 Squamous Cell Papilloma
 Bilateral, Carcinoma

X X X

Prostate, Dorsal/lateral Lobe
 Leukemia Granulocytic

+ +

Prostate, Ventral Lobe
 Adenoma
 Adenoma, Multiple
 Leukemia Granulocytic

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

Seminal Vesicle
 Leukemia Granulocytic

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

Testes
 Seminoma Benign

+ +

HEMATOPOIETIC SYSTEM

Bone Marrow
 Leukemia Granulocytic

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

Lymph Node
 Brachial, Leukemia Granulocytic
 Cervical, Leukemia Granulocytic
 Inguinal, Leukemia Granulocytic
 Lumbar, Leukemia Granulocytic
 Mediastinal, Leukemia Granulocytic
 Renal, Leukemia Granulocytic

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

* .. Total animals with tissue examined microscopically; 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|---|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2.5 StDose M | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 6 | 7 | 3 | 7 | 7 | 4 | 7 | 6 | 6 | 7 | 5 | 6 | 7 | 6 | 5 | 6 | 7 | 7 | 7 | 6 | 4 | 3 | 7 | 5 | |
| | | 7 | 2 | 9 | 2 | 2 | 3 | 2 | 2 | 5 | 2 | 5 | 7 | 2 | 7 | 1 | 3 | 2 | 2 | 7 | 7 | 8 | 5 | 3 | 7 | 5 |
| | | 5 | 7 | 6 | 8 | 7 | 6 | 8 | 0 | 1 | 7 | 9 | 2 | 8 | 7 | 8 | 8 | 6 | 7 | 7 | 0 | 2 | 0 | 6 | 5 | 6 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 7 |
| | | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 1 | 1 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 9 | 9 | 0 | 0 | 1 |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 |

Lymph Node, Mandibular
Leukemia Granulocytic

+ + +

Lymph Node, Mesenteric
Leukemia Granulocytic

+

Spleen
Leukemia Granulocytic
Liposarcoma
Sarcoma

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

Thymus
Leukemia Granulocytic
Mesothelioma Malignant

+
X

INTEGUMENTARY SYSTEM

Mammary Gland
Fibroadenoma
Leukemia Granulocytic

+ +

Skin
Basal Cell Adenoma
Sebaceous Gland, Adenoma
Subcutaneous Tissue, Fibroma

+
X X X

MUSCULOSKELETAL SYSTEM

Bone, Femur

+ +

* .. Total animals with tissue examined microscopically; 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | |
|------------------------------------|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|------|------|------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE | | 0675 | 0727 | 0398 | 0728 | 0776 | 0436 | 0728 | 0662 | 0661 | 0752 | 0759 | 0672 | 0768 | 0651 | 0663 | 0722 | 0777 | 0677 | 0482 | 0350 | | 0730 | 0576 | 0556 |
| F1 2.5 StDose M | | 0137 | 0138 | 0138 | 0138 | 0138 | 0138 | 0138 | 0138 | 0138 | 0138 | 0138 | 0138 | 0138 | 0138 | 0138 | 0138 | 0138 | 0138 | 0138 | 0138 | | 0138 | 0138 | 0138 |
| ANIMAL ID | | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |

Skeletal Muscle
 Mesothelioma Malignant

+
 X

NERVOUS SYSTEM

Brain, Brain Stem
 Leukemia Granulocytic

+ +

Brain, Cerebellum
 Leukemia Granulocytic

+ +

Brain, Cerebrum
 Granular Cell Tumor Benign
 Leukemia Granulocytic

+ +

RESPIRATORY SYSTEM

Lung
 Leukemia Granulocytic
 Mesothelioma Malignant

+
 X

Nose
 Leukemia Granulocytic

+ +

Trachea

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

SPECIAL SENSES SYSTEM

Eye

+

* .. Total animals with tissue examined microscopically; 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|---|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2.5 StDose M | | 0675 | 0727 | 0398 | 0778 | 0776 | 0476 | 0770 | 0661 | 0677 | 0559 | 0672 | 0778 | 0667 | 0558 | 0678 | 0772 | 0772 | 0677 | 0480 | 0350 | 0730 | 0537 | 0556 | 0556 | |
| ANIMAL ID | | 01371 | 01337 | 01338 | 01333 | 01333 | 01344 | 01344 | 01344 | 01344 | 01355 | 01355 | 01355 | 01355 | 01355 | 01355 | 01366 | 01366 | 01366 | 01366 | 01377 | 01377 | 01399 | 01399 | 01399 | |

Lacrimal Gland +

Zymbal's Gland Carcinoma +

URINARY SYSTEM

Kidney +

Leukemia Granulocytic

Lipoma X

Liposarcoma X

Mesenchymal Tumor Malignant X

Urinary Bladder +

SYSTEMIC LESIONS

Multiple Organ +

Leukemia Granulocytic

Mesothelioma 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|---|--|
| SPRAGUE DAWLEY (NCTR)
RATS MALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | | 5 | 7 | 7 | 6 | 5 | 7 | 4 | 5 | 6 | 6 | 5 | 7 | 7 | 6 | 5 | 5 | 6 | 7 | 6 | 5 | 6 | 4 | 6 | |
| F1 2.5 StDose M | | 9 | 2 | 2 | 8 | 3 | 2 | 5 | 9 | 6 | 8 | 1 | 2 | 2 | 2 | 8 | 9 | 9 | 2 | 6 | 7 | 0 | 2 | 9 | |
| | | 6 | 5 | 6 | 3 | 0 | 6 | 0 | 0 | 6 | 0 | 7 | 5 | 5 | 8 | 5 | 6 | 7 | 8 | 1 | 5 | 9 | 6 | 6 | |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 9 | 9 | 7 | 7 | 8 | 8 | 9 | 9 | 9 | |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|-----------|
| Esophagus | + | | | + | + | | | + | + | + | + | + | | | + | + | + | + | | + | + | + | + | | | 32 |
| Intestine Large, Cecum | | | | | | | | + | | | | | | | | | | | | | | | | | | 1 |
| Intestine Large, Colon | A | | | + | + | | | + | + | + | + | + | | | + | + | A | + | | A | + | + | A | + | | 26 |
| Intestine Small, Duodenum | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Intestine Small, Ileum | A | | | A | + | | | + | + | + | + | + | | | + | + | A | A | | A | + | + | A | + | | 22 |
| Intestine Small, Jejunum | | | | | | | | | | | | | | | | | | | | | | | | + | | 3 |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | X | | | 1 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 48 |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hepatocellular Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | X | | | 1 |
| Mesentery | | | | | | | | | + | | | | | | M | | | | | | | | | | | 2 |
| Liposarcoma, Metastatic, Kidney | | | | | | | | | X | | | | | | | | | | | | | | | | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | | 46 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | X | | | 1 |
| Liposarcoma, Metastatic, Kidney | | | | | | | | | X | | | | | | | | | | | | | | | | | 1 |
| Acinar 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

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 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2.5 StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|---|---|---------|-------------------|
| | 0596 | 0725 | 0726 | 0683 | 0530 | 0726 | 0450 | 0596 | 0660 | 0660 | 0577 | 0722 | 0725 | 0628 | 0556 | 0699 | 0728 | 0661 | 0579 | 0649 | | 0646 | | | | |
| ANIMAL ID | 05712 | 05711 | 05712 | 05713 | 05711 | 05717 | 05717 | 05717 | 05716 | 05716 | 05716 | 05716 | 05714 | 05715 | 05716 | 05717 | 05719 | 05719 | 05719 | 05719 | 05714 | 05719 | | | | |
| Stomach, Forestomach
Squamous Cell Papilloma | + | | | + | + | | | + | + | + | + | + | | | + | + | + | + | | + | + | + | + | + | 33
1 | |
| Stomach, Glandular
Adenoma | + | | | + | + | | | + | + | + | + | + | | | + | + | A | + | | + | + | + | A | + | 29
1 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel
Leukemia Granulocytic
Mesothelioma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | X | + | + | 48
1
1 |
| Heart
Leukemia Granulocytic
Mesothelioma Malignant
Schwannoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | X | + | + | 48
1
1
1 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex
Adenoma
Leukemia Granulocytic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | X | | | + | 47
2
1 |
| Adrenal Medulla
Pheochromocytoma Benign
Pheochromocytoma Malignant
Bilateral, Pheochromocytoma Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | | | | + | 46
2
1
1 |
| Islets, Pancreatic
Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | X | + | 47
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: 10034 - 04

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Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2.5 StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|------|---|----|
| | 0596 | 0725 | 0726 | 0683 | 0530 | 0726 | 0450 | 0596 | 0660 | 0660 | 0577 | 0775 | 0622 | 0622 | 0858 | 0599 | 0699 | 0728 | 0661 | 0579 | | 0646 | 0696 | | |
| ANIMAL ID | 05712 | 05721 | 05722 | 05731 | 05732 | 05761 | 05762 | 05766 | 05766 | 05766 | 05771 | 05772 | 05776 | 05776 | 05776 | 05776 | 05794 | 05794 | 05794 | 05794 | 05794 | 05794 | | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | X | 1 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 46 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | X | | 1 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 48 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | X | | 1 |
| Pars Distalis, Adenoma | | | | X | X | | | | | X | | X | X | X | X | | X | X | | | | | | | 22 |
| Pars Intermedia, Adenoma | | | | | | | | X | | | | | | | | | | | | | | | | | 1 |
| Thyroid Gland | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | | 45 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | X | | 1 |
| C-cell, Adenoma | | | | | | | | | | | | | | | | | | | | X | | | | | 1 |
| Follicular Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bulbourethral Gland | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Coagulating Gland | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | | 45 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | X | | 1 |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 48 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | X | | 1 |
| Preputial Gland | | | | | | + | | | + | + | | | + | | | | | + | + | | | + | + | | 16 |

* .. 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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| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2.5 StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| | 0596 | 0725 | 0726 | 0683 | 0530 | 0746 | 0450 | 0560 | 0666 | 0660 | 0577 | 0745 | 0628 | 0555 | 0667 | 0768 | 0661 | 0565 | 0649 | 0426 | |
| ANIMAL ID | 057122 | 057122 | 057121 | 057121 | 057121 | 057121 | 057121 | 057121 | 057121 | 057121 | 057121 | 057121 | 057121 | 057121 | 057121 | 057121 | 057121 | 057121 | 057121 | 057121 | 057121 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | X | 3 | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Bilateral, Carcinoma | | | | | | | | | | X | | | | | | | | | | X | | | 2 | |
| Prostate, Dorsal/lateral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | X | 1 | |
| Prostate, Ventral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Adenoma | | | | X | | | | | | | | | | | | | | | | | | | 2 | |
| Adenoma, Multiple | | | | | | | | | | X | | | | | | | | | X | | | | 2 | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | X | | 1 | |
| Seminal Vesicle | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | 43 | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | X | 1 | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Seminoma Benign | | | | | | | | | | | | | | | | | | | | | | | 1 | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Lymph Node | | | | | | | | | + | + | + | | + | + | | | | | + | | + | + | 17 |
| Brachial, Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Cervical, Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Inguinal, Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Lumbar, Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Mediastinal, Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Renal, Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | X | 1 |

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

M .. Missing tissue
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| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2.5 StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------------------|--------|
| | 0596 | 0725 | 0726 | 0683 | 0530 | 0726 | 0450 | 0560 | 0660 | 0660 | 0577 | 0725 | 0725 | 0628 | 0585 | 0566 | 0678 | 0661 | 0579 | 0649 | | 0646 | | | | |
| ANIMAL ID | 05712 | 05521 | 05722 | 05731 | 05732 | 07761 | 07762 | 07763 | 07764 | 07765 | 07766 | 07767 | 07768 | 07769 | 07770 | 07771 | 07772 | 07773 | 09944 | 09945 | 09946 | 09947 | 09948 | 09949 | 09950 | |
| Lymph Node, Mandibular
Leukemia Granulocytic | | | + | | + | | | | + | | | | | | | | | | | + | | | | | | 8
1 |
| Lymph Node, Mesenteric
Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | | 2
1 |
| Spleen
Leukemia Granulocytic
Liposarcoma
Sarcoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47
1
1
1 | |
| Thymus
Leukemia Granulocytic
Mesothelioma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48
1
1 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland
Fibroadenoma
Leukemia Granulocytic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48
1
1 | |
| Skin
Basal Cell Adenoma
Sebaceous Gland, Adenoma
Subcutaneous Tissue, Fibroma | + | | | | | | | | + | + | + | + | + | | | | + | | | + | | | | | 18
1
1
5 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |

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

M .. Missing tissue
 A .. Autolysis precludes evaluation
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| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|---|--|
| SPRAGUE DAWLEY (NCTR)
RATS MALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | F1 2.5 StDose M | 5 | 7 | 7 | 6 | 5 | 7 | 4 | 5 | 6 | 6 | 5 | 7 | 7 | 6 | 5 | 5 | 6 | 7 | 6 | 5 | 6 | 4 | 6 | |
| | ANIMAL ID | 9 | 2 | 2 | 8 | 3 | 2 | 5 | 9 | 6 | 8 | 1 | 2 | 2 | 2 | 8 | 9 | 9 | 2 | 6 | 7 | 0 | 2 | 9 | |
| | | 6 | 5 | 6 | 3 | 0 | 6 | 0 | 6 | 6 | 0 | 7 | 5 | 5 | 8 | 5 | 6 | 7 | 8 | 1 | 5 | 9 | 6 | 6 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 9 | 9 | 7 | 7 | 8 | 8 | 9 | 9 | 9 | |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |

Skeletal Muscle
 Mesothelioma Malignant

1
 1

NERVOUS SYSTEM

Brain, Brain Stem
 Leukemia Granulocytic

+
 X

48
 1

Brain, Cerebellum
 Leukemia Granulocytic

+
 X

48
 1

Brain, Cerebrum
 Granular Cell Tumor Benign
 Leukemia Granulocytic

+
 X X

48
 1
 1

RESPIRATORY SYSTEM

Lung
 Leukemia Granulocytic
 Mesothelioma Malignant

+
 X

33
 1
 1

Nose
 Leukemia Granulocytic

+
 X

32
 1

Trachea

A +
 A +

26

SPECIAL SENSES SYSTEM

Eye

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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

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Bisphenol A

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| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2.5 StDose M | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|---|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ANIMAL ID | 5 | 7 | 7 | 6 | 5 | 7 | 4 | 5 | 6 | 6 | 5 | 7 | 7 | 6 | 5 | 5 | 6 | 7 | 6 | 5 | 6 | 4 |
| | 9 | 2 | 2 | 8 | 3 | 2 | 5 | 9 | 6 | 8 | 1 | 2 | 2 | 2 | 8 | 9 | 9 | 2 | 6 | 7 | 0 | 2 | 9 |
| | 6 | 5 | 6 | 3 | 0 | 6 | 0 | 0 | 6 | 0 | 7 | 5 | 5 | 8 | 5 | 6 | 7 | 8 | 1 | 5 | 9 | 6 | 6 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 9 | 7 | 8 | 8 | 8 | 9 | 9 | |
| | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 4 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | | | | 1 |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | 2 |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | 1 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|-----------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lipoma | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Liposarcoma | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Mesenchymal Tumor Malignant | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Urinary Bladder | | | | | | | | | | | | | | | | | | | | | | 1 | |

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|-----------|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Mesothelioma 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

Experiment Number: 10034 - 04
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Bisphenol A
CAS Number: 80-05-7

Date Report Requested: 08/16/2017
Time Report Requested: 10:21:03
First Dose M/F: 09/25/12 / 09/25/12
Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25.0 StDose M | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ANIMAL ID | 7 | 4 | 7 | 6 | 4 | 7 | 6 | 6 | 7 | 5 | 7 | 6 | 6 | 5 | 4 | 3 | 7 | 7 | 6 | 6 | 7 | 5 | 7 | 6 | 6 | 7 |
| | | 2 | 0 | 2 | 6 | 7 | 2 | 2 | 9 | 3 | 0 | 2 | 7 | 4 | 1 | 9 | 9 | 1 | 2 | 8 | 0 | 2 | 6 | 0 | 7 | 6 | 5 |
| | | 7 | 5 | 8 | 8 | 8 | 0 | 4 | 3 | 0 | 6 | 5 | 8 | 9 | 3 | 0 | 4 | 7 | 9 | 1 | 8 | 9 | 8 | 0 | 7 | 5 | 6 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 9 | 9 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 5 | 5 | 5 | 6 | 6 | 7 | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |

males
(cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|--|--|--|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | | | | + | | + | + | + | + | + | | | + | | + | + | + | + | + | + | | | | | | | |
| Intestine Large, Cecum
Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon | | | | A | | + | + | A | + | + | | + | | + | A | + | A | + | + | | + | + | | A | + | A | + |
| Intestine Small, Ileum | | | | A | | + | + | A | + | + | | + | | + | A | + | A | + | + | | + | + | | A | + | A | + |
| Intestine Small, Jejunum | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liver | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocellular Adenoma | | | | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | X | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | + | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | + | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Granulocytic | | | | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25.0 StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|-------|
| | 0727 | 0405 | 0708 | 0608 | 0408 | 0702 | 0604 | 0603 | 0700 | 0506 | 0705 | 0608 | 0609 | 0503 | 0400 | 0304 | 0701 | 0702 | 0601 | 0608 | 0709 | 0508 | 0700 | 0608 | | 0605 |
| ANIMAL ID | 01531 | 01532 | 01541 | 01542 | 01551 | 01552 | 01561 | 01562 | 01571 | 01572 | 01581 | 01582 | 01591 | 01592 | 01601 | 01602 | 01611 | 01612 | 01621 | 01622 | 01631 | 01632 | 01641 | 01642 | 01651 | 01652 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|--|---|---|---|---|---|--|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Stomach, Forestomach | + | + | | + | + | + | + | + | | + | | + | + | + | + | + | | + | + | + | + | + | + | + | + |
| Stomach, Glandular
Leukemia Mononuclear | | A | | + | + | + | + | + | | + | | + | A | + | A | + | + | | + | + | | + | + | A | + |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel
Leukemia Granulocytic | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart
Leukemia Granulocytic
Leukemia Mononuclear
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex
Adenoma
Leukemia Granulocytic
Leukemia Mononuclear
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adrenal Medulla
Leukemia Granulocytic
Pheochromocytoma Benign
Bilateral, Pheochromocytoma Benign | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + |
| Islets, Pancreatic
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

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 Species/Strain: RATS/Sprague Dawley (NCTR)

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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25.0 StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0727 | 0405 | 0728 | 0668 | 0478 | 0760 | 0664 | 0663 | 0790 | 0530 | 0725 | 0668 | 0669 | 0513 | 0490 | 0394 | 0771 | 0729 | 0661 | 0668 | 0729 | 0568 | 0700 | 0678 | 0665 | | |
| Carcinoma | | | | X | | | | | | | | | | | | | | | | | | | | | X | | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| Pars Distalis, Adenoma | | | | X | | X | | | X | | | X | | | | | | | X | X | | | X | X | | | |
| Pars Distalis, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | A | + | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Coagulating Gland | + | + | + | + | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | A | + | + | + | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Preputial Gland | | | | + | + | | | | | | | | | + | + | + | | | | | | + | + | + | | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | X | | X | | | | | | | X | | | | |
| Prostate, Dorsal/lateral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Adenocarcinoma | | | | | | | X | | | | | | | | | | | | | | | | | | | | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | | 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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Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

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Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|--|--|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25.0 StDose M | | 0727 | 0745 | 0778 | 0768 | 0748 | 0772 | 0766 | 0766 | 0773 | 0750 | 0776 | 0766 | 0766 | 0755 | 0743 | 0737 | 0777 | 0766 | 0766 | 0777 | 0755 | 0777 | 0766 | 0766 | |
| ANIMAL ID | | 0153 | 0153 | 0154 | 0154 | 0155 | 0155 | 0156 | 0156 | 0157 | 0157 | 0158 | 0158 | 0159 | 0159 | 0160 | 0160 | 0161 | 0161 | 0162 | 0162 | 0163 | 0163 | 0164 | 0164 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prostate, Ventral Lobe Adenoma | | + + + + + + + + + + + A + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenoma, Multiple | | X X | | | | | | | | | | | | | | | | | | | | | | | | |
| Seminal Vesicle | | + + + + + A + + + + + A + A + + + + + A + A + | | | | | | | | | | | | | | | | | | | | | | | | |
| Testes Interstitial Cell, Adenoma | | + | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Bone Marrow | | + + + + + + + + + + + + + A A + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Granulocytic | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | + + + + + | | | | | | | | | | | | | | | | | | | | | | | |
| Axillary, Leukemia Granulocytic | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Carcinoma, Metastatic, Preputial Gland | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Leukemia Granulocytic | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Lymphoma Malignant | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Leukemia Granulocytic | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Lymphoma Malignant | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Leukemia Granulocytic | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Lymphoma Malignant | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Leukemia Granulocytic | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | | + + + + + | | | | | | | | | | | | | | | | | | | | | | | |

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

M .. Missing tissue
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| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25.0 StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma, Metastatic, Skin | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Lymph Node, Mesenteric | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Spleen | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | |
| Fibroadenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | |
| Skin | + | + | | | | | | | | | | | | | | | | | | | | + | + | + | | | | | + | + | + | + | + | + |
| Basal Cell Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Keratoacanthoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | |
| Subcutaneous Tissue, Fibroma | | | | | | | | | | | | | | | | | | | | | | | | | 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | |
|------------------------------------|------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | | |
| SPRAGUE DAWLEY (NCTR)
RATS MALE | F1 25.0 StDose M | 7 | 4 | 7 | 6 | 4 | 7 | 6 | 6 | 7 | 5 | 7 | 6 | 6 | 5 | 4 | 3 | 7 | 7 | 6 | 6 | | 7 | 5 | 7 | 6 |
| | | 2 | 0 | 2 | 6 | 7 | 2 | 2 | 9 | 3 | 0 | 2 | 7 | 4 | 1 | 9 | 9 | 1 | 2 | 8 | 0 | 2 | 6 | 0 | 7 | 5 |
| | | 7 | 5 | 8 | 8 | 8 | 0 | 4 | 3 | 0 | 6 | 5 | 8 | 9 | 3 | 0 | 4 | 7 | 9 | 1 | 8 | 9 | 8 | 0 | 7 | 6 |
| | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 |
| | | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 5 | 5 | 6 | 6 | 7 |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 |

Subcutaneous Tissue, Lipoma
Subcutaneous Tissue, Schwannoma Malignant

X

MUSCULOSKELETAL SYSTEM

Bone

Bone, Femur

Skeletal Muscle

+
+
+

NERVOUS SYSTEM

Brain, Brain Stem

Carcinoma, Deep Invasion

Granular Cell Tumor Malignant

Leukemia Granulocytic

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

Brain, Cerebellum

Leukemia Granulocytic

Leukemia Mononuclear

+
X

Brain, Cerebrum

Granular Cell Tumor Malignant

Leukemia Granulocytic

Leukemia Mononuclear

+
X
X

Nerve Trigeminal

Peripheral Nerve, Sciatic

+ +
+ +

* .. Total animals with tissue examined microscopically; 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | | | |
|--|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|-------|-------|-------|-------|-------|-------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25.0 StDose M | | 0727 | 0405 | 0708 | 0608 | 0408 | 0702 | 0604 | 0603 | 0700 | 0506 | 0705 | 0608 | 0609 | 0503 | 0400 | 0304 | 0707 | 0602 | 0601 | 0709 | | 0508 | 0700 | 0608 | 0605 | 0708 | 0606 |
| ANIMAL ID | | 01531 | 01532 | 01534 | 01532 | 01531 | 01531 | 01531 | 01531 | 01531 | 01533 | 01533 | 01533 | 01533 | 01533 | 01533 | 01533 | 01537 | 01537 | 01537 | 01537 | | 01535 | 01535 | 01535 | 01535 | 01535 | 01535 |

Peripheral Nerve, Tibial

+ +

Spinal Cord, Cervical

+ +

Spinal Cord, Lumbar

+ +

Spinal Cord, Thoracic

+ +

RESPIRATORY SYSTEM

Lung

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

Leukemia Granulocytic

X

Leukemia Mononuclear

Lymphoma Malignant

X

Nose

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

Leukemia Granulocytic

X

Leukemia Mononuclear

Lymphoma Malignant

X

Squamous Cell Carcinoma

X

X

Trachea

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

SPECIAL SENSES SYSTEM

Eye

+ +

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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25.0 StDose M | 0
7
2
7 | 0
4
0
5 | 0
7
2
8 | 0
6
6
8 | 0
4
7
8 | 0
7
2
0 | 0
6
2
4 | 0
6
9
3 | 0
7
3
0 | 0
5
2
6 | 0
7
2
5 | 0
6
7
8 | 0
6
4
9 | 0
5
1
3 | 0
4
9
0 | 0
3
9
4 | 0
7
1
7 | 0
7
2
9 | 0
6
8
0 | 0
6
2
8 | 0
7
5
9 | 0
5
6
8 | 0
7
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0 | 0
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8 | 0
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6 | | |
| | 0
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1 | 0
1
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2 | 0
1
5
4
1 | 0
1
5
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2 | 0
1
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1 | 0
1
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2 | 0
1
5
6
1 | 0
1
5
6
2 | 0
1
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7
1 | 0
1
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7
2 | 0
3
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9
1 | 0
3
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2 | 0
3
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5
8
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1 | 0
5
8
3
2 | 0
5
8
3
1 | 0
5
8
6
2 | 0
5
8
6
1 | 0
5
5
6
2 | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Granulocytic | | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liposarcoma | | | | | | | X | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| Urinary Bladder | | | | | | | | | | | | | + | | | | | | | | | | | | | | + |

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Granulocytic | | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | X | | | | | | | | | | | |

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

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

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25.0 StDose M | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 0639 | 0583 | 0553 | 0557 | 0535 | 0673 | 0669 | 0588 | 0725 | 0750 | 0770 | 0772 | 0778 | 0679 | 0775 | 0778 | 0663 | 0778 | 0722 | 0728 | 0778 | 0778 | 0778 | 0496 | |
| | 0587 | 0588 | 0588 | 0588 | 0587 | 0777 | 0777 | 0777 | 0777 | 0777 | 0778 | 0788 | 0788 | 0888 | 0966 | 0999 | 0999 | 0999 | 0999 | 0999 | 0999 | 0999 | 0999 | 0999 | 0999 | * TOTALS |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | | | | | | | | | 32 |
| Intestine Large, Cecum | | | | | | | | | | | | | | | | | | | | + | | | | | 1 |
| Adenoma | | | | | | | | | | | | | | | | | | | | X | | | | | 1 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | | | | A | | | | | A | | | | + | 24 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | | | | A | | | | | A | | | | + | 24 |
| Intestine Small, Jejunum | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Hepatocellular Adenoma | | | | | | | | | | | | | X | | | | | | | | | | X | 2 | |
| Hepatocellular Carcinoma | | | | | X | | | | | | | | | | | | | | | | | | | 1 | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Leukemia Mononuclear | | | | | | | | X | | | | | | | | | | | | X | | | | 2 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | + | 3 |
| Leukemia Mononuclear | | | | | | | | | | | | | X | | | | | | | | | | | 1 | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Leukemia Mononuclear | | | | | | | | | | X | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 1 | |

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
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 Species/Strain: RATS/Sprague Dawley (NCTR)

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 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25.0 StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------------------------|
| | 0639 | 0583 | 0553 | 0517 | 0535 | 0663 | 0669 | 0588 | 0725 | 0570 | 0748 | 0772 | 0778 | 0669 | 0773 | 0778 | 0688 | 0779 | 0778 | 0778 | | 0778 |
| ANIMAL ID | 0582 | 0588 | 0588 | 0589 | 0577 | 0777 | 0777 | 0778 | 0778 | 0779 | 0779 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 34 |
| Stomach, Glandular
Leukemia Mononuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 27
1 |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel
Leukemia Granulocytic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48
1 |
| Heart
Leukemia Granulocytic
Leukemia Mononuclear
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48
1
1
1 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex
Adenoma
Leukemia Granulocytic
Leukemia Mononuclear
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48
1
1
1
1 |
| Adrenal Medulla
Leukemia Granulocytic
Pheochromocytoma Benign
Bilateral, Pheochromocytoma Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48
1
5
1 |
| Islets, Pancreatic
Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48
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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

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First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25.0 StDose M | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|---|-----------------|---|
| | | 6 | 5 | 5 | 5 | 5 | 6 | 6 | 5 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 2 | 7 | | | 7 | 4 |
| | | 3 | 8 | 5 | 1 | 3 | 7 | 0 | 8 | 2 | 4 | 0 | 2 | 2 | 3 | 2 | 2 | 8 | 2 | 2 | 8 | 2 | 2 | 9 | | |
| | | 9 | 3 | 3 | 7 | 5 | 3 | 9 | 8 | 5 | 0 | 0 | 8 | 8 | 9 | 5 | 8 | 3 | 8 | 9 | 8 | 8 | 7 | 6 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | |
| | | 8 | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | |
| | | 7 | 8 | 8 | 9 | 9 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 3 | 3 | 4 | 4 | | | |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|-----------|----------|
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Parathyroid Gland | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 46 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 48 | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Leukemia Mononuclear | | | | | | | X | | | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pars Distalis, Adenoma | X | | | | | X | | | X | | X | | X | X | X | X | | | X | X | | | | 19 | |
| Pars Distalis, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | | 44 | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|-----------|
| Coagulating Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | | 44 |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 48 |
| Preputial Gland | | | + | + | + | | | | + | + | | + | | | + | | + | | + | | | | | 17 |
| Adenoma | | | | | | | | | | | | X | | | | | | | | | | | | 1 |
| Carcinoma | | | | X | | | | | | | | | | | | | | | | | | | | 4 |
| Prostate, Dorsal/lateral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 48 |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25.0 StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|
| | 0639 | 0583 | 0553 | 0557 | 0553 | 0663 | 0669 | 0588 | 0778 | 0754 | 0770 | 0772 | 0778 | 0663 | 0779 | 0778 | 0668 | 0772 | 0778 | 0778 | | 0778 | 0496 |
| ANIMAL ID | 0582 | 0588 | 0588 | 0588 | 0588 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0778 | 0778 | 0888 | 0888 | 0666 | 0666 | 0666 | 0666 | 0666 | 0333 | 0334 | 0442 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Leukemia Mononuclear | X | | | | | | | | | | | | | | | | | | | | 1 | | |
| Prostate, Ventral Lobe Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Adenoma, Multiple | | | | | | | | | | | | | | X | | | | | | | | 1 | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | 41 |
| Testes Interstitial Cell, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | 1 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | X | | | | | | | | 2 | | |
| Lymph Node | | | | + | + | + | | | | | + | + | | | | | + | | | | | | + | 15 |
| Axillary, Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Lumbar, Carcinoma, Metastatic, Preputial Gland | | | X | | | | | | | | | | | | | | | | | | | | 1 | |
| Lumbar, Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Lumbar, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Mediastinal, Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Mediastinal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Pancreatic, Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Pancreatic, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Renal, Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Lymph Node, Mandibular | + | | | | + | + | | | | | + | + | | | | | + | | | | | | + | 14 |

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25.0 StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|
| | 0639 | 0583 | 0553 | 0517 | 0535 | 0673 | 0669 | 0588 | 0758 | 0540 | 0700 | 0772 | 0778 | 0663 | 0775 | 0778 | 0663 | 0778 | 0722 | 0728 | | 0778 | 0778 | 0496 |
| ANIMAL ID | 0587 | 0588 | 0588 | 0589 | 0577 | 0577 | 0577 | 0577 | 0577 | 0577 | 0577 | 0578 | 0588 | 0588 | 0596 | 0599 | 0599 | 0599 | 0599 | 0599 | 0599 | 0599 | 0599 | 0599 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Leukemia Mononuclear | | | | | | | X | | | | | | | | | | | | | | | | | 1 |
| Squamous Cell Carcinoma, Metastatic, Skin | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymph Node, Mesenteric | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Leukemia Mononuclear | | | | | | | X | | | | | | | | | | | X | | | | | | 2 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Sarcoma | | | | | | | | | | X | | | | | | | | | | | | | | 1 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | 46 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Leukemia Mononuclear | | | | | | | X | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 1 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Fibroadenoma | | | | | | | | | | | | | | | | | X | | | | | | | 1 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Skin | + | + | | | + | + | | | + | + | + | + | | | | + | + | | | | + | + | | 24 |
| Basal Cell Adenoma | | | | | | | | | | | | | | | | | X | | | | | | | 1 |
| Keratoacanthoma | | | | | | | | | | X | | | | | | | | | | | | | | 1 |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Squamous Cell Papilloma | X | | | | | | | | | X | | | | | | X | | | | | | | | 4 |
| Subcutaneous Tissue, Fibroma | | | | | | | | | | | | | | | | | | | | | 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|
| DAY ON TEST | | 6 | 5 | 5 | 5 | 5 | 6 | 6 | 5 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 4 | |
| SPRAGUE DAWLEY (NCTR) | | 3 | 8 | 5 | 1 | 3 | 7 | 0 | 8 | 2 | 4 | 0 | 2 | 2 | 3 | 2 | 2 | 8 | 2 | 2 | 2 | 2 | 9 | |
| RATS MALE | | 9 | 3 | 3 | 7 | 5 | 3 | 9 | 8 | 5 | 0 | 0 | 8 | 8 | 9 | 5 | 8 | 3 | 8 | 9 | 8 | 7 | 6 | |
| F1 25.0 StDose M | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | | 8 | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | | 7 | 8 | 8 | 8 | 9 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
| Peripheral Nerve, Tibial | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Spinal Cord, Cervical | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Spinal Cord, Lumbar | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Spinal Cord, Thoracic | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 39 | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Nose | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 31 | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Trachea | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | | | | | | + | 27 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| 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: 10034 - 04
 Test Type: CHRONIC
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 Bisphenol A
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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25.0 StDose M | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ANIMAL ID | 6 | 5 | 5 | 5 | 5 | 6 | 6 | 5 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 |
| | 3 | 8 | 5 | 1 | 3 | 7 | 0 | 8 | 2 | 4 | 0 | 2 | 2 | 3 | 2 | 2 | 8 | 2 | 8 | 2 | 2 | 9 |
| | 9 | 3 | 3 | 7 | 5 | 3 | 9 | 8 | 5 | 0 | 0 | 8 | 8 | 9 | 5 | 8 | 3 | 8 | 9 | 8 | 7 | 6 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 8 | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 7 | 8 | 8 | 9 | 9 | 7 | 7 | 8 | 9 | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 4 |
| | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 2 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | 1 |
| Leukemia Mononuclear | | | | | | X | | | | | | | | | | | | | | | | 1 |
| Liposarcoma | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | 1 |
| Urinary Bladder | | | | | | | | | | | | + | | | + | | | | | | | 4 |

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | 1 |
| Leukemia Mononuclear | | | | | | X | | | | | | | | | | | X | | | | | 2 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | 1 |

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

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

Experiment Number: 10034 - 04

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Species/Strain: RATS/Sprague Dawley (NCTR)

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Bisphenol A

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| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 250.0StDose M | DAY ON TEST | 0727 | 0729 | 0574 | 0551 | 0559 | 0558 | 0540 | 0777 | 0778 | 0645 | 0648 | 0642 | 0643 | 0666 | 0669 | 0533 | 0672 | 0553 | 0374 | 0668 | 0779 | 0420 | 0745 | males
(cont...) |
| | ANIMAL ID | 01691 | 01170 | 01171 | 01172 | 01173 | 01174 | 01175 | 01176 | 01177 | 01178 | 01179 | 01180 | 01181 | 01182 | 01183 | 01184 | 01185 | 01186 | 01187 | 01188 | 01189 | 01190 | 01191 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Esophagus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon
Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Jejunum
Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liver
Hepatocellular Adenoma
Hepatocellular Carcinoma
Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery
Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas
Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach
Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular
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: 10034 - 04

Test Type: CHRONIC

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Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

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Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| SPRAGUE DAWLEY (NCTR)
RATS MALE

F1 250.0StDose M | DAY ON TEST | 077 | 075 | 055 | 055 | 055 | 054 | 077 | 077 | 064 | 044 | 066 | 066 | 055 | 066 | 077 | 055 | 033 | 077 | 066 | 077 | 044 | 077 | |
| | ANIMAL ID | 27 | 94 | 11 | 68 | 88 | 07 | 00 | 27 | 22 | 22 | 91 | 33 | 33 | 22 | 11 | 27 | 44 | 44 | 28 | 39 | 29 | 04 | 25 |
| | | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 06 | 06 | 06 | 06 | 06 |
| | | 66 | 67 | 77 | 77 | 77 | 77 | 77 | 77 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 00 | 00 | 02 | 02 | 03 |
| | | 91 | 90 | 01 | 01 | 02 | 02 | 02 | 03 | 03 | 05 | 06 | 06 | 07 | 07 | 08 | 08 | 09 | 09 | 01 | 01 | 02 | 02 | 03 |
| | | 12 | 11 | 12 | 12 | 12 | 12 | 12 | 13 | 13 | 15 | 16 | 16 | 17 | 17 | 18 | 18 | 19 | 19 | 11 | 11 | 12 | 12 | 13 |

males (cont...)

Schwannoma Malignant

X

Tongue

+

CARDIOVASCULAR SYSTEM

Blood Vessel

+ +

Heart

+ +

Lymphoma Malignant

ENDOCRINE SYSTEM

Adrenal Cortex

+ + + A +

Lymphoma Malignant

Adrenal Medulla

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

Pheochromocytoma Benign

Islets, Pancreatic

+ + + A + + M +

Adenoma

Parathyroid Gland

+ +

Pituitary Gland

+ M +

Lymphoma Malignant

Pars Distalis, Adenoma

X X

Thyroid Gland

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

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

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 Bisphenol A
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| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 250.0StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0727 | 0729 | 0574 | 0551 | 0559 | 0558 | 0557 | 0400 | 0722 | 0728 | 0765 | 0448 | 0442 | 0663 | 0662 | 0538 | 0621 | 0774 | 0553 | 0374 | 0668 | 0779 | 0449 | 0744 | | |
| | 0169 | 0162 | 0170 | 0177 | 0177 | 0177 | 0177 | 0177 | 0177 | 0177 | 0338 | 0338 | 0338 | 0338 | 0338 | 0338 | 0338 | 0338 | 0338 | 0338 | 0660 | 0660 | 0660 | 0660 | 0660 | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | X | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | + | + | | | | + | | + | + | | | | + | | | | |
| Axillary, Lymphoma Malignant | | | | | | | | | X | | | | | | | | | | | | | | | | |
| Brachial, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cervical, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inguinal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Lymphoma Malignant | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Mediastinal, Lymphoma Malignant | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Pancreatic, Lymphoma Malignant | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Popliteal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Lymphoma Malignant | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Lymph Node, Mandibular | | | | | | | | | + | + | | | + | | | | | | | | | | | + | |
| Lymphoma Malignant | | | | | | | | | X | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | M | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | X | | | | | | | | | | | | | |

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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 250.0StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
7
2
7 | 0
7
2
9 | 0
5
7
4 | 0
5
1
1 | 0
5
6
9 | 0
5
8
8 | 0
5
0
7 | 0
4
0
0 | 0
7
2
7 | 0
7
2
8 | 0
6
2
5 | 0
4
2
8 | 0
4
1
2 | 0
6
3
2 | 0
6
9
2 | 0
5
3
8 | 0
6
2
1 | 0
7
2
7 | 0
5
4
3 | 0
3
4
4 | 0
7
2
8 | 0
6
3
9 | 0
7
2
9 | 0
4
0
4 | | 0
7
2
5 |
| ANIMAL ID | 0
1
6
9
1 | 0
1
6
9
2 | 0
1
7
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1 | 0
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2 | 0
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5 | 0
3
8
5
1 | 0
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6 | 0
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2
1 | 0
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2 | 0
6
0
2
3 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibroadenoma | | | | | X | | | | | | | | | | | | | | | | | | | | | |
| Fibroma | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Skin | | | + | | | + | | | | | | | + | + | | | | | + | + | | | + | | | |
| Basal Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | X | | | | | | |
| Subcutaneous Tissue, Fibrosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Schwannoma Malignant | | | | | | | | | | | | | X | | | | | | X | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | | | | | | | | | + | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Granular Cell Tumor Malignant | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Granular Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Granular Cell Tumor Malignant | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | X | | | | | | | | | | | | | | | | | |

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 250.0StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
| | 077 | 077 | 075 | 075 | 075 | 075 | 075 | 074 | 077 | 077 | 076 | 074 | 074 | 076 | 076 | 075 | 076 | 077 | 075 | 073 | 077 | 076 | 077 | 074 | |
| ANIMAL ID | 01691 | 01167 | 01170 | 01177 | 01177 | 01177 | 01177 | 01177 | 01177 | 01177 | 01333 | 01333 | 01333 | 01333 | 01333 | 01333 | 01333 | 01333 | 01333 | 01333 | 01666 | 01666 | 01666 | 01666 | 01666 |
| Nerve Trigeminal | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Sciatic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Tibial | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Cervical | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Lumbar | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Thoracic | | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Lung | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Neural Crest Tumor, Malignant, Metastatic, Ear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Ear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Neural Crest Tumor, Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 250.0StDose M | DAY ON TEST | 077 | 075 | 055 | 055 | 055 | 054 | 077 | 077 | 064 | 044 | 066 | 066 | 055 | 066 | 077 | 053 | 072 | 066 | 077 | 044 | 077 |
| | ANIMAL ID | 01691 | 01170 | 00712 | 00711 | 00717 | 00717 | 00717 | 00717 | 00717 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00660 | 00660 | 00662 |

males
(cont...)

Zymbal's Gland
Adenoma

+
X

URINARY SYSTEM

Kidney
Liposarcoma
Lymphoma Malignant

+
X

Urinary Bladder

+ + + +

SYSTEMIC LESIONS

Multiple Organ
Histiocytic Sarcoma
Lymphoma Malignant

+
X

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

M .. Missing tissue
A .. Autolysis precludes evaluation
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Experiment Number: 10034 - 04
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 Bisphenol A
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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 250.0StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
| | 0724 | 0541 | 0558 | 0444 | 0668 | 0449 | 0665 | 0772 | 0058 | 0075 | 0076 | 0064 | 0066 | 0066 | 0048 | 0068 | 0063 | 0072 | 0056 | 0066 | 0058 | 0072 | 0047 | 0065 | | 0069 |
| ANIMAL ID | 06032 | 06041 | 06044 | 06051 | 06052 | 06071 | 06077 | 06077 | 06079 | 06092 | 06093 | 06099 | 06099 | 06099 | 06099 | 06099 | 06099 | 06077 | 06077 | 06077 | 06077 | 06077 | 06088 | 06087 | 06099 | 06099 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 37 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 33 |
| Lymphoma Malignant | | | | | | | | | X | | | | | | | | | | | | | | | | | | 1 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | 31 |
| Intestine Small, Jejunum | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocellular Adenoma | | | | | | | | X | | | | | | | | | | | | | | | | | | | 2 |
| Hepatocellular Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Lymphoma Malignant | | X | | | | | | | | | | | X | | | | | | | | | | | | | | 3 |
| Mesentery | | + | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | X | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Lymphoma Malignant | | X | | | | | | | | | | | X | | | | | | | | | | | | | | 3 |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 37 |
| Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | | | | 1 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 35 |
| 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
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Experiment Number: 10034 - 04

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Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

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First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 250.0StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|---|---|---|---|--|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 7 | 5 | 5 | 4 | 6 | 4 | 6 | 7 | 5 | 7 | 6 | 4 | 6 | 6 | 6 | 4 | 6 | 7 | 5 | 6 | 5 | 7 | 4 | 6 | 5 | 9 | |
| | 2 | 4 | 1 | 4 | 8 | 9 | 5 | 2 | 5 | 2 | 6 | 9 | 1 | 4 | 8 | 6 | 3 | 2 | 6 | 6 | 8 | 2 | 7 | 0 | 9 | | |
| | 4 | 1 | 8 | 4 | 9 | 1 | 8 | 8 | 9 | 5 | 9 | 9 | 0 | 4 | 7 | 9 | 1 | 7 | 7 | 4 | 9 | 7 | 5 | 5 | 1 | | |
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | |
| | 0 | 0 | 0 | 0 | 0 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 7 | | |
| | 3 | 4 | 4 | 4 | 5 | 5 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 8 | 8 | 9 | 9 | | |
| | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | | |
| | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |

Schwannoma Malignant

1

Tongue

1

CARDIOVASCULAR SYSTEM

Blood Vessel + 50

Heart + 50

Lymphoma Malignant X X X 2

ENDOCRINE SYSTEM

Adrenal Cortex + 49

Lymphoma Malignant X 1

Adrenal Medulla + 49

Pheochromocytoma Benign X X 5

Islets, Pancreatic + 48

Adenoma X X 4

Parathyroid Gland + + + + + + + + + + + + + M + + + + + + + + + 49

Pituitary Gland + 49

Lymphoma Malignant X 2

Pars Distalis, Adenoma X X X X X X X X X X 19

Thyroid Gland + + + + + + A + + + A + + + + + + + + + + + A + 45

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
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Experiment Number: 10034 - 04

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Species/Strain: RATS/Sprague Dawley (NCTR)

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Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|--|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | | | |
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 250.0StDose M | ANIMAL ID | 7 | 5 | 5 | 4 | 6 | 4 | 6 | 7 | 5 | 7 | 6 | 4 | 6 | 6 | 6 | 4 | 6 | 7 | 5 | 6 | 5 | 7 | 4 | 6 | 5 | 9 |
| | | 2 | 4 | 1 | 4 | 8 | 9 | 5 | 2 | 5 | 2 | 6 | 9 | 1 | 4 | 8 | 6 | 3 | 2 | 6 | 6 | 8 | 2 | 7 | 0 | 9 | 1 |
| | | 4 | 1 | 8 | 4 | 9 | 1 | 8 | 9 | 5 | 9 | 9 | 9 | 0 | 4 | 7 | 9 | 1 | 7 | 7 | 4 | 9 | 7 | 5 | 5 | 1 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | 0 | 0 | 0 | 0 | 0 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 9 | 9 | |
| | | 3 | 4 | 4 | 4 | 5 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 8 | 8 | 9 | 9 | |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |

GENERAL BODY SYSTEM

| | |
|------------|---|
| Tissue NOS | 1 |
| Sarcoma | 1 |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Coagulating Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant | | X | | | | | | | | | | X | | | | | | | | | | | | | | 3 |
| Fat Pad, Epididymal | + | | | | | | | | | + | | | | | | | | + | | | | + | | | | 4 |
| Preputial Gland | | | | | + | | | | | | + | + | | | | | + | + | | | + | | | | + | 19 |
| Carcinoma | | | | | | | | | | | | X | | | | | | X | X | | X | | | | | 6 |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Prostate, Dorsal/lateral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant | | X | | | | | | | | | | | X | | | | | | | | | | | | | 3 |
| Prostate, Ventral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | X | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | 47 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 250.0StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | 07
24 | 05
41 | 05
18 | 04
44 | 06
89 | 04
11 | 06
88 | 07
75 | 07
52 | 07
65 | 06
99 | 07
25 | 06
69 | 06
48 | 06
66 | 04
31 | 06
72 | 05
67 | 06
64 | 05
89 | 07
27 | 04
55 | 06
09 | | 05
91 |
| ANIMAL ID | 06 | 06 | 06 | 06 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 09 | 09 | 09 | 09 | 09 | 09 | 09 | 09 | 09 | |
| | 00 | 00 | 00 | 00 | 09 | 09 | 09 | 09 | 09 | 09 | 09 | 09 | 09 | 09 | 07 | 07 | 07 | 07 | 07 | 07 | 08 | 08 | 09 | 09 | |
| | 32 | 41 | 42 | 41 | 52 | 11 | 12 | 21 | 22 | 32 | 34 | 42 | 51 | 52 | 51 | 52 | 61 | 62 | 71 | 72 | 81 | 82 | 91 | 92 | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant | | X | | | | | | | | | | X | | | | | | | | | | | | 3 |
| Lymph Node | + | + | | | | | + | + | + | | | | | + | + | | | | + | + | | | 15 | |
| Axillary, Lymphoma Malignant | | X | | | | | | | | | | | | | | | | | | | | | | 2 |
| Brachial, Lymphoma Malignant | | X | | | | | | | | | | | | | | | | | | | | | | 1 |
| Cervical, Lymphoma Malignant | | X | | | | | | | | | | | | | | | | | | | | | | 1 |
| Inguinal, Lymphoma Malignant | | X | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lumbar, Lymphoma Malignant | | X | | | | | | | | | | | | | | | | | | | | | | 2 |
| Mediastinal, Lymphoma Malignant | | X | | | | | | | | | | | | | | | | | | | | | | 2 |
| Pancreatic, Lymphoma Malignant | | X | | | | | | | | | | X | | | | | | | | | | | | 3 |
| Popliteal, Lymphoma Malignant | | X | | | | | | | | | | | | | | | | | | | | | | 1 |
| Renal, Lymphoma Malignant | | X | | | | | | | | | | | | | | | | | | | | | | 2 |
| Lymph Node, Mandibular | | + | | | + | | + | + | | | | + | | | | | | | | | | | | 9 |
| Lymphoma Malignant | | X | | | | | | | | | | X | | | | | | | | | | | | 3 |
| Lymph Node, Mesenteric | | | | | | | | | | | | | | | + | | | | | | | | | 2 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Lymphoma Malignant | | X | | | | | | | | | | X | | | | | | | | | | | | 3 |
| Thymus | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Lymphoma Malignant | | X | | | | | | | | | | X | | | | | | | | | | | | 3 |

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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 250.0StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|
| | 0724 | 0751 | 0758 | 0744 | 0766 | 0744 | 0766 | 0777 | 0755 | 0776 | 0766 | 0744 | 0766 | 0766 | 0744 | 0766 | 0777 | 0755 | 0766 | 0757 | 0744 | 0766 | 0755 | 0766 | | 0759 | 0765 |
| ANIMAL ID | 06032 | 06641 | 06642 | 06645 | 06651 | 06671 | 06677 | 06679 | 06692 | 06693 | 06699 | 06699 | 06699 | 06699 | 06699 | 06699 | 06699 | 06699 | 06699 | 06699 | 06699 | 06699 | 06699 | 06699 | 06699 | 06699 | 06699 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Fibroadenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Fibroma | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Skin | | | | | + | + | | + | | + | | | | | + | | | | | + | | | + | + | | | | 15 |
| Basal Cell Carcinoma | | | | | | | X | | | | | | | | | | | | | | | | | | | | | 1 |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Subcutaneous Tissue, Fibrosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | X | | | 1 |
| Subcutaneous Tissue, Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | X | | | | 1 |
| Subcutaneous Tissue, Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone | | | | | + | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Skeletal Muscle | | | | | | | | | | | + | | | | | | | | | | | | | | | | | 2 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Granular Cell Tumor Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Granular Cell Tumor Benign | | | | | | | | | | | X | | | | | | | | | | | | | | | | | 1 |
| Granular Cell Tumor Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 250.0StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|------|----|
| | 0724 | 0541 | 0558 | 0444 | 0689 | 0491 | 0658 | 0728 | 0559 | 0725 | 0622 | 0664 | 0686 | 0499 | 0631 | 0727 | 0567 | 0664 | 0589 | 0727 | | 0475 | 0605 | 0591 | |
| ANIMAL ID | 06032 | 06041 | 06042 | 06051 | 06052 | 06071 | 06072 | 06077 | 06079 | 06092 | 06093 | 06099 | 06099 | 06099 | 06099 | 06099 | 06099 | 06099 | 06099 | 06099 | 06099 | 06099 | 06099 | | |
| Nerve Trigeminal | | + | | | + | | | | + | | | | | + | | | | | | | | | | 6 | |
| Peripheral Nerve, Sciatic | | + | | | + | | | | + | | | | | + | | | | | | | | | | 6 | |
| Peripheral Nerve, Tibial | | + | | | + | | | | + | | | | | + | | | | | | | | | | 6 | |
| Spinal Cord, Cervical | | + | | | + | | | | + | | | | | + | | | | | | | | | | 6 | |
| Spinal Cord, Lumbar | | + | | | + | | | | + | | | | | + | | | | | | | | | | 6 | |
| Spinal Cord, Thoracic | | + | | | + | | | | + | | | | | + | | | | | | | | | | 6 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | | + | + | + | + | + | + | + | + | | | | | + | + | + | + | + | + | | | + | + | + | 40 |
| Lymphoma Malignant | | X | | | | | | | | | | | | X | | | | | | | | | | 3 | |
| Neural Crest Tumor, Malignant, Metastatic, Ear | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Nose | | + | + | + | + | + | | + | | | | | + | + | + | + | + | + | | | + | + | + | 37 | |
| Lymphoma Malignant | | X | | | | | | | | | | | | X | | | | | | | | | | 3 | |
| Trachea | | + | + | + | + | + | A | | + | | | A | + | + | + | + | + | + | | | + | + | + | 32 | |
| Lymphoma Malignant | | X | | | | | | | | | | | X | | | | | | | | | | | 2 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ear | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Neural Crest Tumor, Malignant | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Eye | | | | | | | | | | | | | | | | | | | | | | | | 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 250.0StDose M | DAY ON TEST | 7 | 5 | 5 | 4 | 6 | 4 | 6 | 7 | 5 | 7 | 6 | 4 | 6 | 6 | 6 | 4 | 6 | 7 | 5 | 6 | 5 | 7 | 4 | 6 | 5 | 9 | 1 | |
| | ANIMAL ID | 2 | 4 | 1 | 4 | 8 | 9 | 5 | 2 | 5 | 2 | 6 | 9 | 1 | 4 | 8 | 6 | 3 | 2 | 6 | 6 | 8 | 2 | 7 | 5 | 0 | 6 | 9 | |
| | | 4 | 1 | 8 | 4 | 9 | 1 | 8 | 8 | 9 | 5 | 9 | 9 | 0 | 4 | 7 | 9 | 1 | 7 | 7 | 4 | 9 | 7 | 5 | 5 | 1 | 9 | 1 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | 0 | 0 | 0 | 0 | 0 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 |
| | | 3 | 4 | 4 | 5 | 5 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Zymbal's Gland
Adenoma

1
1

URINARY SYSTEM

Kidney
Liposarcoma
Lymphoma Malignant

+
 X X 3

Urinary Bladder

4

SYSTEMIC LESIONS

Multiple Organ
Histiocytic Sarcoma
Lymphoma Malignant

+ X + + + + + + + +
 X X 3

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

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

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2500.StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
| | 0727 | 0678 | 0728 | 0556 | 0777 | 0661 | 0449 | 0746 | 0559 | 0466 | 0788 | 0779 | 0770 | 0562 | 0632 | 0727 | 0577 | 0664 | 0559 | 0431 | 0769 | 0675 | 0775 | 0558 | 0754 | |
| ANIMAL ID | 01851 | 01882 | 01861 | 01822 | 01871 | 01812 | 01888 | 01888 | 01888 | 01899 | 01911 | 01912 | 01944 | 01944 | 01944 | 01944 | 01944 | 01944 | 01944 | 01944 | 01966 | 01966 | 01966 | 01966 | 01966 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum
Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon
Lymphoma Malignant | + | + | + | + | + | + | A | + | | | | | | | + | A | + | + | + | + | + | + | + | A | + |
| Intestine Small, Ileum
Lymphoma Malignant | A | + | + | + | + | + | A | + | | | | | | | + | A | + | A | + | + | + | + | A | A | + |
| Liver
Hepatocellular Adenoma
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa
Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas
Lymphoma Malignant
Acinar Cell, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular | + | + | + | + | + | + | A | + | | | | | | | + | + | + | + | + | + | + | + | + | + | + |

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

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

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------------------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2500.StDose M | DAY ON TEST | 07 | 06 | 07 | 05 | 07 | 07 | 06 | 04 | 07 | 04 | 05 | 07 | 07 | 07 | 05 | 06 | 04 | 05 | 04 | 07 | 06 | 07 | 05 | 05 | 05 | 05 | | |
| | ANIMAL ID | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | |
| | | 7 | 8 | 8 | 6 | 7 | 7 | 1 | 9 | 6 | 6 | 8 | 9 | 0 | 7 | 7 | 2 | 4 | 5 | 3 | 0 | 4 | 5 | 0 | 1 | 8 | 9 | 4 | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Adenoma | | | | X | X | X | | | | | | X | | X | X | X | | | | | | | | | | | | | X | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2500.StDose M | DAY ON TEST | 077 | 067 | 077 | 057 | 077 | 067 | 047 | 077 | 047 | 057 | 077 | 077 | 077 | 057 | 067 | 047 | 057 | 047 | 077 | 067 | 077 | 057 | 057 | 057 | males
(cont...) |
| | ANIMAL ID | 0851 | 0852 | 0861 | 0862 | 0871 | 0872 | 0881 | 0882 | 0888 | 0889 | 0891 | 0892 | 0897 | 0898 | 0899 | 0901 | 0902 | 0903 | 0904 | 0905 | 0906 | 0907 | 0908 | 0909 | |

C-cell, Adenoma
C-cell, Carcinoma
Follicular Cell, Adenoma

X

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coagulating Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Preputial Gland | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Bilateral, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Prostate, Dorsal/lateral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Prostate, Ventral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinosarcoma | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | | |
|--|-----------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------------------|----|----|----|----|----|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2500.StDose M | ANIMAL ID | 07 | 06 | 07 | 05 | 07 | 07 | 06 | 04 | 07 | 04 | 05 | 07 | 07 | 07 | 05 | 06 | 04 | 05 | 04 | 07 | | 06 | 07 | 07 | 05 | 05 |
| | | 7 | 8 | 8 | 6 | 7 | 7 | 1 | 9 | 6 | 6 | 8 | 9 | 0 | 7 | 7 | 2 | 4 | 5 | 3 | 0 | | 4 | 2 | 0 | 1 | 8 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | |
| | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | | |
| | | 5 | 5 | 6 | 6 | 7 | 8 | 8 | 9 | 9 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 5 | 5 | 7 | 7 | 8 | 8 | | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Seminoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Interstitial Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | X |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Lymph Node | + | | | + | | + | + | | + | | | | + | | | | | | | | + | + | + | | + |
| Axillary, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Brachial, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Cervical, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Inguinal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Lumbar, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Mediastinal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Pancreatic, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Popliteal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Renal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Lymph Node, Mandibular | | | | | + | | | + | | | | | + | + | | | | | | | + | + | | | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Lymph Node, Mesenteric | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X |

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
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 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
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 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2500.StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|--------------------|
| | 0727 | 0678 | 0728 | 0556 | 0727 | 0777 | 0661 | 0449 | 0776 | 0446 | 0558 | 0779 | 0730 | 0727 | 0556 | 0632 | 0454 | 0559 | 0433 | 0701 | 0649 | 0725 | 0755 | 0508 | 0519 | | |
| | 01851 | 01851 | 01851 | 01851 | 01851 | 01851 | 01851 | 01851 | 01851 | 01851 | 01851 | 01851 | 01851 | 01851 | 01851 | 01851 | 01851 | 01851 | 01851 | 01851 | 01851 | 01851 | 01851 | 01851 | 01851 | 01851 | |

Thymus
Lymphoma Malignant

+ M + + + + + + + + + + + + + + + X + + + + + + + +

INTEGUMENTARY SYSTEM

Mammary Gland
Adenoma
Fibroadenoma
Lymphoma Malignant

+ + + + + + + + + + + + + + + M + + + X + + + +

Skin
Basal Cell Adenoma
Squamous Cell Carcinoma
Squamous Cell Papilloma
Subcutaneous Tissue, Fibroma
Subcutaneous Tissue, Lipoma
Subcutaneous Tissue, Sarcoma

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

MUSCULOSKELETAL SYSTEM

Bone
Cranium, Lymphoma Malignant

+ X

Bone, Femur

+ +

Skeletal Muscle

+

NERVOUS SYSTEM

Brain, Brain Stem

+ +

* .. Total animals with tissue examined microscopically; 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: 10034 - 04
 Test Type: CHRONIC
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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2500.StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0727 | 0678 | 0728 | 0556 | 0777 | 0777 | 0664 | 0479 | 0059 | 0046 | 0045 | 0077 | 0077 | 0077 | 0056 | 0063 | 0045 | 0043 | 0070 | 0064 | 0077 | 0077 | 0055 | 0059 | | |
| | 01851 | 0118 | 0116 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0666 | 0666 | 0666 | 0666 | 0666 | 0666 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Cerebellum
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Cerebrum
Lymphoma Malignant
Meningioma Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Nerve Trigeminal | | | | | | | | | | | | | | | | | | | | | | | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Sciatic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Tibial | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Cervical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Lumbar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Thoracic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|--|---|---|---|---|---|--|---|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung
Lymphoma Malignant | + | + | | + | + | + | + | + | | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Nose
Lymphoma Malignant
Squamous Cell Carcinoma | | + | | + | | + | + | + | | + | + | | | | + | + | + | + | + | + | | | + | + | + | + | + |

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2500.StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | | |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------------|----------------|----------------|----------------|----------------|----------------|
| | 07
27 | 06
78 | 07
28 | 05
56 | 07
27 | 07
77 | 06
61 | 04
49 | 07
79 | 04
66 | 05
58 | 07
79 | 07
70 | 03
32 | 07
72 | 05
56 | 06
63 | 04
45 | 05
53 | 04
40 | | 07
71 | 06
64 | 07
75 | 05
58 | 05
58 |
| ANIMAL ID | 01
85
11 | 01
88
61 | 01
18
61 | 01
18
72 | 01
18
71 | 01
18
28 | 01
18
81 | 01
18
28 | 01
18
91 | 01
18
92 | 04
40
12 | 04
40
21 | 04
40
22 | 04
40
31 | 04
40
32 | 04
40
41 | 04
40
42 | 04
40
51 | 04
40
52 | 04
40
61 | 06
66
71 | 06
66
72 | 06
66
81 | 06
66
82 | 06
66
91 | 06
66
92 |

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

SPECIAL SENSES SYSTEM

Eye

URINARY SYSTEM

Kidney +
 Lipoma X
 Lymphoma Malignant X
 Urinary Bladder + +

SYSTEMIC LESIONS

Multiple Organ +
 Histiocytic Sarcoma
 Lymphoma Malignant X

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

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

Experiment Number: 10034 - 04

Test Type: CHRONIC

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Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

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First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2500.StDose M | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ANIMAL ID | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 4 | 7 | 6 | 1 | 5 | 7 | 6 | 4 | 5 | 6 | 6 | 2 | 7 | 7 |
| | | 0 | 2 | 2 | 2 | 2 | 0 | 1 | 0 | 2 | 8 | 0 | 5 | 4 | 5 | 0 | 0 | 2 | 8 | 3 | 9 | 2 | 2 | 2 |
| | | 8 | 5 | 5 | 8 | 9 | 7 | 6 | 7 | 4 | 3 | 9 | 3 | 6 | 2 | 8 | 3 | 7 | 9 | 2 | 3 | 8 | 8 | 8 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | 1 | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | 9 | 0 | 0 | 1 | 1 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 | 3 |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------|
| Esophagus | + | + | + | | | + | + | + | | + | + | + | + | + | + | + | + | + | + | | | | | + | 35 | |
| Intestine Large, Cecum | | | | | | | | | | | | | | | | | | | | | | | | | + | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Intestine Large, Colon | + | A | + | | | + | + | + | | + | + | + | A | + | + | + | + | A | + | + | | | | + | 29 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X | 2 |
| Intestine Small, Ileum | + | A | + | | | + | + | + | | + | + | + | A | + | + | + | + | A | + | + | | | | + | 26 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X | 2 |
| Mesentery | | | | | | | | | | + | | | | | | | | | | | | | | | 1 | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X | 2 |
| Acinar Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Stomach, Forestomach | + | + | + | | | + | + | + | | + | + | + | A | + | + | + | + | + | + | + | | | | + | 34 | |
| Stomach, Glandular | + | + | + | | | + | + | + | | + | + | + | A | + | + | + | + | + | + | + | | | | + | 33 | |

* .. Total animals with tissue examined microscopically; 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|---|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2500.StDose M | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 |
| | | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 4 | 7 | 6 | 1 | 5 | 7 | 6 | 4 | 5 | 6 | 6 | | 7 | 7 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 8 | 5 | 5 | 8 | 9 | 7 | 6 | 7 | 4 | 3 | 9 | 3 | 6 | 2 | 8 | 3 | 7 | 9 | 2 | 3 | 8 | 8 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | | 1 | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | | 9 | 0 | 0 | 1 | 1 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 | |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 1 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Pars Distalis, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | 19 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 48 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 2 |

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2500.StDose M | | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|--|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 4 | 7 | 6 | 1 | 5 | 7 | 6 | 4 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 6 | | |
| | 0 | 2 | 2 | 2 | 2 | 0 | 1 | 0 | 2 | 8 | 0 | 5 | 4 | 5 | 0 | 0 | 2 | 8 | 3 | 9 | 2 | 2 | 2 | 2 | 6 | | |
| | 8 | 5 | 5 | 8 | 9 | 7 | 6 | 7 | 4 | 3 | 9 | 3 | 6 | 2 | 8 | 3 | 7 | 9 | 2 | 3 | 8 | 8 | 7 | 8 | 5 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | |
| | 1 | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | |
| | 9 | 0 | 0 | 1 | 1 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 9 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | | |
| | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | | |

C-cell, Adenoma
 C-cell, Carcinoma
 Follicular Cell, Adenoma

X

 X
 1
 1
 1

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|
| Coagulating Gland | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | 2 |
| Preputial Gland | + | + | + | | + | + | | | | | | | | | | | | | + | + | | | + | + | | | | 15 | |
| Carcinoma | | | | X | | | | | | | | | | | | | | | X | | | | X | | | | | 4 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Bilateral, Carcinoma | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Prostate, Dorsal/lateral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | 2 |
| Prostate, Ventral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Adenoma, Multiple | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Carcinosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2500.StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 078 | 075 | 065 | 072 | 079 | 077 | 067 | 076 | 074 | 073 | 043 | 076 | 061 | 055 | 077 | 066 | 044 | 055 | 066 | 066 | 072 | 077 | 077 | 066 | |
| ANIMAL ID | 06192 | 06200 | 06001 | 06112 | 06111 | 06051 | 06052 | 06061 | 06062 | 06071 | 06072 | 06081 | 06082 | 06083 | 06084 | 06085 | 06086 | 06087 | 06088 | 06089 | 06091 | 06092 | 06093 | 06094 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Seminoma Malignant | | | | | | X | | | | | | | | | | | | | | | | | | | 1 |
| Interstitial Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 49 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | 2 |
| Lymph Node | + | + | + | | + | + | | + | + | | + | + | | | | | | | | | | | | | 27 |
| Axillary, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | 2 |
| Brachial, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Cervical, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | 2 |
| Inguinal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lumbar, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | 2 |
| Mediastinal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | 2 |
| Pancreatic, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | 2 |
| Popliteal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Renal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Lymph Node, Mandibular | | | | | + | | | | | | | | | | | | | | | | | | | | 13 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | 2 |
| Lymph Node, Mesenteric | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | 2 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 49 | |
| Histiocytic Sarcoma | | | | | | | | | | | | | X | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | 2 |

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2500.StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 078 | 075 | 065 | 072 | 078 | 079 | 077 | 066 | 077 | 077 | 044 | 076 | 016 | 055 | 077 | 066 | 044 | 055 | 066 | 066 | 072 | 077 | 077 | 066 | |
| ANIMAL ID | 06192 | 06202 | 06001 | 06011 | 06051 | 06081 | 06082 | 06088 | 06088 | 06088 | 06088 | 06088 | 06088 | 06088 | 06088 | 06088 | 06088 | 06088 | 06088 | 06088 | 06088 | 06088 | 06088 | 06088 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 48
2 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Fibroadenoma | | | | | | | | | | | X | | | | | X | | | | | | | | | 3 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | X | | 1 |
| Skin | + | + | | | | + | | | | | | + | + | | + | + | + | | | | | + | | | 17 |
| Basal Cell Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Squamous Cell Papilloma | | | | | | | | | | X | | | | | | | | | | | | | | | 4 |
| Subcutaneous Tissue, Fibroma | X | | | | | | | | | | | | | | | | | | | | | | X | | 3 |
| Subcutaneous Tissue, Lipoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Subcutaneous Tissue, Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | | | | | | | | | | | | | | | | | | | | | | | | + | 2 |
| Cranium, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | + | 2 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2500.StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|------|--|
| | 0708 | 0725 | 0625 | 0728 | 0779 | 0777 | 0676 | 0777 | 0777 | 0443 | 0779 | 0663 | 0154 | 0578 | 0663 | 0447 | 0589 | 0662 | 0663 | 0728 | | 0778 | 0777 | 0777 | 0666 | 0665 | |
| ANIMAL ID | 06192 | 06220 | 06221 | 06222 | 06223 | 08805 | 08806 | 08807 | 08808 | 08809 | 08810 | 08811 | 08812 | 08813 | 08814 | 08815 | 08816 | 08817 | 08818 | 08819 | 08820 | 08821 | 08822 | 08823 | 08824 | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | 2 | | |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | 2 | | |
| Meningioma Benign | | | | | | | | | | | | | | | | | | | | | | | | X | 1 | | |
| Nerve Trigeminal | + | | | | | | | | | + | | | | | | | | | | | | | | | 8 | | |
| Peripheral Nerve, Sciatic | + | | | | | | | | | + | | | | | | | | | | | | | | | 8 | | |
| Peripheral Nerve, Tibial | + | | | | | | | | | + | | | | | | | | | | | | | | | 8 | | |
| Spinal Cord, Cervical | + | | | | | | | | | + | | | | | | | | | | | | | | | 8 | | |
| Spinal Cord, Lumbar | + | | | | | | | | | + | | | | | | | | | | | | | | | 8 | | |
| Spinal Cord, Thoracic | + | | | | | | | | | + | | | | | | | | | | | | | | | 8 | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | | | | + | + | + | | | + | + | + | A | + | + | + | + | + | + | + | + | + | 41 | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | 2 | | |
| Nose | + | + | + | | | | + | + | + | | | + | + | + | A | + | + | + | + | + | + | + | + | + | 34 | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | 2 | | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |

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

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

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2500.StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|--|------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|-----------------------|-----------------------|-----------------------|-----------------------|----|
| | 0
7
0
8 | 0
7
0
5 | 0
6
2
5 | 0
7
2
8 | 0
7
2
9 | 0
7
0
7 | 0
6
1
6 | 0
7
0
7 | 0
7
2
4 | 0
4
8
3 | 0
7
0
9 | 0
6
5
3 | 0
1
4
6 | 0
5
5
2 | 0
7
0
8 | 0
6
4
3 | 0
4
2
7 | 0
5
8
9 | 0
6
3
2 | 0
6
9
3 | 0
7
2
8 | 0
7
2
8 | | 0
7
2
7 | 0
7
2
8 | 0
6
2
5 | | |
| | ANIMAL ID | 0
6
1
9
2 | 0
6
2
0
1 | 0
6
2
0
2 | 0
6
2
1
1 | 0
6
2
1
2 | 0
8
0
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2 | 0
8
0
8
1 | 0
8
0
8
2 | 0
8
0
9
1 | 0
8
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9
2 | 0
8
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1 | 0
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2 | 0
8
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1 | 0
9
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9
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2 | 0
9
0
3
1 | 0
9
0
3
2 | |
| Trachea | + | + | + | | | + | + | + | | | | + | + | + | A | + | + | + | + | + | + | | | + | | 33 | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | | | | | | | | | | | | | | | | | | | | | | | | A | | + | 1 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| Lipoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X | | | 2 |
| Urinary Bladder | | + | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | X | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X | | | 2 |

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|--|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SPRAGUE DAWLEY (NCTR)
RATS MALE | | 5 | 6 | 6 | 5 | 6 | 7 | 6 | 7 | 5 | 6 | 7 | 5 | 4 | 7 | 7 | 6 | 7 | 7 | 7 | 4 | 5 | 1 | 7 | 5 | 5 | 1 | 7 | 5 |
| F1 25000StDose M | | 3 | 6 | 4 | 7 | 7 | 2 | 1 | 0 | 8 | 5 | 2 | 0 | 9 | 2 | 2 | 2 | 0 | 2 | 1 | 8 | 5 | 2 | 2 | 2 | 8 | 8 | 8 | 0 |
| ANIMAL ID | | 5 | 6 | 2 | 4 | 2 | 6 | 8 | 7 | 1 | 0 | 6 | 8 | 3 | 7 | 9 | 6 | 5 | 1 | 7 | 9 | 8 | 9 | 2 | 8 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 1 | 1 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| | | males (cont...) | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | | | + | + | + | + | + | + | + | | | + | + | | | + | + | + | + | + | | | |
| Intestine Large, Colon
Lymphoma Malignant | + | + | A | + | + | | | + | + | + | + | A | + | A | | | + | + | | | + | + | + | + | + | | | |
| Intestine Small, Duodenum
Adenoma | | | | | | | | + | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum
Lymphoma Malignant | + | + | A | + | + | | | + | + | + | + | A | + | A | | | + | + | | | A | + | + | + | + | | | |
| Intestine Small, Jejunum | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liver
Hepatocellular Carcinoma
Leukemia Granulocytic
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas
Leukemia Granulocytic
Lymphoma Malignant
Acinar Cell, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | | | + | + | + | + | + | + | + | | | + | + | | | + | + | + | + | + | | | |
| Stomach, Glandular | + | + | + | + | + | | | + | + | + | + | + | + | A | | | + | + | | | + | + | + | + | + | | | |

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

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25000StDose M | DAY ON TEST | 0535 | 0666 | 0664 | 0577 | 0672 | 0661 | 0770 | 0588 | 0650 | 0766 | 0492 | 0772 | 0626 | 0775 | 0770 | 0771 | 0779 | 0488 | 0559 | 0122 | 0728 | 0580 | males
(cont...) |
| | ANIMAL ID | 0201 | 0201 | 0202 | 0203 | 0203 | 0204 | 0204 | 0205 | 0205 | 0206 | 0206 | 0207 | 0207 | 0208 | 0208 | 0209 | 0209 | 0210 | 0210 | 0211 | 0211 | 0212 | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | |
| Atrium, Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Granulocytic | | | | | | | | | | | | | X | | | | | | | | | | |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | M | + | + | + | + |
| Pheochromocytoma Benign | | | | | | X | | X | | | | | | | | | | | | | | X | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | | | | X | | | | | | | | | | X |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | M | + | + | M | + | + | + | + | + | + | + | + | M | + |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |
| Craniopharyngioma | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Adenoma | X | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | | X | X | X | X | X | X | X | | | | X | X | X | | | | | X | | | | X |
| Thyroid Gland | + | + | A | + | + | + | + | + | + | + | A | + | M | + | + | + | + | + | + | + | + | + | + |

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

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

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|-------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
| | | 0535 | 0666 | 0664 | 0577 | 0672 | 0761 | 0760 | 0585 | 0650 | 0768 | 0751 | 0492 | 0722 | 0622 | 0770 | 0771 | 0771 | 0488 | 0555 | 0122 | 0722 | 0588 | 0750 | | | |
| F1 25000StDose M | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
| 02011 | 02012 | 02021 | 02022 | 02031 | 02032 | 02041 | 02042 | 02051 | 02052 | 02061 | 02062 | 02071 | 02072 | 02081 | 02082 | 02091 | 02092 | 02101 | 02102 | 02111 | 02112 | 02121 | 02122 | 02131 | 02132 | 02141 | |

Lymphoma Malignant
C-cell, Adenoma

X

GENERAL BODY SYSTEM

Tissue NOS
Sarcoma

GENITAL SYSTEM

Coagulating Gland

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

Epididymis
Lymphoma Malignant

+ +

Preputial Gland
Adenoma
Carcinoma
Carcinosarcoma
Squamous Cell Carcinoma
Bilateral, Carcinoma

+
+ + X
+ + X X
X

Prostate, Dorsal/lateral Lobe
Leukemia Granulocytic
Lymphoma Malignant

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

Prostate, Ventral Lobe
Adenoma
Adenoma, Multiple
Lymphoma Malignant

+ + + + + + + + + + + + A + + + + + + + + + + +
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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|--|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25000StDose M | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 5 | 6 | 6 | 5 | 6 | 7 | 6 | 7 | 5 | 6 | 7 | 5 | 4 | 7 | 7 | 6 | 7 | 7 | 7 | 4 | 5 | 1 | 7 | 5 | |
| | | 3 | 6 | 4 | 7 | 7 | 2 | 1 | 0 | 8 | 5 | 2 | 0 | 9 | 2 | 2 | 2 | 2 | 0 | 2 | 1 | 8 | 5 | 2 | 2 | 8 |
| | | 5 | 6 | 2 | 4 | 2 | 6 | 8 | 7 | 1 | 0 | 6 | 8 | 3 | 7 | 9 | 6 | 5 | 1 | 7 | 9 | 8 | 9 | 2 | 8 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 1 | 1 | 3 | 3 | 4 | 4 | 5 | 5 |
| | | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Seminal Vesicle | + | + | A | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Interstitial Cell, Adenoma | | | | | | | | | | | | | | | | | | | X | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Granulocytic | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Lymphoma Malignant | X | X | | | | | | | | | | | | | | | | | | | | | | | |
| Osteosarcoma, Metastatic, Bone, Femur | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | + | + | | | + | + | | | + | + | | | | | | | + | | | + | + | | | + | |
| Axillary, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brachial, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cervical, Leukemia Granulocytic | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Inguinal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Leukemia Granulocytic | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Lumbar, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Leukemia Granulocytic | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Mediastinal, Lymphoma Malignant | | | | | | | | | | | | | | X | | | | | | | | | | | |
| Pancreatic, Leukemia Granulocytic | | | | | | | | | | | | | | X | | | | | | | | | | | |
| Pancreatic, Lymphoma Malignant | X | X | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Leukemia Granulocytic | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Renal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | | + | + | | | | | | | | + | + | | | | | | | | + | | | | + | |
| Leukemia Granulocytic | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | | | |

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

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

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First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | | | | |
|------------------------------------|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|------|------|------|------|------|------|------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE | | 0535 | 0666 | 0664 | 0577 | 0672 | 0671 | 0760 | 0758 | 0800 | 0885 | 0720 | 0748 | 0772 | 0662 | 0775 | 0771 | 0777 | 0448 | 0555 | 0112 | 0772 | 0558 | 0119 | 0778 | | 0559 | 0112 | 0778 | 0558 | | | |
| F1 25000StDose M | | 0200 | 0201 | 0202 | 0203 | 0204 | 0205 | 0206 | 0207 | 0208 | 0209 | 0210 | 0211 | 0212 | 0213 | 0214 | 0215 | 0216 | 0217 | 0218 | 0219 | 0220 | 0221 | 0222 | 0223 | | 0224 | 0225 | 0226 | 0227 | 0228 | 0229 | 0230 |
| ANIMAL ID | | 11 | 12 | 21 | 22 | 31 | 32 | 41 | 42 | 51 | 52 | 71 | 72 | 81 | 82 | 91 | 92 | 01 | 02 | 11 | 12 | 21 | 22 | 31 | 32 | 41 | 42 | 51 | 52 | 61 | 62 | 71 | 72 |

Lymph Node, Mesenteric
Lymphoma Malignant

+
X

Spleen
Leukemia Granulocytic
Lymphoma Malignant

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

Thymus
Leukemia Granulocytic
Lymphoma Malignant

+ + + + + + + + + + + M + + + + + + + + + + + +
X

INTEGUMENTARY SYSTEM

Mammary Gland
Fibroadenoma
Fibroma
Lymphoma Malignant

+ +

Skin
Fibroma
Squamous Cell Papilloma
Subcutaneous Tissue, Lipoma
Subcutaneous Tissue, Sarcoma

+
+
+
X X
X

MUSCULOSKELETAL SYSTEM

Bone
Bone, Femur
Osteosarcoma

+
+
+ +

* .. Total animals with tissue examined microscopically; 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: 10034 - 04

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| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25000StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|-----------|--------------------|
| | 0535 | 0663 | 0664 | 0577 | 0662 | 0727 | 0668 | 0767 | 0558 | 0665 | 0700 | 0708 | 0492 | 0549 | 0772 | 0662 | 0772 | 0777 | 0777 | 0488 | 0559 | 0122 | 0728 | 0580 | | | |
| | 0201 | 0201 | 0202 | 0203 | 0202 | 0203 | 0204 | 0204 | 0205 | 0205 | 0401 | 0401 | 0401 | 0401 | 0401 | 0401 | 0404 | 0404 | 0404 | 0603 | 0603 | 0603 | 0603 | 0603 | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Lung | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Granulocytic | + + + + + + + + + + + X | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Osteosarcoma, Metastatic, Bone, Femur | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma | + + + + + + + + + + X | | | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma, Metastatic, Tissue Nos | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenoma | + + + + + + + + + + X | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Granulocytic | + + + + + + + + + + X | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma, Metastatic, Brain, Cerebrum | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + + A + + + + + + + + + + A + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Eye | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | + | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Kidney | + + + + + + + + + + + + A + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Granulocytic | + + + + + + + + + + + X | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | X X | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | | | | | | | | | | | | | | | | | | | | | | | | |

SYSTEMIC LESIONS

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

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

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25000StDose M | DAY ON TEST | 0535 | 0666 | 0664 | 0577 | 0672 | 0676 | 0777 | 0567 | 0665 | 0772 | 0458 | 0772 | 0666 | 0772 | 0777 | 0777 | 0474 | 0555 | 0117 | 0775 | 0558 |
| | ANIMAL ID | 0201 | 0202 | 0203 | 0204 | 0205 | 0206 | 0207 | 0208 | 0209 | 0210 | 0211 | 0212 | 0213 | 0214 | 0215 | 0216 | 0217 | 0218 | 0219 | 0220 | 0221 |

males (cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Granulocytic | | | | | | | | | X | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | X | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesothelioma 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPRAGUE DAWLEY (NCTR)
RATS MALE | | 7 | 4 | 4 | 5 | 7 | 6 | 7 | 3 | 2 | 5 | 6 | 5 | 6 | 5 | 4 | 6 | 5 | 7 | 4 | 2 | 4 |
| | | 2 | 7 | 9 | 4 | 1 | 8 | 2 | 5 | 5 | 4 | 4 | 3 | 0 | 9 | 4 | 1 | 3 | 2 | 6 | 9 | 8 |
| | | 8 | 5 | 3 | 5 | 5 | 5 | 8 | 9 | 4 | 0 | 0 | 8 | 1 | 4 | 6 | 5 | 1 | 7 | 6 | 5 | 1 |
| F1 25000StDose M | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 3 | 3 | 3 | 3 | 3 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 5 | 6 | 6 | 7 | 7 | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 5 |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Esophagus | | | | | | | | | | | | | | | | | | | | | | |
| | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | | | + | A | + | |
| | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon | | | | | | | | | | | | | | | | | | | | | | |
| | | + | + | + | + | + | | + | + | + | A | + | + | + | + | + | | | A | A | + | |
| Lymphoma Malignant | | | | | | | | | | | X | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum | | | | | | | | | | | | | | | | | | | | | | |
| | | + | + | + | + | + | | + | + | + | A | + | + | + | + | + | | | A | A | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Jejunum | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| Liver | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hepatocellular Carcinoma | | X | | | | | | | | | | | | | | | | | | | | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | |
| Acinar Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| 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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
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P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25000StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
7
2
8 | 0
4
7
5 | 0
4
9
3 | 0
5
4
5 | 0
7
1
5 | 0
6
8
5 | 0
7
2
8 | 0
3
5
9 | 0
2
5
4 | 0
5
6
0 | 0
6
4
8 | 0
5
3
1 | 0
6
4
6 | 0
4
9
5 | 0
6
1
3 | 0
5
2
7 | 0
7
4
6 | 0
4
2
6 | 0
2
9
5 | 0
4
8
1 | |
| ANIMAL ID | 0
6
3
5
2 | 0
6
3
6
1 | 0
6
3
6
2 | 0
6
3
7
1 | 0
6
3
7
2 | 0
8
8
9
1 | 0
8
1
9
2 | 0
8
2
9
0 | 0
8
2
0
2 | 0
8
2
0
1 | 0
8
2
1
2 | 0
8
2
1
2 | 0
8
2
2
2 | 0
8
2
2
3 | 0
8
2
3
1 | 1
0
0
3
2 | 1
0
0
3
1 | 1
0
0
4
2 | 1
0
0
4
4 | 1
0
0
5
1 | 1
0
0
5
2 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | X | | | | X | | | | | | | | | | | | | | 3 |
| Atrium, Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | 1 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | 44 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | X | | | | X | | | | | | | | | | | | | | 3 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44 |
| Pheochromocytoma Benign | | | | | | | X | | | | | | | | | | | | | | | 4 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | 44 |
| Adenoma | | | | | | | | | | | X | | | | | | | X | | | | 4 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 43 |
| Pituitary Gland | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | A | + | 43 |
| Craniopharyngioma | | | | | | | | | | | | | | | | | | | | | | 1 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | X | | | | | | | | | | | | | 2 |
| Pars Distalis, Adenoma | | | | X | X | X | | | | | | | | | | | X | X | | | | 17 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | 42 |

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

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

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

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First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25000StDose M | DAY ON TEST | 078 | 0475 | 0493 | 0545 | 0715 | 0675 | 0328 | 0025 | 0064 | 0054 | 0063 | 0060 | 0059 | 0046 | 0065 | 0073 | 0046 | 0026 | 0048 | 0024 | 0048 | |
| | ANIMAL ID | 06352 | 06362 | 06372 | 06382 | 06392 | 06402 | 06412 | 06422 | 06432 | 06442 | 06452 | 06462 | 06472 | 06482 | 06492 | 06502 | 06512 | 06522 | 06532 | 06542 | 06552 | 06562 |
| | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|--|--|--|--|--|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Lymphoma Malignant | | | | | | X | | | | | | | | | | | | | | | | | 1 |
| C-cell, Adenoma | | | | | | | X | X | | | | | | | | | | | | | | | 3 |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | + | 1 |
| Sarcoma | | | | | | | | | | | | | | | | | | | | | | | X | 1 |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Coagulating Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | 44 |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Lymphoma Malignant | | | | X | | | | | | | | | | | | | | | | | | | 1 |
| Preputial Gland | + | | | + | | | | | | | | + | | | | | | | | | + | + | 12 |
| Adenoma | | | | | | | | | | | | X | | | | | | | | | | | 2 |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Carcinosarcoma | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | X | | | 1 |
| Bilateral, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Prostate, Dorsal/lateral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | X | | X | | | X | | | | | | | | | | | | | 4 |
| Prostate, Ventral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Adenoma | | | | | | | | X | | | | | | | | | | | | X | | | 4 |
| Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | 2 |
| 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: 10034 - 04
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 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

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 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25000StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 078 | 0475 | 0493 | 0545 | 0715 | 0685 | 0728 | 0359 | 0254 | 0564 | 0633 | 0508 | 0651 | 0544 | 0646 | 0531 | 0727 | 0466 | 0295 | 0481 | |
| ANIMAL ID | 06352 | 06336 | 06333 | 06333 | 06311 | 06881 | 08812 | 08822 | 08822 | 08822 | 08822 | 08822 | 08822 | 08822 | 08822 | 08822 | 08822 | 08822 | 08822 | 08822 | |

| | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | A | + | 42 | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Interstitial Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | 1 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | X | | X | | | X | | | | | | | | | | | | | 5 |
| Osteosarcoma, Metastatic, Bone, Femur | | | | | | | | | | | | X | | | | | | | | | | 1 |
| Lymph Node | | | | + | | + | + | | + | | | | | + | | | | + | | | | 16 |
| Axillary, Lymphoma Malignant | | | | X | | | | | X | | | | | | | | | | | | | 2 |
| Brachial, Lymphoma Malignant | | | | | | X | | | | | | | | | | | | | | | | 1 |
| Cervical, Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | 1 |
| Inguinal, Lymphoma Malignant | | | | X | | | | | X | | | | | | | | | | | | | 2 |
| Lumbar, Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lumbar, Lymphoma Malignant | | | | X | | X | | | | | | | | | | | | | | | | 2 |
| Mediastinal, Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | 1 |
| Mediastinal, Lymphoma Malignant | | | | X | | | | | X | | | | | | | | | | | | | 3 |
| Pancreatic, Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pancreatic, Lymphoma Malignant | | | | X | | X | | | X | | | | | | | | | | | | | 5 |
| Renal, Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | 1 |
| Renal, Lymphoma Malignant | | | | X | | X | | | X | | | | | | | | | | | | | 3 |
| Lymph Node, Mandibular | + | | | + | + | + | | + | | + | | + | | + | | + | | + | | | | 15 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | X | | X | | | X | | | | | | | | | | | | | 4 |

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

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

Experiment Number: 10034 - 04

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Species/Strain: RATS/Sprague Dawley (NCTR)

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Bisphenol A

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| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25000StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 078 | 0475 | 0493 | 0545 | 0715 | 0675 | 0738 | 0325 | 0254 | 0540 | 0644 | 0538 | 0601 | 0544 | 0615 | 0531 | 0727 | 0466 | 0295 | 0481 | |
| ANIMAL ID | 06352 | 06361 | 06332 | 06331 | 06311 | 06311 | 06322 | 06322 | 06322 | 06322 | 06322 | 06322 | 06322 | 06322 | 06322 | 06322 | 06322 | 06322 | 06322 | 06322 | |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|
| Lymph Node, Mesenteric Lymphoma Malignant | | | | + | | | | | + | | | | | | | | | | | | 3 | |
| | | | | X | | | | | X | | | | | | | | | | | | 3 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 | |
| Leukemia Granulocytic Lymphoma Malignant | | | | X | | X | | | X | | | | | | | | | | | | 5 | |
| Thymus | + | + | + | M | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | A | + | 42 |
| Leukemia Granulocytic Lymphoma Malignant | | | | | | | X | | | X | | | | | | | | | | | 3 | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | 45 |
| Fibroadenoma | | | | | | | | | X | | | | | | | | | | | | 1 |
| Fibroma | | | | X | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | X | | | | | | | | | | | | | | | 1 |
| Skin | | | | + | + | | + | | | + | | | + | + | | | + | + | | | 16 |
| Fibroma | | | | | | | | | | | | | | | | | | | | | 1 |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | 1 |
| Subcutaneous Tissue, Lipoma | | | | | | | | | | | | | | | | | | | | | 1 |
| Subcutaneous Tissue, Sarcoma | | | | | | | | | | | | | | | | | X | | | | 1 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone | | | | | | | | | | | | | | | | | | | | | 1 |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Osteosarcoma | | | | | | | | | | | | 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25000StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|---|------|-----------------|------|
| | 078 | 0475 | 0493 | 0545 | 0715 | 0685 | 0738 | 0325 | 0054 | 0044 | 0030 | 0061 | 0054 | 0046 | 0065 | 0073 | 0046 | 0026 | 0049 | 0024 | | | 0024 | 0048 | 0041 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6352 | |
| | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3362 | |
| | 3 | 3 | 3 | 3 | 3 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5671 | |
| | 2 | 1 | 2 | 1 | 2 | 9 | 9 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2121 | |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |

Skeletal Muscle + + 3

NERVOUS SYSTEM

Brain, Brain Stem + 46
 Lymphoma Malignant X X 2

Brain, Cerebellum + 46
 Lymphoma Malignant X 2

Brain, Cerebrum + 46
 Lymphoma Malignant X X 3
 Oligodendroglioma Malignant X 1
 Sarcoma X 1

Nerve Trigeminal + + 3
 Lymphoma Malignant X 1

Peripheral Nerve, Sciatic + + 3

Peripheral Nerve, Tibial + + 3

Spinal Cord, Cervical + + 3

Spinal Cord, Lumbar + + 3
 Lymphoma Malignant X 1

Spinal Cord, Thoracic + + 3

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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

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 Bisphenol A
 CAS Number: 80-05-7

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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25000StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
| | 0728 | 0475 | 0493 | 0545 | 0715 | 0685 | 0738 | 0325 | 0254 | 0054 | 0044 | 0033 | 0009 | 0046 | 0065 | 0057 | 0046 | 0026 | 0099 | 0045 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0635 | |
| | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 3352 | |
| | 3 | 3 | 3 | 3 | 3 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 5667 | |
| | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|--|---|---|---|---|---|--|---|---|---|---|---|---|---|---|---|--|--|---|---|---|--|----|
| Lung | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Granulocytic | | + | + | + | + | | | + | + | + | + | + | + | + | + | + | | | + | + | + | | 38 |
| Lymphoma Malignant | | | | X | | X | | | X | | | | | | | | | | | | | | 1 |
| Osteosarcoma, Metastatic, Bone, Femur | | | | | | | | | | | | | X | | | | | | | | | | 4 |
| Sarcoma | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Sarcoma, Metastatic, Tissue Nos | | | | | | | | | | | | | | | | | | | | X | | | 1 |
| Nose | | | | | | | | | | | | | | | | | | | | | | | 37 |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | X | | X | | | X | | | | | | | | | | | | | | 3 |
| Sarcoma, Metastatic, Brain, Cerebrum | | | | | | | | | | | | | | | | | | | X | | | | 1 |
| Trachea | | | | | | | | | | | | | | | | | | | | | | | 33 |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Eye | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | 1 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--|--|--|---|--|---|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
| Kidney | | | | | | | | | | | | | | | | | | | | | | | 45 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | X | | X | | | X | | | | | | | | | | | | | | 5 |
| Urinary Bladder | | | | | | | | | | | | | | | | | | | | | | | 4 |

SYSTEMIC LESIONS

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|
| SPRAGUE DAWLEY (NCTR)
RATS MALE | DAY ON TEST | 7 | 4 | 4 | 5 | 7 | 6 | 7 | 3 | 2 | 5 | 6 | 5 | 6 | 5 | 4 | 6 | 5 | 7 | 4 | 2 | 4 | |
| | | 2 | 7 | 9 | 4 | 1 | 8 | 2 | 5 | 5 | 4 | 4 | 3 | 0 | 9 | 4 | 1 | 3 | 2 | 6 | 9 | 8 | |
| | | 8 | 5 | 3 | 5 | 5 | 5 | 8 | 9 | 4 | 0 | 0 | 8 | 1 | 4 | 6 | 5 | 1 | 7 | 6 | 5 | 1 | |
| F1 25000StDose M | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 3 | 3 | 3 | 3 | 3 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 5 | 6 | 6 | 7 | 7 | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | X | X | | | X | | | | | | | | | | | | | 5 | |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | 1 | |

*** 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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 Veh. Ctrl F | DAY ON TEST | 06 | 05 | 07 | 07 | 06 | 06 | 06 | 07 | 04 | 07 | 06 | 04 | 07 | 06 | 05 | 06 | 07 | 07 | 05 | 06 | 06 | 05 | 05 | females
(cont...) |
|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------------------|
| | ANIMAL ID | 05 | 09 | 02 | 02 | 01 | 07 | 07 | 02 | 09 | 02 | 01 | 04 | 02 | 01 | 03 | 02 | 02 | 02 | 07 | 04 | 08 | 02 | 09 | |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 04 | 04 | 04 | 04 | 04 | |
| | 00 | 00 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 04 | 04 | 04 | 04 | 04 | |
| | 09 | 09 | 00 | 00 | 01 | 01 | 02 | 02 | 03 | 03 | 05 | 06 | 06 | 07 | 07 | 08 | 08 | 09 | 09 | 01 | 01 | 02 | 02 | 03 | |
| | 01 | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 01 | 01 | 02 | 01 | 02 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | | | + | + | + | | | + | | + | + | | | + | + | + | | + | + | + | + | + | | | | | |
| Intestine Large, Cecum
Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon
Lymphoma Malignant | + | + | | | + | + | + | | | + | | + | + | | | + | + | + | A | | + | + | + | + | + | | | | |
| Intestine Small, Ileum
Leukemia Granulocytic | + | + | | | + | + | + | | | + | | + | A | | | + | | | + | + | + | A | | + | + | + | + | + | |
| Intestine Small, Jejunum
Leiomyoma
Leiomyosarcoma
Lymphoma Malignant | | | | + | | | | | | | | | | | | | | | | + | | | | + | | | | | |
| Liver
Leukemia Granulocytic
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas
Leukemia Granulocytic
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | | | |
|--|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|---|---|---|---|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 Veh. Ctrl F | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | | | |
| | | 6 | 5 | 7 | 7 | 6 | 6 | 6 | 7 | 4 | 7 | 6 | 4 | 7 | 6 | 6 | 7 | 6 | 5 | 6 | 7 | | 7 | 5 | 6 | 6 | 5 |
| | | 5 | 9 | 2 | 2 | 1 | 7 | 7 | 2 | 9 | 2 | 1 | 4 | 2 | 1 | 3 | 2 | 0 | 2 | 2 | 2 | 7 | 4 | 8 | 2 | 6 | 9 |
| | | 2 | 5 | 7 | 7 | 9 | 3 | 2 | 6 | 7 | 6 | 6 | 7 | 6 | 5 | 1 | 7 | 7 | 6 | 1 | 7 | 4 | 8 | 1 | 5 | 9 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 4 |
| | | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 1 | 1 | 2 | 2 | 3 | 3 |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |

Stomach, Glandular
Leukemia Granulocytic

+ +

CARDIOVASCULAR SYSTEM

Blood Vessel

+ +

Heart

+ +

Leukemia Granulocytic
Lymphoma Malignant
Schwannoma Benign

X
X

ENDOCRINE SYSTEM

Adrenal Cortex

+ +

Adenoma
Leukemia Granulocytic
Lymphoma Malignant

X
X

Adrenal Medulla

+ +

Islets, Pancreatic
Adenoma

+ +

Parathyroid Gland

+ +

Leukemia Granulocytic
Lymphoma Malignant

X

Pituitary Gland

+ +

Leukemia Granulocytic

* .. Total animals with tissue examined microscopically; 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
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 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 Veh. Ctrl F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
| | 0652 | 0595 | 0727 | 0727 | 0669 | 0666 | 0672 | 0442 | 0762 | 0646 | 0747 | 0665 | 0676 | 0671 | 0530 | 0626 | 0772 | 0777 | 0574 | 0668 | 0661 | 0566 | 0559 | | | |
| | ANIMAL ID | 00091 | 00090 | 00001 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00022 | 00022 | 00022 | 00022 | 00022 | 00022 | 00022 | 00022 | 00022 | 00022 | 00044 | 00044 | 00044 | 00044 | 00044 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Adenoma | | | | | X | X | X | | | | X | | | | | X | | | | | X | X | | | | X | | |
| Pars Distalis, Carcinoma | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Clitoral Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat Pad, Ovarian/parametrial | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Granulosa Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Granulosa Cell Tumor Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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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Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 Veh. Ctrl F | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 6 | 5 | 7 | 7 | 6 | 6 | 6 | 7 | 4 | 7 | 6 | 4 | 7 | 6 | 7 | 6 | 5 | 6 | 7 | 7 | 5 | 6 | 6 | 6 | 5 | 6 | 5 | 0 | |
| | | 5 | 9 | 2 | 2 | 1 | 7 | 7 | 2 | 9 | 2 | 1 | 4 | 2 | 1 | 3 | 2 | 0 | 2 | 2 | 2 | 7 | 4 | 8 | 2 | 6 | 9 | 0 | | |
| | | 2 | 5 | 7 | 7 | 9 | 3 | 2 | 6 | 7 | 6 | 6 | 7 | 6 | 5 | 1 | 7 | 7 | 6 | 1 | 7 | 4 | 8 | 1 | 5 | 9 | 0 | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | | |
| | | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | | |
| | | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 1 | 1 | 1 | 2 | 2 | 3 | 0 | | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 0 | | |

Lymphoma Malignant
 Polyp Stromal
 Endometrium, Adenoma

X
 X
 X

Vagina
 Lymphoma Malignant

+
 X

HEMATOPOIETIC SYSTEM

Bone Marrow
 Leukemia Granulocytic
 Lymphoma Malignant

+
 X

Lymph Node
 Axillary, Leukemia Granulocytic
 Axillary, Lymphoma Malignant
 Cervical, Leukemia Granulocytic
 Cervical, Lymphoma Malignant
 Lumbar, Leukemia Granulocytic
 Lumbar, Lymphoma Malignant
 Mediastinal, Leukemia Granulocytic
 Mediastinal, Lymphoma Malignant
 Pancreatic, Leukemia Granulocytic
 Pancreatic, Lymphoma Malignant
 Popliteal, Leukemia Granulocytic
 Renal, Leukemia Granulocytic
 Renal, Lymphoma Malignant

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

Lymph Node, Mandibular
 Leukemia Granulocytic

+ + +

* .. Total animals with tissue examined microscopically; 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: 10034 - 04
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
CAS Number: 80-05-7

Date Report Requested: 08/16/2017
Time Report Requested: 10:21:03
First Dose M/F: 09/25/12 / 09/25/12
Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 Veh. Ctrl F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 6 | 5 | 7 | 7 | 6 | 6 | 6 | 7 | 4 | 7 | 6 | 4 | 7 | 6 | 5 | 6 | 7 | 7 | 5 | 6 | 6 | 5 | | 5 | |
| ANIMAL ID | 5 | 9 | 2 | 2 | 1 | 7 | 7 | 2 | 9 | 2 | 1 | 4 | 2 | 1 | 3 | 2 | 0 | 2 | 2 | 7 | 4 | 8 | 9 | | |
| | 2 | 5 | 7 | 7 | 9 | 3 | 2 | 6 | 7 | 6 | 6 | 7 | 6 | 5 | 1 | 7 | 7 | 6 | 1 | 7 | 4 | 8 | 5 | 9 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 |
| | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | |
| | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 5 | 5 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 1 | 1 | 2 | 2 | 3 | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | X | | | | | | | | |
| Lymph Node, Mesenteric | | | | | | | | | | | | | | | | | + | | | | | | | | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | X | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | X | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | X | | | | | | | |
| Thymoma Benign | | | | | | | | | | | | | | | | | | X | | | | | | | |
| Epithelial Cell, Thymoma Malignant | | | | | | | | | | | | | | | | | | | | X | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | | X | | | | |
| Adenocarcinoma, Multiple | | | | | | | | | | X | | | | | | | | | | | | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | X |
| Carcinosarcoma | | | | | | | | | | | | | | | | | | | | | X | | |
| Fibroadenoma | | | | | | X | | X | X | X | | | | X | | X | | | | X | | | X |
| Fibroadenoma, Multiple | X | | | | X | | X | | | | | | X | | X | | | X | X | X | X | | X |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | |
| Mixed Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | | | | | | | | | | | | | | | | | | | | | | | |
| Basal 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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE | | 6 | 5 | 7 | 7 | 6 | 6 | 6 | 7 | 4 | 7 | 6 | 4 | 7 | 6 | 6 | 7 | 6 | 5 | 6 | 7 | 7 | 5 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | F1 Veh. Ctrl F | 2 | 5 | 7 | 7 | 9 | 3 | 2 | 6 | 7 | 6 | 6 | 7 | 6 | 5 | 1 | 7 | 7 | 6 | 1 | 2 | 2 | 7 | 4 | 8 | 1 | 5 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

females
(cont...)

Squamous Cell Papilloma

X

MUSCULOSKELETAL SYSTEM

Bone
 Joint, Leukemia Granulocytic

Bone, Femur

+ +

Skeletal Muscle

+

NERVOUS SYSTEM

Brain, Brain Stem
 Carcinoma, Deep Invasion

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

Brain, Cerebellum
 Leukemia Granulocytic

+ +

Brain, Cerebrum
 Leukemia Granulocytic

+ +

Nerve Trigeminal

+ +

Peripheral Nerve, Sciatic

+ +

Peripheral Nerve, Tibial

+ +

Spinal Cord, Cervical

+ +

* .. Total animals with tissue examined microscopically; 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------------|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 Veh. Ctrl F | | 062 | 055 | 072 | 072 | 061 | 067 | 062 | 072 | 046 | 072 | 064 | 072 | 066 | 073 | 066 | 050 | 062 | 072 | 057 | 064 | 062 | 056 | 065 | 059 | |
| ANIMAL ID | | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 004 | 004 | 004 | 004 | 000 | |
| Spinal Cord, Lumbar | | | | + | | | | | | + | + | | + | | | | | | | | | | + | | + | |
| Spinal Cord, Thoracic | | | | + | | | | | | + | + | | + | | | | | | | | | | + | | + | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--|---|---|---|--|--|---|---|---|--|--|---|---|---|---|---|---|---|---|--|---|---|---|---|---|---|
| Lung | | + | + | + | | | + | + | + | | | + | | | | + | + | + | + | | | + | + | + | + | + |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Nose | | + | + | | | | + | + | + | | | + | + | + | + | | | | | | + | + | + | + | + | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Trachea | | + | + | | | | + | + | + | | | + | + | + | + | | | | | | + | + | + | + | + | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | X |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Eye | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lipoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | X |

SYSTEMIC LESIONS

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

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

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------------------------------------|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 Veh. Ctrl F | DAY ON TEST | 062 | 055 | 072 | 072 | 061 | 067 | 067 | 072 | 049 | 072 | 062 | 067 | 042 | 061 | 063 | 050 | 062 | 072 | 057 | 064 | 062 | 056 | 066 | 055 | 059 | females
(cont...) |
| | ANIMAL ID | 0091 | 0002 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0002 | 0002 | 0002 | 0002 | 0002 | 0002 | 0002 | 0002 | 0002 | 0002 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | |

Multiple Organ
 Leukemia Granulocytic
 Lymphoma Malignant

+ +

X

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

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

Experiment Number: 10034 - 04
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Bisphenol A
CAS Number: 80-05-7

Date Report Requested: 08/16/2017
Time Report Requested: 10:21:03
First Dose M/F: 09/25/12 / 09/25/12
Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE | DAY ON TEST | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|----|-----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|-----------------|
| | 07 | 08 | 07 | 08 | 05 | 06 | 04 | 06 | 06 | 07 | 06 | 07 | 04 | 06 | 04 | 05 | 06 | 07 | 05 | 04 | 05 | 07 | 04 | 07 | 05 | | |
| F1 Veh. Ctrl F | 04 | 04 | 04 | 04 | 04 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | | |
| | 44 | 44 | 44 | 44 | 44 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | | |
| | 33 | 34 | 34 | 34 | 35 | 36 | 36 | 36 | 36 | 37 | 37 | 37 | 38 | 38 | 38 | 38 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | | |
| | 21 | 21 | 22 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|--|--|--|--|--|---|---|---|---|---|--|--|---|--|--|---|---|---|--|--|--|--|--|--|--|----|
| Esophagus | | | | | | + | + | + | + | + | | | + | | | + | + | + | | | | | | | | 34 |
| Intestine Large, Cecum | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Intestine Large, Colon | | | | | | | | | | | | | | | | | | | | | | | | | | 31 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Intestine Small, Ileum | | | | | | | | | | | | | | | | | | | | | | | | | | 29 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Intestine Small, Jejunum | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Leiomyoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Leiomyosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Liver | | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | | 34 |

* .. Total animals with tissue examined microscopically; 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 Veh. Ctrl F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--|
| | 0727 | 0728 | 0728 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | | |
| ANIMAL ID | 04432 | 04441 | 04442 | 04445 | 04446 | 04446 | 04446 | 04446 | 04446 | 04446 | 04446 | 04446 | 04446 | 04446 | 04446 | 04446 | 04446 | 04446 | 04446 | 04446 | 04446 | 04446 | 04446 | 04446 | 04446 | | |
| Stomach, Glandular
Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | | 34
1 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Schwannoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | | 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 Veh. Ctrl F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|---|
| | 0727 | 0728 | 0728 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | | |
| ANIMAL ID | 04432 | 04441 | 04442 | 04445 | 04451 | 04452 | 04451 | 04452 | 04451 | 04452 | 04451 | 04452 | 04451 | 04452 | 04451 | 04452 | 04451 | 04452 | 04451 | 04452 | 04451 | 04452 | 04451 | 04452 | 04451 | 04452 | |
| Lymphoma Malignant Pars Distalis, Adenoma Pars Distalis, Carcinoma | | X | | X | | X | X | X | X | X | | | X | X | | | | X | X | | X | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | X | | | | | | | | | |
| Lymphoma Malignant Follicular Cell, Carcinoma | | | | | | X | | | | | | | X | | | | | | | | | | | | | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland Carcinoma | + | | | | | | | | | | | | + | + | | | | | | | | | | | + | | |
| Fat Pad, Ovarian/parametrial | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Granulosa Cell Tumor Benign | | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| Granulosa Cell Tumor Malignant | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | X | | | | | | |
| Lymphoma Malignant | | | | | | X | | | | | | | | | | | | | | | | | | | | | |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | M | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 Veh. Ctrl F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--|
| | 0727 | 0728 | 0728 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | | |
| ANIMAL ID | 04432 | 04441 | 04442 | 04445 | 04446 | 04446 | 04446 | 04446 | 04446 | 04446 | 04446 | 04446 | 04446 | 04446 | 04446 | 04446 | 04446 | 04446 | 04446 | 04446 | 04446 | 04446 | 04446 | 04446 | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymph Node, Mesenteric | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Thymoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Epithelial Cell, Thymoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Adenocarcinoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Carcinosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Fibroadenoma | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 20 | |
| Fibroadenoma, Multiple | | X | X | | | | | | | | | | | | | | | | | | | | | | 21 | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Mixed Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Skin | | | | + | + | | | | | | | | | | | | | | | | | | | | 17 | |
| Basal 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

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 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 Veh. Ctrl F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|----|----|
| | 07 | 07 | 07 | 07 | 05 | 05 | 04 | 06 | 06 | 07 | 06 | 07 | 04 | 06 | 04 | 05 | 06 | 07 | 05 | 04 | | 05 | 07 | 04 | 07 | 05 |
| ANIMAL ID | 04 | 04 | 04 | 04 | 04 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | |
| Spinal Cord, Lumbar | | | | | | | | | | | | | | | | | | | | | | | | | 7 | |
| Spinal Cord, Thoracic | | | | | | | | | | | | | | | | | | | | | | | | | 7 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | | | | | | | | | | | | | | | | | | | | | | | | | 38 | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Nose | | | | | | | | | | | | | | | | | | | | | | | | | 34 | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Trachea | | | | | | | | | | | | | | | | | | | | | | | | | 32 | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lipoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

M .. Missing tissue
 A .. Autolysis precludes evaluation
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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2.5 BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0535 | 0085 | 0072 | 0054 | 0072 | 0073 | 0035 | 0066 | 0066 | 0066 | 0044 | 0077 | 0077 | 0077 | 0022 | 0077 | 0077 | 0077 | 0066 | 0066 | 0055 | 0077 | 0077 | 0077 | | |
| | 0025 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0024 | 0024 | 0024 | 0024 | 0024 | 0024 | 0024 | 0024 | 0024 | 0024 | 0024 | 0024 | 0024 | 0022 | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | | + | | | + | + | + | + | + | | | | | + | | | + | | + | + | + |
| Intestine Large, Colon | + | + | | + | | | + | + | + | + | + | | | | | + | | | + | | + | + | + |
| Intestine Small, Ileum | + | + | | + | | | + | + | + | + | + | | | | | + | | | + | | + | + | + |
| Liver
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pancreas
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach | + | + | | + | | | + | + | + | + | + | | | | | + | | | + | | + | + | + |
| Stomach, Glandular | + | + | | + | | | + | + | + | + | + | | | | | + | | | + | | + | + | + |

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

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

* .. 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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| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2.5 BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------|----------------------|
| | 0
5
3
5 | 0
0
8
5 | 0
7
2
7 | 0
5
4
9 | 0
7
2
7 | 0
7
2
8 | 0
3
2
2 | 0
5
2
5 | 0
6
1
2 | 0
6
4
6 | 0
4
9
8 | 0
7
3
1 | 0
7
3
0 | 0
7
2
8 | 0
2
8
7 | 0
7
2
5 | 0
7
0
0 | 0
7
2
6 | 0
6
2
2 | 0
6
2
6 | 0
5
7
1 | 0
7
2
8 | 0
7
2
8 | | | |
| | 0
0
2
5
1 | 0
0
2
5
2 | 0
0
2
6
1 | 0
0
2
6
2 | 0
0
2
7
1 | 0
0
2
8
2 | 0
0
2
8
1 | 0
0
2
9
2 | 0
0
2
9
1 | 0
0
2
9
2 | 0
2
4
1
2 | 0
2
4
1
2 | 0
2
4
2
2 | 0
2
4
3
1 | 0
2
4
3
2 | 0
2
4
4
1 | 0
2
4
4
2 | 0
2
4
5
1 | 0
2
4
5
2 | 0
4
5
7
1 | 0
4
5
7
2 | 0
4
5
8
1 | 0
4
5
8
2 | 0
4
5
8
1 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Adenoma | | | X | X | X | X | | X | X | | X | X | | X | | | | X | | X | X | X | | X | |
| Pars Distalis, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Carcinoma | | | | X | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

Tissue NOS
 Fibrosarcoma, Metastatic, Clitoral Gland

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thecoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | |

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

M .. Missing tissue
 A .. Autolysis precludes evaluation
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| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2.5 BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
| | 0535 | 0085 | 0077 | 0054 | 0072 | 0072 | 0032 | 0052 | 0062 | 0066 | 0044 | 0073 | 0073 | 0077 | 0028 | 0072 | 0072 | 0000 | 0072 | 0062 | 0062 | 0057 | 0072 | 0077 | |
| ANIMAL ID | 0025 | 0026 | 0001 | 0002 | 0007 | 0008 | 0008 | 0008 | 0009 | 0009 | 0002 | 0002 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0005 | 0005 | 0001 | 0002 | 0004 | 0004 | |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyp Stromal | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Endometrium, Adenocarcinoma | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Epithelium, Squamous Cell Carcinoma | | | | | | | | | | X | | | | | | | | | | | | | | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | + | | | + | | + | | | | | | | | | + | | | + | | | | | |
| Lumbar, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2.5 BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|----------------------|
| | 0
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| ANIMAL ID | 0
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|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma | | | X | | | | | | | | | | | X | | | | | | | | | |
| Adenocarcinoma, Multiple | | | | | | | | | | | | | | | | | | | | | | X | |
| Adenoma | | | | | | | | | | | X | | | | | | | | | | | | |
| Fibroadenoma | | | | X | | X | X | | | | | | X | | X | | | X | X | | | | |
| Fibroadenoma, Multiple | | | X | | X | X | | | X | X | X | X | X | | | | X | X | X | | X | X | |
| Skin | + | | | | | | | + | | | | | | + | | + | | | | | | + | |
| Basal Cell Adenoma | | | | | | | | | | | | | | | | X | | | | | | | |
| Subcutaneous Tissue, Fibrosarcoma | | | | | | | | | | | | | | | | X | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Deep Invasion | | | | | | | | | | | | | | | | | | | | | | | |
| Oligodendroglioma Malignant | | | | | | | | | | | | | | | X | | | | | | | | |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Oligodendroglioma Malignant | | | | | | | | | | | | | | | X | | | | | | | | |
| Nerve Trigeminal | | | | | | | | | | | | | | + | + | | + | + | | | | + | |

* .. Total animals with tissue examined microscopically; 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2.5 BPA F | | 0
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1 | |

Peripheral Nerve, Sciatic

+ + + + +

Peripheral Nerve, Tibial

+ + + + +

Spinal Cord, Cervical

+ + + + +

Spinal Cord, Lumbar

+ + + + +

Spinal Cord, Thoracic

+ + + + +

RESPIRATORY SYSTEM

Lung

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

Lymphoma Malignant

C-cell, Carcinoma, Metastatic, Thyroid Gland

X

Nose

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

Trachea

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

SPECIAL SENSES SYSTEM

Zymbal's Gland

+

Carcinoma

X

URINARY SYSTEM

Kidney

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

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

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P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

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First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2.5 BPA F | DAY ON TEST | 0535 | 0085 | 0072 | 0054 | 0072 | 0073 | 0056 | 0066 | 0066 | 0047 | 0077 | 0077 | 0028 | 0072 | 0077 | 0077 | 0066 | 0066 | 0055 | 0077 | 0077 |
| | ANIMAL ID | 0251 | 0002 | 0002 | 0002 | 0002 | 0002 | 0002 | 0002 | 0002 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0044 | 0044 | 0044 | 0044 |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 |
| | | | | | | | | | | | | | | | | | | | | | | |

females (cont...)

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: 10034 - 04

Test Type: CHRONIC

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P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2.5 BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|
| | 0727 | 0715 | 0728 | 0748 | 0707 | 0766 | 0773 | 0777 | 0755 | 0755 | 0776 | 0766 | 0755 | 0777 | 0777 | 0744 | 0755 | 0755 | 0777 | 0766 | | 0766 | 0755 |
| ANIMAL ID | 04592 | 04461 | 04462 | 04461 | 04461 | 04661 | 04667 | 04667 | 04667 | 04667 | 04667 | 04667 | 04667 | 04667 | 04667 | 04884 | 04884 | 04885 | 04885 | 04885 | 04885 | 04885 | 04885 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pheochromocytoma Malignant | | | | | | | | | | | | | | | X | | | | | | | | 1 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Pars Distalis, Adenoma | X | | X | | | | X | | | | X | | X | | X | X | | | | | X | | 22 |
| Pars Distalis, Carcinoma | | | | | | | | | | | | | | | | | | | X | | | | 1 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| C-cell, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | 1 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | + | | | | | | | | | | | | | | | | | 1 |
| Fibrosarcoma, Metastatic, Clitoral Gland | | | | | | X | | | | | | | | | | | | | | | | | 1 |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | | | | | | + | + | | | + | | | | | | | | | + | + | | | 7 |
| Carcinoma | | | | | | | | | | | | | | | | | | | | X | | | 1 |
| Fibrosarcoma | | | | | | X | | | | | | | | | | | | | | | | | 1 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Lymphoma Malignant | | | | | | | | | | X | | | | | | | | | | | | | 1 |
| Thecoma Benign | | | | | | | | | | | | 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2.5 BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|
| | 0727 | 0715 | 0728 | 0718 | 0716 | 0706 | 0707 | 0707 | 0705 | 0705 | 0707 | 0706 | 0706 | 0705 | 0707 | 0707 | 0704 | 0705 | 0705 | 0707 | | 0706 | 0706 | 0705 |
| ANIMAL ID | 04592 | 04461 | 04462 | 04461 | 04461 | 04466 | 04466 | 04466 | 04466 | 04466 | 04466 | 04466 | 04466 | 04466 | 04466 | 04466 | 04468 | 04468 | 04468 | 04468 | 04468 | 04468 | 04468 | 04468 |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | 1 |
| Polyp Stromal | | | | | X | X | | | | | | | | | | | | | | | | | | 3 |
| Endometrium, Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Epithelium, Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | 1 |
| Lymph Node | | + | | | | | + | | | | | + | | | | | | | | | | + | | 9 |
| Lumbar, Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | 1 |
| Mediastinal, Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | 1 |
| Pancreatic, Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | 1 |
| Renal, Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | 1 |
| Lymph Node, Mesenteric | | | | | | | | | | | | | | + | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | 1 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | 1 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |

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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2.5 BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|
| | 077 | 077 | 077 | 071 | 066 | 066 | 077 | 077 | 055 | 055 | 077 | 066 | 066 | 055 | 077 | 077 | 044 | 055 | 055 | 077 | | 066 | 066 |
| ANIMAL ID | 04592 | 04461 | 04462 | 04461 | 04461 | 04461 | 04466 | 04466 | 04466 | 04466 | 04466 | 04466 | 04466 | 04466 | 04466 | 04466 | 04466 | 04466 | 04466 | 04466 | 04466 | 04466 | 04466 |
| Peripheral Nerve, Sciatic | | | | + | | | | | | + | + | + | | | | + | | | + | + | | | 12 |
| Peripheral Nerve, Tibial | | | | + | | | | | | | | | | | | + | | | + | + | | | 12 |
| Spinal Cord, Cervical | | | | A | | | | | | | | | | | | + | + | + | | | + | + | 11 |
| Spinal Cord, Lumbar | | | | + | | | | | | | | | | | | + | + | + | | | + | + | 12 |
| Spinal Cord, Thoracic | | | | A | | | | | | | | | | | | + | + | + | | | + | + | 11 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | | | | + | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Carcinoma, Metastatic, Thyroid Gland | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | | | | + | | | | | | | | | | | | | | | | | | | |
| Trachea | | | | + | | | | | | | | | | | | | | | | | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | | | | + | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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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Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|---|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25.0 BPA F | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 1 | 6 | 4 | 5 | 6 | 6 | 5 | 5 | 5 | 4 | 5 | 6 | 5 | 5 | 5 | 7 | 6 | 6 | 6 | 5 | 7 | 7 | 7 | 7 | 5 | |
| | | 3 | 3 | 3 | 9 | 1 | 4 | 0 | 1 | 4 | 4 | 2 | 7 | 4 | 4 | 1 | 2 | 4 | 1 | 1 | 4 | 2 | 2 | 2 | 2 | | |
| | | 9 | 2 | 5 | 4 | 6 | 5 | 8 | 5 | 2 | 2 | 5 | 2 | 0 | 0 | 5 | 8 | 7 | 1 | 0 | 2 | 7 | 7 | 8 | 8 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | | |
| | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | | | |
| | | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 1 | 1 | 3 | 3 | 4 | | | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum
Lymphoma Malignant | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum
Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liver
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach
Squamous Cell Papilloma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

CARDIOVASCULAR SYSTEM

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

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25.0 BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
| | 0139 | 0162 | 0145 | 0159 | 0166 | 0156 | 0155 | 0155 | 0154 | 0155 | 0166 | 0155 | 0155 | 0157 | 0166 | 0166 | 0166 | 0165 | 0177 | 0177 | 0177 | 0177 | 0175 | 0159 | |
| ANIMAL ID | 0041 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0025 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0024 | 0044 | 0044 | 0044 | 0044 | 0044 | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 3 | 4 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | X | | | | | | | | | | | | | |
| Yolk Sac Carcinoma, Metastatic, Uncertain Primary Site | X | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | X | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Islets, Pancreatic Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | X | | | | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | X | | | | | | | | | | | | | |
| Pars Distalis, Adenoma | | X | X | | | X | | | | | | X | | | | | X | | | | X | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | X | | | | | | | | | | | | | |
| C-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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | |
|--|-----------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------|------|------|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25.0 BPA F | ANIMAL ID | 0139 | 0162 | 0145 | 0156 | 0166 | 0155 | 0155 | 0155 | 0144 | 0155 | 0166 | 0155 | 0155 | 0177 | 0166 | 0166 | 0155 | 0177 | 0177 | 0177 | | 0155 | 0177 | |
| | | 0041 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0025 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0044 | 0044 | | 0044 | 0044 | 0044 |
| | | 1111 | 2221 | 2221 | 3331 | 3332 | 4441 | 4442 | 5551 | 5552 | 7771 | 7772 | 8881 | 8882 | 9991 | 9992 | 1111 | 1112 | 1111 | 1112 | 3331 | 3332 | 4441 | 4442 | |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Clitoral Gland | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | + | + | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Uterus | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Polyp Stromal | | | | | | | | | | | | X | | | | | | X | | | | | | X | |
| Vagina | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | X | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cervical, Lymphoma Malignant | | | | | | | | | | | | | X | + | | | | | | | | | | | |
| Lumbar, Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Mediastinal, Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Pancreatic, Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Renal, Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | | |

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

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

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25.0 BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
| | 0
1
3
9 | 0
6
3
2 | 0
4
3
5 | 0
5
9
4 | 0
6
1
6 | 0
6
4
5 | 0
5
0
8 | 0
5
1
5 | 0
5
4
2 | 0
4
4
2 | 0
5
2
5 | 0
6
7
2 | 0
5
4
0 | 0
5
1
5 | 0
7
2
8 | 0
6
4
7 | 0
6
1
1 | 0
6
4
0 | 0
5
2
2 | 0
7
2
7 | 0
7
2
8 | 0
7
2
8 | 0
5
2
9 | | |
| ANIMAL ID | 0
0
4
1
1 | 0
0
4
1
2 | 0
0
4
2
1 | 0
0
4
2
2 | 0
0
4
3
1 | 0
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1 | 0
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2 | 0
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4
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1 | 0
2
4
7
2 | 0
2
5
8
1 | 0
2
5
9
2 | 0
2
5
9
1 | 0
2
5
9
2 | 0
2
6
9
1 | 0
2
6
9
2 | 0
2
6
9
1 | 0
2
6
9
2 | 0
2
6
9
1 | 0
4
7
3
1 | 0
4
7
3
2 | 0
4
7
4
1 | 0
4
7
4
2 | 0
4
7
4
5 | |

Lymph Node, Mandibular
Lymphoma Malignant

+ + +

Lymph Node, Mesenteric
Lymphoma Malignant

+
X

Spleen
Lymphoma Malignant

+ +

Thymus
Lymphoma Malignant

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

INTEGUMENTARY SYSTEM

Mammary Gland
Adenocarcinoma
Adenocarcinoma, Multiple
Adenoma
Fibroadenoma
Fibroadenoma, Multiple
Lymphoma Malignant

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

Skin
Subcutaneous Tissue, Lipoma

+ +

MUSCULOSKELETAL SYSTEM

Bone, Femur

+ +

Skeletal Muscle

+

* .. Total animals with tissue examined microscopically; 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: 10034 - 04
 Test Type: CHRONIC
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 Species/Strain: RATS/Sprague Dawley (NCTR)

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 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | | | |
|--|----------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|---|---|---|--|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | | | |
| | F1 25.0 BPA F | 1 | 6 | 4 | 5 | 6 | 6 | 5 | 5 | 5 | 4 | 5 | 6 | 5 | 5 | 7 | 6 | 6 | 6 | 5 | 7 | 7 | 7 | 7 | 5 | | |
| | ANIMAL ID | 3 | 3 | 3 | 9 | 1 | 4 | 0 | 1 | 4 | 4 | 2 | 7 | 4 | 4 | 1 | 2 | 4 | 1 | 1 | 4 | 2 | 2 | 2 | 2 | | |
| | | 9 | 2 | 5 | 4 | 6 | 5 | 8 | 5 | 2 | 2 | 5 | 2 | 0 | 0 | 5 | 8 | 7 | 1 | 0 | 2 | 7 | 7 | 8 | 8 | 9 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | | |
| | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | | |
| | | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 1 | 1 | 3 | 3 | 4 | 4 | 4 | | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 5 | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Brain, Brain Stem
Glioma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Brain, Cerebellum
Glioma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Brain, Cerebrum
Glioma Malignant
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Nerve Trigeminal | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Sciatic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Tibial | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Cervical | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Lumbar | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Thoracic | | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

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

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

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 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE | | 5 | 3 | 5 | 3 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 4 | 6 | 4 | 5 | 7 | 7 | 7 | 7 | 4 | 6 |
| | | 0 | 8 | 0 | 1 | 2 | 8 | 2 | 2 | 7 | 2 | 2 | 6 | 1 | 9 | 5 | 2 | 2 | 2 | 2 | 8 | 8 |
| F1 25.0 BPA F | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ANIMAL ID | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 6 | 6 | 6 | 6 | 7 | 7 | 7 |
| | | 5 | 6 | 6 | 7 | 7 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 8 | 8 | 8 | 9 | 9 | 0 | 0 | 0 | 0 |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 32 |
| Intestine Large, Cecum | | | + | | | | | | | | | | | | | | | | | | | 1 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 31 |
| Intestine Small, Ileum
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 31
1 |
| Intestine Small, Jejunum
Adenocarcinoma | | | + | | | | | | | | | | | | | | | | | | | 2
1 |
| Liver
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46
1 |
| Mesentery | | | | | | | | | | + | | | | | + | | | | | | | 3 |
| Pancreas
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46
1 |
| Stomach, Forestomach
Squamous Cell Papilloma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 34
1 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 31 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

* .. Total animals with tissue examined microscopically; Total animals with tumor
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Experiment Number: 10034 - 04

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P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25.0 BPA F | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------------|---|---|
| | | 5 | 3 | 5 | 3 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 4 | 6 | 4 | 5 | 7 | 7 | 7 | 7 | | | 4 | 6 |
| | | 5 | 8 | 0 | 1 | 2 | 8 | 2 | 2 | 7 | 2 | 2 | 6 | 1 | 9 | 5 | 2 | 2 | 2 | 2 | 8 | 8 | | |
| | | 0 | 8 | 6 | 0 | 7 | 2 | 4 | 5 | 9 | 8 | 8 | 9 | 8 | 0 | 2 | 8 | 8 | 8 | 8 | 3 | 2 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | |
| | | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | | |
| | | 5 | 6 | 6 | 7 | 7 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 0 | 0 | | |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | | |
| | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |

| | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | 1 |
| Yolk Sac Carcinoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | 1 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | 1 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Islets, Pancreatic Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Adenoma | | | X | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pars Distalis, Adenoma | | | | | | | X | | | X | | | | X | | X | | | X | X | | 12 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | 1 |
| C-cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | 1 |

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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

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 Bisphenol A
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 Lab: NCTR

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE | DAY ON TEST | 5 | 3 | 5 | 3 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 4 | 6 | 4 | 5 | 7 | 7 | 7 | 7 | 4 | 6 |
| | | 5 | 8 | 0 | 1 | 2 | 8 | 2 | 2 | 7 | 2 | 2 | 6 | 1 | 9 | 5 | 2 | 2 | 2 | 2 | 8 | 2 |
| | | 0 | 8 | 6 | 0 | 7 | 2 | 4 | 5 | 9 | 8 | 8 | 9 | 8 | 0 | 2 | 8 | 8 | 8 | 8 | 3 | 2 |
| F1 25.0 BPA F | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 6 | 6 | 6 | 6 | 7 | 7 | 7 |
| | | 5 | 6 | 6 | 7 | 7 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 8 | 9 | 9 | 0 | 0 | 0 |
| | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Clitoral Gland | | | | | | | | | | | | | | | | | | | | | | | 6 |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Polyp Stromal | | | | | | | | X | | | | | | X | | | X | | | | | | 7 |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | 1 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymph Node | | | | | | | | | | | + | | + | | | + | | + | | | | | 6 |
| Cervical, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lumbar, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Mediastinal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pancreatic, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Renal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | 1 |

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

M .. Missing tissue
 A .. Autolysis precludes evaluation
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| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | | |
|---|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|---|---|---|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 250.0BPA F | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | | |
| | | 5 | 4 | 7 | 5 | 6 | 7 | 7 | 7 | 5 | 5 | 4 | 6 | 7 | 6 | 6 | 6 | 5 | 5 | 7 | 6 | | 3 | 7 | 6 | 6 |
| | | 9 | 7 | 2 | 8 | 8 | 2 | 0 | 2 | 8 | 1 | 7 | 4 | 2 | 3 | 3 | 1 | 9 | 6 | 2 | 0 | 7 | 2 | 7 | 0 | 2 |
| | | 9 | 9 | 7 | 3 | 7 | 4 | 9 | 7 | 4 | 4 | 5 | 8 | 6 | 5 | 5 | 6 | 2 | 7 | 8 | 8 | 7 | 0 | 3 | 5 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 4 |
| | | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 9 | 9 | 9 | 9 | 9 |
| | | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 1 | 1 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 9 | 9 | 0 | 1 | 1 | 1 |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | | + | + | | + | | + | + | + | + | | + | + | + | + | | + | + | | + | + | | + | + | |
| Intestine Large, Colon | + | A | | + | + | | + | | + | + | + | + | | + | A | + | + | + | | + | + | | + | + | | + | + |
| Intestine Small, Ileum | + | A | | + | + | | + | | + | + | + | + | | + | A | + | + | + | | + | + | | + | + | | + | + |
| Intestine Small, Jejunum
Adenocarcinoma | + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma, Metastatic, Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yolk Sac Carcinoma, Metastatic, Ovary | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yolk Sac Carcinoma, Metastatic, Ovary | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Yolk Sac Carcinoma, Metastatic, Ovary | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | | + | + | | + | | + | + | + | + | | + | + | + | + | + | | + | + | | + | + | | + | + |
| Stomach, Glandular | + | A | | + | + | | + | | + | + | + | + | | + | + | + | + | + | | + | + | | + | + | | + | + |

CARDIOVASCULAR SYSTEM

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

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
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| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 250.0BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|
| | 0599 | 0479 | 0727 | 0583 | 0687 | 0774 | 0779 | 0779 | 0584 | 0554 | 0475 | 0625 | 0738 | 0663 | 0665 | 0596 | 0556 | 0727 | 0668 | 0378 | | | 0767 | 0670 |
| | 0057 | 0055 | 0058 | 0055 | 0056 | 0066 | 0066 | 0066 | 0066 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 |

Heart +

ENDOCRINE SYSTEM

Adrenal Cortex Adenoma + + + + X + + + + + + + + + + + + + + X + + + + + + + +

Adrenal Medulla Pheochromocytoma Benign + X + + + + +

Islets, Pancreatic +

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

Pituitary Gland Pars Distalis, Adenoma +
 Pars Intermedia, Adenoma X

Thyroid Gland +

GENERAL BODY SYSTEM

Tissue NOS

GENITAL SYSTEM

Clitoral Gland Carcinoma Fibrosarcoma +

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
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RATS FEMALE
F1 250.0BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
| | 0599 | 0477 | 0728 | 0588 | 0672 | 0770 | 0772 | 0772 | 0558 | 0554 | 0467 | 0676 | 0666 | 0666 | 0559 | 0556 | 0772 | 0668 | 0377 | 0766 | 0666 | 0667 | 0072 | 0066 | |
| ANIMAL ID | 00572 | 00581 | 00582 | 00581 | 00602 | 00606 | 00606 | 00606 | 00606 | 00606 | 00606 | 00606 | 00606 | 00606 | 00606 | 00606 | 00606 | 00606 | 00606 | 00606 | 00606 | 00606 | 00606 | 00606 | 00606 |

Fat Pad, Ovarian/parametrial

+

Ovary
 Granulosa Cell Tumor Benign
 Yolk Sac Carcinoma

+
 X

Oviduct

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

Uterus
 Polyp Stromal
 Yolk Sac Carcinoma, Metastatic, Ovary

+ +

Vagina

+ +

HEMATOPOIETIC SYSTEM

Bone Marrow

+ +

Lymph Node

+ + + +

Lymph Node, Mandibular

+

Spleen
 Sarcoma
 Yolk Sac Carcinoma, Metastatic, Ovary

+ +

Thymus

+ +

INTEGUMENTARY SYSTEM

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 + .. Tissue examined microscopically
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RATS FEMALE
F1 250.0BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|-------|-------|-------|-------|
| | 0599 | 0479 | 0727 | 0583 | 0687 | 0772 | 0770 | 0772 | 0584 | 0554 | 0475 | 0664 | 0778 | 0663 | 0665 | 0596 | 0556 | 0727 | 0668 | 0378 | | 0767 | 0670 | 0663 | 0725 |
| ANIMAL ID | 00572 | 00581 | 00582 | 00591 | 00592 | 00601 | 00602 | 00606 | 00611 | 00612 | 00621 | 00622 | 00627 | 00627 | 00631 | 00632 | 00637 | 00637 | 00641 | 00642 | 00647 | 00648 | 00649 | 00651 | 00652 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma | | | | | X | | | | | | | | | | | | | | | | X | | | |
| Adenocarcinoma, Multiple | | | | | | | | | | | X | | | | | | | | | | X | | | |
| Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | X | | |
| Fibroadenoma | X | | | | | X | | | X | | | | | | | | | | X | | | | | |
| Fibroadenoma, Multiple | | X | | X | X | | X | X | | X | X | | | X | X | | X | X | | X | | X | X | X |
| Skin | | | + | + | | | | + | | + | | | + | | | | | | + | | | + | | |
| Squamous Cell Papilloma | | | | | | | | | | | | | X | | | | | | | | | | | |
| Subcutaneous Tissue, Lipoma | | | | | | | | | | | | | X | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | + | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Glioma Malignant | | | | | | | | | | | | | | | | | | | | | | X | | |
| Nerve Trigeminal | | | | | | | | | | | | | | | | | | | | | | + | | + |
| Peripheral Nerve, Sciatic | | | | | | | | | | | | | | | | | | | | | | + | | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
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X .. Lesion present
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(cont...) |
|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|----------------------|
| | 0599 | 0479 | 0727 | 0583 | 0687 | 0774 | 0779 | 0777 | 0528 | 0514 | 0475 | 0625 | 0738 | 0666 | 0665 | 0596 | 0556 | 0722 | 0668 | 0378 | 0727 | 0670 | 0663 | 0705 | | |
| | 005729 | 004799 | 007277 | 005833 | 006877 | 007744 | 007799 | 007777 | 005288 | 005144 | 004755 | 006258 | 007388 | 006666 | 006655 | 005966 | 005566 | 007222 | 006688 | 003788 | 007277 | 006700 | 006633 | 007055 | | |
| | 005729 | 004799 | 007277 | 005833 | 006877 | 007744 | 007799 | 007777 | 005288 | 005144 | 004755 | 006258 | 007388 | 006666 | 006655 | 005966 | 005566 | 007222 | 006688 | 003788 | 007277 | 006700 | 006633 | 007055 | | |

Peripheral Nerve, Tibial
 Spinal Cord, Cervical
 Spinal Cord, Lumbar
 Spinal Cord, Thoracic

+
 +
 +
 +

RESPIRATORY SYSTEM

Lung
 Nose
 Trachea

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

SPECIAL SENSES SYSTEM

Ear
 Neural Crest Tumor, Benign

+
 X

URINARY SYSTEM

Kidney
 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

Experiment Number: 10034 - 04
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
CAS Number: 80-05-7

Date Report Requested: 08/16/2017
Time Report Requested: 10:21:03
First Dose M/F: 09/25/12 / 09/25/12
Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 250.0BPA F | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | ANIMAL ID | 5 | 6 | 5 | 4 | 7 | 7 | 5 | 5 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 6 | 2 | 5 | 5 | 6 | 4 | 6 | 6 | 6 | 6 | |
| | | 9 | 1 | 4 | 9 | 0 | 2 | 0 | 8 | 2 | 2 | 5 | 2 | 9 | 2 | 2 | 0 | 6 | 9 | 8 | 7 | 4 | 2 | 5 | 4 | 9 | |
| | | 7 | 8 | 3 | 9 | 8 | 7 | 6 | 3 | 7 | 0 | 7 | 8 | 3 | 8 | 9 | 5 | 2 | 7 | 1 | 1 | 6 | 5 | 2 | 9 | | |
| | | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| | | 2 | 2 | 3 | 3 | 8 | 8 | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 6 | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 36 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | 32 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | 32 |
| Intestine Small, Jejunum
Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Sarcoma, Metastatic, Spleen | | | | | | | | | | | | | | | | | | X | | | | | | | | 1 |
| Yolk Sac Carcinoma, Metastatic, Ovary | X | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Mesentery | + | | | | | | | | | | | | | | | | | | | + | | | | | | 3 |
| Yolk Sac Carcinoma, Metastatic, Ovary | X | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Yolk Sac Carcinoma, Metastatic, Ovary | X | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 36 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 35 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

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First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 250.0BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|----|
| | 0597 | 0618 | 0543 | 0499 | 0708 | 0778 | 0556 | 0553 | 0773 | 0770 | 0578 | 0673 | 0778 | 0779 | 0665 | 0262 | 0597 | 0581 | 0671 | 0466 | | 0665 | 0664 | |
| ANIMAL ID | 0492 | 0499 | 0499 | 0499 | 0698 | 0699 | 0699 | 0699 | 0700 | 0700 | 0700 | 0700 | 0700 | 0701 | 0702 | 0808 | 0808 | 0808 | 0808 | 0808 | 0808 | 0808 | 0808 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Adenoma | | | | | | | | | | | | | | X | | | | | | | | | | 3 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Parathyroid Gland | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Pars Distalis, Adenoma | | | | | X | | | | | X | | X | | X | X | X | | | | | | X | X | 20 |
| Pars Intermedia, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | + | | 1 |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | | + | | | | | | | | + | | | | | + | + | | | | + | | | | 7 |
| Carcinoma | | | | | | | | | | X | | | | | | | | | | | | | | 1 |
| Fibrosarcoma | | | X | | | | | | | | | | | | | | | | | | | | | 1 |

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

M .. Missing tissue
A .. Autolysis precludes evaluation
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RATS FEMALE
F1 250.0BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0597 | 0618 | 0543 | 0499 | 0708 | 0777 | 0555 | 0583 | 0727 | 0770 | 0577 | 0663 | 0788 | 0779 | 0665 | 0222 | 0597 | 0581 | 0661 | 0446 | 0665 | 0664 | |
| ANIMAL ID | 04921 | 04992 | 04993 | 04998 | 06661 | 06662 | 06669 | 06669 | 07700 | 07700 | 07701 | 07702 | 07707 | 07708 | 08881 | 08882 | 08883 | 08888 | 08888 | 08888 | 08888 | 08888 | 08888 |
| Fat Pad, Ovarian/parametrial | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Granulosa Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Yolk Sac Carcinoma | X | | | | | | | | | | | | | | | | | | | | | | 1 |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Polyp Stromal | X | | X | | | | | | | | | | | | | | | | | | | | 2 |
| Yolk Sac Carcinoma, Metastatic, Ovary | X | | | | | | | | | | | | | | | | | | | | | | 1 |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Lymph Node | | + | | | | | | + | + | | | | | | + | | | | | | | | 8 |
| Lymph Node, Mandibular | | + | | | | | | | | | | | | | | | | | | | | | 2 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Sarcoma | | | | | | | | | | | | | | | | | | | X | | | | 1 |
| Yolk Sac Carcinoma, Metastatic, Ovary | X | | | | | | | | | | | | | | | | | | | | | | 1 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
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|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--|
| | 0597 | 0618 | 0543 | 0499 | 0708 | 0777 | 0556 | 0558 | 0783 | 0770 | 0577 | 0663 | 0778 | 0769 | 0625 | 0262 | 0597 | 0581 | 0671 | 0446 | 0625 | 0652 | 0664 | 0669 | | |
| ANIMAL ID | 04921 | 04922 | 04931 | 04932 | 06681 | 06682 | 06691 | 06692 | 06701 | 06702 | 06711 | 06712 | 06721 | 06722 | 06731 | 06732 | 06741 | 06742 | 06751 | 06752 | 06761 | 06762 | 06771 | 06772 | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| Adenocarcinoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibroadenoma | | | | X | | | X | | | | | | | | | | | X | | | | | | | | |
| Fibroadenoma, Multiple | | | X | | X | | | X | X | X | X | X | X | X | X | X | X | | X | | X | X | X | | | |
| Skin | | + | | | | | | + | | | + | + | | | + | | | | | | | | | | | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Lipoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Glioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Nerve Trigeminal | | | | | + | | | | + | + | + | | + | | | | | + | + | + | + | | | 12 | | |
| Peripheral Nerve, Sciatic | | | | | + | | | | + | + | + | | + | | | | | + | + | + | + | | | 12 | | |

* .. 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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| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 250.0BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--|
| | 0597 | 0618 | 0543 | 0499 | 0708 | 0727 | 0556 | 0583 | 0727 | 0727 | 0525 | 0728 | 0623 | 0728 | 0629 | 0265 | 0562 | 0587 | 0661 | 0446 | 0625 | 0652 | 0664 | 0669 | | |
| ANIMAL ID | 04921 | 04922 | 04931 | 04932 | 06681 | 06682 | 06691 | 06692 | 07700 | 07701 | 07710 | 07711 | 07720 | 07721 | 08881 | 08882 | 08883 | 08884 | 08885 | 08886 | 08887 | 08888 | 08889 | 08891 | | |
| Peripheral Nerve, Tibial | | | | + | | | | | + | + | + | | + | | | | | + | + | + | + | | | | 12 | |
| Spinal Cord, Cervical | | | | + | | | | | + | + | + | | + | | | | | + | + | + | + | | | | 12 | |
| Spinal Cord, Lumbar | | | | + | | | | | + | + | + | | + | | | | | + | + | + | + | | | | 12 | |
| Spinal Cord, Thoracic | | | | + | | | | | + | + | + | | + | | | | | + | + | + | + | | | | 12 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | | + | + | | | + | + | | | + | + | + | + | + | + | + | + | + | + | 39 | |
| Nose | + | + | + | + | + | | + | + | | | + | + | | | + | + | + | + | + | + | + | + | + | + | 36 | |
| Trachea | + | + | + | + | + | | + | + | | | + | + | | | A | + | + | + | + | + | + | + | + | + | 34 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ear | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Neural Crest Tumor, Benign | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Urinary Bladder | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
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| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--|-----------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2500.BPA F | | 0613 | 0702 | 0772 | 0422 | 0721 | 0644 | 0546 | 0442 | 0442 | 0552 | 0552 | 0626 | 0264 | 0772 | 0772 | 0772 | 0523 | 0255 | 0586 | 0466 | 0576 | 0677 | 0674 | | |
| | | 0073 | 0073 | 0074 | 0074 | 0075 | 0076 | 0077 | 0077 | 0078 | 0088 | 0088 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | |
| | ANIMAL ID | 731 | 734 | 741 | 772 | 771 | 772 | 771 | 772 | 771 | 772 | 771 | 772 | 771 | 772 | 771 | 772 | 771 | 772 | 771 | 772 | 771 | 772 | 771 | 772 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | | + | + | + | + | + | + | + | + | + | A | + | + | | A | | + | A | + | + | + | + |
| Intestine Small, Ileum | + | + | | + | + | + | | A | + | + | + | + | A | + | + | | A | | A | A | + | + | + | + |
| Intestine Small, Jejunum | | | | | | | | | | | | | | | | | | | | | | | | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | X | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular | + | + | | + | + | + | + | + | + | + | + | + | A | + | + | | A | | + | A | + | + | + | + |

CARDIOVASCULAR SYSTEM

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

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

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Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2500.BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|
| | 0613 | 0702 | 0707 | 0422 | 0722 | 0618 | 0427 | 0542 | 0444 | 0444 | 0545 | 0522 | 0626 | 0279 | 0600 | 0722 | 0722 | 0528 | 0255 | 0544 | | | 0527 | 0645 |
| | 007 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 005 | 005 | 005 | 005 | 005 | 005 |
| | 731 | 733 | 734 | 741 | 742 | 751 | 752 | 761 | 762 | 771 | 772 | 781 | 782 | 791 | 792 | 793 | 794 | 795 | 796 | 797 | 798 | 799 | 790 | 791 |

Fat Pad, Ovarian/parametrial

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Oviduct | + | + | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | A | + | + | + | + |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + |
| Polyp Stromal | | X | | | | | | | | | | | | | | | | | | | | | | X |
| Endometrium, Adenocarcinoma | | | | | | | | X | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | |
| Axillary, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | + |
| Iliac, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X |
| Inguinal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X |
| Pancreatic, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X |
| Renal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Lymph Node, Mandibular | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | + |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X |

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

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

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2500.BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|----------------------|
| | 0613 | 0702 | 0707 | 0426 | 0722 | 0618 | 0447 | 0542 | 0444 | 0444 | 0545 | 0522 | 0626 | 0266 | 0777 | 0772 | 0525 | 0225 | 0558 | 0466 | 0577 | 0677 | 0674 | | |
| ANIMAL ID | 00731 | 00733 | 00734 | 00742 | 00751 | 00752 | 00761 | 00762 | 00771 | 00772 | 00788 | 00788 | 00799 | 00799 | 00799 | 00799 | 00799 | 00799 | 00799 | 00799 | 00799 | 00799 | 00799 | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Nerve Trigeminal | | + | | | | | | | + | | | | | | + | | | + | | + | | | + |
| Peripheral Nerve, Sciatic | | + | | | | | | | + | | | | | | + | | | + | | + | | | + |
| Peripheral Nerve, Tibial | | + | | | | | | | + | | | | | | + | | | + | | + | | | + |
| Spinal Cord, Cervical | | + | | | | | | | + | | | | | | + | | | + | | + | | | + |
| Spinal Cord, Lumbar | | + | | | | | | | + | | | | | | + | | | + | | + | | | + |
| Spinal Cord, Thoracic | | + | | | | | | | + | | | | | | + | | | + | | + | | | + |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung
Lymphoma Malignant | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Nose
Lymphoma Malignant
Osteosarcoma | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + |
| Trachea | + | + | | + | + | + | + | + | + | + | + | + | A | + | + | | + | | + | A | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Eye | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | |

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

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

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

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Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2500.BPA F | DAY ON TEST | 0613 | 0702 | 0722 | 0722 | 0718 | 0747 | 0542 | 0442 | 0442 | 0552 | 0552 | 0622 | 0622 | 0772 | 0772 | 0772 | 0522 | 0522 | 0522 | 0452 | 0452 | 0542 | 0542 | 0672 | 0672 | females
(cont...) |
| | ANIMAL ID | 00731 | 00732 | 00741 | 00742 | 00751 | 00752 | 00761 | 00762 | 00771 | 00772 | 00781 | 00782 | 00791 | 00792 | 00801 | 00802 | 00811 | 00812 | 00821 | 00822 | 00831 | 00832 | 00841 | 00842 | 00851 | |

Adenoma
Carcinoma

URINARY SYSTEM

Kidney
Lymphoma Malignant

+ +

X

SYSTEMIC LESIONS

Multiple Organ
Lymphoma Malignant

+ +

X

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
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 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2500.BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|
| | 04 | 07 | 04 | 06 | 07 | 07 | 07 | 06 | 04 | 06 | 05 | 06 | 06 | 05 | 06 | 04 | 04 | 06 | 07 | 04 | 07 | 07 | 05 | 05 | 05 | |
| ANIMAL ID | 05 | 05 | 05 | 05 | 05 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 09 | 09 | |
| | 00 | 00 | 00 | 00 | 00 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 09 | 09 | 09 | 09 | 09 | 09 | 09 | 09 | 00 | 00 | |
| | 72 | 81 | 82 | 81 | 92 | 91 | 22 | 21 | 33 | 34 | 44 | 55 | 66 | 61 | 22 | 11 | 22 | 11 | 22 | 11 | 22 | 11 | 22 | 00 | 02 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus | + | + | + | + | | | | | | | | | | | | | | | | | | | | | 40 |
| Intestine Large, Colon | + | + | + | + | | | | | | | | | | | | | | | | | | | | | 34 |
| Intestine Small, Ileum | + | + | + | + | | | | | | | | | | | | | | | | | | | | | 32 |
| Intestine Small, Jejunum | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocellular Adenoma | | | | | | X | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Pancreas | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Stomach, Forestomach | + | + | + | + | | | | | | | | | | | | | | | | | | | | | 39 |
| Stomach, Glandular | + | + | + | + | | | | | | | | | | | | | | | | | | | | | 36 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

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 Bisphenol A
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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2500.BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|
| | 04 | 07 | 04 | 06 | 07 | 07 | 07 | 06 | 04 | 06 | 05 | 06 | 06 | 05 | 06 | 04 | 04 | 06 | 07 | 04 | 07 | 07 | 05 | 05 | 05 | |
| ANIMAL ID | 068 | 020 | 071 | 045 | 029 | 025 | 022 | 023 | 039 | 011 | 009 | 007 | 006 | 005 | 006 | 004 | 004 | 006 | 007 | 004 | 007 | 007 | 005 | 005 | 005 | |
| | 007 | 008 | 008 | 009 | 009 | 002 | 002 | 003 | 003 | 004 | 004 | 005 | 006 | 006 | 006 | 007 | 007 | 008 | 007 | 008 | 008 | 009 | 009 | 000 | 000 | |
| | 21 | 22 | 21 | 21 | 22 | 21 | 22 | 23 | 23 | 24 | 24 | 25 | 26 | 26 | 27 | 28 | 28 | 29 | 28 | 29 | 29 | 29 | 29 | 20 | 22 | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pheochromocytoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | | 1 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Adenoma | | | | | | | | | | | | | | | X | | | | | | | | | | | 2 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Pituitary Gland | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Pars Distalis, Adenoma | | X | | X | | X | X | X | | X | | | X | | | | | | X | | | | X | | | 19 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|---|
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Leiomyosarcoma | | | | | | | | | | | | | | | | | | | | | | | | X | | 1 |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--|--|--|--|--|--|--|--|---|--|---|--|--|--|--|--|--|--|--|--|--|--|--|---|--|---|
| Clitoral Gland | | | | | | | | | + | | + | | | | | | | | | | | | | | | 8 |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

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RATS FEMALE
F1 2500.BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|
| | 04 | 07 | 04 | 06 | 07 | 07 | 07 | 06 | 04 | 06 | 05 | 06 | 06 | 05 | 06 | 04 | 04 | 06 | 07 | 04 | 07 | 07 | 05 | 05 | 05 | | |
| ANIMAL ID | 05 | 05 | 05 | 05 | 05 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 09 | 09 | 09 | | |
| Fat Pad, Ovarian/parametrial | | | | | | | | | | | | | | | | | | | | | | | | | | + | 1 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 47 |
| Uterus | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 48 |
| Polyp Stromal | | X | | | | | | | | | | X | | | | | | | | | | | | | | | 4 |
| Endometrium, Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 49 |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Lymph Node | + | | | | | | | | | | | | | | | | | | | | | | | | | + | 4 |
| Axillary, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Iliac, Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Inguinal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pancreatic, Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Renal, Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Lymph Node, Mandibular | + | | | | | | | | | | | | | | | | | | | | | | | | | + | 4 |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |

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

M .. Missing tissue
 A .. Autolysis precludes evaluation
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RATS FEMALE
F1 2500.BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|
| | 04 | 07 | 04 | 06 | 07 | 07 | 07 | 06 | 04 | 06 | 05 | 06 | 06 | 05 | 06 | 04 | 04 | 06 | 07 | 04 | 07 | 07 | 05 | 05 | |
| ANIMAL ID | 06 | 08 | 00 | 01 | 05 | 09 | 05 | 06 | 03 | 09 | 01 | 09 | 07 | 08 | 06 | 00 | 08 | 03 | 09 | 03 | 08 | 07 | 08 | 05 | 06 |
| | 05 | 08 | 00 | 00 | 00 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
| | 07 | 08 | 08 | 09 | 09 | 02 | 02 | 03 | 03 | 04 | 04 | 05 | 06 | 06 | 06 | 07 | 08 | 09 | 09 | 09 | 09 | 08 | 09 | 09 | 00 |
| | 02 | 01 | 02 | 01 | 01 | 02 | 01 | 01 | 02 | 01 | 04 | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 02 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Thymus | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenocarcinoma | | | | | | | X | | | | X | | | X | | | | | | | | | | | 6 |
| Adenocarcinoma, Multiple | | | | | | | | X | | | | | | | | | | | | | | | | | 3 |
| Adenoma | | | | | | X | | | | | | | | | | | | | | X | | | | | 2 |
| Fibroadenoma | | | | | | | | | | X | X | | | X | | X | | | X | | X | | | X | 14 |
| Fibroadenoma, Multiple | | X | | X | X | X | X | X | | | | X | X | | X | X | | | | | | X | | X | 21 |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | X | | 1 |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Skin | + | + | + | | | | | | | | | | | | | + | | | | | + | + | | | 13 |
| Subcutaneous Tissue, Fibrosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Skeletal Muscle | + | | | | | | | | | | | | | | | | | | | | | | | | 1 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2500.BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|--|
| | 04 | 07 | 04 | 06 | 07 | 07 | 07 | 06 | 04 | 06 | 05 | 06 | 06 | 05 | 06 | 04 | 04 | 06 | 07 | 04 | 07 | 07 | 05 | 05 | | 05 | |
| ANIMAL ID | 06 | 02 | 07 | 04 | 02 | 02 | 02 | 03 | 09 | 01 | 09 | 07 | 08 | 06 | 00 | 08 | 03 | 09 | 03 | 08 | 07 | 07 | 08 | 05 | 06 | 02 | |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |
| | 55 | 55 | 55 | 55 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | |
| | 00 | 00 | 00 | 00 | 00 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | |
| | 78 | 88 | 89 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | |
| | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Nerve Trigeminal | + | | | | | | | | + | | | | | | + | | | + | + | | | | | | | 11 | |
| Peripheral Nerve, Sciatic | + | | | | | | | | + | | | | | | + | | | + | + | | | | | | | 11 | |
| Peripheral Nerve, Tibial | + | | | | | | | | + | | | | | | + | | | + | + | | | | | | | 11 | |
| Spinal Cord, Cervical | + | | | | | | | | A | | | | | | + | | | + | + | | | | | | | 10 | |
| Spinal Cord, Lumbar | + | | | | | | | | A | | | | | | + | | | + | + | | | | | | | 10 | |
| Spinal Cord, Thoracic | + | | | | | | | | A | | | | | | + | | | + | + | | | | | | | 10 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Nose | + | + | + | + | | | | | + | A | + | + | + | + | + | + | + | + | + | + | | | | | | 38 | |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Osteosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Trachea | + | + | + | + | | | | | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 37 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | | | | | | | | | | | + | | | | | | + | | | | | | | | 2 | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | + | | | | + | | 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|----|---|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE | 4 | 4 | 7 | 4 | 6 | 7 | 7 | 7 | 6 | 4 | 6 | 5 | 6 | 6 | 5 | 6 | 4 | 4 | 6 | 7 | 4 | 7 | 7 | 5 | 5 | 5 | 5 | 5 | 5 | | | | |
| | 6 | 2 | 7 | 4 | 2 | 2 | 2 | 2 | 3 | 3 | 4 | 4 | 7 | 7 | 0 | 8 | 3 | 9 | 3 | 2 | 5 | 2 | 2 | 9 | 0 | 8 | 8 | 8 | 8 | | | | |
| | 8 | 0 | 1 | 5 | 9 | 5 | 6 | 3 | 9 | 1 | 9 | 7 | 8 | 6 | 0 | 0 | 5 | 0 | 9 | 8 | 7 | 7 | 8 | 5 | 6 | 2 | 2 | 2 | 2 | | | | |
| F1 2500.BPA F | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | | | | |
| | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | | | | |
| | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | | * TOTALS | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 50 | |
| Lymphoma Malignant | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 50 | |
| Lymphoma Malignant | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25000BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|-------|
| | 0686 | 0543 | 0527 | 0763 | 0764 | 0728 | 0556 | 0551 | 0553 | 0558 | 0494 | 0669 | 0772 | 0668 | 0773 | 0777 | 0772 | 0726 | 0771 | 0550 | 0663 | 0669 | 0557 | 0557 | | 0772 |
| ANIMAL ID | 00891 | 00892 | 00901 | 00902 | 00901 | 00902 | 00901 | 00902 | 00901 | 00902 | 00331 | 00332 | 00333 | 00334 | 00335 | 00336 | 00337 | 00338 | 00339 | 00330 | 00552 | 00551 | 00553 | 00554 | 00555 | 00556 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | | + | | | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | | + | | | + | + | + | + | + | + |
| Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Intestine Small, Ileum | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | | + | | | + | + | + | + | + | + |
| Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | | + | | | + | + | + | + | + | + |
| Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | | + | | | + | + | + | + | + | + |
| Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | |

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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25000BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
| | 0686 | 0543 | 0557 | 0763 | 0674 | 0758 | 0551 | 0553 | 0555 | 0464 | 0679 | 0766 | 0668 | 0773 | 0777 | 0722 | 0723 | 0561 | 0666 | 0639 | 0570 | 0577 | 0720 | 0670 | |
| ANIMAL ID | 00891 | 00890 | 00001 | 00002 | 00001 | 00002 | 00001 | 00002 | 00001 | 00002 | 00003 | 00003 | 00003 | 00003 | 00003 | 00003 | 00003 | 00003 | 00005 | 00005 | 00005 | 00005 | 00005 | 00005 | |

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex
Adenoma
Lymphoma Malignant | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adrenal Medulla
Pheochromocytoma Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland
Lymphoma Malignant
Pars Distalis, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thyroid Gland
C-cell, Adenoma | X | | | X | X | | | X | | | X | | X | | X | | | X | X | | 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | |
|--|-----------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25000BPA F | ANIMAL ID | 0686 | 0543 | 0527 | 0703 | 0694 | 0728 | 0556 | 0551 | 0553 | 0558 | 0493 | 0639 | 0722 | 0668 | 0773 | 0770 | 0772 | 0773 | 0566 | 0663 | 0570 | 0570 | 0772 | 0720 | | |
| | | 0089 | 0089 | 0000 | 0000 | 0009 | 0009 | 0009 | 0009 | 0009 | 0009 | 0300 | 0300 | 0300 | 0300 | 0300 | 0300 | 0300 | 0300 | 0300 | 0502 | 0502 | 0502 | 0502 | 0001 | | 0002 |
| | | 1212 | 1212 | 1212 | 1212 | 1212 | 1212 | 1212 | 1212 | 1212 | 1212 | 2323 | 2323 | 2323 | 2323 | 2323 | 2323 | 2323 | 2323 | 2323 | 2323 | 2323 | 2323 | 2323 | 2323 | 2323 | |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Clitoral Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat Pad, Ovarian/parametrial | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oviduct | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyp Stromal | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Bone Marrow | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

M .. Missing tissue
 A .. Autolysis precludes evaluation
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Experiment Number: 10034 - 04
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 Bisphenol A
 CAS Number: 80-05-7

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 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | | |
|--|-----------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------|------|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25000BPA F | ANIMAL ID | 0686 | 0543 | 0527 | 0703 | 0694 | 0728 | 0526 | 0551 | 0553 | 0555 | 0494 | 0639 | 0722 | 0668 | 0763 | 0770 | 0772 | 0753 | 0660 | 0663 | 0570 | 0557 | 0772 | 0720 | | | |
| | | 0089 | 0088 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0300 | 0300 | 0300 | 0300 | 0300 | 0300 | 0300 | 0300 | 0300 | 0502 | 0502 | 0502 | 0502 | 0901 | | 0901 | 0901 |
| | | 11 | 22 | 11 | 22 | 11 | 22 | 11 | 22 | 11 | 22 | 11 | 22 | 11 | 22 | 11 | 22 | 11 | 22 | 11 | 22 | 11 | 22 | 11 | 22 | 11 | 22 | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle
Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Nerve Trigeminal | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Sciatic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Tibial | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Cervical | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Lumbar | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Thoracic | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung
Adenocarcinoma, Metastatic, Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* .. Total animals with tissue examined microscopically; 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25000BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|----------------------|
| | 066 | 054 | 052 | 070 | 069 | 072 | 052 | 055 | 055 | 055 | 043 | 062 | 072 | 066 | 066 | 072 | 077 | 053 | 066 | 063 | 057 | 057 | 072 | 070 | | |
| ANIMAL ID | 00891 | 00891 | 00891 | 00891 | 00891 | 00891 | 00891 | 00891 | 00891 | 00891 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | | |

Histiocytic Sarcoma
 Lymphoma Malignant

X

Nose

+ +

Trachea

+ +

SPECIAL SENSES SYSTEM

Zymbal's Gland
 Carcinoma

+
 X

URINARY SYSTEM

Kidney
 Adenocarcinoma, Metastatic, Uterus
 Lymphoma Malignant

+
 X

Urinary Bladder

+

SYSTEMIC LESIONS

Multiple Organ
 Histiocytic Sarcoma
 Lymphoma Malignant

+
 X

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

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

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25000BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0575 | 0486 | 0611 | 0518 | 0074 | 0772 | 0750 | 0771 | 0526 | 0776 | 0772 | 0456 | 0564 | 0655 | 0772 | 0771 | 0772 | 0772 | 0682 | 0682 | |
| ANIMAL ID | 05232 | 05422 | 05522 | 05522 | 05722 | 07722 | 07722 | 07722 | 07722 | 07722 | 07722 | 07722 | 07722 | 07722 | 07722 | 07722 | 07722 | 07722 | 07722 | 07722 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 38 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 38 |
| Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | X | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | 1 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | 37 |
| Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | X | | 1 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | X | | 1 |
| Histiocytic Sarcoma | | | | | | | | | X | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | 1 |
| Mesentery | | | | | | | | | | | | | + | | | | | | + | + | 3 |
| Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | X | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | X | | 1 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 39 |
| Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | X | | 1 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 38 |
| Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | X | | 1 |

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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25000BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--|
| | 0575 | 0486 | 0611 | 0518 | 0074 | 0772 | 0072 | 0576 | 0776 | 0076 | 0458 | 0564 | 0655 | 0772 | 0771 | 0774 | 0772 | 0931 | 0991 | 0991 | | |

* TOTALS

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| Blood Vessel
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46
1 |
| Heart
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46
1 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Adrenal Cortex
Adenoma
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | 46
2
1 |
| Adrenal Medulla
Pheochromocytoma Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | 46
2 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Pituitary Gland
Lymphoma Malignant
Pars Distalis, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46
1
21 |
| Thyroid Gland
C-cell, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46
2 |

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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25000BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
| | 0575 | 0486 | 0611 | 0511 | 0658 | 0074 | 0778 | 0072 | 0516 | 0776 | 0748 | 0566 | 0665 | 0552 | 0771 | 0772 | 0774 | 0778 | 0668 | 0655 | | |
| | 05 | 05 | 05 | 05 | 05 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 2232 | |
| | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
| Clitoral Gland | | | | | | | | | | | | | | | | | | | | | | 13 |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | 2 |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | 1 |
| Fat Pad, Ovarian/parametrial | | | | | | | | | | | | | | | | | | | | | | 1 |
| Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | 1 |
| Ovary | | | | | | | | | | | | | | | | | | | | | | 46 |
| Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | 1 |
| Oviduct | | | | | | | | | | | | | | | | | | | | | | 46 |
| Uterus | | | | | | | | | | | | | | | | | | | | | | 46 |
| Polyp Stromal | | | | | | | | | | | | | | | | | | | | | | 3 |
| Endometrium, Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | 2 |
| Vagina | | | | | | | | | | | | | | | | | | | | | | 46 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
| Bone Marrow | | | | | | | | | | | | | | | | | | | | | | 46 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | 6 |
| Mediastinal, Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25000BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----|-----------------|
| | 0575 | 0486 | 0611 | 0518 | 0604 | 0707 | 0707 | 0512 | 0706 | 0706 | 0418 | 0504 | 0606 | 0604 | 0505 | 0702 | 0701 | 0704 | 0702 | 0608 | | | |
| | 05 | 05 | 05 | 05 | 05 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 09 | 09 | 09 | 09 | 09 | 0522 | | |
| | 232 | 244 | 244 | 255 | 255 | 266 | 266 | 277 | 277 | 288 | 288 | 299 | 299 | 200 | 200 | 211 | 211 | 211 | 222 | 222 | 222 | | |
| | 21 | 21 | 22 | 21 | 22 | 21 | 22 | 21 | 22 | 21 | 22 | 21 | 22 | 21 | 22 | 21 | 22 | 21 | 22 | 21 | 22 | 22 | * TOTALS |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|----|---|
| Lymph Node, Mandibular | | | | | | | | | | | | | | | | | | | | | | | 6 | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymph Node, Mesenteric | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 46 | |
| Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Thymus | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 45 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 1 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|----|----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 46 | |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Adenocarcinoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Adenosquamous Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Fibroadenoma | | | | | | | | | | | | | | | | | | | | | | | | 7 |
| Fibroadenoma, Multiple | X | | X | X | X | | X | | X | X | | X | X | | X | X | | X | X | X | | | 31 | |
| Skin | + | + | + | | + | | + | + | | + | | | | + | | | | | | | | | | 17 |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Subcutaneous Tissue, Fibrosarcoma | | | | | | | | | | | | | | | | | | | | | | | | 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: 10034 - 04
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 Species/Strain: RATS/Sprague Dawley (NCTR)

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 Bisphenol A
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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25000BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| | 055232 | 045541 | 065542 | 055521 | 065522 | 007722 | 077722 | 057722 | 077722 | 047722 | 057722 | 066622 | 066622 | 055522 | 077722 | 077722 | 077722 | 077722 | 066622 | 066622 | |
| ANIMAL ID | 055232 | 045541 | 065542 | 055521 | 065522 | 007722 | 077722 | 057722 | 077722 | 047722 | 057722 | 066622 | 066622 | 055522 | 077722 | 077722 | 077722 | 077722 | 066622 | 066622 | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | + | 1 |
| Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | X | 1 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Nerve Trigeminal | | | + | | + | | + | | | | | | | | | | | | | | | 6 |
| Peripheral Nerve, Sciatic | | | + | | + | | + | | | | | | | | | | | | | | | 6 |
| Peripheral Nerve, Tibial | | | + | | + | | + | | | | | | | | | | | | | | | 6 |
| Spinal Cord, Cervical | | | + | | + | | + | | | | | | | | | | | | | | | 6 |
| Spinal Cord, Lumbar | | | + | | + | | + | | | | | | | | | | | | | | | 6 |
| Spinal Cord, Thoracic | | | + | | + | | + | | | | | | | | | | | | | | | 6 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 42 |
| Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | 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: 10034 - 04
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Route: GAVAGE
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 Bisphenol A
CAS Number: 80-05-7

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Lab: NCTR

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--------------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|
| DAY ON TEST | | 5 | 4 | 6 | 5 | 6 | 0 | 7 | 7 | 5 | 7 | 7 | 4 | 5 | 6 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | |
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE | | 7 | 8 | 1 | 1 | 5 | 4 | 2 | 0 | 1 | 2 | 1 | 6 | 2 | 6 | 5 | 5 | 2 | 1 | 2 | 2 | 2 | |
| F1 25000BPA F | | 5 | 6 | 6 | 6 | 1 | 8 | 4 | 8 | 2 | 6 | 6 | 0 | 8 | 4 | 6 | 4 | 5 | 0 | 1 | 4 | 8 | |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | | 3 | 4 | 4 | 4 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | | |
| Histiocytic Sarcoma | | X | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Nose | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 38 | |
| Trachea | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 38 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Carcinoma | | X | | | | | | | | | | | | | | | | | | | | 2 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | |
| Adenocarcinoma, Metastatic, Uterus | | X | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Urinary Bladder | | | | | | | | | | | | | | | | | | | | | | 1 | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | |
| Histiocytic Sarcoma | | X | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | 1 | |

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | females
(cont...) |
|--------------------------------------|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE | F1 0.05 EE2 F | 6 | 6 | 6 | 5 | 5 | 4 | 7 | 7 | 7 | 4 | 6 | 6 | 7 | 4 | 7 | 4 | 5 | 4 | 5 | 4 | 5 | 5 | 7 | 5 | 6 | 6 | | |
| | | 7 | 5 | 8 | 9 | 1 | 9 | 2 | 2 | 2 | 9 | 1 | 4 | 2 | 8 | 2 | 6 | 1 | 4 | 8 | 8 | 0 | 5 | 2 | 3 | 6 | 7 | | |
| ANIMAL ID | | 3 | 9 | 6 | 3 | 8 | 8 | 9 | 9 | 5 | 1 | 5 | 3 | 9 | 6 | 5 | 1 | 2 | 4 | 0 | 5 | 6 | 1 | 5 | 0 | 7 | 6 | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | | | | | + | + | + | | | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Colon | + | + | + | + | + | + | | | | | + | + | + | | | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Ileum | + | + | + | + | + | + | | | | | + | + | + | | | + | + | + | + | + | + | + | + | + | + | + | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Sarcoma, Metastatic, Uncertain Primary Site | | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | + | | | | | | | | | | + | | | | | | | | | | | | | | | |
| Sarcoma, Metastatic, Uncertain Primary Site | | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach | + | + | + | + | + | + | | | | | + | + | + | | | + | + | + | + | + | + | + | + | + | + | + | |
| Stomach, Glandular | + | + | + | + | + | + | | | | | + | + | + | | | + | + | + | + | + | + | + | + | + | + | + | |

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

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

* .. Total animals with tissue examined microscopically; 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 0.05 EE2 F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0673 | 0675 | 0678 | 0679 | 0671 | 0679 | 0672 | 0672 | 0672 | 0679 | 0675 | 0671 | 0675 | 0673 | 0679 | 0676 | 0674 | 0675 | 0674 | 0675 | 0674 | 0675 | 0675 | 0677 | 0675 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 |
| | 3 | 3 | 4 | 4 | 5 | 5 | 9 | 9 | 0 | 0 | 1 | 1 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 | 1 | 1 | 1 | 1 | 2 |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pheochromocytoma Benign | X | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland Pars Distalis, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thyroid Gland | X | | X | | X | X | X | | X | | | | X | | | | | | X | | | | | | | X | |
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Tissue NOS Fibrosarcoma, Metastatic, Skin Sarcoma | + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary Sarcoma, Metastatic, Uncertain Primary Site Tubulostromal Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Uterus Polyp Stromal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | females
(cont...) | |
|--------------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|--|
| DAY ON TEST | | 6 | 6 | 6 | 5 | 5 | 4 | 7 | 7 | 7 | 4 | 6 | 6 | 7 | 4 | 7 | 4 | 5 | 4 | 5 | 4 | 5 | 5 | 7 | 5 | 6 | | | |
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE | | 7 | 5 | 8 | 9 | 1 | 9 | 2 | 2 | 2 | 9 | 1 | 4 | 2 | 8 | 2 | 6 | 1 | 4 | 8 | 8 | 0 | 5 | 2 | 3 | 6 | | | |
| F1 0.05 EE2 F | | 3 | 9 | 6 | 3 | 8 | 8 | 9 | 9 | 5 | 1 | 5 | 3 | 9 | 6 | 5 | 1 | 2 | 4 | 0 | 5 | 6 | 1 | 5 | 0 | 7 | 6 | | |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 8 | 1 | 1 | 2 | |
| | | 3 | 3 | 4 | 4 | 5 | 5 | 9 | 9 | 0 | 0 | 1 | 1 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 8 | 8 | 1 | 1 | 1 | 1 | 2 | | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | | |

Vagina +

HEMATOPOIETIC SYSTEM

Bone Marrow +
 Lymph Node +
 Lymph Node, Mesenteric +
 Spleen +
 Thymus +

INTEGUMENTARY SYSTEM

Mammary Gland +
 Adenocarcinoma X +
 Fibroadenoma X +
 Fibroadenoma, Multiple X X +
 Sarcoma X +
 Skin +
 Subcutaneous Tissue, Fibrosarcoma X +

MUSCULOSKELETAL SYSTEM

Bone, Femur +

NERVOUS SYSTEM

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 0.05 EE2 F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|------|--|
| | 0673 | 0675 | 0678 | 0589 | 0581 | 0492 | 0772 | 0772 | 0772 | 0491 | 0665 | 0664 | 0722 | 0488 | 0722 | 0461 | 0512 | 0444 | 0548 | 0488 | 0506 | 0551 | 0572 | 0533 | | 0667 | |
| ANIMAL ID | 01031 | 01132 | 01141 | 01142 | 01151 | 01162 | 01333 | 01333 | 01333 | 01333 | 01333 | 01355 | 01355 | 01355 | 01355 | 01355 | 01355 | 01377 | 01377 | 01377 | 01377 | 01399 | 01399 | 01399 | 01399 | | |
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Nerve Trigeminal | | | + | | | | | | | | | | | | | | | | | + | | | | + | + | | |
| Peripheral Nerve, Sciatic | | | + | | | | | | | | | | | | | | | | | | + | | | | + | + | |
| Peripheral Nerve, Tibial | | | + | | | | | | | | | | | | | | | | | | + | | | | + | + | |
| Spinal Cord, Cervical | | | + | | | | | | | | | | | | | | | | | | + | | | | + | + | |
| Spinal Cord, Lumbar | | | + | | | | | | | | | | | | | | | | | | + | | | | + | + | |
| Spinal Cord, Thoracic | | | + | | | | | | | | | | | | | | | | | | + | | | | + | + | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | | | | | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | |
| Sarcoma, Metastatic, Uncertain Primary Site | | | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | | | | | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | |
| Trachea | + | + | + | + | + | + | | | | | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | | + | |

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
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 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 0.05 EE2 F | DAY ON TEST | 063 | 069 | 066 | 053 | 058 | 048 | 079 | 072 | 072 | 042 | 061 | 063 | 074 | 048 | 072 | 046 | 051 | 044 | 058 | 048 | 050 | 055 | 072 | 053 | 066 | females
(cont...) |
| | ANIMAL ID | 01031 | 01032 | 01034 | 01035 | 01036 | 01037 | 01038 | 01039 | 01040 | 01041 | 01042 | 01043 | 01044 | 01045 | 01046 | 01047 | 01048 | 01049 | 01050 | 01051 | 01052 | 01053 | 01054 | 01055 | 01056 | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Sarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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

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Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | | |
|---|-------------|---|-----------------|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 0.05 EE2 F | DAY ON TEST | 0 | |
| | | 7 | |
| | | 2 | |
| | | 9 | |
| | ANIMAL ID | 0 | |
| | | 9 | |
| | | 2 | |
| | | 2 | |
| | | 2 | * TOTALS |

ALIMENTARY SYSTEM

| | | |
|---|---|----|
| Esophagus | | 19 |
| Intestine Large, Colon | | 19 |
| Intestine Small, Ileum | | 19 |
| Liver | + | 26 |
| Sarcoma, Metastatic, Uncertain Primary Site | | 1 |
| Mesentery | | 2 |
| Sarcoma, Metastatic, Uncertain Primary Site | | 1 |
| Pancreas | + | 26 |
| Stomach, Forestomach | | 19 |
| Stomach, Glandular | | 19 |

CARDIOVASCULAR SYSTEM

| | | |
|--------------|---|----|
| Blood Vessel | + | 26 |
| Heart | + | 26 |

ENDOCRINE SYSTEM

| | | |
|-----------------|---|----|
| Adrenal Cortex | + | 26 |
| Adrenal Medulla | + | 26 |

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

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Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 0.05 EE2 F | | DAY ON TEST | ANIMAL ID | * TOTALS |
|---|---|-------------|-----------|----------|
| | | 0 | 0 | |
| | | 7 | 9 | |
| | | 2 | 2 | |
| | | 9 | 2 | |
| | | | 2 | |
| | | | 2 | |
| | | | 2 | |
| | | | | |
| Pheochromocytoma Benign | | | | 1 |
| Islets, Pancreatic | + | | | 26 |
| Adenoma | | | | 1 |
| Parathyroid Gland | + | | | 26 |
| Pituitary Gland | + | | | 26 |
| Pars Distalis, Adenoma | | | | 10 |
| Thyroid Gland | + | | | 26 |
| GENERAL BODY SYSTEM | | | | |
| Tissue NOS | | | | 2 |
| Fibrosarcoma, Metastatic, Skin | | | | 1 |
| Sarcoma | | | | 1 |
| GENITAL SYSTEM | | | | |
| Clitoral Gland | + | | | 2 |
| Ovary | + | | | 26 |
| Sarcoma, Metastatic, Uncertain Primary Site | | | | 1 |
| Tubulostromal Adenoma | | | | 1 |
| Oviduct | + | | | 26 |
| Uterus | + | | | 26 |
| Polyp Stromal | | | | 3 |

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 0.05 EE2 F | | DAY ON TEST | ANIMAL ID | * TOTALS |
|---|---|-------------|-----------|----------|
| | | 0 | 0 | |
| | | 7 | 9 | |
| | | 2 | 2 | |
| | | 9 | 2 | |
| Vagina | + | | | 26 |
| HEMATOPOIETIC SYSTEM | | | | |
| Bone Marrow | + | | | 26 |
| Lymph Node | | | | 4 |
| Lymph Node, Mesenteric | | | | 1 |
| Spleen | + | | | 26 |
| Thymus | + | | | 26 |
| INTEGUMENTARY SYSTEM | | | | |
| Mammary Gland | + | | | 26 |
| Adenocarcinoma | | | | 2 |
| Fibroadenoma | | | | 7 |
| Fibroadenoma, Multiple | X | | | 11 |
| Sarcoma | | | | 1 |
| Skin | + | | | 9 |
| Subcutaneous Tissue, Fibrosarcoma | | | | 1 |
| MUSCULOSKELETAL SYSTEM | | | | |
| Bone, Femur | + | | | 26 |
| NERVOUS SYSTEM | | | | |

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

M .. Missing tissue
 A .. Autolysis precludes evaluation
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 CAS Number: 80-05-7

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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 0.05 EE2 F | | DAY ON TEST | |
|---|---|-------------|-----------------|
| | | ANIMAL ID | |
| | | 0 | |
| | | 7 | |
| | | 2 | |
| | | 9 | |
| | | 0 | |
| | | 9 | |
| | | 2 | |
| | | 2 | |
| | | 2 | |
| | | | * TOTALS |
| Brain, Brain Stem | + | | 26 |
| Brain, Cerebellum | + | | 26 |
| Brain, Cerebrum | + | | 26 |
| Nerve Trigeminal | + | | 5 |
| Peripheral Nerve, Sciatic | + | | 5 |
| Peripheral Nerve, Tibial | + | | 5 |
| Spinal Cord, Cervical | + | | 5 |
| Spinal Cord, Lumbar | + | | 5 |
| Spinal Cord, Thoracic | + | | 5 |
| RESPIRATORY SYSTEM | | | |
| Lung | | | 21 |
| Sarcoma, Metastatic, Uncertain Primary Site | | | 1 |
| Nose | | | 19 |
| Trachea | | | 19 |
| SPECIAL SENSES SYSTEM | | | |
| Zymbal's Gland | | | 1 |

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 + .. Tissue examined microscopically
 X .. Lesion present
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M .. Missing tissue
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 Test Type: CHRONIC
 Route: GAVAGE
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 Bisphenol A
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 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | | |
|---|-------------|---|-----------------|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 0.05 EE2 F | DAY ON TEST | 0 | |
| | | 7 | |
| | | 2 | |
| | | 9 | |
| | ANIMAL ID | 0 | |
| | | 9 | |
| | | 2 | |
| | | 2 | |
| | | 2 | |
| | | | * TOTALS |

URINARY SYSTEM

| | | |
|---|---|----|
| Kidney | + | 26 |
| Sarcoma, Metastatic, Uncertain Primary Site | | 1 |
| Urinary Bladder | | 1 |

SYSTEMIC LESIONS

| | | |
|----------------|---|----|
| Multiple Organ | + | 26 |
|----------------|---|----|

* .. 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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 0.50 EE2 F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
| | 0712 | 0632 | 0530 | 0590 | 0489 | 0583 | 0556 | 0671 | 0726 | 0463 | 0598 | 0558 | 0633 | 0598 | 0658 | 0753 | 0771 | 0770 | 0472 | 0572 | 0554 | 0721 | 0678 | 0361 | |
| ANIMAL ID | 0111 | 0111 | 0111 | 0111 | 0111 | 0133 | 0133 | 0133 | 0133 | 0133 | 0133 | 0155 | 0155 | 0155 | 0155 | 0155 | 0177 | 0177 | 0177 | 0177 | 0199 | 0199 | 0199 | | |
| | 51 | 52 | 61 | 62 | 71 | 72 | 11 | 12 | 21 | 22 | 31 | 32 | 44 | 47 | 88 | 81 | 22 | 11 | 22 | 11 | 22 | 66 | 99 | 01 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | | + | + | + | + | + | | + | + | | + | + | + | | + | + | |
| Intestine Large, Colon | + | + | A | + | + | + | + | + | | + | + | + | + | + | + | | + | + | | + | + | + | | + | + |
| Intestine Small, Duodenum | | | | | | | | | | + | | | | | | | | | | | | | | | |
| Intestine Small, Ileum | + | + | A | + | + | + | + | + | | + | + | + | A | + | + | | + | + | | + | A | + | | + | A |
| Intestine Small, Jejunum
Adenocarcinoma | | | | | | | | | | + | | | | + | | | | | | | | | | | |
| Liver
Hepatocellular Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery | | + | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | | + | + | + | + | + | + | | + | + | | + | + | + | | + | + |
| Stomach, Glandular | + | + | + | + | + | + | + | + | | + | + | + | + | + | + | | + | + | | + | + | + | | + | A |
| Tongue | | | + | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

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

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

M .. Missing tissue
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 Test Type: CHRONIC
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 Species/Strain: RATS/Sprague Dawley (NCTR)

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 Bisphenol A
 CAS Number: 80-05-7

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 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 0.50 EE2 F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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2
9
1 | 0
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2
9
0 | 0
9
3
9
1 |

Heart +

ENDOCRINE SYSTEM

Adrenal Cortex Adenoma + + + + + + + + + + X + + + + + + + + + + + + + + + + +

Adrenal Medulla Pheochromocytoma Benign + + + + + + + + + + X + + + + + + + + + + + + + + + + +

Islets, Pancreatic +

Parathyroid Gland +

Pituitary Gland Pars Distalis, Adenoma +
 Pars Distalis, Carcinoma X

Thyroid Gland C-cell, Adenoma + + + + + + + + + + + + A + + + + + + + + + + + + + + + +

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland Adenoma + + + + X + + X

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

M .. Missing tissue
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 BLANK .. Not examined microscopically

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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 0.50 EE2 F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|------|------|------|
| | 0712 | 0632 | 0530 | 0590 | 0489 | 0583 | 0556 | 0671 | 0726 | 0463 | 0598 | 0552 | 0553 | 0663 | 0598 | 0728 | 0553 | 0771 | 0773 | 0487 | | | 0572 | 0554 | 0741 | 0727 | 0678 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Polyp Stromal | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cervix, Squamous Cell Carcinoma | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymph Node | | | + | | + | | | | | | | | | | | + | | | | | | | | | | | |
| Lymph Node, Mandibular | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Thymoma Malignant, Metastatic, Thymus | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Epithelial Cell, Thymoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Adenocarcinoma | X | | | | X | X | | | | X | | | | | | | | | | X | | | | | | | |
| Adenocarcinoma, Multiple | | | X | | | | | | | X | | | | | | | | | | X | | | | X | | | |
| Fibroadenoma | | | | 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

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 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 0.50 EE2 F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|----------------------|
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| ANIMAL ID | 0
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2
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0 | 0
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1 | | |
| Fibroadenoma, Multiple | X | | | | | | | | X | | | | | X | | | | X | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | | + | | | | | | | | | | | | | | | | | + | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle
Rhabdomyosarcoma | | | | | | | | | | | | | | | + | | | | | | | | | | | | + |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem
Carcinoma, Deep Invasion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Brain, Cerebrum
Granular Cell Tumor Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Nerve Trigeminal | | | | | | | | + | | + | | | | | | | | | | | | | | | | | + |
| Peripheral Nerve, Sciatic | | | | | | | | + | | + | | | | | | | | | | | | | | | | | + |
| Peripheral Nerve, Tibial | | | | | | | | + | | + | | | | | | | | | | | | | | | | | + |
| Spinal Cord, Cervical | | | | | | | | + | | + | | | | | | | | | | | | | | | | | + |
| Spinal Cord, Lumbar | | | | | | | | + | | + | | | | | | | | | | | | | | | | | + |

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

M .. Missing tissue
 A .. Autolysis precludes evaluation
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Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 0.50 EE2 F | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | | 7 | 6 | 5 | 5 | 4 | 5 | 5 | 6 | 7 | 4 | 5 | 5 | 5 | 6 | 5 | 7 | 5 | 7 | 7 | 4 | 5 | 5 | 7 | 6 | 3 | 7 | 6 | 3 | 7 | 6 | 3 | 7 | 6 | 3 | | |
| | ANIMAL ID | 1 | 3 | 3 | 9 | 8 | 8 | 2 | 1 | 2 | 6 | 9 | 2 | 3 | 3 | 9 | 2 | 5 | 1 | 3 | 8 | 7 | 4 | 1 | 2 | 7 | 8 | 6 | 1 | 8 | 6 | 1 | 8 | 6 | 1 | | |
| | | 2 | 2 | 0 | 0 | 9 | 3 | 6 | 7 | 6 | 3 | 8 | 8 | 0 | 8 | 8 | 3 | 7 | 0 | 7 | 2 | 1 | 7 | 2 | 8 | 8 | 1 | 8 | 1 | 8 | 1 | 8 | 1 | 8 | 1 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| | | 5 | 5 | 6 | 6 | 7 | 7 | 1 | 1 | 2 | 2 | 3 | 7 | 8 | 8 | 9 | 9 | 9 | 9 | 5 | 5 | 6 | 6 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |

females
(cont...)

Spinal Cord, Thoracic

+ + + + +

RESPIRATORY SYSTEM

Lung +

Nose +

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

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney +

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | | |
|---|-------------|-----------------------|-----------------|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 0.50 EE2 F | DAY ON TEST | 0
6
1
1 | |
| | ANIMAL ID | 0
9
3
0
2 | |
| | | | * TOTALS |

ALIMENTARY SYSTEM

| | | |
|---------------------------|---|----|
| Esophagus | + | 22 |
| Intestine Large, Colon | + | 21 |
| Intestine Small, Duodenum | | 1 |
| Intestine Small, Ileum | + | 18 |
| Intestine Small, Jejunum | | 2 |
| Adenocarcinoma | | 1 |
| Liver | + | 26 |
| Hepatocellular Adenoma | X | 1 |
| Mesentery | | 1 |
| Pancreas | + | 26 |
| Stomach, Forestomach | + | 22 |
| Stomach, Glandular | + | 21 |
| Tongue | | 1 |

CARDIOVASCULAR SYSTEM

| | | |
|--------------|---|----|
| Blood Vessel | + | 26 |
|--------------|---|----|

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

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 Lab: NCTR

| | | |
|---|---|-----------------|
| DAY ON TEST
SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 0.50 EE2 F | 0 | |
| | 6 | |
| ANIMAL ID | 1 | |
| | 1 | |
| | 0 | |
| | 9 | |
| | 3 | |
| | 0 | |
| | 2 | |
| | | * TOTALS |

| | | |
|-------|---|-----------|
| Heart | + | 26 |
|-------|---|-----------|

ENDOCRINE SYSTEM

| | | |
|--------------------------|---|-----------|
| Adrenal Cortex | + | 26 |
| Adenoma | | 1 |
| Adrenal Medulla | + | 26 |
| Pheochromocytoma Benign | | 2 |
| Islets, Pancreatic | + | 26 |
| Parathyroid Gland | + | 26 |
| Pituitary Gland | + | 26 |
| Pars Distalis, Adenoma | | 17 |
| Pars Distalis, Carcinoma | X | 3 |
| Thyroid Gland | + | 25 |
| C-cell, Adenoma | X | 2 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | |
|----------------|--|----------|
| Clitoral Gland | | 6 |
| Adenoma | | 2 |

* .. 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: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 0.50 EE2 F | | DAY ON TEST | ANIMAL ID | * TOTALS |
|---|---|-------------|-----------|----------|
| | | 0 | 0 | |
| | | 6 | 9 | |
| | | 1 | 3 | |
| | | 1 | 0 | |
| | | | 2 | |
| Ovary | + | | | 26 |
| Oviduct | + | | | 26 |
| Uterus | + | | | 26 |
| Polyp Stromal | | | | 1 |
| Cervix, Squamous Cell Carcinoma | | | | 1 |
| Vagina | + | | | 26 |
| HEMATOPOIETIC SYSTEM | | | | |
| Bone Marrow | + | | | 26 |
| Lymph Node | | | | 3 |
| Lymph Node, Mandibular | | | | 1 |
| Spleen | + | | | 26 |
| Thymoma Malignant, Metastatic, Thymus | | | | 1 |
| Thymus | + | | | 26 |
| Epithelial Cell, Thymoma Malignant | | | | 1 |
| INTEGUMENTARY SYSTEM | | | | |
| Mammary Gland | + | | | 26 |
| Adenocarcinoma | X | | | 6 |
| Adenocarcinoma, Multiple | | | | 4 |
| Fibroadenoma | | | | 10 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
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M .. Missing tissue
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Bisphenol A

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Lab: NCTR

| | | | |
|--|-------------|-----------------------|-----------------|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 0.50 EE2 F | DAY ON TEST | 0
6
1
1 | |
| | ANIMAL ID | 0
9
3
0
2 | |
| | | | * TOTALS |

Fibroadenoma, Multiple

4

Skin

9

MUSCULOSKELETAL SYSTEM

Bone, Femur

+

26

Skeletal Muscle

3

Rhabdomyosarcoma

1

NERVOUS SYSTEM

Brain, Brain Stem

+

26

Carcinoma, Deep Invasion

X

3

Brain, Cerebellum

+

26

Brain, Cerebrum

+

26

Granular Cell Tumor Benign

1

Nerve Trigeminal

4

Peripheral Nerve, Sciatic

4

Peripheral Nerve, Tibial

4

Spinal Cord, Cervical

4

Spinal Cord, Lumbar

4

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+ .. Tissue examined microscopically
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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 0.50 EE2 F | | DAY ON TEST | ANIMAL ID | |
|---|--|-------------|-----------|-----------------|
| | | 0 | | |
| | | 6 | | |
| | | 1 | | |
| | | 1 | | |
| | | 0 | | |
| | | 9 | | |
| | | 3 | | |
| | | 0 | | |
| | | 2 | | |
| | | | | * TOTALS |
| Spinal Cord, Thoracic | | | | 4 |
| RESPIRATORY SYSTEM | | | | |
| Lung | | | | 22 |
| Nose | | | | 22 |
| Trachea | | | | 20 |
| SPECIAL SENSES SYSTEM | | | | |
| NONE | | | | |
| URINARY SYSTEM | | | | |
| Kidney | | | | 26 |
| SYSTEMIC LESIONS | | | | |
| Multiple Organ | | | | 26 |

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 + .. Tissue examined microscopically
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 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 Veh. StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 3 | 6 | 5 | 5 | 5 | 6 | 4 | 7 | 5 | 7 | 6 | 7 | 6 | 6 | 5 | 5 | 7 | 4 | 4 | 7 | 6 | 6 | 5 | 6 | 7 | 8 | |
| | 8 | 0 | 9 | 2 | 0 | 5 | 9 | 2 | 8 | 2 | 7 | 0 | 2 | 6 | 1 | 7 | 0 | 9 | 6 | 0 | 3 | 3 | 0 | 8 | 2 | 8 | |
| | 6 | 3 | 5 | 0 | 0 | 2 | 9 | 5 | 3 | 6 | 8 | 0 | 9 | 3 | 5 | 0 | 8 | 3 | 9 | 8 | 7 | 5 | 3 | 2 | 8 | 8 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | |
| | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | | |
| | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 1 | 1 | 2 | 2 | 3 | | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum
Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liver | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Oral Mucosa
Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart
Schwannoma Benign | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + |

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

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Bisphenol A

Time Report Requested: 10:21:03

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CAS Number: 80-05-7

First Dose M/F: 09/25/12 / 09/25/12

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|---|
| DAY ON TEST | | 0
3
8
6 | 0
6
0
3 | 0
5
9
5 | 0
5
2
0 | 0
6
5
0 | 0
4
9
2 | 0
7
2
5 | 0
5
8
3 | 0
7
2
6 | 0
6
0
8 | 0
6
2
9 | 0
6
6
3 | 0
5
1
5 | 0
5
7
0 | 0
4
9
3 | 0
4
6
9 | 0
7
0
8 | 0
6
3
7 | 0
6
3
5 | 0
5
0
3 | 0
6
8
2 | 0
7
2
8 | females
(cont...) | |
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 Veh. StDose F | | 0
1
2
9
1 | 0
1
2
0
2 | 0
1
3
0
1 | 0
1
3
1
1 | 0
1
3
1
2 | 0
1
3
1
2 | 0
1
3
1
2 | 0
1
3
3
5 | 0
3
3
4
5 | 0
3
4
4
6 | 0
3
4
4
7 | 0
3
4
4
8 | 0
3
4
4
1 | 0
3
4
4
2 | 0
3
4
4
1 | 0
3
4
4
2 | 0
3
4
4
1 | 0
5
6
9
1 | 0
5
6
9
1 | 0
5
6
9
2 | 0
5
6
6
2 | 0
5
2
2
1 | | |
| ANIMAL ID | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 |
| | | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | | 6 |

ENDOCRINE SYSTEM

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

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Tissue NOS
Lipoma | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | + | | | | | | | | | | | | | | | | | | |
| | | | | | | X | | | | | | | | | | | | | | | | | | |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Clitoral Gland
Adenoma
Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary
Granulosa Cell Tumor Benign | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
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Species/Strain: RATS/Sprague Dawley (NCTR)

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Bisphenol A

CAS Number: 80-05-7

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Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 Veh. StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------|----------------------|
| | 0
3
8
6 | 0
6
0
3 | 0
5
9
5 | 0
5
2
0 | 0
5
0
0 | 0
6
9
2 | 0
4
9
5 | 0
7
2
9 | 0
5
8
3 | 0
7
2
6 | 0
6
7
0 | 0
6
2
9 | 0
6
6
3 | 0
5
1
5 | 0
5
7
0 | 0
7
0
8 | 0
4
9
3 | 0
4
6
9 | 0
7
0
8 | 0
6
3
7 | 0
6
3
5 | 0
5
0
3 | 0
6
8
2 | 0
7
2
8 | | | |
| | 0
1
2
9
1 | 0
1
2
9
2 | 0
1
3
0
1 | 0
1
3
0
2 | 0
1
3
1
1 | 0
1
3
1
2 | 0
1
3
2
1 | 0
1
3
2
2 | 0
1
3
3
1 | 0
1
3
3
2 | 0
3
4
5
1 | 0
3
4
5
2 | 0
3
4
6
1 | 0
3
4
7
2 | 0
3
4
7
1 | 0
3
4
8
2 | 0
3
4
8
1 | 0
3
4
8
2 | 0
3
4
9
1 | 0
3
4
9
2 | 0
5
6
9
1 | 0
5
6
9
2 | 0
5
6
9
1 | 0
5
6
9
2 | 0
5
6
9
1 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Oviduct | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Uterus | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Polyp Stromal | | | X | | | | | | | | | X | | | | | | | | | X | | | | |
| Endometrium, Adenocarcinoma | | | | | | | | | | | | | | | | X | | | | | | | | | |
| Vagina | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node | | + | | | | + | | | | | | + | + | | | | | | | | | | + | | |
| Lymph Node, Mandibular | | + | | | | | | | | | | | | | | | | | | | | | | + | |
| Spleen | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thymus | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thymoma Benign | | | | | | | | | | | | | | | | | | | | | | | X | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma | | | | | | | | | | | X | | | | | | | | | | | | | X | |
| Adenocarcinoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenoma | | | | | | | | | | | | | | | X | | | | | | | | | | |
| Fibroadenoma | X | X | | | | | X | | X | | | | | X | | X | | | | | X | | | X | |
| Fibroadenoma, Multiple | | | X | X | X | X | | X | | | X | X | X | | | | | X | X | X | | X | X | | X |
| Fibroma | | | | | | | | | X | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
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Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE | | 3 | 6 | 5 | 5 | 5 | 6 | 4 | 7 | 5 | 7 | 6 | 7 | 6 | 6 | 5 | 5 | 7 | 4 | 4 | 7 | 6 | 6 | 5 | 6 | 7 | 8 | |
| | | 8 | 0 | 9 | 2 | 0 | 5 | 9 | 2 | 8 | 2 | 7 | 0 | 2 | 6 | 1 | 7 | 0 | 9 | 6 | 0 | 3 | 3 | 0 | 8 | 2 | 8 | |
| | | 6 | 3 | 5 | 0 | 0 | 2 | 9 | 5 | 3 | 6 | 8 | 0 | 9 | 3 | 5 | 0 | 8 | 3 | 9 | 8 | 7 | 5 | 3 | 2 | 8 | | |
| F1 Veh. StDose F | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | ANIMAL ID | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 5 | 5 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | |

females
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|--|--|--|--|---|---|--|--|--|--|--|--|---|---|--|--|--|--|--|--|---|---|--|--|--|--|--|
| Skin | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basal Cell Adenoma | | | | | + | + | | | | | | | + | + | | | | | | | + | + | | | | | |
| Squamous Cell Papilloma | | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Lipoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vertebra, Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Brain, Brain Stem | | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Brain, Cerebellum | | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Brain, Cerebrum | | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Nerve Trigeminal | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Sciatic | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Tibial | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Cervical | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Lumbar | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
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 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | | |
|--|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|---|---|---|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 Veh. StDose F | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | | |
| | | 3 | 6 | 5 | 5 | 5 | 6 | 4 | 7 | 5 | 7 | 6 | 7 | 6 | 6 | 5 | 5 | 7 | 4 | 4 | 7 | | 6 | 6 | 5 | 6 |
| | | 8 | 0 | 9 | 2 | 0 | 5 | 9 | 2 | 8 | 2 | 7 | 0 | 2 | 6 | 1 | 7 | 0 | 9 | 6 | 0 | 3 | 3 | 0 | 8 | 2 |
| | | 6 | 3 | 5 | 0 | 0 | 2 | 9 | 5 | 3 | 6 | 8 | 0 | 9 | 3 | 5 | 0 | 8 | 3 | 9 | 8 | 7 | 5 | 3 | 2 | 8 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 |
| | | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | |
| | | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 5 | 5 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 1 | 1 | 2 | 2 | 3 | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 |

Spinal Cord, Thoracic

+

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung
Adenocarcinoma, Metastatic, Uterus | + | + | + | + | + | + | + | | | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Nose | + | + | + | + | + | + | + | | | + | | A | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trachea | + | + | + | + | + | + | + | | | + | | A | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

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

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

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First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE | 6 | 7 | 7 | 7 | 5 | 5 | 7 | 2 | 5 | 4 | 7 | 7 | 7 | 5 | 5 | 7 | 5 | 4 | 6 | 7 | 5 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 8 | |
| F1 Veh. StDose F | 5 | 3 | 3 | 2 | 7 | 0 | 2 | 6 | 7 | 9 | 1 | 2 | 2 | 3 | 3 | 2 | 1 | 6 | 3 | 2 | 2 | 2 | 5 | 1 | 2 | 2 | 9 | 2 | 8 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | 6 | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 3 | 4 | 4 | 5 | 5 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Esophagus | + | | | | + | + | | + | + | + | + | | | + | + | + | + | + | | | + | + | + | | | | | | | | 38 |
| Intestine Large, Colon | + | | | | + | + | | + | + | + | + | | | + | + | + | + | + | | | + | + | + | | | | | | | | 38 |
| Intestine Small, Ileum | + | | | | + | A | | + | + | + | + | | | + | + | + | + | + | | | + | + | + | | | | | | | | 36 |
| Intestine Small, Jejunum | | | | | | | | | + | | | | | | | | | | | | | | | | | | | | | | 1 |
| Adenocarcinoma | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | 1 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Stomach, Forestomach | + | | | | + | + | | + | + | + | + | | | + | + | + | + | + | | | + | + | + | | | | | | | | 38 |
| Stomach, Glandular | + | | | | + | + | | + | + | + | + | | | + | + | + | + | + | | | + | + | + | | | | | | | | 38 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Schwannoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 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: 10034 - 04

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| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE

F1 Veh. StDose F | DAY ON TEST | 0625 | 0730 | 0730 | 0778 | 0553 | 0573 | 0728 | 0254 | 0046 | 0077 | 0077 | 0077 | 0553 | 0553 | 0722 | 0533 | 0722 | 0516 | 0633 | 0722 | 0522 | 0625 | 0715 | 0729 | 0678 | 00 |
| | ANIMAL ID | 05632 | 05641 | 05642 | 05651 | 05652 | 05671 | 05672 | 05677 | 05678 | 05679 | 05679 | 05679 | 05679 | 05679 | 05679 | 05690 | 05690 | 05690 | 05690 | 05690 | 05690 | 05690 | 05690 | 05690 | 05690 | 05690 |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | M | + | + | + | 45 | |
| Pituitary Gland | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Pars Distalis, Adenoma | | X | X | X | | X | | | X | | | | | | X | X | X | | | | | | | X | X | X | | | 23 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | 48 |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|----------|
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lipoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Clitoral Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 6 |
| Adenoma | | | | | | | | | | | | | + | | | | | | | | | | | | | | | | | 1 |
| Carcinoma | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | 1 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Granulosa Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

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

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

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RATS FEMALE
F1 Veh. StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|--|
| | 0625 | 0730 | 0730 | 0778 | 0571 | 0553 | 0728 | 0260 | 0574 | 0496 | 0774 | 0777 | 0777 | 0574 | 0554 | 0734 | 0520 | 0468 | 0630 | 0727 | 0523 | 0625 | 0715 | 0779 | | 0680 | |
| ANIMAL ID | 05632 | 05641 | 05642 | 05651 | 05652 | 05671 | 05672 | 05677 | 05678 | 05679 | 05679 | 05679 | 05679 | 05679 | 05679 | 05690 | 05690 | 05690 | 05690 | 05690 | 05690 | 05690 | 05690 | 05690 | 05690 | | |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Polyp Stromal | | | | X | | | | | | | | | | X | | X | | X | | | | | | | 7 | | |
| Endometrium, Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Lymph Node | | | | + | | | | + | | | | | | | | | | | | | | + | + | | 9 | | |
| Lymph Node, Mandibular | | | | | | | | + | | | | | | | + | | | | | | | | | | 4 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Thymoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Adenocarcinoma, Multiple | | | | | | | | | | | | | | | | | | | | | | X | | | 1 | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Fibroadenoma | X | | | | X | | | | | X | | | | | | | X | | | | | | X | 14 | | | |
| Fibroadenoma, Multiple | | X | X | | X | | | X | | X | X | X | X | X | X | X | X | X | X | X | X | | X | | 29 | | |
| Fibroma | | | | | | | | | | | | | | | | | | | | | | | | | 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: NCTR

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|--------------------------------------|------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|
| | | 0625 | 0730 | 0738 | 0751 | 0553 | 0773 | 0228 | 0554 | 0476 | 0774 | 0779 | 0772 | 0533 | 0574 | 0751 | 0463 | 0722 | 0522 | 0675 | 0715 | | 0772 | 0679 | 0680 |
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE | F1 Veh. StDose F | | | | | | | | | | | | | | | | | | | | | | | | |
| | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | |
| | | 05632 | 05641 | 05644 | 05651 | 05655 | 05671 | 05677 | 05677 | 05677 | 05677 | 05677 | 05677 | 05677 | 05677 | 05677 | 05677 | 05677 | 05677 | 05677 | 05677 | 05677 | 05677 | 05677 | 05677 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
| Skin | | | | | | | | | | | | | | | | | | | | | | | | | | 16 |
| Basal Cell Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Subcutaneous Tissue, Lipoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
| Bone | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Vertebra, Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Bone, Femur | | | | | | | | | | | | | | | | | | | | | | | | | | 50 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
| Brain, Brain Stem | | | | | | | | | | | | | | | | | | | | | | | | | | 49 |
| Brain, Cerebellum | | | | | | | | | | | | | | | | | | | | | | | | | | 49 |
| Brain, Cerebrum | | | | | | | | | | | | | | | | | | | | | | | | | | 49 |
| Nerve Trigeminal | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Peripheral Nerve, Sciatic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Peripheral Nerve, Tibial | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Spinal Cord, Cervical | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Spinal Cord, Lumbar | | | | | | | | | | | | | | | | | | | | | | | | | | 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 Veh. StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|------|---|----|
| | 0625 | 0730 | 0730 | 0778 | 0571 | 0573 | 0728 | 0260 | 0574 | 0496 | 0774 | 0777 | 0777 | 0575 | 0553 | 0772 | 0543 | 0663 | 0772 | 0522 | 0662 | 0775 | 0775 | 0779 | | 0676 | 0778 | 0680 | | |
| ANIMAL ID | 05632 | 05641 | 05642 | 05651 | 05652 | 07671 | 07672 | 07673 | 07674 | 07675 | 07676 | 07677 | 07678 | 07679 | 07680 | 07681 | 07682 | 09691 | 09692 | 09693 | 09694 | 09695 | 09696 | 09697 | 09698 | 09699 | 09699 | | | |
| Spinal Cord, Thoracic | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung
Adenocarcinoma, Metastatic, Uterus | + | + | | | | + | + | | | + | + | + | + | | | | | + | + | + | + | + | + | | | + | + | + | + | 40 |
| Nose | + | | | | | + | + | | | + | + | + | + | | | | | + | + | + | + | + | + | | | + | + | + | + | 38 |
| Trachea | + | | | | | + | + | | | + | + | + | + | | | | | + | + | + | + | + | + | | | + | + | + | + | 38 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------------------------------|--|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2.5 StDose F | ANIMAL ID | 077 | 062 | 034 | 072 | 072 | 056 | 065 | 059 | 058 | 072 | 039 | 064 | 056 | 056 | 072 | 072 | 075 | 077 | 062 | 072 | 049 | 073 | 065 | 076 | females
(cont...) | |
| | | 145 | 144 | 144 | 144 | 144 | 144 | 144 | 144 | 144 | 144 | 136 | 136 | 136 | 136 | 136 | 136 | 136 | 136 | 136 | 136 | 136 | 136 | 136 | 136 | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | | + | + | + | | + | + | + | + | | + | + | + | + | + | | | + | + | + | + | | + | + | |
| Intestine Large, Colon | | + | A | + | | + | + | + | + | | + | + | + | + | + | | | + | A | + | + | | + | + | |
| Intestine Small, Ileum | | + | A | + | | + | + | + | + | | + | + | + | + | + | | | + | A | + | + | | + | + | |
| Intestine Small, Jejunum
Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | + | X |
| Liver
Histiocytic Sarcoma, Metastatic, Skin
Lymphoma Malignant | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery
Lymphoma Malignant | | | | + | | | | | | | | | | | | | | | | | | | | | + |
| Pancreas
Lymphoma Malignant | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach | | + | + | + | | + | + | + | + | | + | + | + | + | + | | | + | + | + | + | | + | + | |
| Stomach, Glandular | | + | A | + | | + | + | + | + | | + | + | + | + | + | | | + | + | + | + | | + | + | |

CARDIOVASCULAR SYSTEM

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

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2.5 StDose F | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | females
(cont...) | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|
| | 7 | 6 | 3 | 7 | 7 | 5 | 6 | 5 | 5 | 7 | 3 | 6 | 5 | 5 | 5 | 7 | 7 | 5 | 7 | 6 | 7 | 4 | 7 | | 6 |
| | 2 | 2 | 4 | 2 | 2 | 6 | 5 | 9 | 8 | 2 | 9 | 4 | 6 | 6 | 2 | 2 | 0 | 3 | 0 | 2 | 2 | 9 | 3 | | 5 |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | |
| | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | | |
| | | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 7 | 8 | 8 | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |

Lymphoma Malignant X

ENDOCRINE SYSTEM

Adrenal Cortex +
 Lymphoma Malignant X

Adrenal Medulla +
 Lymphoma Malignant X

Islets, Pancreatic +
 Adenoma X

Parathyroid Gland +

Pituitary Gland +
 Lymphoma Malignant X
 Pars Distalis, Adenoma X X X X X X

Thyroid Gland +
 Lymphoma Malignant X
 C-cell, Adenoma X

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland + + +

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

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

Experiment Number: 10034 - 04
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 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

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 Bisphenol A
 CAS Number: 80-05-7

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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2.5 StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
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6 | 0
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8 | 0
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6 | 0
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1 | 0
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2 | 0
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|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Granulosa Cell Tumor Benign | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Histiocytic Sarcoma, Metastatic, Skin | | | | | | | | | | | | | | | | | | | | | X | | | | |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Polyp Stromal | | | | | | | X | | | | | | | | | | | | | | | | | | X |
| Endometrium, Adenocarcinoma | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Endothelium, Adenoma | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Histiocytic Sarcoma, Metastatic, Skin | | | | | | | | | | | | | | | | | | | | | X | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | + | | + | | | | | | | | | | | | | | | | | | + | | + | | |
| Axillary, Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Brachial, Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Cervical, Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | | | |

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

M .. Missing tissue
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Experiment Number: 10034 - 04
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 Bisphenol A
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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2.5 StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|------|------|------|------|
| | 0727 | 0622 | 0345 | 0722 | 0728 | 0568 | 0652 | 0553 | 0553 | 0727 | 0338 | 0642 | 0564 | 0566 | 0726 | 0726 | 0727 | 0578 | 0743 | 0726 | | | 0499 | 0730 | 0675 | 0735 | 0735 | 0778 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 7 | 7 | 8 | 8 | 8 | 8 | 9 | 9 |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |

Renal, Lymphoma Malignant

X

Lymph Node, Mandibular
Lymphoma Malignant

+

+

Lymph Node, Mesenteric
Lymphoma Malignant

+

X

Spleen
Lymphoma Malignant

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Thymus
Lymphoma Malignant
Squamous Cell Carcinoma

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X

X

INTEGUMENTARY SYSTEM

Mammary Gland
Adenocarcinoma
Adenocarcinoma, Multiple
Adenoma
Fibroadenoma
Fibroadenoma, Multiple

+

+

+

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X

X

X

X

Skin
Subcutaneous Tissue, Fibrosarcoma
Subcutaneous Tissue, Histiocytic Sarcoma

+

+

+

+

+

+

X

X

MUSCULOSKELETAL 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

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 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2.5 StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|----------------------|
| | 0
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6 | 0
3 | 0
7 | 0
7 | 0
5 | 0
6 | 0
5 | 0
5 | 0
5 | 0
7 | 0
3 | 0
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5 | 0
5 | 0
7 | 0
7 | 0
5 | 0
7 | 0
6 | 0
7 | 0
4 | 0
7 | | |
| | 2 | 2 | 4 | 2 | 2 | 6 | 5 | 9 | 8 | 2 | 9 | 4 | 6 | 6 | 6 | 2 | 2 | 0 | 3 | 0 | 2 | 2 | 9 | 3 | 5 | |
| | 7 | 5 | 0 | 2 | 8 | 8 | 2 | 3 | 3 | 7 | 8 | 2 | 4 | 4 | 3 | 6 | 7 | 8 | 4 | 3 | 6 | 9 | 0 | 9 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | |
| | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 7 | 7 | 8 | 8 | 9 | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | |

Bone, Femur

+ +

NERVOUS SYSTEM

Brain, Brain Stem

+ +

Lymphoma Malignant

X

Brain, Cerebellum

+ +

Lymphoma Malignant

X

Brain, Cerebrum

+ +

Lymphoma Malignant

X

Nerve Trigeminal

+

Peripheral Nerve, Sciatic

+

Peripheral Nerve, Tibial

+

Spinal Cord, Cervical

+

Spinal Cord, Lumbar

+

Spinal Cord, Thoracic

+

RESPIRATORY SYSTEM

Lung

+ +

Histiocytic Sarcoma, Metastatic, Skin

X

Lymphoma Malignant

X

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

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

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2.5 StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
| | 0
7
2
7 | 0
6
2
5 | 0
3
4
0 | 0
7
2
2 | 0
7
8 | 0
5
6
8 | 0
6
5
2 | 0
5
9
3 | 0
5
8
3 | 0
7
2
7 | 0
3
9
8 | 0
6
4
2 | 0
5
6
4 | 0
5
6
4 | 0
7
2
6 | 0
7
0
6 | 0
5
3
8 | 0
7
0
4 | 0
6
2
3 | 0
7
2
6 | 0
4
9
9 | 0
7
3
0 | 0
6
9
0 | | | |
| | 0
1
4
5
1 | 0
1
4
5
2 | 0
1
4
6
1 | 0
1
4
7
2 | 0
1
4
7
1 | 0
1
4
8
2 | 0
1
4
8
1 | 0
1
4
8
2 | 0
1
4
9
1 | 0
1
4
9
1 | 0
3
4
9
1 | 0
3
6
9
2 | 0
3
6
9
2 | 0
3
6
9
2 | 0
3
6
9
2 | 0
3
6
9
2 | 0
3
6
9
2 | 0
3
6
9
2 | 0
3
6
9
2 | 0
3
6
9
2 | 0
5
7
8
1 | 0
5
7
8
2 | 0
5
7
8
1 | 0
5
7
8
2 | 0
5
7
8
1 | |

Squamous Cell Carcinoma, Metastatic, Thymus

X

Nose Lymphoma Malignant

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

Trachea

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

SPECIAL SENSES SYSTEM

Zymbal's Gland Adenoma

URINARY SYSTEM

Kidney Lymphoma Malignant

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

Urinary Bladder

+

SYSTEMIC LESIONS

Multiple Organ Histiocytic Sarcoma Lymphoma Malignant

+ X X

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|---|---|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2.5 StDose F | | 7 | 5 | 4 | 6 | 5 | 7 | 6 | 6 | 5 | 6 | 5 | 7 | 6 | 5 | 4 | 7 | 4 | 7 | 4 | 7 | 6 | 5 | 4 | 4 | 4 | |
| | ANIMAL ID | 5 | 2 | 5 | 6 | 2 | 3 | 5 | 5 | 4 | 6 | 2 | 7 | 1 | 9 | 2 | 4 | 7 | 9 | 9 | 9 | 4 | 4 | 8 | 5 | 1 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | | 7 | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | | 9 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 38 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | + | 34 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | + | 34 |
| Intestine Small, Jejunum
Adenocarcinoma | | | | | | | | | | | | | | + | | | | | | | | | | | | | 2
1 |
| Liver
Histiocytic Sarcoma, Metastatic, Skin
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1
1 |
| Mesentery
Lymphoma Malignant | | | | | | | | | | | | | | + | | | | | | | | | | | | | 3
1 |
| Pancreas
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | 49
1 |
| Stomach, Forestomach | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 38 |
| Stomach, Glandular | | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | 36 |

CARDIOVASCULAR SYSTEM

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

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2.5 StDose F | DAY ON TEST | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| | 7 | 5 | 4 | 6 | 5 | 7 | 6 | 6 | 5 | 6 | 5 | 7 | 6 | 5 | 4 | 7 | 4 | 7 | 4 | 7 | 6 | 5 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 2 | 6 | 8 | 1 | 6 | 0 | 0 | 2 | 9 | 1 | 8 | 2 | 6 | 8 | 1 | 2 | 4 | 4 | 2 | 7 | 2 | 1 | 7 | 2 | 7 | 0 | 1 | 0 |
| | 5 | 2 | 5 | 6 | 2 | 3 | 5 | 5 | 4 | 6 | 2 | 7 | 1 | 9 | 2 | 4 | 7 | 9 | 9 | 9 | 4 | 4 | 8 | 5 | 1 | 0 | 1 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 7 | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 9 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 8 | 8 |
| | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 |

Lymphoma Malignant

1

ENDOCRINE SYSTEM

Adrenal Cortex + + + + + + + + + + + + + + A + + + + + + + + + + **49**
 Lymphoma Malignant + **1**

Adrenal Medulla + **50**
 Lymphoma Malignant + **1**

Islets, Pancreatic + **50**
 Adenoma + **1**

Parathyroid Gland + + + + + + M + **49**

Pituitary Gland + **50**
 Lymphoma Malignant + **1**
 Pars Distalis, Adenoma X X X X X X X X X X **16**

Thyroid Gland + + + + + + + + + + + + + + + + A + + + + + + + + + + **49**
 Lymphoma Malignant + **1**
 C-cell, Adenoma + **1**

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland + **6**

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2.5 StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|--|
| | 075 | 054 | 046 | 057 | 066 | 066 | 055 | 066 | 059 | 061 | 058 | 062 | 076 | 066 | 058 | 041 | 074 | 047 | 074 | 067 | 056 | 044 | 044 | 044 | | |
| ANIMAL ID | 057 | 058 | 058 | 058 | 058 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 099 | 099 | 099 | 099 | 099 | 099 | 099 | 099 | 099 | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | 49 | |
| Granulosa Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | 49 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | 49 | |
| Histiocytic Sarcoma, Metastatic, Skin | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Polyp Stromal | | | | | | | | | | | | | | | | | | X | | | X | | | | 4 | |
| Endometrium, Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Endothelium, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Histiocytic Sarcoma, Metastatic, Skin | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | 49 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymph Node | + | | | | | | | | | | | | | + | | | | | | | | | | | 6 | |
| Axillary, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Brachial, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Cervical, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lumbar, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Mediastinal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pancreatic, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |

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

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

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 Species/Strain: RATS/Sprague Dawley (NCTR)

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 Bisphenol A
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| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2.5 StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|----------|
| | 0725 | 0548 | 0061 | 0576 | 0650 | 0662 | 0595 | 0661 | 0589 | 0618 | 0722 | 0668 | 0598 | 0472 | 0447 | 0742 | 0749 | 0479 | 0664 | 0557 | 0448 | 0447 | 0440 | | |
| ANIMAL ID | 05792 | 0581 | 0582 | 0588 | 0588 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0999 | 0999 | 0999 | 0999 | 0999 | 0999 | 0999 | 0999 | 0999 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|----|
| Renal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymph Node, Mandibular Lymphoma Malignant | | | | | | | | | + | | | | | | | | | | | | | | | | 5 |
| Lymph Node, Mesenteric Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Spleen Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Thymus Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Thymus Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
| Mammary Gland Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Mammary Gland Adenocarcinoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | 10 |
| Mammary Gland Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Mammary Gland Fibroadenoma | | | | | | | | | | | | | | | | | | | | | | | | | 13 |
| Mammary Gland Fibroadenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | 32 |
| Skin Subcutaneous Tissue, Fibrosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | 8 |
| Skin Subcutaneous Tissue, Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

MUSCULOSKELETAL 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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 Test Type: CHRONIC
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RATS FEMALE
F1 2.5 StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|--|
| | 0725 | 0548 | 0061 | 0576 | 0665 | 0665 | 0592 | 0618 | 0582 | 0761 | 0665 | 0588 | 0472 | 0744 | 0472 | 0472 | 0744 | 0729 | 0472 | 0654 | 0548 | 0448 | 0448 | 0448 | | |
| ANIMAL ID | 05792 | 0581 | 0582 | 0588 | 0588 | 0701 | 0702 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0905 | 0905 | 0905 | 0905 | 0905 | 0905 | 0905 | 0905 | | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Nerve Trigeminal | | | | | | | | | | | | + | + | | | | | | | | | | | 3 | | |
| Peripheral Nerve, Sciatic | | | | | | | | | | | | + | + | | | | | | | | | | | 3 | | |
| Peripheral Nerve, Tibial | | | | | | | | | | | | + | + | | | | | | | | | | | 3 | | |
| Spinal Cord, Cervical | | | | | | | | | | | | + | + | | | | | | | | | | | 3 | | |
| Spinal Cord, Lumbar | | | | | | | | | | | | + | + | | | | | | | | | | | 3 | | |
| Spinal Cord, Thoracic | | | | | | | | | | | | + | + | | | | | | | | | | | 3 | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | 40 | | |
| Histiocytic Sarcoma, Metastatic, Skin | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |

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

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 BLANK .. Not examined microscopically

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| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2.5 StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------|--------------|
| | 0
7
2
5 | 0
5
6
2 | 0
4
8
5 | 0
6
1
6 | 0
5
6
2 | 0
7
0
3 | 0
6
0
5 | 0
6
2
5 | 0
5
9
4 | 0
6
1
6 | 0
5
8
2 | 0
7
6
7 | 0
6
5
1 | 0
4
2
9 | 0
7
4
4 | 0
4
2
7 | 0
7
2
9 | 0
4
7
9 | 0
6
1
4 | 0
5
7
4 | 0
4
2
8 | 0
4
7
5 | 0
4
7
0 | 0
4
0
1 | | | |
| ANIMAL ID | 0
5
7
9
2 | 0
5
8
0
1 | 0
5
8
0
2 | 0
5
8
1
1 | 0
5
7
1
2 | 0
7
7
0
1 | 0
7
7
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2 | 0
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1
1 | 0
7
7
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2 | 0
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4 | 0
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4 | 0
9
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4 | 0
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5
5 | 0
9
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5
6 | 0
9
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5
6 | 0
9
5
6
2 | 0
9
5
7
1 | 0
9
5
7
2 | 0
9
5
8
8 | 0
9
5
8
8 | 0
9
5
8
8 | 0
9
5
8
8 | | |
| Squamous Cell Carcinoma, Metastatic,
Thymus | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Nose
Lymphoma Malignant | | + | + | + | + | + | + | + | + | + | | + | + | A | | + | | + | + | + | + | + | | | | 36
1 | |
| Trachea | | + | + | + | + | + | + | + | + | + | | + | + | A | | + | | + | + | + | + | + | | | | 36 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland
Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | 1
1 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney
Lymphoma Malignant | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 |
| Urinary Bladder | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ
Histiocytic Sarcoma
Lymphoma Malignant | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25.0 StDose F | | 5 | 5 | 6 | 6 | 7 | 4 | 7 | 7 | 5 | 7 | 7 | 5 | 6 | 7 | 6 | 6 | 7 | 3 | 7 | 6 | 6 | 5 | 6 | 4 | 4 |
| | | 2 | 7 | 1 | 4 | 0 | 4 | 2 | 0 | 6 | 2 | 2 | 4 | 2 | 2 | 6 | 0 | 2 | 4 | 0 | 0 | 6 | 2 | 6 | 6 | 5 |
| | | 9 | 1 | 3 | 5 | 6 | 7 | 9 | 9 | 9 | 8 | 8 | 1 | 5 | 5 | 8 | 1 | 8 | 0 | 8 | 9 | 4 | 3 | 9 | 2 | 9 |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 |
| | | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 1 | 1 | 3 | 3 | 4 | 4 | 5 |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

females (cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | | + | + | | | + | + | | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | | + | A | | | + | + | | + | + | | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | | + | A | | | + | + | | + | A | | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery
Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | + | | X | | |
| Oral Mucosa
Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach | + | + | + | + | + | + | | + | + | | | + | + | | + | + | | + | + | + | + | + | + | + | + |
| Stomach, Glandular | + | + | + | + | + | + | | + | A | | | + | + | | + | + | | + | + | + | + | + | + | + | + |

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25.0 StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|--|
| | 0529 | 0571 | 0663 | 0664 | 0775 | 0776 | 0777 | 0859 | 0859 | 0878 | 0878 | 0915 | 0915 | 0925 | 0925 | 0935 | 0935 | 0945 | 0945 | 0955 | 0955 | 0965 | 0965 | 0975 | | | 0975 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0161 | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 0666 | |
| | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 1 | 1 | 3 | 3 | 4 | 4 | 5 | 5 | 1121 | |

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

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary
Sex Cord Stromal Tumor, Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X |
| Oviduct | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Uterus
Polyp Stromal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25.0 StDose F | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ANIMAL ID | 5 | 5 | 6 | 6 | 7 | 4 | 7 | 7 | 5 | 7 | 7 | 5 | 6 | 7 | 6 | 6 | 7 | 3 | 7 | 6 | 6 | 5 | 6 | 4 | 4 |
| | | 2 | 7 | 1 | 4 | 0 | 4 | 2 | 0 | 6 | 2 | 2 | 4 | 2 | 2 | 6 | 0 | 2 | 4 | 0 | 0 | 6 | 2 | 6 | 5 | |
| | | 9 | 1 | 3 | 5 | 6 | 7 | 9 | 9 | 9 | 8 | 8 | 1 | 5 | 5 | 8 | 1 | 8 | 0 | 8 | 9 | 4 | 3 | 9 | 9 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | |
| | | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 1 | 1 | 3 | 3 | 4 | 4 | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |

females
(cont...)

Sarcoma
Schwannoma Malignant

X

Vagina

+ +

HEMATOPOIETIC SYSTEM

Bone Marrow

+ +

Lymph Node

+ +

Lymph Node, Mandibular

+ +

Spleen

+ +

Thymus

+ +

INTEGUMENTARY SYSTEM

Mammary Gland

+ +

Adenocarcinoma

X X

Adenocarcinoma, Multiple

Carcinosarcoma

X X

Fibroadenoma

X X

Fibroadenoma, Multiple

X X

Skin

+ + + + +

Basal Cell Adenoma

X

Subcutaneous Tissue, Fibrosarcoma

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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
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 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25.0 StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------------|
| | 0
5
2
9 | 0
5
7
1 | 0
6
1
3 | 0
6
4
5 | 0
7
0
6 | 0
4
4
7 | 0
7
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9 | 0
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9 | 0
5
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9 | 0
7
2
8 | 0
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8 | 0
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1 | 0
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5 | 0
7
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5 | 0
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8 | 0
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9 | 0
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4 | 0
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9 | 0
4
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2 | | |
| | 0
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2 | 0
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6
3 | 0
1
6
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4 | 0
1
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1 | 0
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6
5 | 0
1
6
7 | 0
3
7
8 | 0
3
7
1 | 0
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7
2 | 0
3
7
8 | 0
3
7
9 | 0
3
8
0 | 0
3
8
1 | 0
3
8
2 | 0
3
8
1 | 0
3
9
1 | 0
5
9
3 | 0
5
9
3 | 0
5
9
4 | 0
5
9
1 | 0
5
4
2 | 0
5
5
1 |

MUSCULOSKELETAL SYSTEM

Bone, Femur

+ +

NERVOUS SYSTEM

Brain, Brain Stem

+ +

Brain, Cerebellum

+ +

Brain, Cerebrum

+ +

RESPIRATORY SYSTEM

Lung
 Carcinosarcoma, Metastatic, Mammary Gland

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

Nose

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

Trachea

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

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney

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

SYSTEMIC LESIONS

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

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

Experiment Number: 10034 - 04

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Bisphenol A

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Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25.0 StDose F | DAY ON TEST | 059 | 051 | 063 | 065 | 076 | 074 | 077 | 077 | 059 | 075 | 077 | 056 | 072 | 072 | 044 | 025 | 066 | 067 | 033 | 072 | 066 | 055 | 066 | 044 | 044 | 044 | 055 | 059 | females
(cont...) |
| | ANIMAL ID | 0161 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0133 | 0133 | 0133 | 0133 | 0133 | 0177 | 0177 | 0188 | 0188 | 0111 | 0111 | 0133 | 0133 | 0144 | 0144 | 0155 | 0155 | 0199 | 0199 | |

Multiple Organ

+ +

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

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| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25.0 StDose F | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|
| | ANIMAL ID | 7 | 5 | 6 | 4 | 4 | 4 | 5 | 7 | 5 | 6 | 5 | 5 | 6 | 7 | 7 | 5 | 7 | 6 | 6 | 7 | 5 | 5 | | 7 |
| | | 2 | 7 | 4 | 2 | 3 | 4 | 8 | 8 | 2 | 8 | 2 | 4 | 1 | 6 | 2 | 2 | 4 | 2 | 5 | 2 | 2 | 7 | 4 | 2 |
| | | 9 | 9 | 9 | 9 | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 9 |
| | | 5 | 6 | 6 | 7 | 7 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 0 | 0 | 1 | 1 |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus | + | + | + | + | + | + | | | + | + | + | + | + | | | + | + | + | | + | + | | | 35 |
| Intestine Large, Colon | + | + | + | + | A | + | | | + | + | + | + | + | | | + | + | + | | + | + | | | 33 |
| Intestine Small, Ileum | A | + | + | + | A | + | | | + | + | + | + | + | | | + | + | + | | + | + | | | 31 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Oral Mucosa | | | | | | | | | | | | | | | + | | | | | | | | | 1 |
| Squamous Cell Papilloma | | | | | | | | | | | | | | X | | | | | | | | | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Stomach, Forestomach | + | + | + | + | + | + | | | + | + | + | + | + | | | + | + | + | | + | + | | | 35 |
| Stomach, Glandular | + | + | + | + | A | + | | | + | + | + | + | + | | | + | + | + | | + | + | | | 33 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |

ENDOCRINE SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
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Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25.0 StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|
| | 077 | 075 | 076 | 074 | 074 | 074 | 075 | 077 | 075 | 076 | 075 | 075 | 076 | 077 | 077 | 075 | 077 | 076 | 076 | 077 | | 075 | 075 |
| ANIMAL ID | 05952 | 05991 | 05999 | 05999 | 05999 | 05999 | 05999 | 05999 | 05999 | 05999 | 05999 | 05999 | 05999 | 05999 | 05999 | 05999 | 05999 | 05999 | 05999 | 05999 | 05999 | 05999 | 05999 |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pheochromocytoma Benign | | | | | | X | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | | | | | X | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Adenoma | X | X | | X | | | | | | | X | | X | X | | X | X | | X | | | X | |
| Thyroid Gland | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | | | | | | | | | | | | | | + | | | | | | + | | | |
| Ovary | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Sex Cord Stromal Tumor, Benign | | | | | | | | | | | | | | | | | | | | | | | |
| Oviduct | + | + | + | + | + | A | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Polyp Stromal | | | | | | | | | | 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25.0 StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|
| | 077 | 054 | 065 | 044 | 044 | 044 | 055 | 077 | 055 | 066 | 055 | 055 | 066 | 077 | 077 | 055 | 077 | 066 | 066 | 077 | | 055 | 055 |
| ANIMAL ID | 05952 | 05991 | 05992 | 05999 | 05999 | 05999 | 07788 | 07788 | 07788 | 07788 | 07788 | 07788 | 07788 | 07788 | 07788 | 09966 | 09966 | 09966 | 09966 | 09966 | 09966 | 09966 | 09966 |
| Sarcoma | | | | | | | X | | | | | | | | | | | | | | | | |
| Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | |
| Vagina | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node | | | | + | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | | | | + | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma | | | | | | | | | | | | | | | | X | | | | | | | X |
| Adenocarcinoma, Multiple | | | | | | | | | | | | X | | | | | | | | | | | |
| Carcinosarcoma | | | | | | | | | | | | | | | | | | | | | | | |
| Fibroadenoma | | | | | X | | | | | | | | X | | | | | | | | | X | |
| Fibroadenoma, Multiple | X | | X | | | | X | X | X | X | | | | X | X | X | X | X | X | X | X | | X |
| Skin | + | | | + | | | | | | | | | | | | | | | | | | | |
| Basal Cell Adenoma | | | | | | | | | | | | | | | | | | | | | | | |
| 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
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Experiment Number: 10034 - 04

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Bisphenol A

CAS Number: 80-05-7

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First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25.0 StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|
| | 0727 | 0574 | 0652 | 0443 | 0444 | 0449 | 0582 | 0756 | 0588 | 0622 | 0541 | 0560 | 0678 | 0771 | 0548 | 0722 | 0664 | 0727 | 0554 | 0556 | | 0702 | 0708 |
| ANIMAL ID | 0595 | 0596 | 0596 | 0597 | 0598 | 0598 | 0598 | 0598 | 0598 | 0598 | 0598 | 0598 | 0598 | 0598 | 0598 | 0598 | 0598 | 0598 | 0598 | 0598 | 0598 | 0598 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 48 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|----|
| Lung | + | + | + | + | A | + | | + | + | + | + | + | + | + | | + | + | | + | + | | | 39 |
| Carcinoma, Metastatic, Mammary Gland | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Nose | + | + | + | + | + | + | | + | + | + | + | + | | | + | | + | + | | + | + | | 35 |
| Trachea | + | + | + | + | A | + | | + | + | + | + | + | | | + | | + | + | | + | + | | 33 |

SPECIAL SENSES SYSTEM

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

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

SYSTEMIC LESIONS

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

M .. Missing tissue
A .. Autolysis precludes evaluation
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 Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25.0 StDose F | DAY ON TEST | 07 | 05 | 06 | 04 | 04 | 04 | 05 | 07 | 05 | 06 | 05 | 05 | 06 | 07 | 07 | 05 | 07 | 06 | 06 | 07 | 05 | 05 | 07 | * TOTALS |
| | ANIMAL ID | 27 | 74 | 52 | 43 | 84 | 88 | 82 | 86 | 88 | 29 | 40 | 11 | 60 | 28 | 27 | 41 | 28 | 25 | 24 | 27 | 44 | 66 | 88 | |
| Multiple Organ | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |

* .. 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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Experiment Number: 10034 - 04

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P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

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Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 250.0StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
| | 0
6
3
0 | 0
6
3
8 | 0
5
4
2 | 0
7
2
7 | 0
6
7
2 | 0
5
2
6 | 0
6
1
8 | 0
6
9
5 | 0
4
6
2 | 0
4
9
8 | 0
5
4
1 | 0
5
9
8 | 0
7
2
6 | 0
6
7
3 | 0
4
9
6 | 0
6
7
4 | 0
4
5
3 | 0
7
2
9 | 0
7
0
8 | 0
5
7
6 | 0
5
5
6 | 0
7
2
8 | 0
6
0
3 | | |
| ANIMAL ID | 0
1
7
7
1 | 0
1
7
7
2 | 0
1
7
8
1 | 0
1
7
8
2 | 0
1
7
9
1 | 0
1
7
9
2 | 0
1
8
0
1 | 0
1
8
0
2 | 0
1
8
1
1 | 0
1
8
1
2 | 0
3
9
3
1 | 0
3
9
3
2 | 0
3
9
3
3 | 0
3
9
3
4 | 0
3
9
4
1 | 0
3
9
4
2 | 0
3
9
5
1 | 0
3
9
6
2 | 0
3
9
7
1 | 0
6
0
1
2 | 0
6
0
1
2 | 0
6
1
0
2 | 0
6
1
0
2 | 0
6
1
1
1 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | | + | + | + | + | + | + | + | | + | | + | + | + | + | | + | + | + | | + | |
| Intestine Large, Colon | A | + | + | | + | + | + | + | + | + | A | + | | + | | + | + | + | + | | + | + | + | | + |
| Intestine Small, Ileum | A | + | + | | + | + | + | + | + | + | A | + | | + | | + | + | + | + | | + | + | + | | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | X | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | + | | | | | | | | + | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | | + | + | + | + | + | + | + | + | | + | | + | + | + | + | | + | + | + | | + |
| Stomach, Glandular | A | + | + | | + | + | + | + | + | + | + | + | | + | | + | + | + | + | | + | + | + | | + |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | X | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

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

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

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| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 250.0StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|
| | 0630 | 0638 | 0654 | 0672 | 0665 | 0656 | 0666 | 0644 | 0644 | 0655 | 0655 | 0677 | 0666 | 0677 | 0644 | 0666 | 0644 | 0666 | 0677 | 0655 | | | 0655 | 0677 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 6 | 6 | 6 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 |
| | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 1 | 1 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 9 | 9 | 0 | 0 |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | X | | | | | | | | | | | | | | | | | | | | | | | |
| Bilateral, Adenoma | | | | | | | | | | | | | | | X | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | M | |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | X | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | |
| Adenoma | | | | | | | | | | | | X | | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | |
| Carcinoma, Deep Invasion | | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | X | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Adenoma | | | | | | | | | | | | X | | | | | | | X | | | X | X | |
| Pars Distalis, Carcinoma | | X | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | A | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | |
| C-cell, Carcinoma | | | | | | | | | | | | X | | | | | | | | | | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Clitoral Gland | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | |

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

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| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 250.0StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0630 | 0638 | 0542 | 0727 | 0652 | 0666 | 0666 | 0449 | 0449 | 0551 | 0559 | 0728 | 0728 | 0446 | 0446 | 0662 | 0662 | 0443 | 0729 | 0729 | 0558 | 0558 | 0728 | 0663 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 017771 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 01117771 | |

Squamous Cell Papilloma

Ovary +
 Leukemia Mononuclear X

Oviduct A + + + + + + + + + + A + + + + + + + + + + + + + + + + +

Uterus + + + + + + + + + + A + + + + + + + + + + + + + + + + +
 Leukemia Mononuclear X
 Polyp Stromal X
 Polyp Stromal, Multiple X
 Cervix, Polyp Stromal X

Vagina A +

HEMATOPOIETIC SYSTEM

Bone Marrow + + + + + + + + + + A + + + + + + + + + + + + + + + + +
 Leukemia Mononuclear X
 Lymphoma Malignant X

Lymph Node +
 Lumbar, Leukemia Mononuclear X
 Mediastinal, Leukemia Mononuclear X

Lymph Node, Mandibular +
 Leukemia Mononuclear X

Lymph Node, Mesenteric +
 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 250.0StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|-------|------|
| | 0630 | 0638 | 0654 | 0672 | 0676 | 0652 | 0666 | 0666 | 0644 | 0644 | 0655 | 0655 | 0677 | 0666 | 0677 | 0644 | 0666 | 0644 | 0666 | 0677 | | | 0655 | 0655 | 0677 | 0666 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 01771 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 6 | 6 | 6 | 07772 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 7781 | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1212 | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Spleen | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | X | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | X | | | | | | | | | | |
| Sarcoma | | | | | | | | | | | | | | | | | | | | | X | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | X | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | X | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenocarcinoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | X |
| Adenoma | | | | | | | | | | | | | | | | | | | | | X | | | |
| Fibroadenoma | | X | | | | X | | | X | | | | | | X | | X | | | | | | X | |
| Fibroadenoma, Multiple | | | X | X | | | X | X | | | | X | X | X | | X | | X | X | X | | X | | X |
| Skin | | + | | + | | | | | | + | | | + | + | + | | | | | + | | | | + |
| Basal Cell Adenoma | | | | | | | | | | | | | | | | | | | | X | | | | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Fibroma | | | | | | | | | | | | | X | | | | | | | | | | | |
| Subcutaneous Tissue, Lipoma | | X | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE | | 6 | 6 | 5 | 7 | 6 | 5 | 6 | 6 | 4 | 4 | 5 | 5 | 7 | 6 | 7 | 4 | 6 | 4 | 6 | 7 | 7 | 5 | 5 | 7 | 6 |
| | F1 250.0StDose F | 3 | 3 | 4 | 2 | 7 | 2 | 1 | 9 | 6 | 9 | 4 | 9 | 2 | 7 | 2 | 9 | 9 | 7 | 5 | 2 | 0 | 7 | 5 | 2 | 0 |
| | | 0 | 8 | 2 | 7 | 2 | 6 | 8 | 5 | 2 | 8 | 1 | 8 | 6 | 3 | 6 | 8 | 2 | 4 | 3 | 9 | 8 | 6 | 6 | 8 | 3 |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 6 | 6 | 6 | 6 |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 1 | 1 | 1 | 1 |
| | | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 1 | 1 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 9 | 9 | 0 | 0 | 1 |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 |

females
(cont...)

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain, Brain Stem
Leukemia Mononuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Cerebellum
Leukemia Mononuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Cerebrum
Leukemia Mononuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Nerve Trigeminal | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Sciatic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Tibial | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Cervical | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Lumbar | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Thoracic | | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Lung
Leukemia Mononuclear | + | + | + | | + | + | + | + | + | + | + | + | | + | + | + | + | | + | + | + | | + | | |
| | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | | + | + | + | + | + | + | + | | + | | + | + | + | + | | + | + | + | | + | |

* .. Total animals with tissue examined microscopically; 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | | | | | |
|--|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------|------|------|------|------|------|------|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 250.0StDose F | | 0630 | 0638 | 0542 | 0727 | 0622 | 0526 | 0668 | 0665 | 0449 | 0448 | 0551 | 0552 | 0724 | 0726 | 0429 | 0646 | 0443 | 0672 | 0778 | 0556 | | 0555 | 0727 | 0620 | 0776 | 0552 | 0728 | 0603 |
| ANIMAL ID | | 0171 | 0177 | 0178 | 0171 | 0177 | 0179 | 0171 | 0178 | 0178 | 0178 | 0179 | 0179 | 0179 | 0179 | 0179 | 0179 | 0179 | 0179 | 0179 | 0179 | | 0179 | 0179 | 0179 | 0179 | 0179 | 0179 | 0179 |

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

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | X | | | | | | | | | | | | | | | | | | | | | | | | | | |

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | X | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--------------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|
| DAY ON TEST | | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 4 | 5 | 6 | 5 | 6 | 7 | 7 | 7 | 6 | 6 | 4 | 6 | 7 | 4 | 4 | 6 | 5 | 7 |
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE | | 2 | 8 | 3 | 0 | 2 | 0 | 2 | 6 | 9 | 4 | 4 | 5 | 3 | 2 | 0 | 8 | 9 | 8 | 1 | 2 | 5 | 4 | 6 | 0 | 2 |
| F1 250.0StDose F | | 3 | 8 | 6 | 3 | 8 | 6 | 2 | 0 | 5 | 1 | 5 | 0 | 8 | 6 | 8 | 1 | 6 | 0 | 8 | 1 | 8 | 9 | 3 | 6 | 8 |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | 1 | 1 | 1 | 1 | 1 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | | 1 | 2 | 2 | 3 | 3 | 8 | 8 | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 8 |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Esophagus | | | | + | + | | + | | + | + | + | + | + | | | + | + | + | + | + | | + | + | + | + | | 37 |
| Intestine Large, Colon | | | | + | + | | + | | + | + | + | + | + | | | + | + | + | + | + | | + | + | + | + | | 35 |
| Intestine Small, Ileum | | | | + | + | | + | | + | + | + | + | + | | | + | + | + | + | + | | + | + | + | + | | 35 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Mononuclear | X | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Leukemia Mononuclear | X | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Stomach, Forestomach | | | | + | + | | + | | + | + | + | + | + | | | + | + | + | + | + | | + | + | + | + | | 37 |
| Stomach, Glandular | | | | + | + | | + | | + | + | + | + | + | | | + | + | + | + | + | | + | + | + | + | | 37 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Mononuclear | X | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |

ENDOCRINE SYSTEM

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 250.0StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|----|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 4 | 5 | 6 | 5 | 6 | 7 | 7 | 7 | 6 | 6 | 4 | 6 | 7 | 4 | 4 | 6 | 5 | | 7 |
| ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | 2 | 3 | 0 | 2 | 0 | 2 | 6 | 9 | 4 | 4 | 5 | 3 | 2 | 0 | 8 | 9 | 8 | 1 | 2 | 5 | 4 | 6 | 0 | 2 | |
| | 3 | 8 | 6 | 3 | 8 | 8 | 6 | 2 | 0 | 5 | 1 | 5 | 0 | 8 | 6 | 8 | 1 | 6 | 0 | 8 | 1 | 9 | 3 | 6 | 8 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | 1 | 1 | 1 | 1 | 1 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| | 1 | 2 | 2 | 3 | 3 | 8 | 8 | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | |
| | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
| Adenoma | X | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Bilateral, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Carcinoma, Deep Invasion | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pars Distalis, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | 20 | |
| Pars Distalis, Carcinoma | | X | | X | X | X | | X | X | | X | | X | X | X | X | | | | X | X | X | | | 1 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| C-cell, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Clitoral Gland | | | | | | | | | | | | | | | | | | | | | | | | | | 8 |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

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

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

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 Bisphenol A
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| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 250.0StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----|
| | 0
7
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3 | 0
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2
8 | 0
5
3
6 | 0
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3 | 0
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8 | 0
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8 | 0
7
2
6 | 0
4
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2 | 0
5
9
0 | 0
6
4
5 | 0
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4
1 | 0
6
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5 | 0
7
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0 | 0
7
2
8 | 0
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6 | 0
6
9
1 | 0
4
8
6 | 0
6
1
0 | 0
7
2
8 | 0
4
5
1 | 0
4
4
9 | 0
6
6
3 | 0
5
0
6 | 0
7
2
8 | | |
| ANIMAL ID | 0
6
1
1
2 | 0
6
1
1
2 | 0
6
1
2
2 | 0
6
1
3
1 | 0
6
1
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2 | 0
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1 | 0
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2 | 0
9
8
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1 | 0
9
8
6
2 | 0
9
8
6
1 | 0
9
8
6
2 | |
| Squamous Cell Papilloma | X | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Polyp Stromal | | | X | | | | | | | | | | | | | | | | | | | | | X | | 5 |
| Polyp Stromal, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Cervix, Polyp Stromal | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Leukemia Mononuclear | X | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | 10 |
| Lumbar, Leukemia Mononuclear | | | | | + | | | | + | | | | | | | | | | + | | | | + | | | 1 |
| Mediastinal, Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymph Node, Mandibular | | | | | + | + | | | | | | | | | | | | | | | | | | | | 8 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymph Node, Mesenteric | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 250.0StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| | 0723 | 0728 | 0536 | 0730 | 0738 | 0778 | 0778 | 0462 | 0550 | 0664 | 0551 | 0665 | 0745 | 0773 | 0777 | 0668 | 0669 | 0448 | 0661 | 0725 | 0449 | 0663 | 0506 | 0708 | |
| ANIMAL ID | 0611 | 0612 | 0613 | 0614 | 0615 | 0617 | 0617 | 0617 | 0617 | 0618 | 0618 | 0618 | 0618 | 0618 | 0618 | 0619 | 0619 | 0619 | 0619 | 0619 | 0619 | 0619 | 0619 | 0619 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Leukemia Mononuclear | X | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Mononuclear | X | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Adenocarcinoma | | | | | | X | | | | | | | | | X | X | | | X | X | | | | | 5 |
| Adenocarcinoma, Multiple | | | | | | | | | | X | | | | | | | | | | | | | | | 2 |
| Adenoma | | | | | | | | | | X | | | | | | | | | | | | | X | | 3 |
| Fibroadenoma | | | | | | | X | | | | | | | | | X | X | | | | X | X | | | 11 |
| Fibroadenoma, Multiple | X | | X | X | X | X | | X | X | X | X | X | X | X | X | | | X | X | | | X | X | | 31 |
| Skin | | + | | + | + | | + | + | + | | | | + | | | | | | + | | | + | + | | 19 |
| Basal Cell Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Squamous Cell Papilloma | | | | X | X | | | | | | | | | | | | | | | | | | | | 2 |
| Subcutaneous Tissue, Fibroma | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Subcutaneous Tissue, Lipoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|--------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|--|
| SPRAGUE DAWLEY (NCTR) | RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 4 | 5 | 6 | 5 | 6 | 7 | 7 | 7 | 6 | 6 | 4 | 6 | 7 | 4 | 4 | 6 | 5 | 7 | |
| | | 2 | 2 | 3 | 0 | 2 | 0 | 2 | 6 | 9 | 4 | 4 | 5 | 3 | 2 | 0 | 8 | 9 | 8 | 1 | 2 | 5 | 4 | 6 | 0 | 2 | |
| F1 250.0StDose F | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | | 1 | 1 | 1 | 1 | 1 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| | | 1 | 2 | 2 | 3 | 3 | 8 | 8 | 9 | 9 | 0 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 6 | | |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | * TOTALS | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------------|
| Brain, Brain Stem
Leukemia Mononuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 |
| Brain, Cerebellum
Leukemia Mononuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 |
| Brain, Cerebrum
Leukemia Mononuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 |
| Nerve Trigeminal | + | + | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Peripheral Nerve, Sciatic | + | + | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Peripheral Nerve, Tibial | + | + | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Spinal Cord, Cervical | + | + | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Spinal Cord, Lumbar | + | + | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Spinal Cord, Thoracic | + | + | | | | | | | | | | | | | | | | | | | | | | | | 3 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|--|--|---|---|---|--|---|--|---|---|---|---|---|--|---|---|---|---|---|--|---|---|---|---|--|-----------------------|
| Lung
Leukemia Mononuclear | | | + | + | + | | + | | + | + | + | + | + | | + | + | + | + | + | | + | + | + | + | | 40
1 |
| Nose | | | | + | + | | + | | + | + | + | + | + | | + | + | + | + | + | | + | + | + | + | | 37 |

* .. Total animals with tissue examined microscopically; 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 250.0StDose F | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 4 | 5 | 6 | 5 | 6 | 7 | 7 | 7 | 6 | 6 | 4 | 6 | 7 | 4 | 4 | 6 | 5 | 7 | 7 | 7 |
| | | 2 | 2 | 3 | 0 | 2 | 0 | 2 | 6 | 9 | 4 | 4 | 5 | 3 | 2 | 0 | 8 | 9 | 8 | 1 | 2 | 5 | 4 | 6 | 0 | 2 | 8 | 8 |
| | 3 | 8 | 6 | 3 | 8 | 8 | 6 | 2 | 0 | 5 | 1 | 5 | 0 | 8 | 6 | 8 | 1 | 6 | 0 | 8 | 1 | 9 | 3 | 6 | 0 | 2 | 8 | 8 |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | 1 | 1 | 1 | 1 | 1 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | | 1 | 2 | 2 | 3 | 3 | 8 | 8 | 9 | 9 | 0 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Trachea + 35

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney + 49
 Leukemia Mononuclear X 2

SYSTEMIC LESIONS

Multiple Organ + 50
 Leukemia Mononuclear X 2
 Lymphoma Malignant 1

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2500.StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|------|------|
| | 0647 | 0727 | 0651 | 0727 | 0661 | 0665 | 0663 | 0391 | 0726 | 0663 | 0667 | 0579 | 0765 | 0489 | 0591 | 0728 | 0775 | 0693 | 0552 | 0554 | | | 0564 | 0729 | 0448 | 0142 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosarcoma, Metastatic, Skin | | | | | | | | | | | | | | | | | | | | | | | | | |
| Histiocytic Sarcoma | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinar Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosarcoma, Metastatic, Skin | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2500.StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------|----------------------|
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Leukemia Mononuclear

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosarcoma, Metastatic, Skin | | | | | | | | | | | | | | | | | X | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Islets, Pancreatic | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | X | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | M | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | X | | | | | | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Adenoma | X | | X | X | | | | X | X | X | | | | X | | X | X | | | | | X | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland +

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

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2500.StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-----------|----------------------|
| | 0647 | 0725 | 0671 | 0727 | 0665 | 0663 | 0391 | 0726 | 0664 | 0667 | 0500 | 0722 | 0668 | 0488 | 0579 | 0772 | 0659 | 0550 | 0555 | 0556 | 0729 | 0448 | 0144 | 0142 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 01931 | | |

Carcinoma

X

Fat Pad, Ovarian/parametrial

Ovary

Fibrosarcoma, Metastatic, Skin
 Leukemia Mononuclear
 Thecoma Malignant

+
 X

Oviduct

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

Uterus

Polyp Stromal

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

Vagina

Sarcoma Stromal

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

HEMATOPOIETIC SYSTEM

Bone Marrow

Leukemia Mononuclear

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

Lymph Node

Mediastinal, Fibrosarcoma, Metastatic, Skin

+
 X

Lymph Node, Mandibular

+

Spleen

Fibrosarcoma, Metastatic, Skin
 Leukemia Mononuclear

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

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

M .. Missing tissue
 A .. Autolysis precludes evaluation
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| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2500.StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
| | 0647 | 0727 | 0651 | 0727 | 0665 | 0663 | 0391 | 0726 | 0664 | 0647 | 0579 | 0668 | 0489 | 0579 | 0778 | 0725 | 0693 | 0552 | 0554 | 0556 | 0729 | 0448 | 0144 | 0142 | |
| ANIMAL ID | 01931 | 01932 | 01934 | 01942 | 01951 | 01952 | 01952 | 01959 | 01959 | 01960 | 01960 | 01961 | 01961 | 01961 | 01961 | 01961 | 01961 | 01961 | 01961 | 01961 | 01961 | 01961 | 01961 | 01961 | |

Thymus + M
 Lymphoma Malignant X

INTEGUMENTARY SYSTEM

Mammary Gland +
 Adenocarcinoma X
 Adenocarcinoma, Multiple X
 Adenosquamous Carcinoma X
 Fibroadenoma X
 Fibroadenoma, Multiple X
 Fibrosarcoma, Metastatic, Skin X
 Skin +
 Basal Cell Adenoma X
 Subcutaneous Tissue, Fibroma X
 Subcutaneous Tissue, Fibrosarcoma X
 Subcutaneous Tissue, Lipoma X

MUSCULOSKELETAL SYSTEM

Bone, Femur +

NERVOUS SYSTEM

Brain, Brain Stem +
 Leukemia Mononuclear
 Brain, Cerebellum +
 Leukemia Mononuclear

* .. Total animals with tissue examined microscopically; 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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 Bisphenol A
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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2500.StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|----------------------|
| | 0647 | 0727 | 0651 | 0727 | 0661 | 0661 | 0663 | 0739 | 0664 | 0667 | 0577 | 0668 | 0489 | 0579 | 0668 | 0489 | 0579 | 0668 | 0579 | 0552 | 0554 | 0556 | 0729 | 0448 | | | 0144 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0193 | females
(cont...) |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 0999 | |
| | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 9 | 9 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 31 | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 21 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Glioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nerve Trigeminal | | | + | | | | | | | | | | | | | | | | | | | | | | | + |
| Peripheral Nerve, Sciatic | | | | + | | | | | | | | | | | | | | | | | | | | | | + |
| Peripheral Nerve, Tibial | | | | | + | | | | | | | | | | | | | | | | | | | | | + |
| Spinal Cord, Cervical | | | | | | + | | | | | | | | | | | | | | | | | | | | + |
| Spinal Cord, Lumbar | | | | | | | + | | | | | | | | | | | | | | | | | | | + |
| Spinal Cord, Thoracic | | | | | | | | + | | | | | | | | | | | | | | | | | | + |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|--|---|---|---|---|---|--|---|---|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | | + | + | + | + | + | | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Fibrosarcoma, Metastatic, Skin | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | | + | + | + | + | + | | + | + | + | | + | A | + | | | | | | + | + | + | + | + | |
| Trachea | + | | + | + | + | + | + | | + | + | + | | + | A | + | | | | | | + | + | + | + | + | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Eye | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

* .. Total animals with tissue examined microscopically; 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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 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

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 Bisphenol A
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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2500.StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|-------|
| | 0647 | 0727 | 0651 | 0727 | 0665 | 0665 | 0391 | 0726 | 0664 | 0667 | 0577 | 0668 | 0489 | 0579 | 0645 | 0451 | 0728 | 0775 | 0690 | 0552 | 0554 | 0566 | 0729 | 0448 | | 0144 |
| ANIMAL ID | 01931 | 01932 | 01934 | 01932 | 01931 | 01931 | 01931 | 01931 | 01931 | 01931 | 01931 | 01931 | 01931 | 01931 | 01931 | 01931 | 01931 | 01931 | 01931 | 01931 | 01931 | 01931 | 01931 | 01931 | 01931 | 01931 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosarcoma, Metastatic, Skin | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lipoma | | | | | | | | | | X | | | | | | | | | | | | X | | | | |
| Urinary Bladder | | | | | | | | | | | | + | | | | | | | | | | | | | | |

SYSTEMIC LESIONS

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

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

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

Experiment Number: 10034 - 04
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
CAS Number: 80-05-7

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Time Report Requested: 10:21:03
First Dose M/F: 09/25/12 / 09/25/12
Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2500.StDose F | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ANIMAL ID | 4 | 7 | 7 | 6 | 6 | 7 | 5 | 6 | 5 | 4 | 5 | 7 | 5 | 7 | 6 | 6 | 6 | 6 | 7 | 7 | 5 | 5 | 7 | 7 | 7 | 7 | 7 |
| | | 7 | 2 | 2 | 4 | 5 | 2 | 6 | 7 | 4 | 9 | 4 | 2 | 8 | 2 | 8 | 8 | 1 | 9 | 2 | 2 | 8 | 2 | 8 | 2 | 2 | 7 | 2 |
| | | 1 | 8 | 9 | 1 | 9 | 5 | 9 | 3 | 0 | 7 | 3 | 7 | 3 | 8 | 7 | 1 | 6 | 7 | 4 | 8 | 1 | 7 | 4 | 8 | 7 | 2 | 7 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 7 | 8 | 8 | 9 | 9 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|--|---|---|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|-----------|
| Esophagus | + | | | | + | + | | | + | + | + | + | + | | | | | + | | + | + | | | | | | | | | 33 |
| Intestine Large, Colon | + | | | | + | + | | | + | + | + | + | + | | | | | + | | + | + | + | + | | | | | | | 32 |
| Intestine Small, Ileum | + | | | | + | + | | | + | + | + | + | + | | | | | + | | + | + | + | A | | | | | | | 30 |
| Liver | + | + | + | | + | + | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| Fibrosarcoma, Metastatic, Skin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | 1 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pancreas | + | + | + | | + | + | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 49 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Acinar Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Stomach, Forestomach | + | | | | + | + | | | + | + | + | + | + | | | | | + | | + | + | + | + | | | | | | | 34 |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Stomach, Glandular | + | | | | + | + | | | + | + | + | + | + | | | | | + | | + | + | + | + | | | | | | | 32 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|--|---|---|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|-----------|
| Blood Vessel | + | + | + | | + | + | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| Heart | + | + | + | | + | + | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| Fibrosarcoma, Metastatic, Skin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
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Experiment Number: 10034 - 04
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| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2500.StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|-------|---|
| | 0471 | 0728 | 0729 | 0641 | 0669 | 0725 | 0569 | 0673 | 0540 | 0457 | 0573 | 0583 | 0728 | 0667 | 0661 | 0669 | 0722 | 0728 | 0521 | 0557 | | 0727 | 0777 | | | | | |
| ANIMAL ID | 06272 | 06281 | 06282 | 06291 | 06292 | 06811 | 06812 | 06813 | 06814 | 06815 | 06816 | 06817 | 06818 | 06819 | 06991 | 06992 | 06993 | 06994 | 06995 | 06996 | 06997 | 06998 | 06999 | 10001 | 10002 | 10003 | 10004 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Fibrosarcoma, Metastatic, Skin | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Parathyroid Gland | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Pars Distalis, Adenoma | | X | X | X | X | X | | | | | X | | | | | | X | X | | X | | | | | | X | | 20 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--|--|---|---|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Clitoral Gland | | | + | + | | | | | | | + | | | | | | | | | | | | | | | | | 6 |
|----------------|--|--|---|---|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|

* .. 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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| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2500.StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|----|
| | 04 | 07 | 07 | 06 | 06 | 07 | 05 | 06 | 05 | 04 | 05 | 07 | 05 | 07 | 06 | 06 | 06 | 07 | 07 | 05 | | 05 | 07 | 07 | 07 |
| ANIMAL ID | 06 | 06 | 06 | 06 | 06 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 09 | 09 | 09 | 09 | 09 | 09 | 09 | 09 | 09 | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Fat Pad, Ovarian/parametrial | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Ovary | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Fibrosarcoma, Metastatic, Skin | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Thecoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Oviduct | | | | | | | | | | | | | | | | | | | | | | | | | 49 |
| Uterus | | | | | | | | | | | | | | | | | | | | | | | | | 49 |
| Polyp Stromal | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | | 49 |
| Sarcoma Stromal | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | | | | | | | | | | | | | | | | | | | | | | | | | 49 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Mediastinal, Fibrosarcoma, Metastatic, Skin | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymph Node, Mandibular | | | | | | | | | | | | | | | | | | | | | | | | | 6 |
| Spleen | | | | | | | | | | | | | | | | | | | | | | | | | 49 |
| Fibrosarcoma, Metastatic, Skin | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2500.StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|
| | 0471 | 0778 | 0779 | 0664 | 0665 | 0775 | 0556 | 0667 | 0558 | 0479 | 0554 | 0773 | 0558 | 0776 | 0666 | 0666 | 0666 | 0772 | 0772 | 0552 | | 0558 | 0772 | 0772 |
| ANIMAL ID | 06272 | 06281 | 06282 | 06291 | 06292 | 06881 | 06882 | 06883 | 06884 | 06885 | 06886 | 06887 | 06888 | 06889 | 06899 | 06899 | 06899 | 06899 | 06899 | 06899 | 06899 | 06899 | 06899 | 06899 |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Glioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | X | | | |
| Nerve Trigeminal | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Sciatic | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Tibial | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Cervical | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Lumbar | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Thoracic | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Glioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | X | | | |
| Nerve Trigeminal | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Sciatic | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Tibial | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Cervical | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Lumbar | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Thoracic | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|--|---|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|
| Lung | + | + | | + | + | | + | + | + | + | + | + | | + | + | + | + | | + | + | + | | | |
| Fibrosarcoma, Metastatic, Skin | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | X | | | |
| Nose | + | | | + | + | | + | + | + | + | + | | + | | + | + | + | + | | + | + | | | |
| Trachea | + | | | + | + | | + | + | + | + | + | | + | | + | + | + | + | | + | + | | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Eye | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25000StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--|----------------------|
| | 07
27 | 06
53 | 06
73 | 07
28 | 06
66 | 07
77 | 07
77 | 06
61 | 07
77 | 03
54 | 05
43 | 04
74 | 07
73 | 06
69 | 06
62 | 05
59 | 07
71 | 06
62 | 06
73 | 05
77 | 06
62 | 07
75 | 06
48 | | |
| ANIMAL ID | 02
00
91 | 02
00
92 | 01
11
01 | 02
11
02 | 01
11
01 | 02
11
02 | 02
11
02 | 02
11
02 | 02
11
03 | 02
23
31 | 04
42
51 | 04
42
56 | 04
42
71 | 04
42
72 | 04
42
81 | 04
42
82 | 04
48
91 | 04
48
92 | 06
64
11 | 06
64
12 | 06
64
21 | 06
64
22 | 06
64
31 | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Esophagus | + | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon
Adenocarcinoma | + + + + X + | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum
Lymphoma Malignant | + | | | | | | | | | | | | | | | | | | | | | | | |
| Liver
Hepatocellular Adenoma
Lymphoma Malignant | + + + + + + X + | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | + | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa
Squamous Cell Papilloma | + | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas
Lymphoma Malignant | + | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach
Lymphoma Malignant
Squamous Cell Papilloma | + | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular
Lymphoma Malignant | + | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

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

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25000StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|-------|-------|
| | 0727 | 0653 | 0673 | 0678 | 0676 | 0677 | 0677 | 0661 | 0671 | 0673 | 0658 | 0648 | 0677 | 0677 | 0666 | 0666 | 0655 | 0679 | 0666 | 0666 | 0677 | 0655 | 0677 | 0666 | | 0649 | |
| | ANIMAL ID | 02091 | 02091 | 02091 | 02091 | 02091 | 02091 | 02091 | 02091 | 02091 | 02091 | 02091 | 02091 | 02091 | 02091 | 02091 | 02091 | 02091 | 02091 | 02091 | 02091 | 02091 | 02091 | 02091 | | 02091 | 02091 |
| Blood Vessel
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | | |
| Heart
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex
Adenoma
Lymphoma Malignant | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | | |
| Adrenal Medulla
Lymphoma Malignant
Pheochromocytoma Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Islets, Pancreatic
Adenoma
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | | |
| Parathyroid Gland
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Pituitary Gland
Lymphoma Malignant
Pars Distalis, Adenoma
Pars Distalis, Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | X | |
| Thyroid Gland | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |

* .. Total animals with tissue examined microscopically; 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | females
(cont...) |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 6 | 7 | 3 | 5 | 4 | 7 | 7 | 6 | 6 | 5 | 7 | 6 | 6 | 7 | 5 | 7 | 6 | 4 | | |
| F1 25000StDose F | 2 | 5 | 7 | 2 | 6 | 2 | 2 | 5 | 0 | 8 | 8 | 6 | 0 | 2 | 1 | 5 | 5 | 0 | 2 | 7 | 2 | 6 | 2 | 7 | 9 | | |
| | 7 | 3 | 3 | 8 | 6 | 7 | 7 | 1 | 7 | 4 | 3 | 4 | 3 | 9 | 6 | 2 | 9 | 1 | 2 | 9 | 3 | 7 | 7 | 5 | 8 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | | |
| | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | | |
| | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 1 | 1 | 2 | 2 | 3 | | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | | |

Lymphoma Malignant

GENERAL BODY SYSTEM

Tissue NOS
 Lipoma

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | | | | + | | | | + | | | | | | | | | + | | | | + | | | | | + |
| Adenoma | | | | | | | | | | | | | | | | | X | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | X | | | | | | |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyp Stromal | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Adenoma | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

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

Experiment Number: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
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 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25000StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|-------|-------|-------|-------|-------|-------|
| | 0727 | 0653 | 0663 | 0678 | 0666 | 0677 | 0677 | 0661 | 0675 | 0673 | 0634 | 0658 | 0643 | 0673 | 0677 | 0666 | 0666 | 0655 | 0670 | 0662 | 0677 | 0656 | 0672 | 0667 | | 0649 | 0675 | 0648 | 0698 | | |
| ANIMAL ID | 02091 | 02290 | 02201 | 02201 | 02211 | 02211 | 02211 | 02211 | 02211 | 02233 | 02233 | 02255 | 02255 | 02266 | 02266 | 02277 | 02277 | 02288 | 02288 | 02299 | 02299 | 02441 | 02441 | 02441 | 02441 | 02466 | 02466 | 02466 | 02466 | 02661 | 02661 |

Lymphoma Malignant

Lymph Node

- Axillary, Lymphoma Malignant
- Cervical, Lymphoma Malignant
- Inguinal, Lymphoma Malignant
- Lumbar, Lymphoma Malignant
- Mediastinal, Lymphoma Malignant
- Pancreatic, Lymphoma Malignant
- Renal, Lymphoma Malignant

Lymph Node, Mandibular
Lymphoma Malignant

Lymph Node, Mesenteric
Lymphoma Malignant

Spleen
Lymphoma Malignant

Thymus
Lymphoma Malignant
Thymoma Benign

INTEGUMENTARY SYSTEM

- Mammary Gland
- Adenocarcinoma
- Adenocarcinoma, Multiple
- 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: 10034 - 04
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 Bisphenol A
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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25000StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|----------------------|--------|
| | 0727 | 0653 | 0663 | 0678 | 0666 | 0677 | 0677 | 0662 | 0672 | 0651 | 0677 | 0634 | 0655 | 0644 | 0673 | 0677 | 0666 | 0666 | 0655 | 0677 | 0666 | 0666 | 0677 | 0655 | | | 0677 |
| | 020091 | 020011 | 020011 | 020011 | 020011 | 020011 | 020011 | 020011 | 020011 | 020011 | 020011 | 020011 | 020011 | 020011 | 020011 | 020011 | 020011 | 020011 | 020011 | 020011 | 020011 | 020011 | 020011 | 020011 | 020011 | 020011 | 020011 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|--|---|---|---|---|---|---|---|---|--|---|---|---|---|---|---|---|--|---|--|---|--|--|---|--|---|
| Fibroadenoma | | | | X | | | | | X | | | | | | | | | | | | X | | | | | X |
| Fibroadenoma, Multiple | | X | X | X | | X | X | X | X | | X | X | X | X | | X | X | | | | X | | | X | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | X | | | | | |
| Skin | | | | | + | | | + | | | | | | | + | | | | + | | | | | | | |
| Basal Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Lipoma | | | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | X |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Deep Invasion | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Glioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Granular Cell Tumor Benign | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Nerve Trigeminal | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE | | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 6 | 7 | 3 | 5 | 4 | 7 | 7 | 6 | 6 | 5 | 7 | 6 | 6 | 7 | 5 | 7 | 6 | 4 |
| F1 25000StDose F | | 2 | 5 | 7 | 2 | 6 | 2 | 2 | 5 | 0 | 8 | 8 | 6 | 0 | 2 | 1 | 5 | 5 | 0 | 2 | 7 | 2 | 6 | 7 | 9 | |
| ANIMAL ID | | 7 | 3 | 3 | 8 | 6 | 7 | 7 | 1 | 7 | 4 | 3 | 4 | 3 | 9 | 6 | 2 | 9 | 1 | 2 | 9 | 3 | 7 | 7 | 8 | |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | |
| ANIMAL ID | | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | |
| ANIMAL ID | | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 3 | 3 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 1 | 1 | 2 | 2 | 3 | |
| ANIMAL ID | | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | |

females (cont...)

- Peripheral Nerve, Sciatic
- Peripheral Nerve, Tibial
- Spinal Cord, Cervical
- Spinal Cord, Lumbar
- Spinal Cord, Thoracic

RESPIRATORY SYSTEM

- Lung Lymphoma Malignant
- Nose Lymphoma Malignant
- Trachea Lymphoma Malignant

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
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SPECIAL SENSES SYSTEM

- Ear Neural Crest Tumor, Benign

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
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URINARY SYSTEM

- Kidney Lymphoma Malignant

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
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* .. Total animals with tissue examined microscopically; 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25000StDose F | DAY ON TEST | 077 | 066 | 067 | 066 | 077 | 077 | 066 | 077 | 035 | 047 | 077 | 066 | 066 | 055 | 076 | 066 | 067 | 055 | 077 | 066 | 047 | 064 | | | | | | | |
| | ANIMAL ID | 2091 | 2221 | 0112 | 0211 | 0211 | 0211 | 0211 | 0211 | 0211 | 0423 | 0425 | 0426 | 0427 | 0428 | 0429 | 0430 | 0431 | 0432 | 0433 | 0434 | 0661 | 0662 | 0663 | 0664 | 0665 | 0666 | 0667 | 0668 | 0669 |

females
(cont...)

Urinary Bladder

SYSTEMIC LESIONS

Multiple Organ
 Lymphoma Malignant

+
 X

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

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

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

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Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------------|--|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | | 7 | 4 | 5 | 7 | 5 | 4 | 4 | 4 | 7 | 4 | 3 | 4 | 7 | 6 | 7 | 7 | 6 | 5 | 6 | 6 | 7 |
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE | | 2 | 4 | 9 | 2 | 9 | 3 | 4 | 6 | 2 | 7 | 9 | 8 | 2 | 3 | 0 | 2 | 6 | 1 | 0 | 5 | 2 |
| F1 25000StDose F | | 7 | 7 | 4 | 8 | 8 | 5 | 6 | 3 | 7 | 0 | 4 | 6 | 7 | 5 | 0 | 6 | 5 | 4 | 3 | 7 | 7 |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 4 | 4 | 4 | 4 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 3 | 4 | 4 | 4 | 5 | 5 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| | | * TOTALS | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Esophagus | | + | + | | + | + | + | + | | + | + | + | | + | + | | + | + | + | + | | 33 |
| Intestine Large, Colon | | + | + | | + | A | + | + | | + | + | + | | + | + | | + | + | + | + | | 33 |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | 1 |
| Intestine Small, Ileum | | + | + | | + | + | + | + | | + | + | + | | + | + | | + | + | + | + | | 33 |
| Lymphoma Malignant | | | | | | X | | | | | | | | | | | | | | | | 1 |
| Liver | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | X | | | | | | | | | | | | | | | | 2 |
| Mesentery | | | | | + | | | | | | | | | | | | | | | | | 3 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | 1 |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pancreas | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Lymphoma Malignant | | | | | | X | | | | | | | | | | | | | | | | 2 |
| Stomach, Forestomach | | + | + | | + | + | + | | | + | + | + | | + | + | | + | + | + | + | | 34 |
| Lymphoma Malignant | | | | | | X | | | | | | | | | | | | | | | | 2 |
| Squamous Cell Papilloma | | | | | | | | X | | | | | | | | | | | | | | 1 |
| Stomach, Glandular | | + | + | | + | A | + | + | | + | + | + | | + | + | | + | + | + | + | | 32 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | 1 |

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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25000StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
| | 0727 | 0447 | 0597 | 0728 | 0598 | 0435 | 0446 | 0463 | 0727 | 0470 | 0344 | 0776 | 0775 | 0665 | 0564 | 0663 | 0654 | 0663 | 0727 | 0727 | |
| ANIMAL ID | 06432 | 06441 | 06444 | 06444 | 06455 | 06822 | 06822 | 06822 | 06822 | 06822 | 06822 | 06822 | 06822 | 06822 | 06822 | 06822 | 06822 | 06822 | 06822 | 06822 | |
| Blood Vessel
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46
1 |
| Heart
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46
2 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex
Adenoma
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46
1
2 |
| Adrenal Medulla
Lymphoma Malignant
Pheochromocytoma Benign | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | 45
1
1 |
| Islets, Pancreatic
Adenoma
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46
1
1 |
| Parathyroid Gland
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46
1 |
| Pituitary Gland
Lymphoma Malignant
Pars Distalis, Adenoma
Pars Distalis, Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46
2
20
1 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |

* .. Total animals with tissue examined microscopically; 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|
| DAY ON TEST | | 7 | 4 | 5 | 7 | 5 | 4 | 4 | 4 | 7 | 4 | 3 | 4 | 7 | 6 | 7 | 7 | 6 | 5 | 6 | 6 | 7 | 7 |
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE | | 2 | 4 | 9 | 2 | 9 | 3 | 4 | 6 | 2 | 7 | 9 | 8 | 2 | 3 | 0 | 2 | 6 | 1 | 0 | 5 | 2 | 7 |
| F1 25000StDose F | | 7 | 7 | 4 | 8 | 8 | 5 | 6 | 3 | 7 | 0 | 4 | 6 | 7 | 5 | 0 | 6 | 5 | 4 | 3 | 7 | 7 | 7 |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 4 | 4 | 4 | 4 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 3 | 4 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 2 |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 |
| | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|-----------|
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | 1 | | |
| Lymph Node | + | + | | | | + | + | | | | | | | | | + | + | | | | | | 11 |
| Axillary, Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | 2 | | |
| Cervical, Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | 2 | | |
| Inguinal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Lumbar, Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | 2 | | |
| Mediastinal, Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | 1 | | |
| Pancreatic, Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | 2 | | |
| Renal, Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | 2 | | |
| Lymph Node, Mandibular | | | | | | | | | | | | | | | | | | | | | 5 | | |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | 2 | | |
| Lymph Node, Mesenteric | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | 2 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | 2 | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | 2 | | |
| Thymoma Benign | | | | | | | | | | | | | | | | | | | | | 1 | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|-----------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Adenocarcinoma, Multiple | | | | | | | | | | | | | | | | | | | | | 2 | | |
| 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: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

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First Dose M/F: 09/25/12 / 09/25/12

Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|--|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|---|---|---|---|---|---|----|
| | | 0727 | 0447 | 0549 | 0728 | 0598 | 0435 | 0446 | 0463 | 0727 | 0470 | 0344 | 0746 | 0675 | 0776 | 0665 | 0514 | 0603 | 0667 | 0727 | | | | | | | | | |
| | | SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25000StDose F | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 06432 | 06442 | 06442 | 06441 | 06452 | 06821 | 06822 | 06822 | 06822 | 06822 | 06822 | 06822 | 06822 | 06822 | 06822 | 06822 | 06822 | 06822 | 06822 | 06822 | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | |
| Fibroadenoma | | | | | | | | | | | | | | | | | | | | X | | 6 | | | | | | | |
| Fibroadenoma, Multiple | | X | X | X | X | | | | | | | | | | | | | | | X | X | X | X | X | X | X | X | X | 28 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | X | | 2 | | | | | | | |
| Skin | | | | | | | | | | | | | | | | | | | | | | 12 | | | | | | | |
| Basal Cell Carcinoma | | X | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | |
| Subcutaneous Tissue, Lipoma | | | | | | | | | | | | | | | | | | | | X | | 1 | | | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | | | | | | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | + | | 2 | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | | | | | | | |
| Carcinoma, Deep Invasion | | | | | | | | | | | | | | | | | | | | X | | 1 | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | X | | 2 | | | | | | | |
| Brain, Cerebellum | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | X | | 2 | | | | | | | |
| Brain, Cerebrum | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | | | | | | | |
| Glioma Malignant | | | | | | | | | | | | | | | | | | | | X | | 1 | | | | | | | |
| Granular Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | X | | 2 | | | | | | | |
| Nerve Trigeminal | | | | | | | | | | | | | | | | | | | | | + | + | + | | 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: 10034 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:21:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25000StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|--|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------|-------|-------|---|----|
| | 07
27 | 04
47 | 05
94 | 07
28 | 05
98 | 04
35 | 04
46 | 04
63 | 07
27 | 04
70 | 03
46 | 07
27 | 06
35 | 07
00 | 07
26 | 06
54 | 05
63 | 06
57 | 06
77 | 07
27 | | | | | |
| ANIMAL ID | 06
44
34
21 | 06
44
44
11 | 06
44
44
22 | 06
44
55
12 | 08
62
66
11 | 08
82
66
21 | 08
82
77
21 | 08
82
77
21 | 08
82
88
21 | 08
82
88
21 | 08
82
99
21 | 08
82
99
21 | 08
82
00
21 | 08
82
00
21 | 10
11
00
21 | 11
11
00
21 | 11
11
00
21 | 11
11
00
21 | 11
11
00
21 | 11
11
00
21 | | | | | |
| Peripheral Nerve, Sciatic | | | | | | | | | | | | | | | | | | | | | | + + + | | 4 | |
| Peripheral Nerve, Tibial | | | | | | | | | | | | | | | | | | | | | | | + + + | | 4 |
| Spinal Cord, Cervical | | | | | | | | | | | | | | | | | | | | | | | + + + | | 4 |
| Spinal Cord, Lumbar | | | | | | | | | | | | | | | | | | | | | | | + + + | | 4 |
| Spinal Cord, Thoracic | | | | | | | | | | | | | | | | | | | | | | | + + + | | 4 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | | | | | | | | | | | | | | | | | | | | | | | + + + | | 37 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | X | | 2 |
| Nose | | | | | | | | | | | | | | | | | | | | | | | + + | | 33 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | X | | 2 |
| Trachea | | | | | | | | | | | | | | | | | | | | | | | + + | | 33 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | X | | 1 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ear | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Neural Crest Tumor, Benign | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | | | | | | | | | | | | | | | | | | | | | | | + + + | | 46 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | X | | 2 |

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

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

