

Experiment Number: 10034 - 03
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: 10:20:03
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		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	2	3	3	3	3	2	3	3	3	3	3	3	3	3	1	3	3	3	3	3	3	3	
	8	6	6	5	6	5	6	6	6	6	6	6	5	6	7	6	6	6	6	6	6	6	
	3	1	2	4	0	9	3	3	2	0	3	3	3	8	4	4	3	2	2	2	4	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	0	2	2	2	2	2	2	4	4	4	4	4	6	6	6	6	8	8	8	
	0	0	0	0	2	2	2	2	2	2	3	3	3	3	4	5	5	5	5	3	3	3	
	7	7	8	8	2	2	3	3	4	4	8	8	9	9	0	4	4	5	5	9	9	9	
	1	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	1	2	1	2	1	2	
																						* TOTALS	

ALIMENTARY SYSTEM

Esophagus	+																			4
Lymphoma Malignant																				1
Intestine Large, Colon	+																			4
Intestine Small, Ileum	+																			4
Liver	+																			22
Lymphoma Malignant	X																			2
Mesentery																				1
Pancreas	+																			22
Lymphoma Malignant	X																			2
Stomach, Forestomach	+																			5
Lymphoma Malignant	X																			2
Stomach, Glandular	+																			4
Lymphoma Malignant	X																			1

CARDIOVASCULAR SYSTEM

Blood Vessel	+																			22
Heart	+																			22
Lymphoma Malignant	X																			2

* .. Total animals with tissue examined microscopically; Total animals with tumor
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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)	2	3	3	3	3	2	3	3	3	3	3	3	3	3	3	1	3	3	3	3	3	3	
RATS MALE	8	6	6	5	6	5	6	6	6	6	6	6	5	6	7	6	6	6	6	6	6	6	
F1 Veh. Ctrl M	3	1	2	4	0	9	3	3	2	0	3	3	3	8	4	4	3	2	2	2	4	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	2	2	2	2	2	2	4	4	4	4	4	4	6	6	6	6	8	8	
	0	0	0	0	2	2	2	2	2	2	3	3	3	3	4	4	5	5	5	5	3	3	
	7	7	8	8	2	2	3	3	4	4	8	8	9	9	0	4	4	5	5	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	
* TOTALS																							

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Lymphoma Malignant	X													X									2
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Lymphoma Malignant	X																						1
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Lymphoma Malignant	X													X									2
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Lymphoma Malignant	X													X									2
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Lymphoma Malignant														X									1

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Preputial Gland											+										+		2

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Lab: NCTR

SPRAGUE DAWLEY (NCTR) RATS MALE F1 Veh. Ctrl M	DAY ON TEST																				* TOTALS		
	0 2 8 3	0 3 6 1	0 3 6 2	0 3 5 4	0 3 6 0	0 2 5 9	0 3 6 3	0 3 6 3	0 3 6 2	0 3 6 0	0 3 6 3	0 3 6 3	0 3 6 3	0 3 5 8	0 3 6 4	0 1 7 4	0 3 6 3	0 3 6 2	0 3 6 2	0 3 6 2		0 3 6 4	0 3 6 4
ANIMAL ID	0 0 0 7 1	0 0 0 7 2	0 0 0 8 1	0 0 0 2 2	0 2 2 2 1	0 2 2 2 2	0 2 2 3 1	0 2 2 3 2	0 2 2 4 1	0 2 2 4 2	0 2 2 4 1	0 4 3 8 2	0 4 3 9 1	0 4 3 9 2	0 4 4 0 1	0 4 4 0 2	0 6 5 4 1	0 6 5 4 2	0 6 5 5 1	0 6 5 5 2	0 6 5 5 1	0 8 3 9 1	0 8 3 9 2
Prostate, Dorsal/lateral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Lymphoma Malignant	X													X									2
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Lymphoma Malignant														X									1
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
HEMATOPOIETIC SYSTEM																							
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Lymphoma Malignant	X													X									2
Lymph Node	+													+									2
Axillary, Lymphoma Malignant	X													X									2
Cervical, Lymphoma Malignant														X									1
Inguinal, Lymphoma Malignant	X													X									2
Lumbar, Lymphoma Malignant	X													X									2
Mediastinal, Lymphoma Malignant														X									1
Pancreatic, Lymphoma Malignant	X													X									2
Renal, Lymphoma Malignant	X													X									2
Lymph Node, Mandibular	+													+									2
Lymphoma Malignant	X													X									2
Lymph Node, Mesenteric	+													+									2
Lymphoma Malignant	X													X									2

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 + .. Tissue examined microscopically
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SPRAGUE DAWLEY (NCTR) RATS MALE F1 Veh. Ctrl M	DAY ON TEST																				* TOTALS		
	0 2 8 3	0 3 6 1	0 3 6 2	0 3 5 4	0 3 6 0	0 2 5 9	0 3 6 3	0 3 6 3	0 3 6 2	0 3 6 0	0 3 6 3	0 3 6 3	0 3 6 3	0 3 6 5	0 3 6 8	0 3 6 7	0 3 6 6	0 3 6 6	0 3 6 6	0 3 6 6		0 3 6 4	0 3 6 4
ANIMAL ID	0 0 0 7 1	0 0 0 7 2	0 0 0 8 1	0 0 0 8 2	0 2 2 2 1	0 2 2 2 2	0 2 2 3 1	0 2 2 3 2	0 2 2 4 1	0 2 2 4 2	0 2 2 4 1	0 4 3 8 2	0 4 3 8 1	0 4 3 9 2	0 4 4 9 1	0 4 4 0 2	0 6 5 4 1	0 6 5 4 2	0 6 5 5 1	0 6 5 5 2	0 8 3 9 1	0 8 3 9 2	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Lymphoma Malignant	X													X									2
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Lymphoma Malignant	X																						1
INTEGUMENTARY SYSTEM																							
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Lymphoma Malignant	X													X									2
Skin																					+	1	
Squamous Cell Papilloma																					X	1	
MUSCULOSKELETAL SYSTEM																							
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Skeletal Muscle																					+	1	
Sarcoma																					X	1	
NERVOUS SYSTEM																							
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Lymphoma Malignant															X								1

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	DAY ON TEST																					
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		
	2	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	1	3	3	3	3	
ANIMAL ID	8	6	6	5	6	5	6	6	6	6	6	6	5	6	7	6	6	6	6	6	6	
	3	1	2	4	0	9	3	3	2	0	3	3	3	8	4	4	3	2	2	2	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	2	2	2	2	2	2	4	4	4	4	4	4	6	6	6	6	8	
	0	0	0	0	2	2	2	2	2	2	3	3	3	3	4	4	5	5	5	5	3	
	7	7	8	8	2	2	3	3	4	4	8	9	9	0	0	4	4	5	5	9	9	
	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	
																					* TOTALS	

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																						+	+	+	5
Lymphoma Malignant	X														X										2
Sarcoma, Metastatic, Skeletal Muscle																								X	1
Nose																						+	+		4
Lymphoma Malignant	X														X										2
Trachea																						+	+		4
Lymphoma Malignant															X										1

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
--------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	-----------

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		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DAY ON TEST		2	3	3	3	3	2	3	3	3	3	3	3	3	3	3	1	3	3	3	3	3
SPRAGUE DAWLEY (NCTR) RATS MALE		8	6	6	5	6	5	6	6	6	6	6	6	5	6	7	6	6	6	6	6	6
F1 Veh. Ctrl M		3	1	2	4	0	9	3	3	2	0	3	3	8	4	4	3	2	2	2	4	4
		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	2	2	2	2	2	2	4	4	4	4	4	4	6	6	6	6	8
		0	0	0	0	2	2	2	2	2	2	3	3	3	3	4	4	5	5	5	5	3
		7	7	8	8	2	2	3	3	4	4	8	8	9	9	0	0	4	4	5	5	9
		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										X										2
Urinary Bladder																	+					1
SYSTEMIC LESIONS																						
Multiple Organ		+																				22
Lymphoma Malignant		X										X										2

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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		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	6	6	6	6
		3	2	3	2	3	3	4	3	2	1	3	3	2	2	2	1	7	3	2	5	5
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	0	0	0	2	2	2	2	2	4	4	4	4	6	6	6	6	8	8
		2	2	2	2	2	2	3	3	3	3	4	4	5	5	5	6	6	6	6	5	5
	2	2	3	3	4	4	8	8	9	9	0	4	4	6	6	3	3	8	8	2	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																							1
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Parathyroid Gland Adenoma	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	21 1
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22

GENERAL BODY SYSTEM

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

NONE

GENITAL SYSTEM

Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Fat Pad, Epididymal																							1
Preputial Gland			+				+					+											3
Prostate, Dorsal/lateral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Lymph Node			+																				1
Lymph Node, Mandibular																							1
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22

* .. Total animals with tissue examined microscopically; Total animals 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 - 03

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: 10:20:03

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	
	0 3 6 3	0 3 6 2	0 3 6 3	0 3 6 2	0 3 6 3	0 3 6 3	0 3 6 4	0 3 6 3	0 3 6 2	0 3 6 1	0 3 6 3	0 3 6 3	0 3 6 2	0 3 6 2	0 3 6 2	0 3 6 1	0 3 6 5	0 3 6 6	0 3 6 2	0 3 6 5		
ANIMAL ID	0 0 2 2 1	0 0 2 2 2	0 0 2 3 1	0 0 2 4 2	0 0 2 4 1	0 0 2 4 2	0 2 3 8 1	0 2 3 8 2	0 2 3 8 1	0 2 3 9 2	0 2 3 9 1	0 2 4 9 0	0 2 4 9 4	0 2 4 9 4	0 2 5 9 6	0 2 5 9 6	0 2 6 9 3	0 2 6 8 3	0 2 6 8 1	0 2 6 8 2	0 2 8 8 1	0 2 8 8 2
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22	
INTEGUMENTARY SYSTEM																						
Mammary Gland	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	21	
Skin				+										+							2	
MUSCULOSKELETAL SYSTEM																						
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22	
NERVOUS SYSTEM																						
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22	
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22	
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22	
Nerve Trigeminal													+	+							2	
Peripheral Nerve, Sciatic													+	+							2	
Peripheral Nerve, Tibial													+	+							2	
Spinal Cord, Cervical													+	+							2	
Spinal Cord, Lumbar													+	+							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 - 03

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: 10:20:03

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 F1 2.5 BPA M		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
		3	2	3	2	3	3	4	3	2	1	3	3	2	2	2	2	1	7	3	2	5	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	0	0	0	2	2	2	2	2	2	4	4	4	4	6	6	6	6	8	8	
		2	2	2	2	2	3	3	3	3	4	4	5	5	5	6	6	6	6	8	8		
		2	2	3	3	4	4	8	8	9	9	0	4	4	6	6	3	3	8	8			
		1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	* TOTALS	
Spinal Cord, Thoracic																						2	
RESPIRATORY SYSTEM																							
NONE																							
SPECIAL SENSES SYSTEM																							
NONE																							
URINARY SYSTEM																							
Kidney																						22	
SYSTEMIC LESIONS																							
Multiple Organ																						22	

* .. Total animals with tissue examined microscopically; Total animals 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 - 03
 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: 10:20:03
 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
	0363	0362	0362	0360	0365	0360	0363	0363	0361	0363	0363	0363	0363	0363	0363	0363	0363	0363	0363	0363	
ANIMAL ID	00381	00382	00381	00382	00384	00384	00385	00385	00385	00385	00385	00387	00387	00387	00387	00386	00386	00388	00388	00386	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3	3	3	3	3	3	3	3	1	3	3	3	3	3	3	3	3	3	3	3	
	6	6	6	6	6	2	6	6	2	6	6	6	6	6	6	6	6	6	6	6	
	3	2	2	0	5	0	1	1	8	3	3	3	3	3	3	2	4	1	3	3	

ALIMENTARY SYSTEM

Esophagus																					2
Intestine Large, Colon																					2
Intestine Small, Ileum																					2
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Mesentery																				+	1
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Stomach, Forestomach																					3
Stomach, Glandular																					2

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20

* .. 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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Experiment Number: 10034 - 03

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: 10:20:03

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																			ANIMAL ID	
	0363	0362	0362	0360	0365	0360	0361	0361	0362	0366	0368	0363	0363	0363	0363	0363	0366	0366	0361		
	0081	0033	0033	0033	0044	0044	0055	0055	0055	0055	0055	0077	0077	0077	0077	0066	0066	0088	0088		
	12	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	* TOTALS

Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Parathyroid Gland	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	19
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Preputial Gland		+			+									+						3
Prostate, Dorsal/lateral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
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 BLANK .. Not examined microscopically

Experiment Number: 10034 - 03
 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: 10:20:03
 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
	0363	0362	0362	0360	0365	0360	0363	0363	0361	0363	0363	0363	0363	0363	0363	0363	0363	0363	0363	0363	
ANIMAL ID	00381	00382	00381	00382	00381	00382	00381	00382	00381	00382	00381	00382	00381	00382	00381	00382	00381	00382	00381	00382	
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
INTEGUMENTARY SYSTEM																					
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
MUSCULOSKELETAL SYSTEM																					
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Skeletal Muscle							+														1
NERVOUS SYSTEM																					
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
RESPIRATORY SYSTEM																					
Lung							+	+		+											3
Nose							+			+											2

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
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Experiment Number: 10034 - 03

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: 10:20:03

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

Trachea																					2
---------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----------

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney																					20
--------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-----------

SYSTEMIC LESIONS

Multiple Organ																					20
----------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-----------

* .. Total animals with tissue examined microscopically; Total animals with tumor
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Experiment Number: 10034 - 03
 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: 10:20:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

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

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24
Mesentery																								+	1
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24

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
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 BLANK .. Not examined microscopically

Experiment Number: 10034 - 03

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: 10:20:03

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		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
F1 250.0 BPA M		3	2	3	3	4	3	0	0	3	3	3	1	4	3	4	4	4	3	3	3	3	4
		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	2	2	2	2	2	4	4	4	4	6	6	6	6	8	8	8
		5	5	5	5	5	5	7	7	7	7	7	8	8	8	8	9	9	9	9	8	8	8
		4	4	5	5	6	6	0	0	1	1	2	2	6	6	7	7	6	6	7	7	0	1
		1	2	1	2	1	2	1	2	1	2	2	1	2	2	1	2	1	2	1	2	1	2
																						* TOTALS	

NONE

GENITAL SYSTEM

Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24
Fat Pad, Epididymal														+									1
Preputial Gland																					+		1
Prostate, Dorsal/lateral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24

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 - 03
 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: 10:20:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

SPRAGUE DAWLEY (NCTR) RATS MALE F1 250.0 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	0	0	0	* TOTALS
		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
		3	2	3	3	4	3	0	0	3	3	3	1	4	3	4	4	4	3	3	3	3	3	3	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	2	2	2	2	2	2	4	4	4	4	6	6	6	6	8	8	8	8	8	
		5	5	5	5	5	7	7	7	7	7	8	8	8	8	9	9	9	9	8	8	8	8	8		
		4	4	5	5	6	0	0	1	1	2	2	6	6	7	7	6	6	7	7	0	0	1	1		
		1	2	1	2	1	2	1	2	1	2	1	2	2	1	2	1	2	1	2	1	2	1	2		

RESPIRATORY SYSTEM

Lung																												+ +	2
------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-----	----------

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney																													+ + + + + + + + + + + + + + + + + + + +	24
--------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---	-----------

SYSTEMIC LESIONS

Multiple Organ																													+ + + + + + + + + + + + + + + + + + + +	24
----------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---	-----------

* .. Total animals with tissue examined microscopically; Total animals 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 - 03
 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: 10:20:03
 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	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3		
	6	6	6	6	0	6	6	6	6	6	6	6	6	6	6	6	6	6	4	6		
	3	3	2	2	1	5	1	1	1	1	2	2	3	3	2	4	3	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	0	0	2	2	2	2	2	2	5	5	5	5	7	7	8	8		
	7	7	7	7	7	7	8	8	8	8	8	8	0	0	0	0	1	1	9	9		
	0	0	1	1	2	2	6	6	7	7	8	8	2	2	3	3	1	1	4	4		
	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2		
																					* TOTALS	

ALIMENTARY SYSTEM

Esophagus																					2
Intestine Large, Colon																					0
Intestine Small, Ileum																					0
Liver	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	19	
Pancreas	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	19	
Stomach, Forestomach																				1	
Stomach, Glandular																				0	

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Islets, Pancreatic	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	19

* .. Total animals with tissue examined microscopically; Total animals 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 - 03
 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: 10:20:03
 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
	0 3 6 3	0 3 6 3	0 3 6 2	0 3 6 2	0 3 6 1	0 3 6 5	0 3 6 1	0 3 6 1	0 3 6 1	0 3 6 1	0 3 6 2	0 3 6 2	0 3 6 3	0 3 6 3	0 3 6 3	0 3 6 2	0 3 6 4	0 3 6 3	0 2 4 5	0 3 6 4	
ANIMAL ID	0 0 7 0 1	0 0 7 0 2	0 0 7 1 1	0 0 7 1 2	0 0 7 2 2	0 0 7 2 2	0 2 8 6 1	0 2 8 6 2	0 2 8 7 1	0 2 8 7 2	0 2 8 8 1	0 2 8 8 2	0 5 8 0 2	0 5 8 0 2	0 5 8 0 3	0 5 8 0 2	0 7 1 1 1	0 7 1 1 1	0 8 9 4 1	0 8 9 4 2	
Parathyroid Gland	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	19
Pituitary Gland Pars Distalis, Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20 1
Thyroid Gland	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	18
GENERAL BODY SYSTEM																					
NONE																					
GENITAL SYSTEM																					
Coagulating Gland	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	18
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Fat Pad, Epididymal										+											1
Preputial Gland																				+	1
Prostate, Dorsal/lateral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Seminal Vesicle	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	18
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20

* .. Total animals with tissue examined microscopically; Total animals 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 - 03
 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: 10:20:03
 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
	0 3 6 3	0 3 6 3	0 3 6 2	0 3 6 2	0 3 6 1	0 3 6 5	0 3 6 1	0 3 6 1	0 3 6 1	0 3 6 1	0 3 6 2	0 3 6 2	0 3 6 3	0 3 6 3	0 3 6 3	0 3 6 2	0 3 6 4	0 3 6 3	0 2 4 5	0 3 6 4	
ANIMAL ID	0 0 7 0 1	0 0 7 0 2	0 0 7 1 1	0 0 7 1 2	0 0 7 2 2	0 0 7 2 6	0 2 8 6 1	0 2 8 6 2	0 2 8 7 1	0 2 8 7 2	0 2 8 8 1	0 2 8 8 2	0 5 8 8 2	0 5 8 8 2	0 5 8 2 1	0 5 8 2 2	0 5 8 3 1	0 7 8 3 1	0 7 8 1 2	0 8 9 1 1	0 8 9 4 2
Bone Marrow	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	18
Lymph Node																		+			1
Lymph Node, Mandibular																		+	+		2
Spleen	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	18
Thymus	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	19
INTEGUMENTARY SYSTEM																					
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	19
Skin										+											1
MUSCULOSKELETAL SYSTEM																					
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
NERVOUS SYSTEM																					
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Nerve Trigeminal													+								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 - 03
 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: 10:20:03
 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			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3				
	6	6	6	6	0	6	6	6	6	6	6	6	6	6	6	6	6	6	4	6				
	3	3	2	2	1	5	1	1	1	1	2	2	3	3	3	2	4	3	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	0	0	2	2	2	2	2	2	5	5	5	5	7	7	8	8				
	7	7	7	7	7	7	8	8	8	8	8	8	0	0	0	0	1	1	9	9				
	0	0	1	1	2	2	6	6	7	7	8	8	2	2	3	3	1	1	4	4				
	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2				
Peripheral Nerve, Sciatic																					+	1		
Peripheral Nerve, Tibial																					+	1		
Spinal Cord, Cervical																					+	1		
Spinal Cord, Lumbar																					+	1		
Spinal Cord, Thoracic																					+	1		
RESPIRATORY SYSTEM																								
Lung																					+	A	+	2
Nose																						A		0
Trachea																						A		0
SPECIAL SENSES SYSTEM																								
NONE																								
URINARY SYSTEM																								
Kidney	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	19			
SYSTEMIC LESIONS																								
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20			

* .. 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 - 03
 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: 10:20:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

SPRAGUE DAWLEY (NCTR) RATS MALE F1 25000 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	3	3	3	3	3	3	3	3	3	3	3	0	3	3	3	3	3	3	3	3	3
	6	6	6	6	6	6	6	6	6	6	6	2	6	6	6	6	6	6	6	6	6	6
	3	0	3	2	4	4	2	1	3	1	2	9	3	3	3	3	3	2	2	4	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	3	3	3	3	3	3	5	5	5	5	5	5	7	7	7	7
	8	8	8	8	8	8	0	0	0	0	0	1	1	1	1	2	2	2	2	2	2	2
	6	6	7	7	8	8	2	2	3	3	4	4	8	9	9	0	0	4	4	5	5	5
	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																							+	1
Intestine Large, Colon																							A	0
Intestine Small, Ileum																							A	0
Intestine Small, Jejunum Adenocarcinoma																							+	1
																							X	1
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		22
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		22
Stomach, Forestomach																							+	1
Stomach, Glandular																							+	1

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		22
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		22

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		22
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		22

* .. Total animals with tissue examined microscopically; Total animals 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 - 03
 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: 10:20:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

SPRAGUE DAWLEY (NCTR) RATS MALE F1 25000 BPA M	DAY ON TEST																				* TOTALS	
	0363	0360	0363	0362	0364	0364	0362	0361	0363	0361	0362	0369	0363	0363	0363	0363	0363	0362	0362	0364		0365
ANIMAL ID	00861	0082	0081	0082	0081	0082	0083	0083	0083	0083	0083	0083	0085	0085	0085	0085	0085	0087	0087	0087	0087	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	21
Pituitary Gland Pars Distalis, Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	X	22 1
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	21
GENERAL BODY SYSTEM																						
NONE																						
GENITAL SYSTEM																						
Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	21
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Preputial Gland																					+	1
Prostate, Dorsal/lateral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	21
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22

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 - 03
 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: 10:20:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

SPRAGUE DAWLEY (NCTR) RATS MALE F1 25000 BPA M	DAY ON TEST																				* TOTALS	
	0363	0360	0363	0362	0364	0364	0362	0361	0363	0361	0362	0369	0363	0363	0363	0363	0363	0362	0362	0364		0365
ANIMAL ID	00861	0082	0081	0082	0081	0082	0083	0083	0083	0083	0083	0083	0085	0085	0085	0085	0085	0087	0087	0087	0087	
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Thymus	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	21
INTEGUMENTARY SYSTEM																						
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
MUSCULOSKELETAL SYSTEM																						
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
NERVOUS SYSTEM																						
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Nerve Trigeminal																						1
Peripheral Nerve, Sciatic																						1
Peripheral Nerve, Tibial																						1
Spinal Cord, Cervical																						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 - 03

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: 10:20:03

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	3	3	3	3	3	3	3	3	3	3	3	0	3	3	3	3	3	3	3	3	
		6	6	6	6	6	6	6	6	6	6	2	6	6	6	6	6	6	6	6	6	
		3	0	3	2	4	4	2	1	3	1	2	9	3	3	3	3	3	2	2	4	5
F1 25000 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	0	3	3	3	3	3	3	5	5	5	5	5	5	7	7	7	7
		8	8	8	8	8	8	0	0	0	0	0	1	1	1	1	2	2	2	2	2	2
		6	6	7	7	8	8	2	2	3	3	4	4	8	8	9	9	0	4	4	5	5
		1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	1	2	1	2
* TOTALS																						
Spinal Cord, Lumbar		+																				1
Spinal Cord, Thoracic		+																				1
RESPIRATORY SYSTEM																						
Lung		+																				1
Nose		A																				0
Trachea		A																				0
SPECIAL SENSES SYSTEM																						
NONE																						
URINARY SYSTEM																						
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
SYSTEMIC LESIONS																						
Multiple Organ		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22

* .. Total animals 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 - 03
 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: 10:20:03
 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...)	
	0	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	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0		
	6	6	6	6	1	6	4	6	6	6	2	6	6	6	6	6	6	6	6	6	6	6	4	6	6	5	0	
	3	3	2	2	9	2	7	0	2	2	4	2	2	2	3	2	5	4	4	3	3	3	9	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	
	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	0	
	0	0	0	0	0	0	1	1	1	1	1	1	3	3	3	3	3	3	3	3	3	3	1	1	2	0		
	0	0	1	1	2	2	6	6	7	7	8	8	2	2	3	3	4	4	5	5	6	6	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	2	1	0		

ALIMENTARY SYSTEM

Esophagus																															
Intestine Large, Colon																															
Intestine Small, Ileum																															
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Stomach, Forestomach																															
Stomach, Glandular																															

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		

* .. Total animals with tissue examined microscopically; Total animals 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 - 03
 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: 10:20:03
 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...)
	0 3 6 3	0 3 6 3	0 3 6 2	0 3 6 2	0 1 6 9	0 3 6 2	0 3 4 7	0 3 6 0	0 3 6 2	0 3 6 2	0 3 6 4	0 3 6 2	0 3 6 2	0 3 6 3	0 3 6 2	0 3 6 5	0 3 6 4	0 3 6 4	0 3 6 3	0 3 6 3	0 3 6 3	0 4 6 9	0 3 6 3	0 3 6 5			
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Thyroid Gland	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
GENERAL BODY SYSTEM																											
NONE																											
GENITAL SYSTEM																											
Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Preputial Gland			+																								
Prostate, Dorsal/lateral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
HEMATOPOIETIC SYSTEM																											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		

* .. Total animals with tissue examined microscopically; Total animals with tumor
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Experiment Number: 10034 - 03
 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: 10:20:03
 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																									males (cont...)	
	0 3 6 3	0 3 6 3	0 3 6 2	0 3 6 2	0 1 6 9	0 3 6 2	0 3 4 7	0 3 6 0	0 3 6 2	0 3 6 2	0 3 6 4	0 3 6 2	0 3 6 2	0 3 6 2	0 3 6 3	0 3 6 2	0 3 6 5	0 3 6 4	0 3 6 4	0 3 6 3	0 3 6 3	0 3 6 4	0 3 6 9	0 3 6 3	0 3 6 5		
ANIMAL ID	0 1 0 0 1	0 1 0 0 2	0 1 0 1 1	0 1 0 1 2	0 1 0 2 1	0 1 0 2 2	0 3 1 6 1	0 3 1 7 2	0 3 1 6 1	0 3 1 7 2	0 3 1 8 1	0 3 1 8 2	0 3 1 8 2	0 5 3 2 1	0 5 3 2 2	0 5 3 3 1	0 5 3 3 2	0 5 3 4 1	0 7 3 4 2	0 7 3 5 1	0 7 3 6 1	0 9 1 6 1	0 9 1 9 2	0 9 1 9 2	0 9 2 9 1		
Lymph Node, Mandibular	+																										
Lymph Node, Mesenteric	+																										
Spleen	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
INTEGUMENTARY SYSTEM																											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skin	+																										
MUSCULOSKELETAL SYSTEM																											
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
NERVOUS SYSTEM																											
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Nerve Trigeminal																										+	+
Peripheral Nerve, Sciatic																										+	+

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
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Experiment Number: 10034 - 03
 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: 10:20:03
 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...)	
	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	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3			
	6	6	6	6	1	6	4	6	6	6	2	6	6	6	6	6	6	6	6	6	6	4	6	6			
	3	3	2	2	9	2	7	0	2	2	4	2	2	2	3	2	5	4	4	3	3	3	9	3			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	1	1	1	1	1	1	3	3	3	3	3	3	5	5	5	5	5	7	7	7	7	9	9	9			
	0	0	0	0	0	0	1	1	1	1	1	1	3	3	3	3	3	3	3	3	3	1	1	2			
	0	0	1	1	2	2	6	6	7	8	8	2	2	3	3	4	4	5	5	6	6	9	9	0			
	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2			
Peripheral Nerve, Tibial																								+	+		
Spinal Cord, Cervical																									+	+	
Spinal Cord, Lumbar																									+	+	
Spinal Cord, Thoracic																									+	+	
RESPIRATORY SYSTEM																											
Lung							+	+																			+
Nose							+	+																			+
Trachea							+	A																			+
SPECIAL SENSES SYSTEM																											
NONE																											
URINARY SYSTEM																											
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Urinary Bladder																											+
SYSTEMIC LESIONS																											
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

* .. Total animals with tissue examined microscopically; Total animals with tumor
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Experiment Number: 10034 - 03
 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	0	
		3	
		6	
		4	
	ANIMAL ID	0	
		9	
		2	
		0	
		2	
			* TOTALS

ALIMENTARY SYSTEM

Esophagus		4
Intestine Large, Colon		3
Intestine Small, Ileum		3
Liver	+	26
Pancreas	+	26
Stomach, Forestomach		4
Stomach, Glandular		4

CARDIOVASCULAR SYSTEM

Blood Vessel	+	26
Heart	+	26

ENDOCRINE SYSTEM

Adrenal Cortex	+	26
Adrenal Medulla	+	26
Islets, Pancreatic	+	26

* .. Total animals with tissue examined microscopically; Total animals with tumor
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 Lab: NCTR

SPRAGUE DAWLEY (NCTR) RATS MALE F1 0.05 EE2 M		DAY ON TEST	ANIMAL ID	* TOTALS
		0	0	
		3	9	
		6	2	
		4	0	
			2	
Parathyroid Gland	+			26
Pituitary Gland	+			26
Thyroid Gland	+			25
GENERAL BODY SYSTEM				
NONE				
GENITAL SYSTEM				
Coagulating Gland	+			26
Epididymis	+			26
Preputial Gland				1
Prostate, Dorsal/lateral Lobe	+			26
Prostate, Ventral Lobe	+			26
Seminal Vesicle	+			26
Testes	+			26
HEMATOPOIETIC SYSTEM				
Bone Marrow	+			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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Experiment Number: 10034 - 03
 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 0.05 EE2 M		DAY ON TEST	ANIMAL ID	* TOTALS
		0		
		3		
		6		
		4		
		0		
		9		
		2		
		0		
		2		
Lymph Node, Mandibular				1
Lymph Node, Mesenteric				1
Spleen	+			25
Thymus	+			26
INTEGUMENTARY SYSTEM				
Mammary Gland	+			26
Skin				1
MUSCULOSKELETAL SYSTEM				
Bone, Femur	+			26
NERVOUS SYSTEM				
Brain, Brain Stem	+			26
Brain, Cerebellum	+			26
Brain, Cerebrum	+			26
Nerve Trigeminal				2
Peripheral Nerve, Sciatic				2

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Experiment Number: 10034 - 03
 Test Type: CHRONIC
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SPRAGUE DAWLEY (NCTR) RATS MALE F1 0.05 EE2 M		DAY ON TEST	ANIMAL ID	* TOTALS
		0		
		3		
		6		
		4		
		0		
		9		
		2		
		0		
		2		
Peripheral Nerve, Tibial				2
Spinal Cord, Cervical				2
Spinal Cord, Lumbar				2
Spinal Cord, Thoracic				2
RESPIRATORY SYSTEM				
Lung				4
Nose				4
Trachea				3
SPECIAL SENSES SYSTEM				
NONE				
URINARY SYSTEM				
Kidney			+	26
Urinary Bladder				1
SYSTEMIC LESIONS				
Multiple Organ			+	26

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

ALIMENTARY SYSTEM

Esophagus	+																										+	+
Intestine Large, Colon	A																										A	A
Intestine Small, Ileum	A																										A	A
Intestine Small, Jejunum																												+
Liver	+																											
Pancreas	+																										A	+
Stomach, Forestomach	+																										+	+
Stomach, Glandular	A																										+	A

CARDIOVASCULAR SYSTEM

Blood Vessel	+																											
Heart	+																											

ENDOCRINE SYSTEM

Adrenal Cortex	+																											
Adrenal Medulla	+																											

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SPRAGUE DAWLEY (NCTR) RATS MALE F1 0.50 EE2 M	DAY ON TEST																								ANIMAL ID	males (cont...)	
	0 3 6 3	0 3 4 7	0 3 6 3	0 3 6 3	0 3 6 3	0 3 6 3	0 3 6 2	0 3 6 2	0 3 6 4	0 3 6 4	0 3 6 4	0 3 6 3	0 3 6 3	0 3 6 3	0 3 6 3	0 3 6 2	0 3 6 2	0 3 6 1	0 3 6 3	0 3 6 5	0 3 6 2	0 3 6 1	0 3 6 5	0 3 6 3			
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1 1 2 1	males (cont...)
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1 1 2 1	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1 1 2 1	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	A	+	+	+	+	1 1 2 1	
GENERAL BODY SYSTEM																											
NONE																											
GENITAL SYSTEM																											
Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	A	+	+	+	+	+	1 1 2 1	
Ductus Deferens																										1 1 2 1	
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1 1 2 1	
Fat Pad, Epididymal																										1 1 2 1	
Preputial Gland																										1 1 2 1	
Prostate, Dorsal/lateral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1 1 2 1	
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1 1 2 1	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	A	+	+	+	+	1 1 2 1	

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Experiment Number: 10034 - 03

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

males
(cont...)

Testes	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
--------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

HEMATOPOIETIC SYSTEM

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

Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+
--------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Thymus Lymphoma Malignant	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	M	+	+	+
------------------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
---------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

MUSCULOSKELETAL SYSTEM

Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
-------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

NERVOUS SYSTEM

Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
-------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
-------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
-----------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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 - 03
 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: 10:20:03
 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	males (cont...)			
	0 3 6 3	0 3 4 7	0 3 6 3	0 3 6 3	0 3 6 3	0 3 6 3	0 3 6 2	0 3 6 2	0 3 6 4	0 3 6 4	0 3 6 4	0 3 6 3	0 3 6 3	0 3 6 3	0 3 6 3	0 3 6 2	0 3 6 1	0 3 6 3	0 2 6 8	0 3 6 5			0 3 6 2	0 3 6 1	0 3 6 5
Peripheral Nerve, Tibial	+																								
Spinal Cord, Cervical	+																								
Spinal Cord, Lumbar	+																								
Spinal Cord, Thoracic	+																								
RESPIRATORY SYSTEM																									
Lung	+																					+ +			
Nose	+																					+ +			
Trachea	+																					+ A			
SPECIAL SENSES SYSTEM																									
NONE																									
URINARY SYSTEM																									
Kidney	+ + + + + + + + + + + + + + + + + A + + + + + + +																								
SYSTEMIC LESIONS																									
Multiple Organ Lymphoma Malignant	+ + + + + + + + + + X + + + + + + + + + + + + + +																								

* .. 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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 BLANK .. Not examined microscopically

Experiment Number: 10034 - 03
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 Bisphenol A
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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	0	
		3	
		6	
		5	
	ANIMAL ID	0	
		9	
		2	
		8	
		2	
			* TOTALS

ALIMENTARY SYSTEM

Esophagus		3
Intestine Large, Colon		0
Intestine Small, Ileum		0
Intestine Small, Jejunum		1
Liver	+	26
Pancreas	+	25
Stomach, Forestomach		3
Stomach, Glandular		1

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

Experiment Number: 10034 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

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 Lab: NCTR

SPRAGUE DAWLEY (NCTR) RATS MALE F1 0.50 EE2 M	DAY ON TEST	ANIMAL ID	
	0		
	3		
	6		
	5		
		0	
		9	
		2	
		8	
		2	
			* TOTALS

Islets, Pancreatic	+	26
Parathyroid Gland	+	26
Pituitary Gland	+	26
Thyroid Gland	+	24

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Coagulating Gland	+	24
Ductus Deferens		1
Epididymis	+	26
Fat Pad, Epididymal		1
Preputial Gland		2
Prostate, Dorsal/lateral Lobe	+	26
Prostate, Ventral Lobe	+	26
Seminal Vesicle	+	24

* .. 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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Experiment Number: 10034 - 03
 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: 10:20:03
 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		
		3		
		6		
		5		
		0		
		9		
		2		
		8		
		2		
				* TOTALS
Testes		+		25
HEMATOPOIETIC SYSTEM				
Bone Marrow		+		26
Spleen		+		25
Thymus		+		24
Lymphoma Malignant				1
INTEGUMENTARY SYSTEM				
Mammary Gland		+		25
MUSCULOSKELETAL SYSTEM				
Bone, Femur		+		26
NERVOUS SYSTEM				
Brain, Brain Stem		+		26
Brain, Cerebellum		+		26
Brain, Cerebrum		+		26
Nerve Trigeminal				1
Peripheral Nerve, Sciatic				1

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
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Experiment Number: 10034 - 03
 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: 10:20:03
 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		
		3		
		6		
		5		
		0		
		9		
		2		
		8		
		2		
Peripheral Nerve, Tibial				1
Spinal Cord, Cervical				1
Spinal Cord, Lumbar				1
Spinal Cord, Thoracic				1
RESPIRATORY SYSTEM				
Lung				3
Nose				3
Trachea				2
SPECIAL SENSES SYSTEM				
NONE				
URINARY SYSTEM				
Kidney			+	25
SYSTEMIC LESIONS				
Multiple Organ			+	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
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Experiment Number: 10034 - 03
 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: 10:20:03
 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		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
		6	6	6	5	7	6	6	5	2	1	6	5	6	5	4	6	6	6	6	6	6
	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
ANIMAL ID		1	1	1	1	3	3	3	3	3	3	5	5	5	5	5	5	7	7	9	9	9
		2	2	2	2	4	4	4	4	4	4	5	5	5	5	6	6	5	5	3	3	3
		6	6	7	7	2	2	3	3	4	4	8	8	9	9	0	0	5	5	9	9	9
		1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
																					* TOTALS	

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Hepatocellular Adenoma				X																		1
Mesentery																	+	+				2
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Pars Distalis, Adenoma																X						1
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20

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 + .. Tissue examined microscopically
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M .. Missing tissue
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 BLANK .. Not examined microscopically

Experiment Number: 10034 - 03

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: 10:20:03

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

Lab: NCTR

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

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Prostate, Dorsal/lateral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	19
Skin															+					1

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

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Experiment Number: 10034 - 03
 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: 10:20:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

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

Schwannoma Benign

X

1

MUSCULOSKELETAL SYSTEM

Bone, Femur

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

20

NERVOUS SYSTEM

Brain, Brain Stem

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

20

Brain, Cerebellum

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

20

Brain, Cerebrum

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

20

RESPIRATORY SYSTEM

Lung

+

1

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney

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

20

SYSTEMIC LESIONS

Multiple Organ

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

20

* .. Total animals with tissue examined microscopically; Total animals 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 - 03
 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: 10:20:03
 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 | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------------|---|--|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | | |
| | 6 | 6 | 6 | 5 | 5 | 4 | 4 | 4 | 5 | 4 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 7 | 2 | | | | |
| | 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 | 7 | 7 | 9 | 9 | | | | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 5 | | | | |
| | 2 | 2 | 3 | 3 | 4 | 4 | 8 | 8 | 9 | 9 | 0 | 4 | 4 | 5 | 5 | 8 | 8 | 0 | 0 | | | | | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | | | | |
| | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Intestine Small, Jejunum | | | | | | | | | | | | | | | | | | | | | | 1 |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | 1 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | | | | | 1 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | 1 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Leukemia Granulocytic | | | | | | | | | | | | | | | | | | | | | | 1 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |

* .. Total animals with tissue examined microscopically; Total animals 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 - 03
 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: 10:20:03
 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 | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | |
| | 6 | 6 | 6 | 6 | 5 | 5 | 4 | 4 | 4 | 5 | 4 | 6 | 5 | 5 | 5 | 5 | 5 | 4 | 7 | 2 | | |
| | 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 | 7 | 7 | 9 | 9 | | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 5 | | |
| | 2 | 2 | 3 | 3 | 4 | 4 | 8 | 8 | 9 | 9 | 0 | 4 | 4 | 5 | 5 | 8 | 8 | 0 | 0 | | | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | | |
| | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

Pars Distalis, Adenoma

X

1

Thyroid Gland

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

20

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Coagulating Gland

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

20

Epididymis

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

20

Prostate, Dorsal/lateral Lobe

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

20

Prostate, Ventral Lobe

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

20

Seminal Vesicle

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

20

Testes

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

20

HEMATOPOIETIC SYSTEM

Bone Marrow

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

20

Leukemia Granulocytic

X

1

Lymph Node, Mesenteric

+

1

Spleen

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

20

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
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 10034 - 03
 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: 10:20:03
 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 |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Thymus | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 20 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | 6 | 6 | 6 | 5 | 5 | 4 | 4 | 4 | 5 | 4 | 6 | 5 | 5 | 5 | 5 | 5 | 4 | 7 | 6 | 2 | 20 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 7 | 7 | 9 | 9 | 20 |
| Brain, Cerebellum | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 6 | 6 | 5 | 5 | 20 | |
| Brain, Cerebrum | 2 | 2 | 3 | 3 | 4 | 4 | 8 | 8 | 9 | 9 | 0 | 0 | 4 | 4 | 5 | 5 | 8 | 8 | 0 | 0 | 20 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Lung | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Kidney | | | | | | | | | | | | | | | | | | | | | |
| 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 - 03
 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: 10:20:03
 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 |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0366 | 0366 | 0365 | 0365 | 0366 | 0366 | 0366 | 0365 | 0366 | 0365 | 0366 | 0366 | 0366 | 0366 | 0366 | 0366 | 0366 | 0366 | 0366 | 0366 | |
| ANIMAL ID | 01581 | 01582 | 01581 | 01582 | 01583 | 01583 | 01583 | 01583 | 01583 | 01583 | 01585 | 01585 | 01585 | 01585 | 01585 | 01585 | 01587 | 01587 | 01588 | 01588 | 01588 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 19 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Coagulating Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Prostate, Dorsal/lateral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Prostate, Ventral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| 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 - 03
 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: 10:20:03
 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 |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 3 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | 6 | 6 | 5 | 5 | 6 | 6 | 6 | 5 | 6 | 5 | 6 | 2 | 5 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | |
| | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 8 | 8 | 8 | |
| | 8 | 8 | 0 | 0 | 4 | 4 | 5 | 5 | 6 | 6 | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymph Node, Mandibular | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Lung | | | | | | | | | | | | | | | | | | | | | |
| 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 - 03

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: 10:20:03

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

Trachea + 1

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney + + + + + + + + + + + + + + + + + + 20

SYSTEMIC LESIONS

Multiple Organ + + + + + + + + + + + + + + + + + + 20

* .. Total animals with tissue examined microscopically; Total animals 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 - 03
 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: 10:20:03
 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 |
|--|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|
| SPRAGUE DAWLEY (NCTR)
RATS MALE | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 7 | 7 | 6 | 5 | 5 | 5 | 4 | 6 | 6 | 6 | 5 | 6 | 6 | 6 | 7 | 7 | 4 | 6 | 6 | 6 |
| | F1 250.0StDose M | 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 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 6 | 6 | 7 | 7 | 9 | 9 | 9 | 9 |
| | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 9 | 9 | 8 | 8 | 8 | 8 |
| | 4 | 4 | 5 | 6 | 6 | 0 | 0 | 1 | 1 | 2 | 2 | 6 | 6 | 7 | 6 | 6 | 0 | 0 | 0 | 0 |
| | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 |
| | | | | | | | | | | | | | | | | | | | * TOTALS | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Intestine Small, Jejunum | | | | | | | | | | | | | | | | | | | | + | 1 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| Schwannoma Malignant | | | | | | | | | | | | | | | X | | | | | 1 | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| Pars Distalis, Adenoma | | | | | | | | | | X | | | | | | | | | | 1 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |

* .. Total animals with tissue examined microscopically; Total animals 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 - 03
 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: 10:20:03
 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 |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 250.0StDose M | DAY ON TEST | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | ANIMAL ID | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | 7 | 7 | 7 | 6 | 5 | 5 | 4 | 6 | 6 | 6 | 5 | 6 | 6 | 6 | 7 | 7 | 4 | 6 | 6 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 6 | 6 | 7 | 7 | 9 | 9 | 9 |
| | | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 9 | 9 | 8 | 8 | 8 |
| | | 4 | 4 | 5 | 6 | 6 | 0 | 0 | 1 | 1 | 2 | 2 | 6 | 6 | 7 | 6 | 6 | 0 | 0 | 0 |
| | | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| * TOTALS | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Coagulating Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| Preputial Gland | | | + | | | | | | | | | | | | | | | | | 1 |
| Prostate, Dorsal/lateral Lobe | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 18 |
| Prostate, Ventral Lobe | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 18 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| Lymph Node | | | | + | | | | | | | | | | | | | | | | 1 |
| Lymph Node, Mandibular | | | | + | | | | | | | | | | | | | | | | 1 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |

* .. Total animals with tissue examined microscopically; Total animals 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 - 03
 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: 10:20:03
 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 |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
3
6
7 | 0
3
6
7 | 0
3
6
7 | 0
3
6
5 | 0
3
6
5 | 0
3
6
5 | 0
3
6
4 | 0
3
6
6 | 0
3
6
6 | 0
3
6
6 | 0
3
6
5 | 0
3
6
6 | 0
3
6
6 | 0
3
6
6 | 0
3
6
7 | 0
3
6
7 | 0
3
6
4 | 0
3
6
6 | |
| ANIMAL ID | 0
1
7
4
1 | 0
1
7
4
2 | 0
1
7
5
2 | 0
1
7
6
1 | 0
1
7
6
2 | 0
3
9
0
1 | 0
3
9
0
2 | 0
3
9
1
1 | 0
3
9
1
2 | 0
3
9
1
2 | 0
3
9
2
1 | 0
3
9
2
2 | 0
6
0
6
1 | 0
6
0
6
2 | 0
6
7
7
1 | 0
6
9
6
2 | 0
7
9
6
1 | 0
9
8
6
1 | 0
9
8
0
2 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| Skin | + | | | + | | | | | | | | + | | | | | | | 3 |
| Subcutaneous Tissue, Lipoma | | | | | | | | | | | | X | | | | | | | 1 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | |
| 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 - 03
 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: 10:20:03
 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 | | |
|--|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--|
| SPRAGUE DAWLEY (NCTR)
RATS MALE | DAY ON TEST | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | |
| | | 7 | 7 | 6 | 5 | 5 | 5 | 4 | 6 | 6 | 6 | 5 | 6 | 6 | 6 | 7 | 7 | 4 | 6 | | | |
| | F1 250.0StDose M | | | | | | | | | | | | | | | | | | | | | |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 6 | 6 | 6 | 7 | 7 | 9 | 9 | | |
| | | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 9 | 9 | 8 | 8 | | | |
| | | 4 | 4 | 5 | 6 | 6 | 0 | 0 | 1 | 1 | 2 | 2 | 6 | 6 | 7 | 6 | 6 | 0 | 0 | | | |
| | | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | | |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 | |

* .. Total animals with tissue examined microscopically; Total animals 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 - 03

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: 10:20:03

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

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Mesentery | | | | | | | | + | | | | | | | | | | | | | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | 19 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Pars Distalis, Adenoma | | | | | | | | | X | | | | | | | | | | | | | 1 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |

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 - 03
 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: 10:20:03
 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 | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | F1 2500.StDose M | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | 6 | 5 | 4 | 4 | 4 | 3 | 7 | 6 | 7 | 6 | 5 | 5 | 7 | 6 | 6 | 6 | 5 | 5 | 6 | 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 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 |
| | | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 |
| | | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 6 | 6 | 7 | 7 | 8 | 2 | 2 | 3 | 3 | 4 | 4 | 0 | 0 | 0 |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | |

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Coagulating Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Fat Pad, Epididymal | | | | | | | | | | + | | | | | | | | | | | | 1 |
| Prostate, Dorsal/lateral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Prostate, Ventral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Lymph Node, Mandibular | + | | | | | | | | | | | | | | | | | | | | | 1 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |

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 - 03
 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: 10:20:03
 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 | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| SPRAGUE DAWLEY (NCTR)
RATS MALE | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| F1 2500.StDose M | | 6 | 5 | 4 | 4 | 4 | 3 | 7 | 6 | 7 | 6 | 5 | 5 | 7 | 6 | 6 | 6 | 5 | 5 | 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 | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | | |
| | | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | | |
| | | 0 | 0 | 1 | 1 | 2 | 2 | 6 | 6 | 7 | 7 | 8 | 8 | 2 | 2 | 3 | 3 | 4 | 4 | 0 | 0 | | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | | |
| | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
| Mammary Gland | M M + + + + + + + + + + + + + + + + + + M | | | | | | | | | | | | | | | | | | | | | 17 | |
| Skin | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Subcutaneous Tissue, Fibrosarcoma | | | | | | | | | | | | | | | | | | | | | | 1 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | + | | | | | | | | | | | | | | | | | | | | | 20 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem | + | | | | | | | | | | | | | | | | | | | | | 20 | |
| Brain, Cerebellum | + | | | | | | | | | | | | | | | | | | | | | 20 | |
| Brain, Cerebrum | + | | | | | | | | | | | | | | | | | | | | | 20 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | | | | | | | | | | | | | | | | | | | | | 20 | |
| 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 - 03

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: 10:20:03

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 | |
| DAY ON TEST | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| SPRAGUE DAWLEY (NCTR) | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| RATS MALE | | 6 | 5 | 4 | 4 | 4 | 3 | 7 | 6 | 7 | 6 | 5 | 5 | 7 | 6 | 6 | 6 | 5 | 5 | 6 | |
| F1 2500.StDose M | | 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 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | |
| | | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | |
| | | 0 | 0 | 1 | 1 | 2 | 2 | 6 | 6 | 7 | 7 | 8 | 8 | 2 | 2 | 3 | 3 | 4 | 4 | 0 | 0 |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |

* .. Total animals with tissue examined microscopically; Total animals 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 - 03
 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: 10:20:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

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

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Coagulating Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Fat Pad, Epididymal | | | | | | | | | | | | | | | | | | + | | | | | 1 |
| Prostate, Dorsal/lateral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Prostate, Ventral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

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 - 03
 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: 10:20:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25000StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0366 | 0366 | 0365 | 0365 | 0364 | 0367 | 0365 | 0366 | 0366 | 0365 | 0366 | 0366 | 0365 | 0366 | 0366 | 0365 | 0366 | 0366 | 0365 | 0365 | 0364 | 0363 | |
| ANIMAL ID | 02061 | 02062 | 02067 | 02068 | 02061 | 02062 | 02044 | 02044 | 02044 | 02044 | 02044 | 02066 | 02066 | 02066 | 02066 | 02066 | 02068 | 02068 | 02060 | 02060 | 02068 | 02068 | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | | | | | | | | | | | | + | + | | | | | | | | | 2 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |

*** 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 - 03
 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: 10:20:03
 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 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| F1 Veh. Ctrl F | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| ANIMAL ID | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 4 | 3 | 4 | 3 | 0 | 3 | 3 | 4 | 4 | 1 | 7 | 5 | 8 | 5 | 6 | 6 | 6 | * 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 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 4 | 4 | 4 | 4 | | | |
| | 4 | 4 | 5 | 5 | 6 | 6 | 0 | 0 | 1 | 1 | 2 | 2 | 6 | 7 | 7 | 8 | 8 | 1 | 1 | 2 | 2 | 6 | 6 | 6 | | | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|---|-----------|----------|
| Esophagus | | | | | | | | | | | | | | | | | | | | | | | | | | + | + | + | 3 |
| Intestine Large, Colon | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Intestine Small, Ileum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | 23 | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | 23 | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|-----------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | 23 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | 23 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|-----------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | 23 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | 23 |

* .. Total animals 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 - 03
 Test Type: CHRONIC
 Route: GAVAGE
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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: 10:20:03
 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 | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----|
| | 0
3
6
3 | 0
3
6
3 | 0
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3 | 0
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2 | 0
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3 | 0
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3 | 0
3
6
3 | 0
3
6
2 | 0
3
6
4 | 0
3
6
3 | 0
3
6
4 | 0
3
6
3 | 0
3
6
0 | 0
3
6
3 | 0
3
6
3 | 0
3
6
4 | 0
3
6
4 | 0
3
6
1 | 0
3
6
7 | 0
3
6
5 | | 0
3
6
8 | 0
3
6
5 | 0
3
6
6 | | |
| ANIMAL ID | 0
0
1
4
1 | 0
0
1
4
2 | 0
0
1
5
1 | 0
0
1
6
2 | 0
0
1
6
1 | 0
0
1
6
2 | 0
2
3
0
1 | 0
2
3
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2 | 0
2
3
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2 | 0
2
3
1
2 | 0
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3
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2 | 0
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3
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2 | 0
2
3
2
2 | 0
4
4
2
1 | 0
4
4
2
1 | 0
4
4
7
2 | 0
4
4
8
1 | 0
4
4
8
1 | 0
6
6
1
2 | 0
6
6
2
1 | 0
6
6
2
2 | 0
6
6
4
1 | 0
8
6
6
2 | 0
8
4
6
1 | 0
8
4
6
2 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 23 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 23 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 23 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 23 | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat Pad, Ovarian/parametrial | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 23 |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 23 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 23 |
| Polyp Stromal | | X | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 23 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 23 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 23 |

* .. Total animals with tissue examined microscopically; Total animals 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 - 03

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: 10:20:03

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

Lab: NCTR

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

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 23 |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 23 |
| Fibroadenoma | | | | | | | | X | | | | | | | | | X | | | | | | | 2 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 23 |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 23 |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 23 |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 23 |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|
| Nerve Trigeminal | | | | | | | | | | | | | | | | | | | | | | | | 1 |
|------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|
| Peripheral Nerve, Sciatic | | | | | | | | | | | | | | | | | | | | | | | | 1 |
|---------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|
| Peripheral Nerve, Tibial | | | | | | | | | | | | | | | | | | | | | | | | 1 |
|--------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|
| Spinal Cord, Cervical | | | | | | | | | | | | | | | | | | | | | | | | 1 |
|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|
| Spinal Cord, Lumbar | | | | | | | | | | | | | | | | | | | | | | | | 1 |
|---------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|
| Spinal Cord, Thoracic | | | | | | | | | | | | | | | | | | | | | | | | 1 |
|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|

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

Experiment Number: 10034 - 03

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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 FEMALE | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | 3 | 3 | 3 | 2 | 3 | 1 | 3 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 9 | 7 | 2 | 1 | 5 |
| F1 2.5 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 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 6 | 6 | 8 | 8 | 8 | 8 | 8 |
| | | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 7 | 7 | 5 | 5 | 6 | 6 | 6 | 6 |
| | | 0 | 0 | 1 | 1 | 2 | 2 | 6 | 7 | 7 | 8 | 8 | 2 | 2 | 4 | 4 | 6 | 6 | 9 | 9 | 0 | 0 | 0 |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| | | * TOTALS | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | 21 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |

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 - 03

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: 10:20:03

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 |
|--|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | 3 | 3 | 3 | 2 | 3 | 1 | 3 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 9 | 7 | 2 | 1 | 5 | 6 | 6 |
| F1 2.5 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 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 6 | 6 | 8 | 8 | 8 | 8 | 8 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 7 | 7 | 5 | 5 | 5 | 6 | 6 | |
| | | 0 | 0 | 1 | 1 | 2 | 2 | 6 | 7 | 7 | 8 | 8 | 2 | 2 | 4 | 4 | 6 | 6 | 9 | 9 | 0 | 0 | 0 | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Lymph Node, Mandibular | | | | | | | + | | | | | | | | | | | | | | | | | 1 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | X | | | | | | 1 |
| Fibroadenoma | | | | X | | | | | | | | | | | | | | | X | | | | X | 3 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|
| Bone | | | | | | | | | | | | | | | | | | | | | | | + | 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 - 03

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: 10:20:03

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 | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | 3 | 3 | 3 | 1 | 5 | 4 | 1 | 1 | 4 | 2 | 4 | 3 | 2 | 3 | 4 | 2 | 4 | 4 | 3 | 4 | 4 | 4 |
| | 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 | 0 |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 |
| | | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 | 9 | 9 | 9 | 7 | 7 | 7 |
| | | 6 | 6 | 7 | 7 | 8 | 8 | 2 | 2 | 3 | 3 | 4 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 3 | 3 |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|
| Esophagus | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Intestine Large, Colon | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| Intestine Small, Ileum | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |
| Mesentery | | | + | | | | | | | | | | | | | | | | | | + | | | 2 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | 0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |

* .. Total animals with tissue examined microscopically; Total animals 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 - 03
 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: 10:20:03
 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 | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|---------|
| | 0363 | 0333 | 0333 | 0333 | 0333 | 0333 | 0333 | 0333 | 0333 | 0333 | 0333 | 0333 | 0333 | 0333 | 0333 | 0333 | 0333 | 0333 | 0333 | 0333 | | 0333 | | |
| ANIMAL ID | 00461 | 00442 | 00471 | 00472 | 00481 | 00482 | 00421 | 00422 | 00423 | 00424 | 00421 | 00422 | 00423 | 00424 | 00441 | 00442 | 00443 | 00444 | 00461 | 00462 | 00463 | 00464 | 00481 | 00482 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Parathyroid Gland | M | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | 20 |
| Pituitary Gland
Pars Distalis, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | + | 22
1 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 21 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | | | | | | | | | | | | | | | + | | | | | | | | | 1 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Oviduct | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 21 |
| Uterus
Polyp Stromal | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 21
1 |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 21 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |

* .. Total animals with tissue examined microscopically; Total animals 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 - 03
 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: 10:20:03
 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 | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|-------|----|
| | 030633 | 030633 | 030633 | 030631 | 030635 | 030634 | 030631 | 030631 | 030634 | 030632 | 030634 | 030633 | 030632 | 030634 | 030633 | 030634 | 030634 | 030633 | 030634 | 030634 | | | |
| ANIMAL ID | 00461 | 00442 | 00441 | 00442 | 00448 | 00441 | 00442 | 00443 | 00443 | 00444 | 00442 | 00447 | 00447 | 00447 | 00447 | 00448 | 00448 | 00449 | 00449 | 00449 | 00448 | 00448 | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymph Node, Mandibular | | + | | | | | | | | | | | | | | | | | | | | | 1 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Fibroadenoma | | | | X | | | | | X | | | | | | | | | | | | | | 2 |
| Fibroadenoma, Multiple | | | | | | | | | | | | | X | | | | | | | | | | 1 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Nerve Trigeminal | | | | | | | | | + | | | | | | | | | | | | | | 1 |
| Peripheral Nerve, Sciatic | | | | | | | | | + | | | | | | | | | | | | | | 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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Experiment Number: 10034 - 03
 Test Type: CHRONIC
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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 FEMALE
F1 25.0 BPA 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 | | | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | | | |
| | 3 | 3 | 3 | 1 | 5 | 4 | 1 | 1 | 4 | 2 | 4 | 3 | 2 | 3 | 4 | 2 | 4 | 4 | 3 | 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 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 8 | 8 | | | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 | 9 | 9 | 9 | 7 | 7 | | | |
| | 6 | 6 | 7 | 7 | 8 | 8 | 2 | 2 | 3 | 3 | 4 | 4 | 8 | 8 | 9 | 9 | 9 | 9 | 0 | 0 | 3 | 3 | | | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Tibial | | | | | | | | | | | | | | | | | | | | | + | 1 | | | |
| Spinal Cord, Cervical | | | | | | | | | | | | | | | | | | | | | + | 1 | | | |
| Spinal Cord, Lumbar | | | | | | | | | | | | | | | | | | | | | + | 1 | | | |
| Spinal Cord, Thoracic | | | | | | | | | | | | | | | | | | | | | + | 1 | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | | | | | | | | | | | | | | | | | | | | | + | + | + | + | 4 |
| Nose | | | | | | | | | | | | | | | | | | | | | | + | 1 | | |
| Trachea | | | | | | | | | | | | | | | | | | | | | | + | 1 | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | | | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | | | |

* .. Total animals with tissue examined microscopically; Total animals 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 - 03

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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: 10:20:03

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

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 250.0BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----|
| | 0363 | 0362 | 0363 | 0363 | 0362 | 0365 | 0362 | 0362 | 0362 | 0361 | 0363 | 0363 | 0363 | 0362 | 0363 | 0363 | 0364 | 0363 | 0364 | 0364 | 0364 | 0362 | 0363 | | |
| ANIMAL ID | 00621 | 00622 | 00631 | 00632 | 00641 | 00642 | 00681 | 00682 | 00691 | 00692 | 00698 | 00698 | 00699 | 00699 | 00699 | 00699 | 00699 | 00699 | 00699 | 00699 | 00699 | 00699 | 00699 | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | 23 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 |
| Pars Distalis, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | + | 1 |
| Lymph Node, Mandibular | | | | | | | | | | | | | | | | | | | | | | | | + | 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 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

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RATS FEMALE
F1 250.0BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|--|
| | 0363 | 0362 | 0363 | 0363 | 0362 | 0365 | 0362 | 0362 | 0362 | 0361 | 0363 | 0363 | 0363 | 0362 | 0363 | 0363 | 0364 | 0363 | 0364 | 0364 | 0364 | 0362 | 0363 | 0367 | | 0364 | |
| ANIMAL ID | 00621 | 00622 | 00631 | 00632 | 00641 | 00642 | 00681 | 00682 | 00691 | 00692 | 00697 | 00698 | 00699 | 00699 | 00699 | 00699 | 00699 | 00699 | 00699 | 00699 | 00699 | 00699 | 00699 | 00699 | 00699 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland
Fibroadenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24
1 | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | | | | | + | | | | | | | | | + | | | | | | | | | + | | 3 | | |
| Nose | | | | | | + | | | | | | | | | | | | | | | | | | + | 2 | | |
| Trachea | | | | | | + | | | | | | | | | | | | | | | | | | + | 2 | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

M .. Missing tissue
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| | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| F1 2500.BPA F | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| ANIMAL ID | | 3 | 3 | 3 | 2 | 3 | 2 | 4 | 3 | 4 | 3 | 3 | 2 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 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 | 2 | 2 | 2 | 2 | 2 | 2 | 5 | 5 | 5 | 5 | 7 | 7 | 9 | 9 | 9 |
| | | 7 | 7 | 7 | 7 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| | | 8 | 8 | 9 | 9 | 0 | 0 | 4 | 4 | 5 | 5 | 6 | 0 | 0 | 1 | 1 | 7 | 7 | 1 | 1 | 1 | 1 |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |

GENERAL BODY SYSTEM

NONE

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

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

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 Lab: 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 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| F1 2500.BPA F | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| ANIMAL ID | 3 | 3 | 3 | 2 | 3 | 2 | 4 | 3 | 4 | 3 | 3 | 2 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 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 | 2 | 2 | 2 | 2 | 2 | 2 | 5 | 5 | 5 | 5 | 7 | 7 | 9 | 9 | |
| | 7 | 7 | 7 | 7 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | | |
| | 8 | 8 | 9 | 9 | 0 | 0 | 4 | 4 | 5 | 5 | 6 | 0 | 0 | 1 | 1 | 7 | 7 | 1 | 1 | | |
| | 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 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Polyp Stromal | | | | | X | | | | | X | X | | | | | | | | | | 3 |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Fibroadenoma | | X | | | | | | | | | | | | | | | | | X | | 2 |
| Skin | | | | | | | | | | | | | | | | | | | | + | 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
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| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2500.BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
| | 0
3
6
3 | 0
3
6
3 | 0
3
6
3 | 0
3
6
2 | 0
3
6
3 | 0
3
6
2 | 0
3
6
4 | 0
3
6
3 | 0
3
6
4 | 0
3
6
3 | 0
3
6
2 | 0
3
6
4 | 0
3
6
3 | 0
3
6
4 | 0
3
6
4 | 0
3
6
4 | 0
3
6
4 | 0
3
6
4 | 0
3
6
4 | 0
3
6
2 | |
| ANIMAL ID | 0
0
7
8
1 | 0
0
7
8
2 | 0
0
7
9
1 | 0
0
7
9
2 | 0
0
8
0
1 | 0
0
8
0
2 | 0
2
9
4
1 | 0
2
9
4
2 | 0
2
9
5
1 | 0
2
9
5
2 | 0
2
9
6
1 | 0
2
9
6
2 | 0
5
9
6
1 | 0
5
9
6
2 | 0
5
9
6
1 | 0
5
9
6
2 | 0
7
9
7
1 | 0
7
9
7
2 | 0
9
9
7
1 | 0
9
9
7
2 | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
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 X .. Lesion present
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RATS FEMALE
F1 25000 BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0363 | 0334 | 0335 | 0336 | 0337 | 0338 | 0339 | 0340 | 0341 | 0342 | 0343 | 0344 | 0345 | 0346 | 0347 | 0348 | 0349 | 0350 | 0351 | 0352 | 0353 | 0354 | 0355 | 0356 | |
| ANIMAL ID | 00941 | 00942 | 00945 | 00955 | 00961 | 00962 | 00963 | 00964 | 00965 | 00966 | 00967 | 00968 | 00969 | 00970 | 00971 | 00972 | 00973 | 00974 | 00975 | 00976 | 00977 | 00978 | 00979 | 00981 | 00982 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 9 | 9 | 9 |
| | 4 | 4 | 5 | 5 | 6 | 6 | 0 | 0 | 1 | 1 | 2 | 2 | 6 | 6 | 7 | 7 | 8 | 8 | 1 | 1 | 2 | 2 | 5 | 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 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 |
| Stomach, Forestomach | | | | | | | | | | | + | | | | | | | | | | | | | | 1 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 |
| Parathyroid Gland | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 23 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 |
| Follicular 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
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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: 10:20:03

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

Lab: NCTR

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

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Fat Pad, Ovarian/parametrial

+ +

2

Ovary

+ +

24

Oviduct

+ +

24

Uterus

+ +

24

Polyp Stromal

X X X

3

Vagina

+ +

24

HEMATOPOIETIC SYSTEM

Bone Marrow

+ +

24

Spleen

+ +

24

Thymus

+ +

24

INTEGUMENTARY SYSTEM

Mammary Gland

+ +

24

Fibroadenoma

X X X

5

Fibroadenoma, Multiple

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

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

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 |
| 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

NONE

SPECIAL SENSES SYSTEM

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

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

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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 0.05 EE2 F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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4 | 0
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2 | 0
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7
1 | 0
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7
2 | 0
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2 | 0
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1 | 0
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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland
Pars Distalis, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat Pad, Ovarian/parametrial | | | | | | | | | | | | | | | + | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Oviduct | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Uterus
Polyp Stromal | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Vagina | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
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RATS FEMALE
F1 0.05 EE2 F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
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2 | 0
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2 | |

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

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma | | | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Adenosquamous Carcinoma | | | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibroadenoma | | | | X | | | | | | | | | | | | | | | | | | | | | X | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 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

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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 0.05 EE2 F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|-----------|----------------------|--|--|
| | 0
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3 | 0
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2 | 0
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3 | 0
3
6
4 | 0
3
6
3 | 0
3
6
4 | | | | | |
| Peripheral Nerve, Tibial | | | | | | | | | | | | | | | | | | | | | | | | | | | + | | |
| Spinal Cord, Cervical | | | | | | | | | | | | | | | | | | | | | | | | | | | + | | |
| Spinal Cord, Lumbar | | | | | | | | | | | | | | | | | | | | | | | | | | | + | | |
| Spinal Cord, Thoracic | | | | | | | | | | | | | | | | | | | | | | | | | | | + | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | | | | | | | | | | | | | | | | | | | | | | | | | | | + | | |
| Nose | | | | | | | | | | | | | | | | | | | | | | | | | | | A | | |
| Trachea | | | | | | | | | | | | | | | | | | | | | | | | | | | + | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | | | | | | | | | | | | | | | | | | | | | | | | | | + | | |
| 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
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 Lab: NCTR

| | | | |
|---|-------------|---|-----------------|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 0.05 EE2 F | DAY ON TEST | 0 | |
| | | 3 | |
| | | 6 | |
| | | 3 | |
| | ANIMAL ID | 0 | |
| | | 9 | |
| | | 2 | |
| | | 4 | |
| | | 2 | |
| | | | * TOTALS |

ALIMENTARY SYSTEM

| | | |
|------------------------|---|----|
| Esophagus | | 2 |
| Intestine Large, Colon | | 1 |
| Intestine Small, Ileum | | 1 |
| Liver | + | 26 |
| Mesentery | | 1 |
| Pancreas | + | 26 |
| Stomach, Forestomach | | 2 |
| Stomach, Glandular | | 1 |

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
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RATS FEMALE
F1 0.05 EE2 F | DAY ON TEST | | |
|---|-------------|--|-----------------|
| | ANIMAL ID | | |
| | 0 | | |
| | 3 | | |
| | 6 | | |
| | 3 | | |
| | 0 | | |
| | 9 | | |
| | 2 | | |
| | 4 | | |
| | 2 | | |
| | | | * TOTALS |
| Islets, Pancreatic | + | | 26 |
| Parathyroid Gland | + | | 26 |
| Pituitary Gland | + | | 25 |
| Pars Distalis, Adenoma | | | 1 |
| Thyroid Gland | + | | 26 |
| GENERAL BODY SYSTEM | | | |
| NONE | | | |
| GENITAL SYSTEM | | | |
| Clitoral Gland | | | 1 |
| Fat Pad, Ovarian/parametrial | | | 1 |
| Ovary | + | | 25 |
| Oviduct | + | | 25 |
| Uterus | + | | 25 |
| Polyp Stromal | | | 1 |
| Vagina | + | | 25 |
| 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 - 03
 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: 10:20:03
 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 | | |
| | | 3 | | |
| | | 6 | | |
| | | 3 | | |
| | | 0 | | |
| | | 9 | | |
| | | 2 | | |
| | | 4 | | |
| | | 2 | | |
| Bone Marrow | + | | | 26 |
| Lymph Node, Mandibular | | | | 1 |
| Spleen | + | | | 26 |
| Thymus | + | | | 25 |
| INTEGUMENTARY SYSTEM | | | | |
| Mammary Gland | + | | | 26 |
| Adenocarcinoma | | | | 1 |
| Adenosquamous Carcinoma | | | | 1 |
| Fibroadenoma | | | | 2 |
| MUSCULOSKELETAL SYSTEM | | | | |
| Bone, Femur | + | | | 26 |
| NERVOUS SYSTEM | | | | |
| Brain, Brain Stem | + | | | 26 |
| Brain, Cerebellum | + | | | 26 |
| Brain, Cerebrum | + | | | 26 |
| Nerve Trigeminal | | | | 2 |
| Peripheral Nerve, Sciatic | | | | 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 - 03
 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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 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 | |
| | | 0 | |
| | | 3 | |
| | | 6 | |
| | | 3 | |
| | | 0 | |
| | | 9 | |
| | | 2 | |
| | | 4 | |
| | | 2 | |
| | | | * TOTALS |
| Peripheral Nerve, Tibial | | | 2 |
| Spinal Cord, Cervical | | | 2 |
| Spinal Cord, Lumbar | | | 2 |
| Spinal Cord, Thoracic | | | 2 |
| RESPIRATORY SYSTEM | | | |
| Lung | | | 2 |
| Nose | | | 1 |
| Trachea | | | 2 |
| SPECIAL SENSES SYSTEM | | | |
| Eye | | | 1 |
| URINARY SYSTEM | | | |
| Kidney | | + | 26 |
| 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
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 10034 - 03
 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: 10:20:03
 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
3
6
6 | |
| | ANIMAL ID | 0
9
3
2
2 | |
| | | | * TOTALS |

ALIMENTARY SYSTEM

| | | |
|------------------------|---|----|
| Intestine Large, Cecum | | 1 |
| Liver | + | 26 |
| Mesentery | | 2 |
| Pancreas | + | 26 |

CARDIOVASCULAR SYSTEM

| | | |
|--------------|---|----|
| Blood Vessel | + | 26 |
| Heart | + | 26 |

ENDOCRINE SYSTEM

| | | |
|------------------------|---|----|
| Adrenal Cortex | + | 26 |
| Adrenal Medulla | + | 26 |
| Islets, Pancreatic | + | 26 |
| Parathyroid Gland | + | 25 |
| Pituitary Gland | + | 26 |
| Pars Distalis, Adenoma | | 1 |
| Thyroid Gland | + | 26 |

* .. Total animals with tissue examined microscopically; Total animals 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 - 03
 Test Type: CHRONIC
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P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Bisphenol A
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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 0.50 EE2 F | DAY ON TEST | 0 | |
| | | 3 | |
| | | 6 | |
| | | 6 | |
| | ANIMAL ID | 0 | |
| | | 9 | |
| | | 3 | |
| | | 2 | |
| | | 2 | |
| | | | * TOTALS |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | |
|---------|---|----|
| Ovary | + | 26 |
| Oviduct | + | 26 |
| Uterus | + | 26 |
| Vagina | + | 26 |

HEMATOPOIETIC SYSTEM

| | | |
|------------------------|---|----|
| Bone Marrow | + | 26 |
| Lymph Node, Mandibular | | 1 |
| Spleen | + | 26 |
| Thymus | + | 26 |

INTEGUMENTARY SYSTEM

| | | |
|---------------|---|----|
| Mammary Gland | + | 26 |
| Fibroadenoma | X | 4 |

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 - 03
 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: 10:20:03
 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 | ANIMAL ID | * TOTALS |
|---|---|-------------|-----------|----------|
| | | 0 | 0 | |
| | | 3 | 9 | |
| | | 6 | 3 | |
| | | 6 | 2 | |
| | | | 2 | |
| Bone, Femur | + | | | 26 |
| NERVOUS SYSTEM | | | | |
| Brain, Brain Stem | + | | | 26 |
| Brain, Cerebellum | + | | | 26 |
| Brain, Cerebrum | + | | | 26 |
| 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 | | | | 1 |
| SPECIAL SENSES 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 - 03
 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: 10:20:03
 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 | |
| | | 3 | |
| | | 6 | |
| | | 6 | |
| | ANIMAL ID | 0 | |
| | | 9 | |
| | | 3 | |
| | | 2 | |
| | | 2 | |
| | | | * TOTALS |

URINARY SYSTEM

| | | |
|--------|---|-----------|
| Kidney | + | 26 |
|--------|---|-----------|

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
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 10034 - 03
 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: 10:20:03
 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 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| F1 Veh. StDose F | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| ANIMAL ID | 5 | 4 | 5 | 4 | 6 | 6 | 4 | 2 | 7 | 6 | 7 | 7 | 5 | 5 | 5 | 4 | 3 | 3 | 6 | 6 | 6 |
| | 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 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 7 | 7 | 9 | 9 | 9 | 9 | 9 |
| | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 4 | 4 | 4 | 4 | 4 |
| | 5 | 5 | 6 | 6 | 0 | 0 | 1 | 1 | 2 | 2 | 6 | 6 | 7 | 7 | 2 | 2 | 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 | 2 |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery | + | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

GENERAL BODY SYSTEM

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

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

Experiment Number: 10034 - 03
 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: 10:20:03
 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 |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
| | 0
3
6
5 | 0
3
6
4 | 0
3
6
5 | 0
3
6
4 | 0
3
6
6 | 0
3
6
6 | 0
3
6
4 | 0
3
6
2 | 0
3
6
7 | 0
3
6
6 | 0
3
6
7 | 0
3
6
7 | 0
3
6
5 | 0
3
6
5 | 0
3
6
4 | 0
3
6
3 | 0
3
6
3 | 0
3
6
6 | 0
3
6
6 | | |
| ANIMAL ID | 0
1
3
5
1 | 0
1
3
5
2 | 0
1
3
6
1 | 0
1
3
6
2 | 0
3
5
0
1 | 0
3
5
0
2 | 0
3
5
0
1 | 0
3
5
1
2 | 0
3
5
2
1 | 0
3
5
2
2 | 0
3
5
6
6 | 0
3
5
6
7 | 0
3
5
6
7 | 0
3
5
7
2 | 0
3
6
7
2 | 0
3
6
4
2 | 0
3
6
4
5 | 0
3
6
4
5 | 0
3
6
5
6 | 0
3
6
6
1 | |

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Fibroadenoma | | | | X | | | | | | X | | X | | | | | | X | | | 4 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

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 - 03

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: 10:20:03

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 |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
| | 0
3
6
5 | 0
3
6
4 | 0
3
6
5 | 0
3
6
4 | 0
3
6
6 | 0
3
6
6 | 0
3
6
4 | 0
3
6
2 | 0
3
6
7 | 0
3
6
6 | 0
3
6
7 | 0
3
6
7 | 0
3
6
5 | 0
3
6
5 | 0
3
6
4 | 0
3
6
3 | 0
3
6
3 | 0
3
6
6 | 0
3
6
6 | | |
| ANIMAL ID | 0
1
3
5
1 | 0
1
3
5
2 | 0
1
3
6
1 | 0
1
3
6
2 | 0
3
5
0
1 | 0
3
5
0
2 | 0
3
5
1
1 | 0
3
5
1
2 | 0
3
5
1
2 | 0
3
5
2
2 | 0
3
5
2
1 | 0
5
6
6
7 | 0
5
6
6
1 | 0
5
6
7
2 | 0
7
6
7
2 | 0
7
6
4
2 | 0
9
4
5
1 | 0
9
4
5
2 | 0
9
4
5
1 | 0
9
4
6
1 | |
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Lung | | | | | | | | | | | | | | | | | | | | + | 1 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Eye | | | | | | | | | | | | | | | | | | | | + | 1 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |

* .. Total animals with tissue examined microscopically; Total animals 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 - 03
 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: 10:20:03
 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 | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|
| | 0366 | 0366 | 0366 | 0366 | 0365 | 0365 | 0367 | 0366 | 0365 | 0365 | 0364 | 0364 | 0365 | 0365 | 0364 | 0364 | 0364 | 0360 | 0364 | 0364 | | 0362 |
| ANIMAL ID | 01501 | 01502 | 01501 | 01501 | 01501 | 01501 | 01503 | 01503 | 01503 | 01503 | 01503 | 01503 | 01505 | 01505 | 01505 | 01505 | 01505 | 01507 | 01507 | 01509 | 01509 | |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Clitoral Gland | | | | | | | | | | | | | | | | | | | | | | | + | 1 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 22 |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 22 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 22 |
| Polyp Stromal | | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 22 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 22 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 22 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 22 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 22 |
| Fibroadenoma | | | | X | | | | | | | | | | | | | | | | | | | | 1 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|----|
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 22 |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|----|

* .. Total animals with tissue examined microscopically; Total animals 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 - 03

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: 10:20:03

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) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 6 | 6 | 6 | 6 | 5 | 5 | 7 | 6 | 5 | 5 | 4 | 4 | 5 | 5 | 4 | 4 | 4 | 0 | 4 | 4 | 2 | 2 | |
| RATS FEMALE | 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 | 9 | 9 | 9 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 7 | 5 | 5 | 5 | |
| | 0 | 0 | 1 | 1 | 2 | 2 | 6 | 6 | 7 | 7 | 8 | 8 | 2 | 2 | 3 | 3 | 4 | 4 | 6 | 6 | 9 | 9 | |
| F1 2.5 StDose F | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

* .. Total animals with tissue examined microscopically; Total animals 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 - 03

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: 10:20:03

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 FEMALE | F1 25.0 StDose F | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| ANIMAL ID | | 7 | 6 | 6 | 6 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 5 | 4 | 4 | 4 | 6 | 5 | 6 | 6 | 5 | 5 | |
| | | 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 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 8 | 8 | 9 | 9 | 9 | 9 | 7 | 7 | |
| | | 6 | 6 | 7 | 7 | 8 | 8 | 2 | 2 | 3 | 3 | 4 | 4 | 8 | 8 | 9 | 9 | 0 | 0 | 3 | 3 | 3 | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | | |

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Fibroadenoma | | | | | | | X | | | | | | | | | | | | | | | | 1 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|

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 - 03
 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: 10:20:03
 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 | | |
|--------------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|
| DAY ON TEST | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | |
| F1 25.0 StDose F | | 7 | 6 | 6 | 5 | 5 | 5 | 6 | 6 | 6 | 5 | 4 | 4 | 4 | 6 | 5 | 6 | 6 | 5 | 5 | | |
| ANIMAL ID | | 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 | 7 | 7 | 7 | 7 | 9 | 9 | |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 8 | 8 | 9 | 9 | 9 | 7 | |
| | | 6 | 6 | 7 | 7 | 8 | 8 | 2 | 2 | 3 | 3 | 4 | 4 | 8 | 8 | 9 | 9 | 0 | 0 | 3 | 3 | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |
| | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
| Brain, Brain Stem | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Brain, Cerebellum | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Brain, Cerebrum | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Lung | | | | | | | | | | | | | | | | | + | | | | | 1 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |

* .. Total animals with tissue examined microscopically; Total animals 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 - 03
 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: 10:20:03
 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 |
| ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | 6 | 6 | 5 | 4 | 6 | 6 | 4 | 4 | 5 | 4 | 5 | 3 | 6 | 6 | 7 | 6 | 5 | 5 | 5 | 5 | 6 | |
| | 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 | 4 | 4 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 |
| | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 8 | 8 | 8 | 8 |
| | 2 | 2 | 3 | 3 | 4 | 4 | 8 | 8 | 9 | 9 | 0 | 4 | 4 | 3 | 3 | 4 | 4 | 8 | 8 | 8 | 7 | 7 |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | 1 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Parathyroid Gland
Adenoma | + | + | + | + | + | + | | | | | | | | | | | | | | | | | 22
1 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |

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 - 03
 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: 10:20:03
 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 | |
| | ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | 6 | 4 | 5 | 4 | 6 | 6 | 4 | 4 | 4 | 3 | 6 | 6 | 5 | 5 | 4 | 3 | 6 | 7 | 4 | 4 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | | |
| | | 1 | 1 | 1 | 1 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 0 | 0 | | |
| | | 9 | 9 | 9 | 9 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 1 | 1 | 0 | 0 | | |
| | | 8 | 8 | 9 | 9 | 0 | 0 | 4 | 4 | 5 | 5 | 6 | 0 | 0 | 1 | 1 | 7 | 7 | 1 | 1 | | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |
| | | * TOTALS | | | | | | | | | | | | | | | | | | | | |

Fibroadenoma X 1

MUSCULOSKELETAL SYSTEM

Bone, Femur + 20

NERVOUS SYSTEM

Brain, Brain Stem + 20

Brain, Cerebellum + 20

Brain, Cerebrum + 20

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney + 20

SYSTEMIC LESIONS

Multiple Organ + 20

* .. Total animals with tissue examined microscopically; Total animals 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 - 03
 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: 10:20:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25000StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
3
6
6 | 0
3
6
6 | 0
3
6
6 | 0
3
6
5 | 0
3
6
5 | 0
3
6
5 | 0
3
6
6 | 0
3
6
5 | 0
3
6
6 | 0
3
6
4 | 0
3
6
4 | 0
3
6
3 | 0
3
6
3 | 0
2
5
6 | 0
3
6
4 | 0
3
6
4 | 0
3
6
4 | 0
3
6
3 | 0
0
4
5 | 0
3
6
5 | | 0
3
6
5 |
| ANIMAL ID | 0
2
1
4
1 | 0
2
1
4
2 | 0
2
1
5
1 | 0
2
1
5
1 | 0
2
1
6
2 | 0
2
4
0
1 | 0
4
3
0
2 | 0
4
3
1
2 | 0
4
3
1
2 | 0
4
3
1
2 | 0
4
3
2
1 | 0
4
3
2
1 | 0
6
4
6
1 | 0
6
4
7
2 | 0
6
4
7
1 | 0
6
4
7
2 | 0
6
4
8
1 | 0
6
4
8
2 | 0
8
3
1
2 | 0
8
3
1
2 | 0
8
3
2
1 | 0
8
3
2
2 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Schwannoma Malignant, Metastatic, Tissue Nos | | | | | | | | | | | | | | X | | | | | | | | 1 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | 1 |
| Schwannoma Malignant | | | | | | | | | | | | | | X | | | | | | | | 1 |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Fat Pad, Ovarian/parametrial | | | | | | | | | | | | | | | | | | | | | | 1 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |

* .. Total animals with tissue examined microscopically; Total animals 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 - 03
 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: 10:20:03
 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25000StDose 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 | * TOTALS |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----------|
| | ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Thymus | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 22 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland
Fibroadenoma | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 22 | |
| | 4 | 4 | 5 | 5 | 6 | 6 | 0 | 0 | 1 | 1 | 2 | 2 | 6 | 7 | 7 | 8 | 8 | 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 | 1 | 2 | 1 | 2 | |
| | | | | | | | | X | | | | | | | | X | | | | | | | | 2 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |
| Skeletal Muscle | | | | | | | | | | | | | | | | + | | | | | | + | | 2 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem
Meningioma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |
| | | | | | | | | | | | | | | | | | | | | | | X | | 1 | |
| Brain, Cerebellum
Meningioma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |
| | | | | | | | | | | | | | | | | | | | | | | X | | 1 | |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |
| Nerve Trigeminal | | | | | | | | | | | | | | | | | | | | | | | + | 2 | |
| Peripheral Nerve, Sciatic | | | | | | | | | | | | | | | | | | | | | | | + | 2 | |
| Peripheral Nerve, Tibial | | | | | | | | | | | | | | | | | | | | | | | + | 2 | |
| Spinal Cord, Cervical | | | | | | | | | | | | | | | | | | | | | | | + | 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

