

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

P09: NON-NEOPLASTIC LESIONS 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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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 2	0 3 6 0	0 3 6 3	0 3 6 3	0 3 6 3	0 3 6 5	0 3 6 6	0 3 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 2 0 8 2	0 2 2 2 1	0 2 2 3 2	0 2 2 3 1	0 2 2 3 2	0 2 2 4 1	0 2 2 4 2	0 4 3 8 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 8 3 9 1	0 8 3 9 2
Inflammation, Chronic Active Epithelium, Hyperplasia						1																1 1.0
						1																1 1.0
Stomach, Glandular	+				+									+	+							4
CARDIOVASCULAR SYSTEM																						
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Cardiomyopathy		2	1	2	3	2		1		1	1	1		1	1		1	1		1	2	1
																						16 1.4
ENDOCRINE SYSTEM																						
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Hyperplasia								2	1			2						1	2	1		2
																						7 1.6
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Pars Distalis, Cyst																				X		1
Pars Distalis, Hyperplasia					2			1		1								1				4 1.3
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Ultimobranchial Cyst		X	X	X							X							X				5
C-cell, Hyperplasia						1					1	2	2		3	1	2		3	3		2
																						10 2.0

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0			
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2.0		
	0	0	0	0	2	2	2	2	2	2	4	4	4	4	4	4	4	6	6	6	6	8	8	22	2.0
	0	0	0	0	2	2	2	2	2	2	3	3	3	3	4	4	5	5	5	5	5	3	3	22	2.0
	7	7	8	8	2	2	3	4	4	8	8	9	9	0	0	4	4	5	5	5	9	9	22	2.0	
	1	2	1	2	2	2	1	3	2	1	2	2	1	2	1	2	1	2	1	2	1	2	2	22	2.0
Follicular Cell, Hyperplasia																					2	1 2.0			

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22	
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22	
Exfoliated Germ Cell							1																	1 1.0
Hypospermia					3												4							2 3.5
Preputial Gland										+							+						2	
Inflammation, Suppurative																	3							1 3.0
Duct, Dilatation									3								3							2 3.0
Prostate, Dorsal/lateral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22	
Infiltration Cellular, Lymphocyte				1														1	1		1			4 1.0
Inflammation, Suppurative		1	2	1	1	1	1	2	1	1	1	1	2		2	2	2	2	1	1				18 1.4
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22	
Atrophy	4																							1 4.0
Infiltration Cellular, Lymphocyte			1	1			1			1					1				1	1	1			8 1.0
Inflammation, Suppurative		1	1	1	1			2	1					1		1		1		1				10 1.1
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22	
Atrophy	4																							1 4.0
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22	

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

Seminiferous Tubule, Degeneration

1				4	2		1							1					4				6	2.2
---	--	--	--	---	---	--	---	--	--	--	--	--	--	---	--	--	--	--	---	--	--	--	---	-----

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Lymph Node	+													+										2
Lymph Node, Mandibular	+													+										2
Lymph Node, Mesenteric	+													+										2
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Pigmentation			2	1	2		1	3	1	4	1	2	1		2	1			2	2	2			15 1.8
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Atrophy		3	4	4	4		1	4	4	2	4	1	4		4		4	4	4	4	4	4		18 3.5

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Hyperplasia, Lobular														2										2 2.0
Skin																					+			1

MUSCULOSKELETAL SYSTEM

Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22
Skeletal Muscle																					+			1

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

Adrenal Cortex Vacuolization Cytoplasmic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22	3	2.0
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22		
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22		
Parathyroid Gland Hyperplasia	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	21	5	1.6
Pituitary Gland Pars Distalis, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22	6	1.0
Thyroid Gland Infiltration Cellular, Lymphocyte	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22	1	1.0
Ultimobranchial Cyst			X	X	X	X																	4		
C-cell, Hyperplasia	1				1		1	1			1			3	2	3		2	2	1	1	2	13	1.6	
Follicular Cell, Hyperplasia											3												1	3.0	

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22		
Epididymis Exfoliated Germ Cell	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22	1	1.0
Hypospermia			4			4								4					4				4	4	4.0

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	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 7	0 3 6 3	0 3 6 2	0 3 6 5		0 3 6 5
ANIMAL ID	0 0 2 2 1	0 0 2 2 2	0 0 2 3 1	0 0 2 3 2	0 0 2 4 1	0 0 2 4 2	0 2 2 8 1	0 2 3 8 2	0 2 3 9 1	0 2 3 9 2	0 2 3 0 1	0 2 4 4 2	0 2 4 4 4	0 2 4 4 6	0 2 4 4 6	0 2 4 6 1	0 2 6 6 2	0 2 6 6 1	0 2 6 6 8	0 2 6 8 2	0 2 8 8 1	0 2 8 2 2
Infiltration Cellular, Plasma Cell	3																				1 3.0	
Spleen	+ +																				22	
Pigmentation	2 2 2 2 2 1 2 1 1 2 1 2 1 2 1 2 1 1 1 1																				16 1.6	
Thymus	+ +																				22	
Atrophy	3 4 4 4 4 4 3 2 2 3 4 4 4 4 4 3 4 4 4 3 4																				21 3.6	
INTEGUMENTARY SYSTEM																						
Mammary Gland	+ + + + + + + + + M + + + + + + + + + + +																				21	
Hyperplasia, Lobular																					1 1.0	
Skin																					2	
Cyst Epithelial Inclusion	+ X																				1	
Subcutaneous Tissue, Metaplasia, Osseous	4																				1 4.0	
MUSCULOSKELETAL SYSTEM																						
Bone, Femur	+ +																				22	
NERVOUS SYSTEM																						
Brain, Brain Stem	+ +																				22	
Brain, Cerebellum	+ +																				22	
Brain, Cerebrum	+ +																				22	
Nerve Trigeminal	+ +																				2	

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SPRAGUE DAWLEY (NCTR) RATS MALE F1 2.5 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			0	
	3	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	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	6	6	6	0	
	3	2	3	2	3	3	4	3	2	1	3	3	2	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	0	0	2	2	2	2	2	2	4	4	4	4	6	6	6	6	8	8	0	
	2	2	2	2	2	2	3	3	3	3	4	4	5	5	5	6	6	6	6	5	5	0		
	2	2	3	3	4	4	8	8	9	9	0	0	4	4	6	6	3	3	8	8	2	2	0	
	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	1	2	0		
																						* TOTALS		
Peripheral Nerve, Sciatic																						+ + 2		
Peripheral Nerve, Tibial																						+ + 2		
Spinal Cord, Cervical																						+ + 2		
Spinal Cord, Lumbar Axon, Degeneration																						+ + 2 1 1.0		
Spinal Cord, Thoracic																						+ + 2		

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	22	
Casts Protein		1																					1 1.0
Nephropathy	1		1	1	2		1	2	2	2	1	1	2	1	1	1	1	3	1	1	2	20	1.5
Cortex, Cyst	X					X		X	X	X						X					X	7	
Renal Tubule, Cyst				X				X	X							X		X			X	6	

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	0363	0362	0362	0360	0365	0360	0361	0361	0368	0363	0363	0363	0363	0363	0363	0362	0364	0361	0363	0363	
ANIMAL ID	00381	00382	00391	00392	00401	00402	00421	00422	00451	00455	00455	00455	00456	00461	00462	00471	00472	00481	00482	00486	
Pigmentation Acinus, Degeneration	1			1			1			2	1	1				1	1	1	1		10 1.1
Stomach, Forestomach Cyst, Squamous		1	1	2	2		3	1	1	3	1	1	1	2	3	2		2	1	2	3 1
Stomach, Glandular							+			+											2
CARDIOVASCULAR SYSTEM																					
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Heart Cardiomyopathy	1	1	1	2	2	1	1	1		2	1	1			1	2		1	2	1	20 16 1.3
ENDOCRINE SYSTEM																					
Adrenal Cortex Vacuolization Cytoplasmic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20 1 2.0
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Parathyroid Gland Hyperplasia	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	19 7 1.7
Pituitary Gland Mineralization Pars Distalis, Cyst Multilocular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20 1 3.0
Pars Distalis, Hyperplasia										2				2	1		3	1	2		1 1 1.5

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	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	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	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	6	6	
	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	2	

Rathke's Cleft, Cyst

X

1

Thyroid Gland

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

20

Ultimobranchial Cyst

X X X X X X

6

C-cell, Hyperplasia

1 1 1 1 1 1 2 3

9 1.4

Follicular Cell, Hyperplasia

3 1

2 2.0

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Coagulating Gland

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

20

Epididymis

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

20

Exfoliated Germ Cell

2

1 2.0

Hypospermia

4

1 4.0

Infiltration Cellular, Lymphocyte

1 1 1

3 1.0

Preputial Gland

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

3

Hyperkeratosis

4

1 4.0

Infiltration Cellular, Lymphocyte

2

1 2.0

Inflammation, Suppurative

2 3

2 2.5

Duct, Dilatation

3 2

3 2.3

Prostate, Dorsal/lateral Lobe

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

20

Infiltration Cellular, Lymphocyte

1 1 1 1

5 1.0

Inflammation, Suppurative

1 2 1 1 2 1 2 1 1 2 2 1 2 2 2 1 1 2

18 1.5

Prostate, Ventral Lobe

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

20

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 .. Lesion qualified as:

X .. Lesion present

A .. Autolysis precludes evaluation

1) Minimal 3) Moderate

I .. Insufficient tissue

BLANK .. Not examined microscopically

2) Mild 4) Marked

Experiment Number: 10034 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P09: NON-NEOPLASTIC LESIONS 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 | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|-----|
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| ANIMAL ID | 0
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2 | 0
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2
1 | 0
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6
2
1 | 0
8
6
2 | |
| Infiltration Cellular, Lymphocyte
Inflammation, Suppurative | 1 | | 1 | 1 | | | | 1 | 2 | 1 | 1 | | 1 | | 1 | | | | | 10 | 1.1 |
| | | 1 | 1 | | | | | | | | | | | | 2 | | | 2 | | 4 | 1.5 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Testes
Seminiferous Tubule, Degeneration | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| | 4 | | | | 1 | | 2 | 1 | | 1 | | | 1 | | 1 | | 1 | | 1 | 9 | 1.4 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow
Myeloid Cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| | | | | | | | 2 | | | | | | | | | | | | | 1 | 2.0 |
| Spleen
Pigmentation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| | 2 | 3 | 2 | 2 | 3 | 2 | 1 | 2 | | 2 | 2 | 2 | | 1 | 2 | 3 | | | | 15 | 2.1 |
| Thymus
Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| | 3 | 4 | 4 | 4 | 4 | 4 | 1 | 4 | | | | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 17 | 3.7 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Skeletal Muscle
Foreign Body
Inflammation, Suppurative | | | | | | | + | | | | | | | | | | | | | 1 | |
| | | | | | | | X | | | | | | | | | | | | | 1 | 1 |
| | | | | | | | 4 | | | | | | | | | | | | | 1 | 4.0 |

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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 | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------------|---|
| | 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 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | |
| | 6 | 6 | 6 | 6 | 6 | 2 | 6 | 6 | 2 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 0 | |
| | 3 | 2 | 2 | 0 | 5 | 0 | 1 | 1 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 4 | 1 | 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 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 6 | 6 | 8 | 8 | 0 | | |
| | 3 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 6 | 6 | 0 | | |
| | 8 | 8 | 9 | 9 | 0 | 0 | 4 | 4 | 5 | 5 | 6 | 0 | 1 | 1 | 2 | 2 | 6 | 6 | 6 | 6 | 0 | | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | | | |
| | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |

Necrosis 4 1 4.0

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | |
|-----------------------------------|--|--|--|--|--|---|---|--|---|---|-------|
| Lung | | | | | | + | + | | + | 3 | |
| Hemorrhage | | | | | | | | | 4 | | 1 4.0 |
| Infiltration Cellular, Histiocyte | | | | | | 1 | | | | | 1 1.0 |
| Nose | | | | | | + | | | + | 2 | |
| Foreign Body | | | | | | X | | | | | 1 |
| Hemorrhage | | | | | | | | | 4 | | 1 4.0 |
| Inflammation, Suppurative | | | | | | 2 | | | | | 1 2.0 |
| Trachea | | | | | | + | | | + | 2 | |

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Nephropathy | 3 | 1 | 1 | 1 | 3 | | 2 | 1 | 1 | 2 | 1 | | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | | 18 1.6 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
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Experiment Number: 10034 - 03

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Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

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

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 250.0 BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------|
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2 | 0
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1
2 | 18 1.6 |
| Cardiomyopathy | 1 | | 1 | 1 | | 1 | | | 1 | 2 | | 1 | 1 | 3 | 3 | 1 | 4 | 2 | 2 | | 1 | 1 | 1 | 2 | 18 1.6 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|---------------|--------------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | |
| Hypertrophy | | | | | | | | | | | | | | 1 | | | | | | | | | | | | 1 1.0 |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | 2 | 1 | | | | | | | | | | | | 2 1.5 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |
| Hyperplasia | 2 | | | | 2 | | 2 | | | | | | | 1 | | 2 | | | | | | | | | 5 1.8 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |
| Pars Distalis, Cyst | | | | | X | X | | | | | | | | X | | | | | | | | | | | 3 | |
| Pars Distalis, Hyperplasia | | | | | 1 | | 1 | | | | | | 2 | 2 | | | | | | | | | | | 4 1.5 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |
| Ultimobranchial Cyst | | | | X | | | X | | X | | | X | | | | | | | | | X | | | | 5 | |
| C-cell, Hyperplasia | | | | 2 | | | | | 2 | 3 | | | | 3 | 1 | 2 | 3 | 1 | 1 | 2 | | 1 | 1 | | 12 1.8 | |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | 3 | | | | | | | 2 | | | | | 2 2.5 | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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Experiment Number: 10034 - 03

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Bisphenol A

CAS Number: 80-05-7

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Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 250.0 BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
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| Coagulating Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | |
| Exfoliated Germ Cell | | | | 1 | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Hypospermia | 4 | | | | | | | | | 4 | | | | | | | | | | | | | | 2 4.0 | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | 1 | | | | | | | 1 | | | | | | | | 2 1.0 | |
| Fat Pad, Epididymal | | | | | | | | | | | | | | + | | | | | | | | | | 1 | |
| Necrosis | | | | | | | | | | | | | 4 | | | | | | | | | | | 1 4.0 | |
| Preputial Gland | | | | | | | | | | | | | | | | | | | | | | + | | 1 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 2.0 | |
| Duct, Dilatation | | | | | | | | | | | | | | | | | | | | | | 3 | | 1 3.0 | |
| Prostate, Dorsal/lateral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | 1 | 1 | | 1 | 1 | | 2 | | | | 1 | | 6 1.2 | |
| Inflammation, Suppurative | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | | 1 | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 2 | | 1 | 2 | 2 | 1 | 22 1.6 |
| Prostate, Ventral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | |
| Infiltration Cellular, Lymphocyte | | | | 1 | 1 | 1 | | | | | 1 | 1 | | | | 2 | | 1 | | 1 | | | | 8 1.1 | |
| Inflammation, Suppurative | | | | 1 | | | | | | 1 | | | | | 1 | | | | 2 | 1 | | | | 5 1.2 | |
| Epithelium, Hyperplasia | | | | | | | | | 2 | | | | | | | | | | | | | | | 1 2.0 | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | |
| Seminiferous Tubule, Degeneration | 4 | | | 1 | 1 | | 1 | | | 1 | 4 | 1 | | | 1 | | | 1 | | | | | 1 | 10 1.6 | |

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

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 CAS Number: 80-05-7

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RATS MALE
F1 250.0 BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|--|
| | 030633 | 030666 | 030666 | 030666 | 030666 | 030666 | 030666 | 030666 | 030666 | 030666 | 030666 | 030666 | 030666 | 030666 | 030666 | 030666 | 030666 | 030666 | 030666 | 030666 | 030666 | 030666 | 030666 | 030666 | | 030666 | |
| ANIMAL ID | 00541 | 00542 | 00543 | 00544 | 00545 | 00546 | 00547 | 00548 | 00549 | 00550 | 00551 | 00552 | 00553 | 00554 | 00555 | 00556 | 00557 | 00558 | 00559 | 00560 | 00561 | 00562 | 00563 | 00564 | 00565 | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |
| Spleen Pigmentation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |
| | 2 | 1 | 2 | | 2 | 1 | | | 2 | | 2 | 2 | 1 | 1 | 1 | 2 | | 1 | | 2 | | | 1 | 2 | 16 1.6 | | |
| Thymus Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |
| | 4 | 4 | 3 | | 3 | 1 | | 2 | 4 | 4 | 3 | 2 | 4 | 4 | 4 | 4 | 4 | 2 | 4 | 4 | 3 | 2 | 3 | 3 | 22 3.2 | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland Hyperplasia, Lobular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |
| | | | | | | 1 | | | | | | 2 | | 3 | | | | | | | | | | | 3 2.0 | | |
| Skin Subcutaneous Tissue, Cyst | | | | | | | | | | | | | | | | | | | | | | | + | X | 1 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 10034 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P09: NON-NEOPLASTIC LESIONS 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 | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|------|
| | 0363 | 0332 | 0332 | 0332 | 0331 | 0335 | 0331 | 0331 | 0331 | 0332 | 0332 | 0333 | 0333 | 0333 | 0333 | 0333 | 0333 | 0334 | 0333 | 0323 | | | 0323 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0070 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0077 | |
| | 0 | 0 | 1 | 1 | 2 | 2 | 6 | 6 | 7 | 8 | 8 | 8 | 8 | 8 | 2 | 3 | 3 | 1 | 1 | 1 | 4 | 0001 | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 0011 | |
| | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |

| | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Cardiomyopathy | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | 2 | 1 | 1 | 1 | | | 1 | | 15 1.1 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | 1 | | 1 1.0 |

| | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|

| | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|
| Islets, Pancreatic | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|

| | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Parathyroid Gland | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 | |
| Hyperplasia | | | | | | | | | | | | | 2 | | | 2 | | | | | | 2 2.0 |

| | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Pars Distalis, Cyst | | X | | | | | | | | | | | | | | | | | | | | 1 |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | 1 | | | | 1 | | | | 2 1.0 |

| | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Thyroid Gland | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | 18 | |
| Ultimobranchial Cyst | | | X | | | | | X | | | X | | | X | | | X | | | | | 5 |
| C-cell, Hyperplasia | | | | | | 2 | | | | | | | | 4 | 2 | 1 | 1 | 2 | | 2 | | 7 2.0 |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | 3 | | | | | | | 3 | | | 2 3.0 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 10034 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P09: NON-NEOPLASTIC LESIONS 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 | 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 | |

| | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|------------|
| Coagulating Gland | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | 18 | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Fat Pad, Epididymal Necrosis | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Preputial Gland | | | | | | | | | | | | | | | | | | | | | 1 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | 3 | 3.0 |
| Duct, Dilatation | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Prostate, Dorsal/lateral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Infiltration Cellular, Lymphocyte | 1 | | 1 | | | | | | | | | | 1 | | | | | | 1 | 1 | 5 | 1.0 |
| Inflammation, Suppurative | 2 | | 2 | 3 | 2 | 1 | 2 | 1 | 1 | 1 | 3 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | | 2 | 18 | 1.8 |
| Prostate, Ventral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Infiltration Cellular, Lymphocyte | 1 | | | 1 | | 1 | | | | | | 1 | 2 | | | 1 | 1 | | 1 | | 9 | 1.1 |
| Inflammation, Suppurative | | | | | | | | | | 1 | 1 | | | | 1 | | | | | | 3 | 1.0 |
| Seminal Vesicle | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | 18 | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Seminiferous Tubule, Degeneration | 1 | | | | | | | | | 1 | | | | | 1 | 1 | | | 1 | | 5 | 1.0 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|------------|
| Bone Marrow | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | 18 | |
| Myeloid Cell, Hyperplasia | | | | | | | | | | | | | | | | | 2 | | | | 1 | 2.0 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | 1 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 10034 - 03

Test Type: CHRONIC

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Species/Strain: RATS/Sprague Dawley (NCTR)

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

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Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 2500.BPA M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|----------|
| | 0363 | 0332 | 0332 | 0332 | 0331 | 0335 | 0331 | 0331 | 0331 | 0332 | 0332 | 0333 | 0333 | 0333 | 0333 | 0333 | 0334 | 0333 | 0323 | 0323 | |
| ANIMAL ID | 00701 | 00701 | 00701 | 00701 | 00701 | 00702 | 00702 | 00702 | 00702 | 00702 | 00702 | 00705 | 00705 | 00705 | 00705 | 00707 | 00707 | 00708 | 00708 | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | 3 | |
| Lymph Node, Mandibular | | | | | | | | | | | | | | | | | | | | + | |
| Congestion | | | | | | | | | | | | | | | | | | | | + | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | 2 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | 2 | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | 3 | |
| Spleen | | | | | | | | | | | | | | | | | | | | 3 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | 3 | |
| Thymus | | | | | | | | | | | | | | | | | | | | 3 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | 3 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | 4 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | | | | | | | | | | | | | | | | | | | | + | |
| Hyperplasia, Lobular | | | | | | | | | | | | | | | | | | | | + | |
| Skin | | | | | | | | | | | | | | | | | | | | + | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | X | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | | | | | | | | | | | | | | | | | | | | + | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem | | | | | | | | | | | | | | | | | | | | + | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

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

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Experiment Number: 10034 - 03

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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 | 0363 | 0363 | 0366 | 0366 | 0366 | 0366 | 0366 | 0366 | 0366 | 0366 | 0366 | 0366 | 0366 | 0366 | 0366 | 0366 | 0366 | 0366 | 0366 | | |
| ANIMAL ID | 00861 | 00862 | 00867 | 00872 | 00881 | 00882 | 00882 | 00883 | 00883 | 00883 | 00883 | 00883 | 00883 | 00883 | 00883 | 00883 | 00883 | 00883 | 00883 | 00883 | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |
| Cardiomyopathy | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 4 | | | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 20 1.4 |
| Pigmentation | | | | | | | | 1 | | | | | | | | | | | | | | 1 1.0 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | 1 | | 1 1.0 |
| Hypertrophy | | 1 | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Vacuolization Cytoplasmic | 3 | | | | | | | | | | | | | | | | 1 | | | | | 2 2.0 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |
| Fibrosis | | | | | | | | | | | | | | | | | 2 | | | | | 1 2.0 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | 21 | |
| Hyperplasia | | | | 1 | | | | | | | | | | | | 2 | | | | | | 2 1.5 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |
| Pars Distalis, Cyst | | X | | | | | | | | | | | | | | | X | | | | | 2 |
| Pars Distalis, Cyst Multilocular | | | | X | | | | | | | | | | | | | | | | | | 1 |
| Pars Distalis, Hyperplasia | | | | | | | 1 | | | | | | | | 1 | 2 | 2 | | | | | 4 1.5 |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | X | | | | 1 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 21 | |
| Ultimobranchial Cyst | X | | | | | | | | | | X | | | | X | X | | | X | | X | 7 |
| C-cell, Hyperplasia | 1 | | 2 | | | | 2 | 2 | | 1 | | | | 1 | | 3 | | 1 | | 1 | 1 | 10 1.5 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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Bisphenol A

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Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 0.05 EE2 M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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1 | 0
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|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 1 | 3 | 2 | 2 | | 1 | 2 | 1 | 1 | 1 | 3 | 1 | 1 | | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | | | | 1 | 1 | | | 2 | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ultimobranchial Cyst | | | X | X | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Hyperplasia | 2 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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 | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|---|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 0.05 EE2 M | ANIMAL ID | 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 | 5 | 7 | 7 | 7 | 7 | 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 | 7 | 8 | 8 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 9 | 9 | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 0 | |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coagulating Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Exfoliated Germ Cell | | | | | | | | 1 | | | | | | | | 2 | | | 1 | | | 1 | | |
| Hypospermia | | | | | | | | | | | 4 | | | | | 4 | | | | | | | | 4 |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Preputial Gland | | + | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Duct, Dilatation | | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Prostate, Dorsal/lateral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosis | | | | | | | | | | | | | | | | 2 | | | | | | | | |
| Infiltration Cellular, Lymphocyte | | 1 | 1 | | | | | 1 | | | | 1 | 1 | | | 1 | | | 1 | | | | 1 | 1 |
| Inflammation, Suppurative | 2 | 1 | 1 | 2 | | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 4 |
| Prostate, Ventral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infiltration Cellular, Lymphocyte | | 1 | | | 1 | 1 | | | 1 | | | 1 | 1 | 1 | 1 | 2 | | 1 | | 1 | | | 2 | 1 |
| Inflammation, Suppurative | | 1 | | | | | | | | | | 1 | | | | | | 1 | | | | | | 2 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Seminiferous Tubule, Degeneration | 1 | | 1 | | | | | 2 | | | | 4 | 1 | | | 4 | | 1 | 1 | 1 | 1 | | 4 | |

HEMATOPOIETIC SYSTEM

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

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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 |
|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPRAGUE DAWLEY (NCTR)
RATS MALE | | 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 | 4 | 6 | 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 |
| F1 0.05 EE2 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 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 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 | 1 | 2 | 6 | 7 | 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 |

males
(cont...)

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Nerve Trigeminal | | | | | | | | | | | | | | | | | | | | | | | | + | + |
| Peripheral Nerve, Sciatic | | | | | | | | | | | | | | | | | | | | | | | | + | + |
| Peripheral Nerve, Tibial | | | | | | | | | | | | | | | | | | | | | | | | + | + |
| Spinal Cord, Cervical | | | | | | | | | | | | | | | | | | | | | | | | + | + |
| Spinal Cord, Lumbar
Axon, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | + | + |
| Spinal Cord, Thoracic | | | | | | | | | | | | | | | | | | | | | | | | + | + |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--|--|--|--|--|--|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|
| Lung | | | | | | | + | + | | | | | | | | | | | | | | | | + | |
| Nose
Autolysis | | | | | | | + | + | | | | | | | | | | | | | | | | + | |
| Trachea | | | | | | | + | A | | | | | | | | | | | | | | | | + | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 10034 - 03
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 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 |

GENITAL SYSTEM

| | | | |
|-----------------------------------|---|----|--------|
| Coagulating Gland | + | 26 | |
| Epididymis | + | 26 | |
| Exfoliated Germ Cell | | | 4 1.3 |
| Hypospermia | | | 3 4.0 |
| Infiltration Cellular, Lymphocyte | | | 1 1.0 |
| Preputial Gland | | 1 | |
| Inflammation, Suppurative | | | 1 2.0 |
| Duct, Dilatation | | | 1 2.0 |
| Prostate, Dorsal/lateral Lobe | + | 26 | |
| Fibrosis | | | 1 2.0 |
| Infiltration Cellular, Lymphocyte | | | 9 1.0 |
| Inflammation, Suppurative | 1 | | 25 1.6 |
| Prostate, Ventral Lobe | + | 26 | |
| Infiltration Cellular, Lymphocyte | | | 13 1.2 |
| Inflammation, Suppurative | | | 4 1.3 |
| Seminal Vesicle | + | 26 | |
| Testes | + | 26 | |
| Seminiferous Tubule, Degeneration | | | 12 1.8 |

HEMATOPOIETIC SYSTEM

| | | | |
|-------------|---|----|--|
| Bone Marrow | + | 26 | |
|-------------|---|----|--|

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 10034 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P09: NON-NEOPLASTIC LESIONS 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 | | |
| | | 0 | | |
| | | 3 | | |
| | | 6 | | |
| | | 4 | | |
| | | 0 | | |
| | | 9 | | |
| | | 2 | | |
| | | 0 | | |
| | | 2 | | |
| | | | | * TOTALS |
| Myeloid Cell, Hyperplasia | | | 1 | 4.0 |
| Lymph Node, Mandibular
Hyperplasia, Lymphoid | | | 1 | 3.0 |
| Lymph Node, Mesenteric
Degeneration, Cystic
Hyperplasia, Lymphoid | | | 1 | 3.0 |
| | | | 1 | 2.0 |
| Spleen
Hematopoietic Cell Proliferation
Hyperplasia, Lymphoid
Pigmentation | + | | 25 | 2.0 |
| | | | 1 | 2.0 |
| | | | 18 | 1.7 |
| Thymus
Atrophy | + | | 26 | |
| | 4 | | 24 | 3.5 |
| INTEGUMENTARY SYSTEM | | | | |
| Mammary Gland
Hyperplasia, Lobular | + | | 26 | 1.3 |
| | | | 3 | |
| Skin
Abscess
Foreign Body | | | 1 | 4.0 |
| | | | 1 | |
| MUSCULOSKELETAL SYSTEM | | | | |
| Bone, Femur | + | | 26 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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| | | | |
|---|-------------|---|-----------------|
| 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 |

NERVOUS SYSTEM

| | | | | | |
|---|---|--|--|----|-------|
| Brain, Brain Stem | + | | | 26 | |
| Brain, Cerebellum | + | | | 26 | |
| Brain, Cerebrum | + | | | 26 | |
| Nerve Trigeminal | | | | 2 | |
| Peripheral Nerve, Sciatic | | | | 2 | |
| Peripheral Nerve, Tibial | | | | 2 | |
| Spinal Cord, Cervical | | | | 2 | |
| Spinal Cord, Lumbar
Axon, Degeneration | | | | 2 | 1 2.0 |
| Spinal Cord, Thoracic | | | | 2 | |

RESPIRATORY SYSTEM

| | | | | | |
|-------------------|--|--|--|---|-------|
| Lung | | | | 4 | |
| Nose
Autolysis | | | | 4 | 1 4.0 |
| Trachea | | | | 3 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
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 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 |

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

| | | | | | |
|--------------------|---|---|--|-----------|---------------|
| Kidney | + | | | 26 | |
| Casts Protein | | | | | 1 1.0 |
| Nephropathy | | 1 | | | 23 1.7 |
| Cortex, Cyst | | | | | 3 |
| Renal Tubule, Cyst | | | | | 10 |
| Urinary Bladder | | | | 1 | |
| Lumen, Dilatation | | | | | 1 4.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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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 | males
(cont...) | |
|--|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 0.50 EE2 M | ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| | | 6 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 1 | 3 | 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 | |
| | | 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 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 2 | 2 | 2 | | |
| | | 2 | 2 | 3 | 3 | 4 | 4 | 8 | 8 | 9 | 9 | 0 | 4 | 4 | 5 | 5 | 6 | 6 | 3 | 3 | 4 | 4 | 7 | 7 | 8 | | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coagulating Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + |
| Ductus Deferens
Lumen, Dilatation | | | | | | | | | | | | | | | | | | | | + | | | | | |
| Epididymis
Exfoliated Germ Cell | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hypospermia | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | 4 | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | 1 | | | | | | | | | | | | | 1 | | |
| Fat Pad, Epididymal
Necrosis | | | | | | | | | | | | | | | | | | | | | | | + | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Preputial Gland
Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |
| Duct, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prostate, Dorsal/lateral Lobe
Degeneration, Cystic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | |
| Prostate, Ventral Lobe
Infiltration Cellular, Lymphocyte | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infiltration Cellular, Lymphocyte | 1 | | 1 | 1 | 1 | | | | | 2 | 1 | 1 | 1 | | | | | | | | | | | 1 | 1 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 10034 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P09: NON-NEOPLASTIC LESIONS 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| | 6 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 1 | 3 | 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 | | | |
| | 0 | 0 | 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 | | | |
| | 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 | 3 | 3 | 4 | 4 | 8 | 8 | 9 | 9 | 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 | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Inflammation, Suppurative | 1 | 1 | 1 | | | | | | | | 1 | | | | | | | | | | | | | | | | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + |
| Testes | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Seminiferous Tubule, Degeneration | 1 | | | | | | | 1 | | 1 | | | | | 1 | | | | 1 | | | | 1 | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + |
| Pigmentation | 2 | 4 | 1 | 1 | 1 | 1 | | | | 2 | 2 | 2 | 2 | 2 | | 2 | | 2 | | 3 | | | 1 | 1 | 2 | 1 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | M | + | + | + |
| Atrophy | 4 | 2 | 4 | 3 | 3 | 3 | 3 | 4 | 4 | | 2 | 1 | 3 | 3 | 3 | 4 | 4 | | | 4 | 3 | 3 | | | | | 4 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Lobular | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

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

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 10034 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P09: NON-NEOPLASTIC LESIONS 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 6 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 1 | 3 | 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 | |
| | 0 | 0 | 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 | 4 | 4 | 5 | 5 | 6 | 6 | 3 | 3 | 4 | 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 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ventricle, Dilatation | | | | | | | | | | 2 | 1 | | | | | | | | | | | | | | | |
| Nerve Trigeminal | | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Sciatic | | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Tibial | | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Cervical | | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Lumbar | | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Axon, Degeneration | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Thoracic | | + | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Lung | | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Autolysis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | | + | | | | | | | | | | | | | | | | | | | | | | | | | |

SPECIAL SENSES SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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 | | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 0.50 EE2 M | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | | 3 | 3 |
| ANIMAL ID | 6 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 1 | 3 | 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 | 6 | 6 | 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 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 4 | 4 | 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 | 4 | 7 | 7 | 8 | 8 | 8 | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | |
| Nephropathy | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | | 2 | 1 | 3 | 1 | | | 2 | 2 | 1 | 3 | 1 | 1 | 1 | 1 | |
| Cortex, Cyst | | | | | X | | X | | | | | | | | | | | | | X | | | X | X | | | | |
| Renal Tubule, Cyst | | | | | X | | | | X | | | | | | | X | | | | | | | | X | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 10034 - 03
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 Route: GAVAGE
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P09: NON-NEOPLASTIC LESIONS 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 | 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
Diverticulum | | | | 1 | 1 |
| Liver | + | | | 26 | |
| Clear Cell Focus | | | | | 2 |
| Degeneration, Cystic | | | | 1 | 1.0 |
| Fatty Change | 3 | | | 4 | 2.8 |
| Hepatodiaphragmatic Nodule | | | | 4 | |
| Infiltration Cellular, Mononuclear Cell | | | | 5 | 1.0 |
| Tension Lipidosis | | | | 2 | 2.5 |
| Vacuolization Cytoplasmic | | | | 4 | 1.3 |
| Bile Duct, Cyst | | | | 1 | |
| Bile Duct, Hyperplasia | | | | 4 | 1.0 |
| Pancreas | + | | | 25 | |
| Pigmentation | | | | | 8 1.3 |
| Acinus, Degeneration | 1 | | | | 21 2.1 |
| Stomach, Forestomach | | | | 3 | |
| Stomach, Glandular | | | | 1 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. 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)

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

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

Lab: NCTR

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

CARDIOVASCULAR SYSTEM

| | | | | |
|----------------|---|--|--|--------|
| Blood Vessel | + | | | 26 |
| Heart | + | | | 26 |
| Cardiomyopathy | 3 | | | 23 1.6 |

ENDOCRINE SYSTEM

| | | | | |
|-----------------------------------|---|--|--|-------|
| Adrenal Cortex | + | | | 26 |
| Accessory Adrenal Cortical Nodule | | | | 1 |
| Vacuolization Cytoplasmic | | | | 3 1.7 |
| Adrenal Medulla | + | | | 26 |
| Islets, Pancreatic | + | | | 26 |
| Parathyroid Gland | + | | | 26 |
| Hyperplasia | | | | 4 2.0 |
| Pituitary Gland | + | | | 26 |
| Pars Distalis, Cyst | | | | 3 |
| Pars Distalis, Hyperplasia | | | | 2 1.5 |
| Rathke's Cleft, Cyst | | | | 1 |
| Thyroid Gland | + | | | 24 |
| Ultimobranchial Cyst | X | | | 8 |
| C-cell, Hyperplasia | 2 | | | 9 1.6 |
| Follicular Cell, Hyperplasia | | | | 2 3.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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Species/Strain: RATS/Sprague Dawley (NCTR)

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Bisphenol A

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Lab: NCTR

| | | | |
|--|-------------|---|-----------------|
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RATS MALE
F1 0.50 EE2 M | DAY ON TEST | 0 | |
| | | 3 | |
| | | 6 | |
| | | 5 | |
| | ANIMAL ID | 0 | |
| | | 9 | |
| | | 2 | |
| | | 8 | |
| | | 2 | |
| | | | * TOTALS |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | |
|-----------------------------------|---|----|--------|
| Coagulating Gland | + | 24 | |
| Ductus Deferens | | 1 | |
| Lumen, Dilatation | | | 1 4.0 |
| Epididymis | + | 26 | |
| Exfoliated Germ Cell | | | 2 1.0 |
| Hypospermia | | | 1 4.0 |
| Infiltration Cellular, Lymphocyte | | | 3 1.0 |
| Fat Pad, Epididymal | | 1 | |
| Necrosis | | | 1 4.0 |
| Preputial Gland | | 2 | |
| Inflammation, Suppurative | | | 1 4.0 |
| Duct, Dilatation | | | 1 3.0 |
| Prostate, Dorsal/lateral Lobe | + | 26 | |
| Degeneration, Cystic | | | 1 2.0 |
| Infiltration Cellular, Lymphocyte | | | 4 1.0 |
| Inflammation, Suppurative | 2 | | 25 1.5 |
| Prostate, Ventral Lobe | + | 26 | |
| Infiltration Cellular, Lymphocyte | | | 13 1.1 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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 Species/Strain: RATS/Sprague Dawley (NCTR)

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 Bisphenol A
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 First Dose M/F: 09/25/12 / 09/25/12
 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 0.50 EE2 M | | DAY ON TEST | ANIMAL ID | | |
|---|---|-------------|-----------|--|-----------------|
| | | 0 | 0 | | |
| | | 3 | 9 | | |
| | | 6 | 2 | | |
| | | 5 | 8 | | |
| | | | 2 | | |
| | | | | | * TOTALS |
| Inflammation, Suppurative | | | | | 5 1.0 |
| Seminal Vesicle | + | | | | 24 |
| Testes | + | | | | 25 |
| Seminiferous Tubule, Degeneration | | | | | 6 1.0 |
| HEMATOPOIETIC SYSTEM | | | | | |
| Bone Marrow | + | | | | 26 |
| Spleen | + | | | | 25 |
| Pigmentation | | | | | 18 1.8 |
| Thymus | + | | | | 24 |
| Atrophy | 4 | | | | 21 3.2 |
| INTEGUMENTARY SYSTEM | | | | | |
| Mammary Gland | + | | | | 25 |
| Hyperplasia, Lobular | | | | | 2 1.0 |
| MUSCULOSKELETAL SYSTEM | | | | | |
| Bone, Femur | + | | | | 26 |
| NERVOUS SYSTEM | | | | | |
| Brain, Brain Stem | + | | | | 26 |
| Brain, Cerebellum | + | | | | 26 |

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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)

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Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

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Lab: NCTR

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

| | | | | | |
|---------------------------|---|--|--|-----------|--------------|
| Brain, Cerebrum | + | | | 26 | |
| Ventricle, Dilatation | | | | | 2 1.5 |
| Nerve Trigeminal | | | | 1 | |
| Peripheral Nerve, Sciatic | | | | 1 | |
| Peripheral Nerve, Tibial | | | | 1 | |
| Spinal Cord, Cervical | | | | 1 | |
| Spinal Cord, Lumbar | | | | 1 | |
| Axon, Degeneration | | | | | 1 1.0 |
| Spinal Cord, Thoracic | | | | 1 | |

RESPIRATORY SYSTEM

| | | | | | |
|-----------------------------------|--|--|--|----------|--------------|
| Lung | | | | 3 | |
| Hemorrhage | | | | | 1 2.0 |
| Infiltration Cellular, Histiocyte | | | | | 1 2.0 |
| Nose | | | | 3 | |
| Autolysis | | | | | 1 4.0 |
| Trachea | | | | 2 | |

SPECIAL SENSES SYSTEM

NONE

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

1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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 | 0 | |
| | | 3 | |
| | | 6 | |
| | | 5 | |
| | ANIMAL ID | 0 | |
| | | 9 | |
| | | 2 | |
| | | 8 | |
| | | 2 | |
| | | | * TOTALS |

URINARY SYSTEM

| | | | | |
|--------------------|---|--|----|-----|
| Kidney | + | | 25 | |
| Nephropathy | 4 | | 23 | 1.6 |
| Cortex, Cyst | X | | 6 | |
| Renal Tubule, Cyst | | | 4 | |

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 10034 - 03
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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 | 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 |
| | F1 Veh.StDose M | 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 | 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 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 9 | 9 | 9 | 9 | 9 |
| | | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 5 | 5 | 3 | 3 | 3 | 3 | |
| | | 6 | 6 | 7 | 7 | 2 | 2 | 3 | 3 | 4 | 4 | 8 | 8 | 9 | 9 | 0 | 0 | 5 | 5 | 9 | 9 | 9 | 9 | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Coagulating Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | |
| Hypospermia | | | | | | | | | | | 4 | | | | | | | | | | | | | | 1 | 4.0 |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | 1 | | | | | | | | | | | | 1 | 1.0 |
| Prostate, Dorsal/lateral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | |
| Infiltration Cellular, Lymphocyte | 1 | 1 | 1 | | 1 | | | 1 | | | 1 | 1 | | | | 1 | 1 | | | | | | | | 9 | 1.0 |
| Inflammation, Suppurative | 1 | 1 | 2 | 2 | 2 | | | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | 18 | 1.7 |
| Prostate, Ventral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | |
| Infiltration Cellular, Lymphocyte | 1 | 1 | 1 | | 1 | | | 1 | 1 | 2 | | 1 | 1 | | | | | | | | | | | | 9 | 1.1 |
| Inflammation, Suppurative | | | | 1 | | | | | | | | | | | | | 1 | | 2 | | | | | | 3 | 1.3 |
| Epithelium, Hyperplasia | | | | | | | | | | 2 | | | | | | | | | | | | | | | 1 | 2.0 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | |
| Seminiferous Tubule, Degeneration | | | | | | | | 1 | | 1 | 4 | | | | | 1 | 1 | | | | | 1 | | | 6 | 1.5 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | |
| Pigmentation | 3 | 1 | 2 | 1 | | | | | | | | | | 2 | 2 | 2 | | 1 | 2 | 1 | 3 | 2 | | | 12 | 1.8 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | |

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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 | | | | | | | | | | | | | | | | | | | | 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 | 5 | 7 | 6 | 6 | 5 | 2 | 1 | 6 | 5 | 6 | 5 | 5 | 4 | 6 | 6 | 6 | 6 | | |
| | 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 | 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 | |

| | | | | | | | | | | | | | | | | | | | | | | |
|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------|------------|
| Atrophy | | | | | | | | | | | | | | | | | | | | | 18 | 3.7 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |

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 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|------------|
| Lung | | | | | | | | | | | | | | | | | | | | | 1 | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

| | |
|--|--|
| * .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade | |
| + .. Tissue examined microscopically | M .. Missing tissue |
| X .. Lesion present | A .. Autolysis precludes evaluation |
| I .. Insufficient tissue | BLANK .. Not examined microscopically |
| | 1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 Veh.StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
3
6
6 | 0
3
6
6 | 0
3
6
6 | 0
3
6
5 | 0
3
6
7 | 0
3
6
6 | 0
3
6
6 | 0
3
6
5 | 0
3
6
2 | 0
3
6
1 | 0
3
6
6 | 0
3
6
5 | 0
3
6
6 | 0
3
6
5 | 0
3
6
4 | 0
3
6
6 | 0
3
6
6 | 0
3
6
6 | 0
3
6
6 | 0
3
6
6 | |
| ANIMAL ID | 0
1
2
6
1 | 0
1
2
6
2 | 0
1
2
7
1 | 0
1
2
7
2 | 0
3
4
2
1 | 0
3
4
2
2 | 0
3
4
3
1 | 0
3
4
3
2 | 0
3
4
4
1 | 0
3
4
4
2 | 0
5
5
8
1 | 0
5
5
8
2 | 0
5
5
8
1 | 0
5
5
9
2 | 0
5
6
9
1 | 0
5
6
9
2 | 0
7
5
5
1 | 0
7
5
5
2 | 0
7
5
5
1 | 0
9
3
9
2 | 0
9
3
9
2 |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Casts Protein | | | | 1 | | | | | | | | | | | | | | | | | 1 1.0 |
| Inflammation, Chronic Active | | | | | | | | | 1 | | | | | | | | | | | | 1 1.0 |
| Nephropathy | 2 | 2 | 2 | | 1 | 2 | 2 | 1 | 3 | 2 | 1 | 2 | 2 | 3 | 3 | 1 | 2 | 1 | 2 | 2 | 19 1.9 |
| Cortex, Cyst | | | | | | | | X | | | | | | | | X | | | | | 2 |
| Pelvis, Dilatation | | | | | | | | | | 4 | | | | | | | | | | | 1 4.0 |
| Renal Tubule, Cyst | | | | | | | | X | X | | X | | | | | X | X | | | | 5 |

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

1-4 .. Lesion qualified as:
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Experiment Number: 10034 - 03

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Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

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

Lab: NCTR

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |
| | F1 2.5 StDose M | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | ANIMAL ID | 6 | 6 | 6 | 5 | 5 | 4 | 4 | 4 | 5 | 4 | 6 | 5 | 5 | 5 | 5 | 5 | 4 | 7 | 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 | 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 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Basophilic Focus | | | | | | X | | | X | | | | | | | | | | | | 2 | |
| Degeneration, Cystic | | | | 1 | | | | | | | | | 1 | | | 1 | 1 | | | | 4 1.0 | |
| Fatty Change | | | | | | | | | | | | | | | | | | 2 | | | 1 2.0 | |
| Hepatodiaphragmatic Nodule | | | | | | X | | | | | X | | | | | | | | | | 2 | |
| Infiltration Cellular, Mononuclear Cell | 1 | 1 | | 1 | 1 | | 1 | | 1 | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 13 1.0 | |
| Pigmentation | | | | | | | | | | | | | 1 | | | | | | | | 1 1.0 | |
| Vacuolization Cytoplasmic | | | | | | | | | | | 1 | 1 | | 1 | 2 | | 2 | | | | 5 1.4 | |
| Bile Duct, Hyperplasia | 1 | | | 1 | | | | | | | | | 1 | 2 | 1 | 1 | 1 | 1 | | 1 | 9 1.1 | |
| Biliary Tract, Fibrosis | | | | | | | | | | | | | 1 | | | | | | | | 1 1.0 | |
| Hepatocyte, Necrosis | | | | 1 | | | | | | | | | | | | | | | | | 1 1.0 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Edema | | | | | | | | 3 | | | | | | | | | | | | | 1 3.0 | |
| Pigmentation | | | 1 | 1 | | | | 1 | 1 | 1 | | | 1 | 1 | 1 | | | | | | 8 1.0 | |
| Acinus, Degeneration | 1 | 4 | 2 | 3 | 2 | 4 | 4 | 2 | 1 | 3 | | 2 | 1 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 19 2.4 | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Cardiomyopathy | 1 | 1 | 1 | 3 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 4 | 3 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 20 1.7 |
| Ventricle, Dilatation | | | | | | | | | | 3 | | | | | | | | | | | 1 3.0 |

ENDOCRINE SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
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 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 10034 - 03

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Species/Strain: RATS/Sprague Dawley (NCTR)

P09: NON-NEOPLASTIC LESIONS 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 | 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 | | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 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 | 6 | 6 | 5 | 5 | | | |
| | 2 | 2 | 3 | 3 | 4 | 4 | 8 | 8 | 9 | 9 | 0 | 0 | 4 | 4 | 5 | 8 | 8 | 0 | 0 | | | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | | | | |
| | | | | | | | | | | | | | | | | | | | | * TOTALS | | |

| | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Vacuolization Cytoplasmic | | | | | | | | | | | | 2 | 2 | | | 2 | | | | 3 2.0 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Hyperplasia | | | | 1 | 1 | 1 | | | | | 1 | 1 | | | | 2 | 1 | 1 | 3 | 9 1.3 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Angiectasis | | | 2 | | | | | | | | | | | | | | | | | 1 2.0 |
| Pars Distalis, Cyst | | | | | | | | | X | | | | | | X | | | | | 2 |
| Pars Distalis, Hyperplasia | 1 | | 2 | | | | 1 | | | | | 1 | 1 | | 1 | 1 | 4 | | 1 | 9 1.4 |
| Pars Intermedia, Cyst | | X | | | | | | | | | | | | | | | | | | 1 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Ultimobranchial Cyst | | | | X | X | X | | | | | | | | | | | | | | 3 |
| C-cell, Hyperplasia | | | | | | | 3 | | 2 | | | 3 | 1 | 2 | 3 | 2 | 2 | 3 | | 9 2.3 |
| Follicular Cell, Hyperplasia | | | 3 | | | | | | | | | | | | | | | | | 1 3.0 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Coagulating Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 10034 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P09: NON-NEOPLASTIC LESIONS 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
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
4 | 0
3
6
4 | 0
3
6
5 | 0
3
6
4 | 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
7 | 0
3
6
7 | 0
3
6
5 | 0
3
6
2 | | |
| ANIMAL ID | 0
1
4
2
1 | 0
1
4
2
1 | 0
1
4
3
2 | 0
1
4
4
1 | 0
1
4
4
2 | 0
1
4
4
1 | 0
3
5
8
1 | 0
3
5
8
2 | 0
3
5
9
1 | 0
3
5
9
2 | 0
3
6
9
1 | 0
3
6
9
2 | 0
5
7
0
4 | 0
5
7
0
1 | 0
5
7
4
2 | 0
5
7
4
1 | 0
7
6
5
8 | 0
7
6
5
8 | 0
9
5
0
0 | 0
9
5
0
2 | | |
| Exfoliated Germ Cell | | | | | 2 | 1 | | | | | | | | | | | | | | 2 | 3 1.7 | |
| Granuloma Sperm | | | | | | | | | | | | | | | | | | 4 | | | 4 | 1 4.0 |
| Hypospermia | | | | | 4 | | | | | | | | | | 4 | | | | 4 | 4 | 4 | 4 4.0 |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | 1 | | | | | | | | | 1 | 1 1.0 |
| Prostate, Dorsal/lateral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Fibrosis | | | | | | | | | | | | | | | | | | 2 | | | 2 | 1 2.0 |
| Infiltration Cellular, Lymphocyte | | | | | 1 | 2 | | | | 1 | | | | | | | 1 | | | 1 | 5 | 1.2 |
| Inflammation, Suppurative | | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 19 | 1.4 |
| Prostate, Ventral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Infiltration Cellular, Lymphocyte | 1 | | | 1 | 1 | 1 | 2 | 1 | | | 1 | | | | | | | | | 1 | 8 | 1.1 |
| Inflammation, Suppurative | | 1 | | | | | | | | | | | | | | | | | | 1 | 2 | 1.0 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | 2 | | | | | | | | 1 | 2.0 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Seminiferous Tubule, Degeneration | | | | | 4 | 1 | | | | | | | | 1 | | 4 | 1 | | | 4 | 4 | 7 2.7 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Lymph Node, Mesenteric | | | | | | | | | | | | | | | | | | | | | 1 | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | 3 | 1 3.0 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | 3 | 1 3.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 10034 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P09: NON-NEOPLASTIC LESIONS 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 | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ANIMAL ID | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 7 | 7 | 9 | 9 | | |
| Pigmentation | 1 | 2 | 2 | | | | | | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | | 1 | 1 | 1 | 14 | 1.6 |
| Thymus Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| | 2 | 4 | 4 | 3 | 4 | 4 | 3 | | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 2 | 3 | 4 | 19 | 3.5 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland Hyperplasia, Lobular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| | | | | | | | 1 | | | | | | | | | | | | | | 1 | 1.0 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Lung Pleura, Fibrosis | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

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 | 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 | 4 | 7 | 2 | | |
| | 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 | 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 | 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 | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Nephropathy | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 1 | 2 | 2 | 2 | 2 | 3 | 2 | 1 | 2 | 2 | 20 1.9 |
| Cortex, Cyst | | | | X | | | | | | | | X | X | | | | | X | | | 4 |
| Pelvis, Dilatation | | | | | | | | 3 | | | | | | | | | | | | | 1 3.0 |
| Renal Tubule, Cyst | | | | | | | | | | X | | | X | | | | X | | X | | 4 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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2) Mild 4) Marked

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

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

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|----|---|---|-----|--|--|--|---|-----|---|--|---|--|--|--|--|--|--|---|----|-----|---|-----|-----|-----|--|--|--|---|--|--|--|--|---|--|--|---|---|---|-----|-----|--|
| Esophagus | | | | | | | | | | | | | | | | | | | | | + | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon | | | | | | | | | | | | | | | | | | | | | A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | | | | |
| Intestine Small, Ileum | | | | | | | | | | | | | | | | | | | | | A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | | | | |
| Intestine Small, Jejunum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | 3 | 1.0 | | |
| Fatty Change | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | | | | 1 | 1 | | | | | 9 | 1.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Granulomatous | | | 1 | 1 | | | | 1 | 1 | | | | | | | | | | | | | | 3 | | 1 | 3.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | | | | | | | | | | | | | | | | | |
| Tension Lipidosis | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3.0 | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | 1 | | | 2 | 1 | | | 1 | 1 | 1 | | | 2 | 2 | | | 2 | 2 | | | | | | | | | | | | | | | | | | | | | 10 | 1.5 | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | | | 1 | | | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.2 | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 4.0 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Degeneration | | 3 | 2 | 1 | | | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2.2 | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

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

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 | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-----|
| | 03066 | 03066 | 03065 | 03065 | 03066 | 03066 | 03066 | 03065 | 03066 | 03066 | 03065 | 03066 | 03066 | 03066 | 03066 | 03066 | 03066 | 03066 | 03066 | 03066 | | |
| ANIMAL ID | 01581 | 01582 | 01581 | 01582 | 01583 | 01583 | 01583 | 01583 | 01583 | 01583 | 01585 | 01585 | 01585 | 01585 | 01585 | 01585 | 01587 | 01587 | 01587 | 01587 | 4 | 2.8 |
| Follicular Cell, Hyperplasia | 3 | 3 | | | | | | 3 | 2 | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Coagulating Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Exfoliated Germ Cell | | | | | | | | | | | | | | | | | | | 2 | | | 1 2.0 |
| Hypospermia | | | | | | | | | | | | | | | | | 4 | | 4 | | | 2 4.0 |
| Infiltration Cellular, Lymphocyte | | | | | 1 | 1 | 1 | | | | | | | | | | 1 | | | | | 4 1.0 |
| Prostate, Dorsal/lateral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Degeneration, Cystic | | | | | | | | | | 2 | | | | | | | | | | | | 1 2.0 |
| Fibrosis | | | | | | | | | | | 2 | | | | | | | | | | | 1 2.0 |
| Infiltration Cellular, Lymphocyte | 2 | | | | | | | | 1 | 1 | | 1 | | | | | | | | | | 4 1.3 |
| Inflammation, Suppurative | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | | 1 | | 2 | 2 | | | 1 | 1 | | 16 1.6 |
| Prostate, Ventral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Infiltration Cellular, Lymphocyte | 1 | 1 | | | 1 | | | | 1 | | | | 1 | 1 | | 1 | | | 2 | 1 | | 9 1.1 |
| Inflammation, Suppurative | | | 1 | | | | | | | | 1 | | | | | | | | | | | 2 1.0 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Lumen, Dilatation | | | | | | | | | | | 4 | | | | | | | | | | | 1 4.0 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Seminiferous Tubule, Degeneration | | 2 | | | | 1 | 1 | | | | 1 | | | 1 | | 1 | | 4 | | 4 | | 9 1.8 |

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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 | | | | | | | | | | | | | | | | | | ANIMAL ID | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|--|
| | 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 | 1 | 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 | 5 | 5 | 6 | 6 | 6 | 5 | 6 | 5 | 6 | 2 | 5 | 4 | 4 | 4 | 5 | 5 | 5 | |
| | 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 | |
| | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 8 | 8 | |
| | 8 | 8 | 0 | 0 | 4 | 4 | 5 | 5 | 6 | 6 | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | |
| | | | | | | | | | | | | | | | | | | | * TOTALS | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Myeloid Cell, Hyperplasia | | | | | | | | | | | | 3 | 4 | | | | | | | | 2 3.5 |
| Lymph Node, Mandibular | | | | | | | | | | | | | | | | | | | | 1 | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Pigmentation | 1 | | 1 | | | 1 | 2 | | | | 1 | 2 | | 2 | 2 | 1 | 3 | | 1 | | 13 1.5 |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | 3 | | | 1 3.0 |
| Capsule, Inflammation, Chronic | | | | | | | | | | | | | | | | | | 3 | | | 1 3.0 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Atrophy | 2 | 4 | | 4 | 3 | 4 | | | 2 | 4 | 4 | 4 | | 4 | 4 | 2 | 3 | 4 | 1 | | 17 3.3 |
| Hemorrhage | | | | | | | | | | | | | 3 | | | | | | | | 1 3.0 |
| Hyperplasia, Lymphoid | | | | | | | 4 | | | | | | | | | | | | | | 1 4.0 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Hyperplasia, Lobular | | | | | | | | | | | | | 2 | | | | | | 1 | | 2 1.5 |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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 | | | | | | | | | | | | | | | | | | | | 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 | 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 | 1 | 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 | | |
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 20 | | |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 20 | | |
| Brain, Cerebrum
Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 20
1 | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung
Congestion | | | | | | | | | | | | + | | | | | | | | | | | | | 1
1 4.0 |
| Nose | | | | | | | | | | | | | + | | | | | | | | | | | | 1 |
| Trachea | | | | | | | | | | | | | + | | | | | | | | | | | | 1 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | 20 |
| Nephropathy | 2 | 1 | 3 | 2 | 4 | 2 | 3 | 3 | 2 | 1 | 4 | | 1 | 1 | 1 | 3 | 2 | 1 | 1 | 4 | | | | | 19 2.2 |
| Capsule, Lipidosis | | | | | | | | | | | | | | | | X | | | | | | | | | 1 |
| Cortex, Cyst | X | | X | X | | | X | X | | | | | | X | | | | | | | | | | | 6 |
| Renal Tubule, Cyst | | X | | | | | X | X | X | X | X | | | | X | | | X | | | | | | | 8 |

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 + .. Tissue examined microscopically
 X .. Lesion present
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Bisphenol A
 CAS Number: 80-05-7

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

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 250.0StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | ANIMAL ID | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|
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| | * TOTALS | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------------------------------------|--------|
| Intestine Small, Jejunum | | | | | | | | | | | | | | | | | | | + | 1 |
| Liver | | | | | | | | | | | | | | | | | | | + | 19 |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | 1 | 1 1.0 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | X | 3 |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | | | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 13 1.0 |
| Tension Lipidosis | | | | | | | | | | | | | | | | | | | 3 | 2 3.0 |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | 1 2 | 5 1.4 |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | 2 1 1 | 5 1.4 |
| Pancreas | | | | | | | | | | | | | | | | | | | + | 19 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | 3 |
| Pigmentation | | | | | | | | | | | | | | | | | | | 1 1 1 2 1 | 8 1.3 |
| Acinus, Degeneration | | | | | | | | | | | | | | | | | | | 2 3 4 4 1 2 3 1 2 1 1 3 1 2 2 2 3 | 17 2.2 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | |
|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------------------|--------|
| Blood Vessel | | | | | | | | | | | | | | | | | | | + | 19 |
| Heart | | | | | | | | | | | | | | | | | | | + | 19 |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | 1 1 2 1 1 2 2 1 1 | 13 1.2 |
| Mineralization | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------|-------|
| Adrenal Cortex | | | | | | | | | | | | | | | | | | | + | 19 |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | 1 | 1 1.0 |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | 2 1 1 | 3 1.3 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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Experiment Number: 10034 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P09: NON-NEOPLASTIC LESIONS 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 250.0StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----|-----|
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| ANIMAL ID | 0
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2 | | |
| Adrenal Medulla
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 | 1 | 2.0 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 | | |
| Parathyroid Gland
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 | 7 | 1.3 |
| Pituitary Gland
Vacuolization Cytoplasmic
Pars Distalis, Cyst
Pars Distalis, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 | 1 | 1.0 |
| | | | | | | | | | | | | | | | | | | | | | 1 | 1 |
| | | | | | | | | | | | | | | | | | | | | | 4 | 1.0 |
| Thyroid Gland
Ultimobranchial Cyst
C-cell, Hyperplasia
Follicular Cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 | 5 | |
| | | | | | | | | | | | | | | | | | | | | | 11 | 1.8 |
| | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Coagulating Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 | | |
| Epididymis
Exfoliated Germ Cell
Hypospermia
Infiltration Cellular, Lymphocyte | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 | 2 | 1.0 |
| | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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1) Minimal 3) Moderate

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Experiment Number: 10034 - 03

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Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

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Bisphenol A

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Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 250.0StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | ANIMAL ID | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|
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| | * TOTALS | | | | | | | | | | | | | | | | | | | |

| | | | |
|---------------------------|---|---|-------|
| Preputial Gland | + | 1 | |
| Inflammation, Suppurative | 4 | | 1 4.0 |
| Duct, Dilatation | 3 | | 1 3.0 |

| | | | |
|-----------------------------------|---|----|--------|
| Prostate, Dorsal/lateral Lobe | + + + + M + + + + + + + + + + + + + + | 18 | |
| Corpora Amylacea | | | X
1 |
| Infiltration Cellular, Lymphocyte | 1 | | 8 1.0 |
| Inflammation, Suppurative | 1 1 2 2 1 1 2 2 1 2 2 2 2 1 2 1 | | 16 1.6 |

| | | | |
|-----------------------------------|---|----|-------|
| Prostate, Ventral Lobe | + + + + M + + + + + + + + + + + + + + | 18 | |
| Infiltration Cellular, Lymphocyte | 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | 9 1.1 |
| Inflammation, Suppurative | 1 | | 6 1.0 |
| Epithelium, Hyperplasia | 1 | | 2 1.0 |

| | | | |
|-----------------|---|----|--|
| Seminal Vesicle | + | 19 | |
|-----------------|---|----|--|

| | | | |
|-----------------------------------|---|----|-------|
| Testes | + | 19 | |
| Seminiferous Tubule, Degeneration | 1 | | 4 1.8 |

HEMATOPOIETIC SYSTEM

| | | | |
|-------------|---|----|--|
| Bone Marrow | + | 19 | |
|-------------|---|----|--|

| | | | |
|------------------------------------|---|---|-------|
| Lymph Node | + | 1 | |
| Mediastinal, Hyperplasia, Lymphoid | 2 | | 1 2.0 |

| | | | |
|------------------------------------|---|---|-------|
| Lymph Node, Mandibular | + | 1 | |
| Hyperplasia, Lymphoid | 3 | | 1 3.0 |
| Infiltration Cellular, Plasma Cell | 4 | | 1 4.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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 Species/Strain: RATS/Sprague Dawley (NCTR)

P09: NON-NEOPLASTIC LESIONS 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
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7 | 0
3
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6 | 0
3
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5 | 0
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5 | 0
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4 | 0
3
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6 | 0
3
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5 | 0
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6 | 0
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6
6 | 0
3
6
7 | 0
3
6
7 | 0
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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
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3
9
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1 | 0
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9
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2 | 0
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1 | 0
6
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6
2 | 0
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7
2 | 0
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6
1 | 0
7
9
6
2 | 0
9
8
6
1 | 0
9
8
0
2 | 0
9
8
0
2 |
| Spleen Pigmentation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| | 2 | 2 | 2 | | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 18 1.4 |
| Thymus Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| | 2 | 3 | 4 | 4 | 4 | | 2 | 3 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 2 | 4 | 4 | 2 | 18 3.4 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland Hyperplasia, Lobular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| | | | | | | | | | 2 | | | | | | | 1 | | | | 2 1.5 |
| Skin Cyst Epithelial Inclusion | + | | | + | | | | | | | | + | | | | | | | | 3 |
| | X | | | X | | | | | | | | | | | | | | | | 2 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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| | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 250.0StDose M | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | ANIMAL ID | 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 | 4 | 6 | 6 | 6 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 4 | 6 | 6 | 6 |
| | | 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 | 3 | 3 | 3 | 3 | 3 | 6 | 6 | 6 | 7 | 7 | 9 | 9 | 9 | 9 | 9 |
| | | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 9 | 9 | 8 | 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 | | | | | | | | | | | | | | | | | | | | | |

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 | |
| Casts Protein | | | | | | | | | 1 | | | | | | | | | | | | 1 | 1.0 |
| Nephropathy | | 1 | 2 | 3 | 2 | 1 | 1 | 2 | | 1 | 1 | 3 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | | 17 | 1.6 |
| Cortex, Cyst | | X | | | X | | | | | | X | X | | | | | X | | X | | 6 | |
| Renal Tubule, Cyst | | | | | X | | | | | X | | | X | X | | | X | | X | | 6 | |

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

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|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
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| ANIMAL ID | 0
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2 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|---|----|-----|-----|
| Liver | + | | | | | | | | | | | | | | | | | | | 20 | | | | | |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Fatty Change | | | | 3 | | | | | | | | 3 | | | | | | | | | | | 2 | 3.0 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | 1 | | | | | | | | | | | 1 | 1.0 | |
| Hepatodiaphragmatic Nodule | | | | | | X | | | | | | | | | | | X | | | | | | 2 | | |
| Infiltration Cellular, Mononuclear Cell | | | | 1 | 1 | 1 | | 1 | 1 | | | | | | 1 | 1 | 1 | | 1 | 1 | | 1 | 11 | 1.0 | |
| Tension Lipidosis | | | | 3 | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Vacuolization Cytoplasmic | 2 | | | | | | | | | | | | | | | | 1 | | | | | 1 | 1 | 4 | 1.3 |
| Bile Duct, Hyperplasia | | | | | | | 2 | | | 1 | | | 1 | | | | 1 | | | | | 1 | 5 | 1.2 | |
| Mesentery | | | | | | | | + | | | | | | | | | | | | | | | 1 | | |
| Fat, Necrosis | | | | | | | | 4 | | | | | | | | | | | | | | | 1 | 4.0 | |
| Pancreas | + | | | | | | | | | | | | | | | | | | | 20 | | | | | |
| Cyst Multilocular | X | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Pigmentation | | | 1 | 1 | 1 | | | | 1 | | | 1 | | | | 1 | | | 1 | | | | 8 | 1.0 | |
| Acinus, Degeneration | 3 | 2 | 2 | 3 | 2 | | 2 | 3 | 3 | | 2 | 2 | 1 | 2 | 3 | 2 | 1 | 3 | 1 | 3 | | | 18 | 2.2 | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|--|--|---|---|---|---|---|---|---|---|---|----|---|---|----|-----|
| Blood Vessel | + | | | | | | | | | | | | | | | | | | | 20 | | | | |
| Heart | + | | | | | | | | | | | | | | | | | | | 20 | | | | |
| Cardiomyopathy | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | | | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 18 | 1.3 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|
| Adrenal Cortex | + | | | | | | | | | | | | | | | | | | | 20 | |
|----------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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F1 2500.StDose M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------------|--|
| | 0
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5 | 0
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6 | 0
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6 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1
1
9
0
1 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8
9
0
1 | | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | | |
| | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|---|-----|---|-----|---|-----|---|---|---|---|---|---|---|---|----|-----|
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1.0 | | | | | | | | | | | | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 3.0 | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 1 | 3 | 1.7 | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | 19 | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | 1 | 1 | 4 | 1.0 | | | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Cyst Multilocular | | | | | | | | | | | | | | | | | | | | | X | | | 1 | | 1 | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | 1 | 4 | 1.0 | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | | | | | | | | | | | | | | | | | |
| Ultimobranchial Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | X | X | | X | | | | | | | | | 4 | |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 3 | | | | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 10 | 1.4 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|--|---|---|--|--|--|--|--|--|--|--|--|--|--|---|---|-----|-----|
| Coagulating Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | | | | | | | | | | | | | | | | | | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | | | | | | | | | | | | | | | | | | |
| Exfoliated Germ Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | |
| Hypospermia | | | | | | | | | | | | | | | | | | | | | | | | 4 | 4 | | | | | | | | | | | | | 4 | 3 | 4.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0366 | 0365 | 0364 | 0364 | 0364 | 0363 | 0367 | 0366 | 0367 | 0366 | 0365 | 0365 | 0367 | 0366 | 0366 | 0366 | 0366 | 0365 | 0365 | |
| ANIMAL ID | 01901 | 01902 | 01901 | 01901 | 01901 | 01901 | 01904 | 01904 | 01904 | 01904 | 01904 | 01904 | 01906 | 01906 | 01906 | 01906 | 01906 | 01908 | 01908 | 01909 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|----|-------|
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | 1 | 1 | 2 | 1.0 |
| Fat Pad, Epididymal Necrosis | | | | | | | | | | | | | | | | | | | | + | 3 | 1 | 3.0 |
| Prostate, Dorsal/lateral Lobe Degeneration, Cystic | + | | | | | | | | | | | | | | | | | | | | 2 | 20 | 1 2.0 |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | 1 | 2 | 1 | 1 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2 | 1 |
| Prostate, Ventral Lobe Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | + | + | + | + |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | 1 |
| Seminal Vesicle | + | | | | | | | | | | | | | | | | | | | | | 20 | |
| Testes Seminiferous Tubule, Degeneration | + | | | | | | | | | | | | | | | | | | | 1 | 1 | 4 | 4 |
| | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | 1 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|----|-------|
| Bone Marrow Myeloid Cell, Hyperplasia | + | | | | | | | | | | | | | | | | | | | 3 | | 20 | 1 3.0 |
| Lymph Node, Mandibular Hyperplasia, Lymphoid | + | | | | | | | | | | | | | | | | | | | 3 | 3 | 1 | 3.0 |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | 3 | | 1 | 3.0 |
| Spleen Hematopoietic Cell Proliferation | + | | | | | | | | | | | | | | | | | | | 3 | | 20 | 1 3.0 |

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|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|--|
| | 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 | 5 | 4 | 4 | 4 | 3 | 7 | 6 | 7 | 6 | 5 | 5 | 7 | 6 | 6 | 6 | 5 | 5 | 6 | 6 | | |
| | 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 | | | |
| | 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 | 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 | 2 | | | |
| | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
| Pigmentation | 2 | 2 | 2 | 2 | 1 | 1 | | | 2 | | 2 | 1 | | | 2 | 1 | 1 | 2 | 2 | 2 | 15 1.7 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Atrophy | | 4 | 4 | 4 | | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 18 3.8 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | M | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | 17 | |
| Skin | | | | | | | | | | + | | | | | | | | | | | 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 | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 10034 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P09: NON-NEOPLASTIC LESIONS 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) | DAY ON TEST | 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 | 5 | 4 | 4 | 4 | 3 | 7 | 6 | 7 | 6 | 5 | 5 | 7 | 6 | 6 | 6 | 5 | 5 | 6 | 6 |
| | RATS MALE | | | | | | | | | | | | | | | | | | | | |
| F1 2500.StDose M | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 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 | 1 | 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 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Nephropathy | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 3 | 2 | 2 | 1 | 3 | 2 | 1 | 3 | 2 | 4 | 20 2.0 |
| Cortex, Cyst | X | | | | X | | X | | | X | X | | X | | | | | | | | 6 |
| Renal Tubule, Cyst | X | | | X | | | | X | | X | | X | | | | | X | | | | 6 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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 | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| 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 | 7 | 5 | 6 | 5 | 6 | 6 | 5 | 5 | 6 | 5 | 5 | 5 | 5 | 5 | 4 | 3 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 2 | 2 | 0 | 0 | | |
| | 6 | 6 | 7 | 7 | 8 | 8 | 2 | 2 | 3 | 4 | 4 | 8 | 8 | 9 | 9 | 0 | 0 | 4 | 4 | 8 | 8 | | |
| | 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 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 22 | |
| Basophilic Focus | | | | | | | | | | X | | | | | | | | | | | | | | | 1 |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | X | | 1 |
| Eosinophilic Focus | | | | X | | | | | | | | | | | | | | | | | | | | | 1 |
| Fatty Change | | | | | | | | | | | | | | 3 | | | | | | | | | | | 1 3.0 |
| Hematopoietic Cell Proliferation | | | | 1 | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Hepatodiaphragmatic Nodule | | | | | X | | | | | | | | | | | | | | | | | | | | 1 |
| Infiltration Cellular, Mononuclear Cell | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | | | 1 | 1 | | | 1 | 1 | 1 | 1 | | | 15 1.0 | |
| Polyarteritis | | | 1 | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Tension Lipidosis | | | | | | | | | | 3 | 3 | | | | | | | | | | | | | | 2 3.0 |
| Vacuolization Cytoplasmic | | | | | | 1 | 1 | | 1 | | | | 1 | | 2 | 2 | | | 1 | | | 1 | | | 8 1.3 |
| Bile Duct, Hyperplasia | | 1 | | 1 | | | | | 1 | | | | | | | | 1 | | | | | 1 | | | 5 1.0 |
| Oval Cell, Hyperplasia | | | | 1 | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 22 |
| Pigmentation | 2 | 1 | 1 | | | | | | | | | 1 | | 2 | | 1 | 2 | 1 | | 1 | 1 | | | | 10 1.3 |
| Polyarteritis | | | | 2 | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Acinus, Degeneration | 2 | 2 | 2 | 3 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 3 | 2 | | 1 | 3 | 2 | | | | 20 1.9 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---------------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 22 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 22 |
| Cardiomyopathy | 1 | | 3 | 2 | 2 | | 2 | 1 | 2 | 1 | 1 | | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | | 19 1.6 |
| Polyarteritis | | | | 1 | | | | | | | | | | | | | | | | | | | | | 1 1.0 |

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| | | 6 | 6 | 6 | 5 | 5 | 4 | 7 | 5 | 6 | 5 | 6 | 6 | 5 | 5 | 6 | 5 | 5 | 5 | 5 | 4 | 3 | |
| | F1 25000StDose M | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | |
| | | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 0 | 0 | | |
| | | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 2 | 2 | 0 | 0 | | |
| | | 6 | 6 | 7 | 7 | 8 | 8 | 2 | 3 | 3 | 4 | 4 | 8 | 8 | 9 | 0 | 0 | 4 | 4 | 8 | 8 | | |
| | | 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 | | |
| Vacuolization Cytoplasmic | | | 3 | | | | | | | | | | | 2 | | | | | | | | | | 2 | 2.5 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | | |
| Fibrosis | | | | | | | | | 2 | | | | | | | | | | | | | | | 1 | 2.0 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | | |
| Hyperplasia | | | 2 | | | | 2 | | | 2 | | | 3 | 2 | 2 | | | 2 | 1 | | | | | 8 | 2.0 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | | |
| Pars Distalis, Cyst | | X | | | | | | | | | | | | X | | | | | | | | | | 2 | |
| Pars Distalis, Hyperplasia | | | | 1 | | | | 2 | | 1 | 1 | | | 1 | | | 1 | | 1 | | | | | 7 | 1.1 |
| Pars Intermedia, Cyst | | | | | X | | | | | | | | | | | | | | | | | | | 1 | |
| Rathke's Cleft, Cyst | | | | | | | | | | X | | | | | | | | | | | | | | 1 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | | |
| Ultimobranchial Cyst | | | | X | | | | | X | | X | | X | X | | | | | | | | | | 5 | |
| C-cell, Hyperplasia | 1 | 2 | | | | | 3 | 1 | | | | | 1 | 3 | 2 | | 1 | 2 | 2 | 2 | 1 | | | 12 | 1.8 |
| Follicular Cell, Hyperplasia | | | | | | | | 3 | | | | | | | | | 3 | | | | | 3 | | 3 | 3.0 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

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

1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 10034 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P09: NON-NEOPLASTIC LESIONS 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 | | | | | | | | | | | | | | | | | | | | 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 | 7 | 5 | 6 | 5 | 6 | 6 | 5 | 5 | 6 | 5 | 5 | 5 | 5 | 5 | 4 | 3 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 2 | 2 | 0 | 0 | | |
| | 6 | 6 | 7 | 7 | 8 | 8 | 2 | 2 | 3 | 3 | 4 | 4 | 8 | 8 | 9 | 9 | 0 | 4 | 4 | 4 | 8 | 8 | | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | | |
| | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
| Coagulating Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 22 | |
| Polyarteritis | | | 1 | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 22 | |
| Exfoliated Germ Cell | | | 1 | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Hyospermia | | | | | | | | | | | | | | | | | 4 | | | | | | 1 4.0 | |
| Infiltration Cellular, Lymphocyte | | | 1 | | | | | | | | | | | | | | | | | 1 | | | 2 1.0 | |
| Polyarteritis | | | 1 | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Fat Pad, Epididymal | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Necrosis | | | | | | | | | | | | | | | | | 4 | | | | | | 1 4.0 | |
| Prostate, Dorsal/lateral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 22 | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | 2 | | | 1 2.0 | |
| Infiltration Cellular, Lymphocyte | 1 | | | | | | | 1 | 1 | 1 | 1 | | | | | | | | 1 | | | | 6 1.0 | |
| Inflammation, Suppurative | 3 | 2 | 1 | 2 | 2 | | | 2 | 2 | 2 | 2 | 2 | | 2 | 1 | 1 | 2 | 2 | 2 | | 1 1 | | 18 1.8 | |
| Prostate, Ventral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 22 | |
| Fibrosis | | | 2 | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Infiltration Cellular, Lymphocyte | | 1 | 1 | | 1 | | | | 1 | 1 | 1 | 1 | | | | | | | 1 | 1 | | | 9 1.0 | |
| Inflammation, Suppurative | | | | | | | | 1 | | | | | | | | | 1 | | | | | | 2 1.0 | |
| Polyarteritis | | | 1 | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 22 | |
| Polyarteritis | | | 1 | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 22 | |
| Polyarteritis | | | 1 | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Seminiferous Tubule, Degeneration | | | 1 | | | | 1 | | | | 1 | 2 | | | | | | 4 | | 1 | | | 6 1.7 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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 |
| F1 25000StDose M | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| ANIMAL ID | 6 | 6 | 6 | 5 | 5 | 4 | 7 | 5 | 6 | 5 | 6 | 6 | 5 | 5 | 6 | 5 | 5 | 5 | 5 | 5 | 4 | 3 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 2 | 2 | 0 | 0 |
| | 6 | 6 | 7 | 7 | 8 | 8 | 2 | 2 | 3 | 3 | 4 | 4 | 8 | 8 | 9 | 9 | 0 | 0 | 4 | 4 | 8 | 8 |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 2 |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Hematopoietic Cell Proliferation | | | 3 | | | | | | 1 | | | | | | | | | | | | | 2 2.0 |
| Pigmentation | 2 | 4 | 2 | 2 | 2 | 2 | 1 | | 2 | | | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 18 1.8 |
| Polyarteritis | | | 2 | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Atrophy | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 2 | 2 | | 2 | 4 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 21 3.4 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Hyperplasia, Lobular | | | | | | | | | | | | 1 | | | | | | | | | | 1 1.0 |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Neuron, Degeneration | | | | | | | | | | | | 1 | | | | | | | | | | 1 1.0 |

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

1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 10034 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P09: NON-NEOPLASTIC LESIONS 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 | 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 | 3 |
| SPRAGUE DAWLEY (NCTR)
RATS MALE
F1 25000StDose M | ANIMAL ID | 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 | 4 | 7 | 5 | 6 | 5 | 6 | 6 | 5 | 5 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| | | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 2 | 2 | 0 | 0 | 0 | 0 |
| | | 6 | 6 | 7 | 7 | 8 | 8 | 2 | 2 | 3 | 3 | 4 | 8 | 8 | 9 | 9 | 0 | 4 | 4 | 4 | 8 | 8 | 8 | 8 |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 |
| | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|--|--|--|--|--|--|--|--|--|--|--|---|---|--|--|--|--|--|--|--|--|--|-------|
| Lung | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | + | + | | | | | | | | | | 2 |
| | | | | | | | | | | | | | 3 | | | | | | | | | | 1 3.0 |

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Casts Protein | | 1 | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Infiltration Cellular, Polymorphonuclear | | | | | | | | | | | | 3 | | | | | | | | | | | 1 3.0 |
| Nephropathy | 1 | | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 1 | 2 | 1 | 4 | 3 | 4 | 1 | 3 | 3 | 1 | 1 | 1 | 1 | 21 2.1 |
| Polyarteritis | | | 4 | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Cortex, Cyst | | | | | | | | | | | | X | | | | X | | X | | X | | | 4 |
| Renal Tubule, Cyst | X | | | X | X | | | | | X | X | X | | | | | | X | | X | | | 8 |

*** END OF MALE DATA ***

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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

P09: NON-NEOPLASTIC LESIONS 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 |
|--|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | 3 | 3 | 3 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 6 | 0 | 6 | 6 |
| | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 4 | 3 | 4 | 3 | 0 | 3 | 3 | 4 | 4 | 1 | 7 | 5 | 8 | 5 | 6 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 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 | 5 | 5 | 6 | 6 | 0 | 0 | 1 | 1 | 2 | 2 | 6 | 7 | 8 | 8 | 1 | 1 | 2 | 2 | 6 | 6 | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|-----|-----|
| Esophagus | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Diverticulum | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Intestine Large, Colon | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Intestine Small, Ileum | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Liver | | | | | | | | | | | | | | | | | | | | | | | | 23 | | |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Fatty Change | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1.0 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Tension Lipidosis | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2.3 | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.0 | |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3.0 |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | 23 | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Acinus, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | 13 | 1.9 | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

| 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 | 3 | 3 | 2 | 4 | 3 | 4 | 3 | 0 | 3 | 3 | 4 | 4 | 1 | 7 | 5 | 8 | 5 |
| F1 Veh. Ctrl F | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 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 | 5 | 5 | 6 | 6 | 0 | 1 | 1 | 2 | 2 | 6 | 7 | 7 | 8 | 8 | 1 | 1 | 2 | 2 | 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 |
| | | * TOTALS | | | | | | | | | | | | | | | | | | | | | |

Stomach, Glandular

+ +

2

CARDIOVASCULAR SYSTEM

Blood Vessel

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

Heart

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

 Cardiomyopathy

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 1.1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|

 Inflammation, Chronic Active

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 3.0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|

 Polyarteritis

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2.0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|

 Myocardium, Necrosis

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 3.0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|

ENDOCRINE SYSTEM

Adrenal Cortex

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

 Degeneration, Cystic

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2.0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|

 Hypertrophy

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2.0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|

 Vacuolization Cytoplasmic

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2.0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|

Adrenal Medulla

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

Islets, Pancreatic

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

Parathyroid Gland

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

 Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1.0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|

Pituitary Gland

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

 Angiectasis

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2.0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|

 Pars Distalis, Cyst

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 2 | 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

 Pars Distalis, Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 18 | 1.8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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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
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1 | 0
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7 | 0
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5 | 0
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6 |
| ANIMAL ID | 0
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2 | 0
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2 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 23 |
| Ultimobranchial Cyst | | | | X | | X | | | X | | X | X | | X | | | | | | | X | | | 7 |
| C-cell, Hyperplasia | | 1 | | | 1 | | | 1 | 1 | 1 | 2 | 2 | 1 | | 1 | 2 | | 2 | | 2 | | 2 | 1 | 14 1.4 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------|-------|
| Fat Pad, Ovarian/parametrial Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 4.0 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 23 | |
| Atrophy | | | | 2 | | 4 | | 4 | 2 | | 2 | 4 | | 1 | | 4 | | | | | 4 | 2 | 10 2.9 | | |
| Cyst | | | | | | | | | | | | | | X | | | | | | | | | | 1 | |
| Diestrus | X | | X | X | X | | X | X | X | | X | | X | X | X | | X | X | | | | | X | 15 | |
| Metestrus | | X | | | | | | | | X | | | | | | | | | | | X | | | 3 | |
| Proestrus | | | | | | | | | | | | | | | | | | | | X | | | | 1 | |
| Bilateral, Bursa, Cyst | | | | | | X | | | | | | | | | | | | | | | | | | 1 | |
| Corpus Luteum, Depletion | | | | | | X | | | | | X | | | | | X | | | | | | X | | 4 | |
| Follicle, Cyst | | | | X | X | X | | X | | | X | | | | X | | | X | | X | | X | | 8 | |
| Interstitial Cell, Hypertrophy | | | | | | 2 | | | | | | 2 | | | | | 2 | | | | | 2 | | 4 2.0 | |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 23 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 23 | |
| Apoptosis | | | | | | | | | | | 4 | | | | | | 4 | | | | | | | 2 4.0 | |
| Diestrus | X | | X | X | | | | | X | | X | | X | | X | | | X | X | | | | X | 10 | |
| Estrus | | | | | | X | | | | X | | X | | | | X | | | | | | | | 4 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 10034 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P09: NON-NEOPLASTIC LESIONS 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 | | | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|---|-----|-----|-----|
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4 | 0
3
6
1 | 0
3
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7 | 0
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5 | 0
3
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8 | | 0
3
6
5 | | | | | | |
| ANIMAL ID | 0
0
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4
1 | 0
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1
4
2 | 0
0
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1 | 0
0
1
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2 | 0
0
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6
2
2 | 0
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6
4
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1 | 0
8
8
6
2 | | | | | |
| Hyperplasia, Stromal | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | | |
| Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | |
| Metestrus | | | X | | | X | | X | X | | | | | X | | X | | | | | | X | | | | 7 | | |
| Proestrus | | | | | | | | | | | | | | | | | | | | | X | | X | | | 2 | | |
| Endometrium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 2.0 | |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 5 | 2.4 | |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | | | 23 | | |
| Diestrus | | | | | | | | | | | | | | | | | | | | | | | | | | 11 | | |
| Estrus | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Metestrus | | | | | | | | | | | | | | | | | | | | | | | | | | 7 | | |
| Proestrus | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2.7 | |
| Epithelium, Mucification | | | | | | | | | | | | | | | | | | | | | | | | | | 10 | 2.7 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | | | | | | | | | | | | | | | | | | | | | | | | | | | 23 | |
| Myeloid Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | | 23 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1.7 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | 22 | 2.8 |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Thymus | | | | | | | | | | | | | | | | | | | | | | | | | | | 23 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | 20 | 3.4 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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Experiment Number: 10034 - 03

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Species/Strain: RATS/Sprague Dawley (NCTR)

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Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:20:03

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 | 3 | 3 | 2 | 4 | 3 | 4 | 3 | 0 | 3 | 3 | 4 | 4 | 1 | 7 | 5 | 8 | 5 | 6 | |
| | F1 Veh. Ctrl F | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 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 | 5 | 5 | 6 | 6 | 0 | 0 | 1 | 1 | 2 | 2 | 6 | 7 | 7 | 8 | 8 | 1 | 1 | 2 | 2 | 6 | 6 | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|---------------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 23 | |
| Hyperplasia, Lobular | | | | | | | | | | | | | | | | | | | | | | | | | 10 1.5 |
| Duct, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 23 | |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 23 | |
| Brain, Cerebrum
Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 23 | 1 1.0 |
| Nerve Trigeminal | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Peripheral Nerve, Sciatic | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Peripheral Nerve, Tibial | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Spinal Cord, Cervical | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Spinal Cord, Lumbar | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Spinal Cord, Thoracic | | | | | | | | | | | | | | | | | | | | | | | | 1 | |

RESPIRATORY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 10034 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P09: NON-NEOPLASTIC LESIONS 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
F1 2.5 BPA F | | 3 | 3 | 3 | 3 | 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 | 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 | |
| | | 0 | 0 | 0 | 0 | 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 | 8 | |
| | | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 7 | 7 | 5 | 5 | 5 | 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 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------|------------|
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | | |
| Fatty Change | | | | 1 | | | | | 2 | 2 | | | | | | | | | | | | | 3 | | 4 | 2.0 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | 1.0 |
| Hepatodiaphragmatic Nodule | | | | | X | | | | | X | | | | | | | | | | | | | | | 2 | |
| Infiltration Cellular, Mononuclear Cell | | | | 1 | 1 | | | | | | 1 | | | | | | | 1 | | | 1 | 2 | | | 6 | 1.2 |
| Tension Lipidosis | | | | | | | 2 | 4 | | | | | | | | 3 | | | | | | | | | 3 | 3.0 |
| Vacuolization Cytoplasmic | | | | | 1 | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Bile Duct, Hyperplasia | | | | | | | 1 | | | | | 1 | 1 | | 1 | | | | | 2 | 2 | | | | 6 | 1.3 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | 3 | | | | | | | | | | | | | 2 | 2.0 |
| Acinus, Degeneration | | | | 1 | 1 | | 1 | 1 | 1 | 4 | 2 | | | 2 | | 2 | 2 | 1 | 1 | | | | 3 | | 13 | 1.7 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------|------------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | | |
| Cardiomyopathy | | | | 1 | 2 | | 1 | 1 | | 1 | 1 | | 1 | | | | 1 | | 1 | | | | 2 | | 10 | 1.2 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------|------------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | | |
| Degeneration, Cystic | | | | | | | 2 | | | | | | 2 | | | | | | | | | | | | 2 | 2.0 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | 1.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
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Bisphenol A

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Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2.5 BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|--------------|
| | 0363 | 0363 | 0362 | 0363 | 0361 | 0363 | 0362 | 0362 | 0362 | 0362 | 0362 | 0362 | 0362 | 0362 | 0362 | 0362 | 0362 | 0362 | 0362 | 0362 | | 0362 |
| ANIMAL ID | 0030 | 0033 | 0031 | 0033 | 0032 | 0032 | 0032 | 0032 | 0032 | 0032 | 0032 | 0032 | 0032 | 0032 | 0032 | 0032 | 0032 | 0032 | 0032 | 0032 | 0032 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | 21 |
| Pituitary Gland
Pars Distalis, Hyperplasia | + | + | | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22
17 1.9 |
| Thyroid Gland
Ultimobranchial Cyst | + | + | X | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22
7 |
| C-cell, Hyperplasia
Follicle, Cyst | 1 | | | 1 | 1 | | 1 | 2 | | 2 | 1 | | | | 1 | | 1 | 1 | | | | 11 1.2
1 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------|
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Atrophy | | | | 4 | | | | | | 2 | 2 | 2 | | | 4 | 4 | 4 | | | | | 7 3.1 |
| Diestrus | X | | X | | X | X | X | X | X | X | X | X | | | | | | | | X | | 12 |
| Metestrus | | | | | | | | | X | | | | | X | | | | | | | X | 3 |
| Proestrus | | X | | | | | | | | | | | | X | | | | | X | | | 3 |
| Corpus Luteum, Depletion
Follicle, Cyst | | | | X | | | | | | | | | | | X | X | X | | | | | 4
3 |
| Follicle, Cyst, Multiple | | | | X | | | | | | | | | | | X | X | X | | | | | 1 |
| Interstitial Cell, Hypertrophy
Rete Ovarii, Cyst | | | | 2 | | | | | X | | | | | | 2 | 3 | 2 | | | | | 4 2.3
1 |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

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M .. Missing tissue

A .. Autolysis precludes evaluation

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 Lab: NCTR

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

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|---------------|---------------|
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 3 | 3 2.3 |
| Pigmentation | 3 | 3 | 2 | 4 | 4 | 3 | 3 | 4 | 1 | 3 | 3 | 2 | 2 | 1 | 1 | 2 | 3 | 2 | 3 | 2 | 1 | | 21 2.5 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | | |
| Atrophy | 2 | 4 | 4 | 3 | 3 | 4 | | 2 | | 4 | 2 | 3 | 4 | 3 | 4 | 2 | 3 | 4 | 1 | 3 | 4 | 3 | | 20 3.1 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|---|--------------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | | |
| Atypical Focus | | | | | | | | | | | | | | | | | | | | | 1 | | 2 | 2 | 3 1.7 |
| Hyperplasia, Lobular | 1 | | 2 | 2 | 2 | 1 | | | | 1 | 2 | 1 | 2 | 1 | | 2 | 1 | | 2 | 1 | | | 14 1.5 | | |
| Duct, Dilatation | | | | | | | | | | | | | | | | | | | | | 4 | | 4 | | 2 4.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------|
| Bone | | | | | | | | | | | | | | | | | | | | | | + | 1 | |
| Rib, Fibrosis | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 2.0 |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|----------|--|
| Lung | | | | | | | | | | | | | | | | | | | | | | + | 1 | |
|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|----------|--|

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 10034 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P09: NON-NEOPLASTIC LESIONS 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) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| RATS FEMALE | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| F1 2.5 BPA F | 3 | 3 | 3 | 2 | 3 | 1 | 3 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 9 | 7 | 2 | 1 | 5 | 6 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 6 | 6 | 8 | 8 | 8 | 8 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 7 | 7 | 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 | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | |

Pleura, Abscess 4 1 4.0
 Pleura, Fibrosis 2 1 2.0
 Pleura, Foreign Body X 1

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Casts Protein | | 1 | | | 1 | | | | | | | | | | | | 1 | | 1 | | 4 1.0 |
| Mineralization | | | 2 | | 1 | 1 | | | | | | | 1 | | 3 | | | | | | 5 1.6 |
| Nephropathy | 1 | | | 1 | | | 1 | | | 1 | | | | | | 3 | 2 | | | 1 | 7 1.4 |
| Cortex, Cyst | | | | | | | | | | X | X | | | | | | | | | | 2 |
| Renal Tubule, Cyst | X | | | | | | | | X | X | X | | X | | | | X | | X | | 7 |
| Renal Tubule, Hypertrophy | | | | | | | | | | | | | | | | | | | | 1 | 1 1.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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1) Minimal 3) Moderate

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

P09: NON-NEOPLASTIC LESIONS 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| | 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 | | |
| | 3 | 3 | 3 | 1 | 5 | 4 | 1 | 1 | 4 | 2 | 4 | 3 | 2 | 3 | 4 | 2 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | * 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 | | |
| | 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 | 8 | 8 | 8 | 8 | 8 | 8 | | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 6 | 6 | 7 | 7 | 8 | 8 | 2 | 2 | 3 | 3 | 4 | 8 | 8 | 9 | 9 | 9 | 9 | 0 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 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 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|--------------|--------------|----------|--------------|---------------|---|-----------|--|
| Esophagus | | | | | | | | | | | | | | | | | | | | | | | | | + | | | | | | |
| Intestine Large, Colon | | | | | | | | | | | | | | | | | | | | | | | | | A | | | | | | |
| Intestine Small, Ileum | | | | | | | | | | | | | | | | | | | | | | | | | A | | | | | | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |
| Deformity | | | | | | | | | | | | | | | | | | | | | | | | X | 1 | | | | | | |
| Fatty Change | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 2 1.5 | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | X | 1 | | | | | | |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | 1 | 1 | 1 | 1 | | | | | | | | | | | 4 1.0 | | | | |
| Tension Lipidosis | | | | | | | | | | | | | | | | | 4 | 2 | | | | | | | 2 3.0 | | | | | | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | 1 | | | | | | | | | | | 1 1.0 | | | | | | |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | 2 | 1 | 1 | 2 | | | | | | 5 1.4 | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | + | 2 | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | 4 | 3 | 2 3.5 | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |
| Acinus, Degeneration | 1 | 1 | | | | | | | | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 4 | | | | | | | | 14 1.6 | | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | + | 1 | | | | | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | A | 0 | | | | | |

CARDIOVASCULAR SYSTEM

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

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25.0 BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|
| | 03063 | 03063 | 03063 | 03061 | 03065 | 03064 | 03061 | 03061 | 03064 | 03062 | 03064 | 03063 | 03062 | 03063 | 03064 | 03063 | 03064 | 03064 | 03063 | 03064 | |

* TOTALS

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|---|--|-------|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | | | | |
| Cardiomyopathy | 2 | 1 | | | | | 1 | | | 1 | 1 | 2 | | | 1 | 1 | | | | | | 1 | | + | | 9 1.2 |
| Pericardium, Fibrosis | | | | | 2 | | | | | | | | | | | | | | | | | | | + | | 1 2.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|--|-------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | | | |
| Degeneration, Cystic | | | | | | | | | 4 | | | | | | | | | 2 | 1 | | | | + | | 3 2.3 |
| Hyperplasia | | | | | | | | | | 2 | | | | | | | | | | | | | + | | 1 2.0 |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | 2 | | | | | | | | | + | | 1 2.0 |

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

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|-------|
| Parathyroid Gland | M | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | 20 | | |
| Hyperplasia | | | | 2 | | | | | | | | | 1 | | | | | | | | | 1 | | 3 1.3 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|--------|
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | | |
| Angiectasis | | 2 | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Pars Distalis, Hyperplasia | | 4 | 2 | | | 1 | 3 | 3 | 1 | 3 | 3 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 4 | 2 | | 3 | | 18 2.1 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|---|
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 21 | | |
| Ultimobranchial Cyst | | X | | | | X | | | | X | X | | | | | | | X | | | | | | 5 |
| C-cell, Hyperplasia | 2 | | 1 | 2 | 1 | 2 | 1 | | | | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 15 1.2 | |

GENERAL BODY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 .. Lesion qualified as:

X .. Lesion present

A .. Autolysis precludes evaluation

1) Minimal 3) Moderate

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Lab: NCTR

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

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|-------|--|
| Clitoral Gland | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 | |
| Duct, Dilatation | | | | | | | | | | | | | | | | | | | | | | 3 | 1 3.0 | |
| Ovary | | | | | | | | | | | | | | | | | | | | | | 22 | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | 4 | 9 3.6 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | X | 2 | |
| Diestrus | | | | | | | | | | | | | | | | | | | | | | X X X | 8 | |
| Hyperplasia, Tubulostromal | | | | | | | | | | | | | | | | | | | | | | 3 | 1 3.0 | |
| Metestrus | | | | | | | | | | | | | | | | | | | | | | X X X | 4 | |
| Proestrus | | | | | | | | | | | | | | | | | | | | | | X X X | 3 | |
| Bursa, Cyst | | | | | | | | | | | | | | | | | | | | | | X | 3 | |
| Corpus Luteum, Depletion | | | | | | | | | | | | | | | | | | | | | | X X X X | 7 | |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | X X X X | 10 | |
| Follicle, Depletion | | | | | | | | | | | | | | | | | | | | | | X | 1 | |
| Interstitial Cell, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | 3 3 2 2 3 3 | 6 2.7 | |
| Oviduct | | | | | | | | | | | | | | | | | | | | | | + + + + M + + + + + + + + + + + + | 21 | |
| Uterus | | | | | | | | | | | | | | | | | | | | | | + + + + + + + + + + + A + + + + + + + + | 21 | |
| Apoptosis | | | | | | | | | | | | | | | | | | | | | | 2 4 | 4 3.3 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | 3 | 1 3.0 | |
| Diestrus | | | | | | | | | | | | | | | | | | | | | | X X X | 6 | |
| Estrus | | | | | | | | | | | | | | | | | | | | | | X X | 4 | |
| Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | 1 2 | 4 1.3 | |
| Metestrus | | | | | | | | | | | | | | | | | | | | | | X X X X X | 7 | |
| Proestrus | | | | | | | | | | | | | | | | | | | | | | X X X | 3 | |
| Cervix, Dilatation | | | | | | | | | | | | | | | | | | | | | | 4 | 1 4.0 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25.0 BPA F | 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 | | |
| | 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 | |
| | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|---|---|-----|---|---|---|---|-----|---|---|---|---|--|---|---|---|---|---|---|----|--|--|---|-----|-----|
| Endometrium, Cyst | | | | | | | | | | | | | | | | | | | | | | X | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 5 | 2.2 | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic Lumen, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2 | 3 | 4 | 4 | 2 | 2.0 | | | | | | | | | | | | | | | | | |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 21 | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Diestrus | | | | | | | | | | | | | | | | | | | | | | | | X | | X | X | X | | | | | X | X | X | | | | | | | | | | | | 7 | |
| Estrus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | X | X | | | | | | | 3 | |
| Metestrus | | | | | | | | | | | | | | | | | | | | | | X | | X | X | | | X | X | | | X | | | | | | X | | | | X | | | | | 8 | |
| Proestrus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | X | | | | | | | | | | 2 | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | 3 | | | | | 2 | 2.5 |
| Epithelium, Mucification | | | | | | | | | | | | | | | | | | | | | | | 4 | | | 4 | 3 | 4 | | | | | | 3 | 4 | | | | | | 3 | | | | | | 7 | 3.6 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|----|-----|-----|
| Bone Marrow | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 22 | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Lumbar, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Lymph Node, Mandibular | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 22 | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 20 | 2.9 |
| Thymus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 22 | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 18 | 2.9 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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

P09: NON-NEOPLASTIC LESIONS 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 | | | | | | | | | | | | | | | | | | | | 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 | 1 | 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 | | |
| | 0 | 0 | 0 | 0 | 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 | 9 | 7 | | |
| | 6 | 6 | 7 | 7 | 8 | 8 | 2 | 2 | 3 | 3 | 4 | 8 | 8 | 9 | 9 | 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 | | |

Spinal Cord, Thoracic

+

1

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|-------|
| Lung | | | | | | | | | | | | | | | | | | | | | | | | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 4.0 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 |
| Pleura, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 |
| Nose | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Trachea | | | | | | | | | | | | | | | | | | | | | | | | 1 |

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----|--------|
| Kidney | | | | | | | | | | | | | | | | | | | | | | | | |
| Casts Protein | | | | | | | | | | | | | | | | | | | | | | | | 22 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 1.0 |
| Nephropathy | | | | | | | | | | | | | | | | | | | | | | | 2 1 | 11 1.6 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | 4 1 | 11 2.0 |
| Cortex, Cyst | | | | | | | | | | | | | | | | | | | | | | | X | 1 3.0 |
| Renal Tubule, Cyst | | | | | | | | | | | | | | | | | | | | | | | X | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | | 3 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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Experiment Number: 10034 - 03

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Species/Strain: RATS/Sprague Dawley (NCTR)

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Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

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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 | 0364 |
| ANIMAL ID | 00621 | 00622 | 00631 | 00632 | 00641 | 00642 | 00671 | 00672 | 00677 | 00678 | 00688 | 00689 | 00690 | 00691 | 00692 | 00694 | 00695 | 00696 | 00697 | 00698 | 00699 | 00700 | 00701 | 00702 | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | + 2 |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | + 2 |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | |
| Cardiomyopathy | | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | 1 | | | | | | | 1 | 8 1.0 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | |
| Degeneration, Cystic | | | 4 | | | | | | | | | | | | | | | | 2 | | | | | 2 3.0 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 23 | |
| Hyperplasia | | | | | 2 | | | | | | | | | | | | | | | 1 | | | | 2 1.5 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | |
| Vacuolization Cytoplasmic | 1 | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | X | | | | | | | | X | | 2 | |
| Pars Distalis, Hyperplasia | | | 3 | 1 | | 1 | 1 | | 1 | 1 | 2 | | 1 | 1 | 2 | 2 | 4 | 2 | | 3 | | 1 | | 15 1.7 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | |
| Ultimobranchial Cyst | | | X | | | X | | X | | X | | X | X | X | | | | | | | X | | | 8 | |

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+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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Experiment Number: 10034 - 03

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Species/Strain: RATS/Sprague Dawley (NCTR)

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Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

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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 | 0366 |
| | 00621 | 00622 | 00631 | 00632 | 00641 | 00642 | 00681 | 00682 | 00691 | 00690 | 00641 | 00642 | 00641 | 00642 | 00651 | 00652 | 00661 | 00663 | 00671 | 00672 | 00674 | 00687 | 00681 | 00682 | 12 | 1.3 |
| C-cell, Hyperplasia | 1 | | | 2 | 1 | | | 1 | 1 | 1 | | | | 2 | 1 | 1 | 1 | | | 2 | 1 | | | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|--|
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |
| Atrophy | 4 | 2 | 4 | | 2 | 4 | 4 | 1 | 1 | 1 | | | | 1 | 2 | 2 | 1 | | | 1 | | | | | 14 | 2.1 | |
| Diestrus | | X | | X | X | | | | X | | X | | | X | X | X | | | | X | X | X | | | 12 | | |
| Estrus | | | | | | | | | | | | | | | | | | | X | | | | | | 1 | | |
| Metestrus | | | | | | | | X | X | | X | | | X | | | | X | | | | | X | | 6 | | |
| Proestrus | | | | | | | | | | | | X | | | | | | | | | | | | | 1 | | |
| Bursa, Cyst | | | X | | | | | | | | X | | | | | | | | | | | | | | 2 | | |
| Corpus Luteum, Depletion | X | | X | | | X | X | | | | | | | | | | | | | | | | | | 4 | | |
| Follicle, Cyst | X | | X | | | X | X | | | | | | | | | | X | | | | | | | | 5 | | |
| Interstitial Cell, Hypertrophy | 3 | | | | 4 | 3 | | | | | | | | | | | | | | | | | | | 3 | 3.3 | |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |
| Apoptosis | 4 | | 4 | | 4 | 2 | | | | | | | | | | | | | | 4 | | | | | 5 | 3.6 | |
| Diestrus | | X | | X | X | | | | X | | X | | | | X | X | X | | | X | X | X | | | 11 | | |
| Estrus | X | | X | | | X | X | | | | | | | | | | | | X | | | | | | 5 | | |
| Metaplasia, Squamous | 1 | | 1 | | | | 1 | | | | | | | | | | | | | | | | | | 3 | 1.0 | |
| Metestrus | | | | | | | | X | X | | X | | X | X | | | | X | | | | | X | | 7 | | |
| Proestrus | | | | | | | | | | | | X | | | | | | | | | | | | | 1 | | |
| Cervix, Cyst | | | | | | | | | | | | | | | | | | | | | X | | | | 1 | | |
| Endometrium, Cyst | | | | | | | | | | X | | | | X | | | | | X | | | | | | 3 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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RATS FEMALE
F1 250.0BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------|--|--|
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| ANIMAL ID | 0
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4
1 | 0
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2 | 0
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7 | 0
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7 | 0
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7 | 0
2
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9
8 | 0
2
6
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8 | | | |
| Endometrium, Hyperplasia | | 2 | | 1 | | | | | 2 | | | | | | 2 | 2 | | | 3 | | 1 | | | | 7 1.9 | | |
| Endometrium, Hyperplasia, Cystic Lumen, Dilatation | 2 | | | | | | 3 | | | 1 | | | 4 | | | | | 4 | | | | | | | 3 2.0
2 4.0 | | |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |
| Cyst, Squamous | | | | | | | | | | | | | | | | | | | X | | | | | | 1 | | |
| Diestrus | | X | | X | | | | X | X | | | | | | X | X | X | | | X | X | X | | | 10 | | |
| Estrus | X | | X | | X | X | | | | | | | | | | | | | X | | | | | | 5 | | |
| Infiltration Cellular, Polymorphonuclear | | | | | | | | | | | | | | | | | | | | | 2 | | | | 1 2.0 | | |
| Metestrus | | | | | X | | X | X | X | X | X | X | X | X | | | | X | | | | | X | | 8 | | |
| Proestrus | | | | | | | | | | | X | | | | | | | | | | | | | | 1 | | |
| Epithelium, Hyperplasia | 3 | | 3 | | 3 | 3 | | | | | | | | | | | | | | | | | | | 4 3.0 | | |
| Epithelium, Mucification | | 3 | | 4 | | | | 3 | 3 | | | | | | 3 | 4 | 4 | | | 3 | | 2 | | | 9 3.2 | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |
| Lymph Node | | | | | + | | | | | | | | | | | | | | | | | | | | 1 | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | 3 | | | | | | | | | | | | | | | | | | | | 1 3.0 | | |
| Mediastinal, Infiltration Cellular, Mast Cell | | | | | 2 | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| Renal, Hemorrhage | | | | | 3 | | | | | | | | | | | | | | | | | | | | 1 3.0 | | |
| Renal, Pigmentation | | | | | 4 | | | | | | | | | | | | | | | | | | | | 1 4.0 | | |
| Renal, Sinus, Dilatation | | | | | 3 | | | | | | | | | | | | | | | | | | | | 1 3.0 | | |
| Lymph Node, Mandibular | | | | | + | | | | | | | | | | | | | | | | | | | | 1 | | |
| Infiltration Cellular, Plasma Cell | | | | | 4 | | | | | | | | | | | | | | | | | | | | 1 4.0 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |
| Hematopoietic Cell Proliferation | | | | | 4 | | | | | | | | | | | | 1 | | | | | | 3 | | 3 2.7 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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 | 0367 | | | 0364 |
| ANIMAL ID | 00621 | 00622 | 00631 | 00632 | 00641 | 00642 | 00681 | 00682 | 00689 | 00691 | 00690 | 00641 | 00642 | 00651 | 00652 | 00661 | 00662 | 00671 | 00672 | 00677 | 00678 | 00680 | 00684 | 00687 | | | |
| Pigmentation | 4 | 4 | 4 | 4 | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 4 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 1 | 3 | 24 | 2.8 | |
| Polyarteritis | | | | | 3 | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |
| Atrophy | 4 | 3 | 4 | 4 | | 2 | 1 | 3 | | | 4 | 4 | 3 | 4 | 3 | 3 | 3 | 3 | 4 | 2 | 1 | 4 | 2 | 4 | 21 | 3.1 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |
| Atypical Focus | | | | 1 | | | | | | | | | | | | | | | | | 1 | | | | 2 | 1.0 | |
| Hyperplasia, Lobular | | 1 | | 2 | | 1 | 1 | | 1 | | 1 | | | 1 | 1 | 1 | 1 | 2 | | 2 | 3 | 1 | 1 | 15 | 1.3 | | |
| Duct, Dilatation | | | | 3 | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | | | | | | + | | | | | | | | | + | | | | | | | | + | | 3 | | |
| Infiltration Cellular, Histiocyte | | | | | | 3 | | | | | | | | | 2 | | | | | | | | | | 2 | 2.5 | |
| Nose | | | | | | | + | | | | | | | | | | | | | | | | + | | 2 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 10034 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P09: NON-NEOPLASTIC LESIONS 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 | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--------------------------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| F1 250.0BPA F | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | |
| ANIMAL ID | | 6 | 6 | 6 | 6 | 2 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 6 | |
| | | 3 | 2 | 3 | 3 | 3 | 5 | 2 | 2 | 2 | 1 | 3 | 3 | 3 | 2 | 3 | 3 | 4 | 3 | 4 | 4 | 4 | 4 | 7 | 4 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | |
| | | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 8 | 8 | 8 | |
| | | 2 | 2 | 3 | 3 | 4 | 4 | 8 | 8 | 9 | 9 | 0 | 4 | 4 | 5 | 5 | 6 | 6 | 3 | 3 | 4 | 4 | 7 | 7 | 7 | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 4 | 1 | 2 | 2 | |

Trachea + + 2

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 |
| Accumulation, Hyaline Droplet | | | | | 4 | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Casts Protein | | | | | | | 1 | | | | | 1 | | | | | 1 | | | | | | | | 4 1.0 |
| Mineralization | | 1 | 1 | 1 | | 1 | 1 | | | | 1 | 1 | 1 | | | 1 | | | 1 | | | 2 | | | 12 1.1 |
| Nephropathy | | | 1 | 1 | 4 | | 2 | | 1 | | | | | | 1 | 1 | | | | | | 1 | | | 8 1.5 |
| Pigmentation | | | | | | | | | | | | | | | | | | 2 | | | | | | | 1 2.0 |
| Polyarteritis | | | | | 4 | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Cortex, Cyst | | | | | X | | | X | | X | X | | | | | | | | | | | | | | 4 |
| Renal Tubule, Cyst | | | | | | X | | | | | | | X | | | | | | | | X | | | | 3 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically M .. Missing tissue
 X .. Lesion present A .. Autolysis precludes evaluation
 I .. Insufficient tissue BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 10034 - 03
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 Bisphenol A
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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 FEMALE | 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 |
| ANIMAL ID | 3 | 3 | 3 | 2 | 3 | 2 | 4 | 3 | 4 | 3 | 3 | 2 | 4 | 3 | 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 | 2 | 2 | 2 | 2 | 2 | 2 | 5 | 5 | 5 | 5 | 7 | 7 | 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 | 2 |
| * TOTALS | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | X | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | X | | | | | | |
| Infiltration Cellular, Mononuclear Cell | | | | | | | 1 | | | | | | | | 1 | 1 | 1 | | 1 |
| Tension Lipidosis | | | | | | | | | | | | | | | 3 | | | | |
| Vacuolization Cytoplasmic | | | | | | | | | 2 | | | | | | | | | | |
| Bile Duct, Hyperplasia | | 1 | | | | | 1 | | | 1 | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basophilic Focus | | | | | | | X | | | | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | 1 |
| Acinus, Degeneration | 2 | 4 | | | 1 | | 2 | 2 | 1 | 1 | | | 3 | | 1 | 1 | 2 | 1 | 2 |
| * TOTALS | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 1 | | 1 | 1 | | 1 | 1 | | | | | | | 1 | 1 | | 1 | | 2 |
| * TOTALS | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Degeneration, Cystic | | | | | | | 3 | | | | | | | 2 | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| * TOTALS | | | | | | | | | | | | | | | | | | | |

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 10034 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P09: NON-NEOPLASTIC LESIONS 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 2500.BPA 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 |
| | | 3 | 3 | 3 | 2 | 3 | 2 | 4 | 3 | 4 | 3 | 3 | 2 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 2 |
| | ANIMAL ID | 00781 | 00779 | 00771 | 00777 | 00788 | 00788 | 00799 | 00799 | 00799 | 00799 | 00799 | 00799 | 00799 | 00799 | 00799 | 00799 | 00799 | 00799 | 00799 | 00799 | 00799 | 00799 |

* TOTALS

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Parathyroid Gland
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | 1 | 1.0 |
| Pituitary Gland
Pars Distalis, Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | 1 | |
| Pars Distalis, Hyperplasia | 1 | | 1 | 2 | 1 | | | 2 | 3 | 2 | 2 | 1 | 2 | 4 | 1 | | 2 | 1 | 1 | 1 | 1 | 1 | 16 | 1.7 | |
| Thyroid Gland
Ultimobranchial Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | 6 | |
| C-cell, Hyperplasia | | X | | X | | | 1 | | X | X | | | | | X | X | | | | | | | 8 | 1.6 | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|-----|
| Clitoral Gland
Hyperkeratosis | | | | | + | | | | | | | | | | | | | | | | | | | 2 | 1 | 4.0 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | 2 | 4.0 | |
| Duct, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | 2 | 4.0 | |
| Ovary
Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | 11 | 3.3 | |
| Cyst | 4 | 1 | 4 | 4 | | | | 4 | 4 | 1 | | | | | | | | | | | | | 1 | | | |
| Diestrus | | | | | X | X | X | | | | | X | | | X | | | | X | X | X | | 8 | | | |
| Metestrus | | | | | | | | | | X | | | | | | | | | | | | | 1 | | | |
| Proestrus | | X | | | | | | | | | | X | | | | | X | | | | | | 3 | | | |
| Bursa, Cyst | | | | | | | X | | | | | | | | | | | | | | | | 1 | | | |
| Corpus Luteum, Cyst | | | | | | | | | | | | | | | | | | | X | X | | | 2 | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

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Bisphenol A

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| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 2500.BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0363 | 0363 | 0366 | 0366 | 0366 | 0366 | 0366 | 0366 | 0366 | 0366 | 0366 | 0366 | 0366 | 0366 | 0366 | 0366 | 0366 | 0366 | 0366 | 0366 | |
| ANIMAL ID | 00781 | 00782 | 00791 | 00792 | 00801 | 00802 | 00811 | 00812 | 00821 | 00822 | 00831 | 00832 | 00841 | 00842 | 00851 | 00852 | 00861 | 00862 | 00871 | 00872 | |
| Corpus Luteum, Depletion | X | | X | X | | | | X | X | | | | | X | X | | | X | | | |
| Follicle, Cyst | X | | X | X | | X | | X | X | | | X | X | X | | | | X | | | |
| Interstitial Cell, Hypertrophy | 2 | | 2 | 3 | | | | 2 | 2 | | | | | 2 | 3 | | | 2 | | | |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Apoptosis | 4 | | 3 | | | | | | | 3 | | | | 4 | 3 | | | | | | |
| Diestrus | | | | | X | X | X | | | | X | | | | X | | | X | X | X | |
| Estrus | X | | X | | | | | | X | | | | X | X | | | | X | | | |
| Metaplasia, Squamous | | | 1 | | | | | | 3 | | | | | | | | | 1 | | | |
| Metestrus | | | | | | | X | | X | | | | | | | | | | | | |
| Proestrus | | X | | X | | | | | | | | X | | | | | X | | | | |
| Endometrial Glands, Hyperplasia | | | | 2 | | | | | | | | | X | | | | | | | | |
| Endometrium, Hyperplasia | | | | | 1 | | | | | | 2 | | | | 3 | | | 3 | | 2 | |
| Endometrium, Hyperplasia, Cystic Lumen, Dilatation | 3 | | 2 | | | | | | | 2 | 2 | | | 2 | 2 | | | 2 | | | |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Diestrus | | | | | X | X | X | | | | X | | | | X | X | | X | X | X | |
| Estrus | X | | X | X | | | | | X | | | | X | X | | | | X | | | |
| Metestrus | | | | | | | X | | X | | | | | | | | | | | | |
| Proestrus | | X | | | | | | | | | | X | | | | | | | | | |
| Epithelium, Hyperplasia | 3 | | 3 | | | | | | 3 | | | | 3 | 3 | | | 2 | | | | |
| Epithelium, Mucification | | | | | 4 | | 4 | | | | 4 | | | | 4 | | 3 | 3 | | 4 | |

HEMATOPOIETIC SYSTEM

Bone Marrow + 20

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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F1 2500.BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0363 | 0363 | 0363 | 0362 | 0363 | 0362 | 0364 | 0363 | 0364 | 0363 | 0362 | 0364 | 0363 | 0364 | 0363 | 0364 | 0364 | 0364 | 0363 | 0362 | |
| ANIMAL ID | 00781 | 00782 | 00781 | 00782 | 00781 | 00782 | 00781 | 00782 | 00781 | 00782 | 00781 | 00782 | 00781 | 00782 | 00781 | 00782 | 00781 | 00782 | 00781 | 00782 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | 3 | 3 | 4 | 4 | 3 | 3 | 2 | 4 | | 2 | 2 | 4 | 4 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | 4 | 4 | 3 | 4 | | 2 | | 3 | 3 | | 4 | 2 | | 2 | 2 | 4 | 3 | 4 | 4 | 3 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Galactocele | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lobular | | | | 1 | 1 | | 1 | 1 | 1 | | 1 | | 2 | 2 | 1 | | 1 | 4 | 1 | 1 | |
| Duct, Dilatation | | | | | | | | | 1 | | | | | 3 | | | | | | | |
| Skin | | | | | | | | | | | | | | | | | | | | + | |
| Edema | | | | | | | | | | | | | | | | | | | | 4 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | 4 | |
| Ulcer | | | | | | | | | | | | | | | | | | | | 4 | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | 4 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 10034 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P09: NON-NEOPLASTIC LESIONS 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.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 |
| | | 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 | 2 | 4 | 3 | 4 | 3 | 3 | 2 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 2 |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 9 | 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

Brain, Cerebrum

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

20

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Casts Protein | 1 | | 1 | | | 1 | | | | | | | | | | | | | | | | |
| Mineralization | | 1 | | | | 2 | | 2 | 2 | 1 | | 1 | | 1 | 1 | | 1 | | 1 | 1 | | |
| Nephropathy | | | | 1 | 1 | | 1 | 1 | 1 | | 1 | | 1 | 3 | 1 | | 3 | 1 | | | | |
| Cortex, Cyst | | | | | X | | | | | X | | | | | X | | | | | | | |
| Renal Tubule, Cyst | | | | | X | | | | | | | | | | | | X | | X | | | |

20

3 1.0
11 1.3
11 1.4
3
3

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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Experiment Number: 10034 - 03

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Bisphenol A

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Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
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 | |
| ANIMAL ID | 00941 | 00942 | 00945 | 00946 | 00949 | 00951 | 00952 | 00953 | 00954 | 00955 | 00956 | 00957 | 00958 | 00959 | 00960 | 00961 | 00962 | 00963 | 00964 | 00967 | 00968 | 00969 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | X | | | | 1 |
| Fatty Change | | | | | | | | | | | | | | | | | | | 3 | | | | 1 3.0 |
| Infiltration Cellular, Mononuclear Cell | | | 1 | | | | | | | | 1 | | 1 | | | | | | | | 1 | | 4 1.0 |
| Tension Lipidosis | | | | | | | | | | | | | | | | | | | | | 1 | | 1 1.0 |
| Vacuolization Cytoplasmic | | | | | | | | | | 1 | | | | | | | | | | | | | 1 1.0 |
| Bile Duct, Hyperplasia | | | | | | | 1 | | | | | | | | | | | | | | | 2 | 2 1.5 |
| Mesentery | | | | | | | | | | | | | | | | | | | + | | | | 1 |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | 2 | | | | | 1 2.0 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 |
| Infiltration Cellular, Polymorphonuclear | | | | | | | | | | | | | | | | | | | | | | 1 | 1 1.0 |
| Acinus, Degeneration | 2 | 2 | | 2 | 1 | 4 | 2 | 3 | 1 | | 2 | | 2 | 2 | 2 | 2 | 4 | | 1 | 1 | 1 | | 18 2.0 |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Cyst Epithelial Inclusion | | | | | | | | | | | + | | | | | | | | | | | | 1 |
| | | | | | | | | | | | X | | | | | | | | | | | | 1 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 |
| Cardiomyopathy | | | | 1 | 2 | 1 | | | | | 1 | | 1 | | | 1 | | | | 1 | | | 7 1.1 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

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

1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 10034 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

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Bisphenol A

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Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25000 BPA F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-----|-----|-----|
| | 0363 | 0334 | 0335 | 0334 | 0335 | 0332 | 0332 | 0333 | 0333 | 0333 | 0333 | 0333 | 0333 | 0333 | 0333 | 0333 | 0333 | 0333 | 0333 | 0333 | 0333 | 0333 | | | | |
| ANIMAL ID | 00941 | 00994 | 00999 | 00999 | 00999 | 00999 | 00999 | 00999 | 00999 | 00999 | 00999 | 00999 | 00999 | 00999 | 00999 | 00999 | 00999 | 00999 | 00999 | 00999 | 00999 | 00999 | | | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | 1 | 3 | 2 | 2.0 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | | |
| Parathyroid Gland
Hyperplasia | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 23 | 1 | 2.0 | |
| Pituitary Gland
Pars Distalis, Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | | |
| Pars Distalis, Hyperplasia | X | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Thyroid Gland
Ultimobranchial Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | | |
| C-cell, Hyperplasia | X | | X | | X | | X | | X | | | | | | | | | | | | | | 11 | | | |
| | | | 1 | | 1 | 2 | | 1 | 1 | 2 | 2 | 1 | | 1 | 1 | 3 | 1 | 1 | | 1 | | 1 | 16 | 1.3 | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|---|-----|
| Fat Pad, Ovarian/parametrial
Necrosis | | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | 3 | 2 | 2 | 2.5 |
| Ovary
Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | | |
| Diestrus | | | | | | | | | | | | | | | | | | | | | | | 11 | 3.6 | | |
| Estrus | | | X | | | | | | | | | | | | | | | | | | | | 9 | | | |
| Metestrus | | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| | X | | | | | | | | | | | | | | | | | | | | | | 5 | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

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Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 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 | 00946 | 00949 | 00951 | 00952 | 00953 | 00954 | 00955 | 00956 | 00957 | 00958 | 00959 | 00960 | 00961 | 00962 | 00963 | 00964 | 00965 | 00966 | 00967 | 00968 | 00969 | |
| Bursa, Cyst | | | | | | | | | | | | | | | | | | | | | | X | X | X | 3 |
| Corpus Luteum, Cyst | | | | | | X | | | | | | | | | | | | | | | | | | | 1 |
| Corpus Luteum, Depletion | | | | X | X | | X | | X | | X | X | | X | | | | | | | X | X | | | 9 |
| Follicle, Cyst | | | X | X | | X | | X | | X | X | | X | X | X | | | | | | X | X | | | 11 |
| Interstitial Cell, Hypertrophy | | | 2 | 1 | | 2 | | 3 | | 2 | 2 | | 2 | | | | | | | | 2 | 2 | | | 9 2.0 |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | |
| Apoptosis | | | | 4 | 3 | | 4 | | 3 | | 2 | 4 | | 3 | | | | | | | 3 | 3 | | 9 3.2 | |
| Diestrus | | X | | | | | X | | | | | | | X | | X | | | | | | | X | 5 | |
| Estrus | | | | X | X | | X | | X | | X | X | | X | | | | | | | X | X | | 9 | |
| Metaplasia, Squamous | | | | | | | 1 | | | | 1 | | | 1 | | | | | | | 1 | 1 | | 5 1.0 | |
| Metestrus | X | | | | | X | | | | X | | | X | | | | | X | X | X | | | X | 8 | |
| Proestrus | | | X | | | | | | | | | | | | | X | | | | | | | | 2 | |
| Endometrial Glands, Hyperplasia | | | | | | | | | 3 | | | | | | | | | | | | | | | 1 3.0 | |
| Endometrium, Hyperplasia | | | | | | | 2 | | | | | | | | | | | | | | | 2 | | 2 2.0 | |
| Endometrium, Hyperplasia, Cystic | | | | | 2 | | 2 | | 4 | | | | 2 | | | | | | | | | | | 4 2.5 | |
| Lumen, Dilatation | | | 4 | | | | | | | | | | | | | 4 | | | | | | | | 2 4.0 | |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | |
| Diestrus | | | | | | | | | X | | | | | | | X | X | X | | | X | | X | 7 | |
| Estrus | | | X | X | X | | X | | | | X | X | | X | | | | | | | X | X | | 9 | |
| Metestrus | X | X | | | | X | | | X | X | | X | | | | | | X | X | | | | | 8 | |
| Epithelium, Hyperplasia | | | | 3 | 2 | | 3 | | | | 3 | 3 | | 3 | | | | | | | 3 | 3 | | 8 2.9 | |
| Epithelium, Mucification | | | | | 2 | | | | 4 | | | | | 1 | 2 | 4 | 2 | | | | 3 | | 4 | 8 2.8 | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

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

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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 | 00956 | 00961 | 00962 | 00963 | 00964 | 00965 | 00966 | 00967 | 00968 | 00969 | 00970 | 00971 | 00972 | 00973 | 00974 | 00975 | 00976 | 00977 | 00979 | 00981 | 00982 | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Pigmentation | 3 | 4 | 3 | 2 | 3 | 3 | 4 | 3 | 3 | 3 | 2 | 4 | 3 | 4 | 2 | 3 | 2 | | | 3 | 2 | 3 | 3 | 4 | 1 | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | | |
| Atrophy | 3 | 3 | 4 | 4 | 2 | 3 | 3 | 3 | 3 | | 2 | | 3 | 4 | 2 | 2 | 2 | 4 | 4 | 3 | 3 | 3 | 4 | 4 | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | 4 | | | | | | | | | | | | 1 | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | | |
| Hyperplasia, Lobular | | | | 1 | 1 | 1 | 1 | 4 | 3 | | | | | | | 1 | | 2 | | | 1 | | 1 | 1 | 1 | | |
| Duct, Dilatation | | | | | | | | 3 | | | | | | | 1 | | | | | | | | | | 12 | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | | |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | | |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 24 | | | |
| Nerve Trigeminal | | | | | + | + | | | | | | | | | | + | + | | | | | | | 4 | | | |
| Peripheral Nerve, Sciatic | | | | | + | + | | | | | | | | | | + | + | | | | | | | 4 | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue 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
3
6
3 | 0
3
6
3 | 0
3
6
2 | 0
3
6
2 | 0
2
5
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4 | 0
9
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3
1 |

Stomach, Forestomach + +

Stomach, Glandular + A

CARDIOVASCULAR SYSTEM

Blood Vessel +

Heart +

Cardiomyopathy 1 1 1 1 1 1

ENDOCRINE SYSTEM

Adrenal Cortex +

Adrenal Medulla +

Islets, Pancreatic +

Parathyroid Gland Hyperplasia +
2 2

Pituitary Gland Angiectasis + + + + + + + + + + + + + + + M + + + + + + + + + +
4 2

Pars Distalis, Hyperplasia 1 2 2 1 1 2 1 3 2 1 1 1 1 1 2 1 1 3 3 2

Pars Intermedia, Cyst X X X X X X

Thyroid Gland Infiltration Cellular, Lymphocyte +
1

Ultimobranchial Cyst X X X X X X

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically M .. Missing tissue
X .. Lesion present A .. Autolysis precludes evaluation
I .. Insufficient tissue BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 10034 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P09: NON-NEOPLASTIC LESIONS 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 | females
(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
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|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Uterus | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Apoptosis | | | | | | | | 2 | | 4 | 3 | | | | | | | | | | 4 | | | | 3 | | 4 |
| Diestrus | | X | | | | X | | | | | | X | X | | X | X | | | | | X | | | | | | |
| Estrus | | | | | | | | | X | X | X | | | | | | | | | | | X | | | X | | X |
| Infiltration Cellular, Polymorphonuclear | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Squamous | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | 3 |
| Metestrus | X | | X | X | X | | X | | | | | | | X | | | | | X | | | | | | X | | |
| Proestrus | | | | | | | | | | | | | | | | | | | X | | | | | | | X | |
| Endometrial Glands, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Endometrium, Cyst | | | | | | | | | | | | | | | | | | | X | | | | | | X | | |
| Endometrium, Hyperplasia | | 2 | | | | | | | | | | 2 | | | | | | | | | 2 | | | | | | |
| Endometrium, Hyperplasia, Cystic | | | | | | 2 | 1 | | | | 1 | | | | 1 | | | | | | | | | | 2 | | 2 |
| Lumen, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Vagina | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Diestrus | | X | | X | | X | X | | | | | | X | X | | X | X | | | | X | | | | | X | X |
| Estrus | | | | | | | | X | | X | | | | | | | | | | | | | | | X | | X |
| Infiltration Cellular, Polymorphonuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Metestrus | X | | X | | X | | | | | | X | | | X | | | | X | X | | | | | | X | | |
| Proestrus | | | | | | | | | | | | | | | | | | | | X | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | 2 | | 2 | | | | | | | | | | | | | | | | 3 | 3 |
| Epithelium, Mucification | 2 | 3 | | 2 | | 4 | 4 | 2 | | | | | | 4 | 2 | | | | | | 2 | | | | 4 | 4 | 4 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mandibular | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | + | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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 | females
(cont...) |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 6 | 6 | 6 | 6 | 5 | 6 | 6 | 6 | 1 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | 3 | 3 | 2 | 2 | 8 | 2 | 3 | 2 | 6 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 1 | 5 | 4 | 3 | 2 | 3 | 3 | 4 | 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 | |
| | 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 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 4 | 4 | 2 | 2 | 2 | |
| | 6 | 6 | 7 | 7 | 8 | 8 | 2 | 2 | 3 | 3 | 4 | 4 | 8 | 8 | 9 | 9 | 0 | 0 | 9 | 9 | 0 | 0 | 3 | 3 | 4 | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Infiltration Cellular, Plasma Cell | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pigmentation | 4 | 3 | 3 | 2 | 3 | 4 | 3 | 4 | 3 | 3 | 2 | 4 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 4 | 3 | 2 | 2 | 3 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + |
| Atrophy | 4 | 2 | 2 | | | 3 | 2 | 3 | | 3 | 3 | | | 2 | 4 | 3 | 4 | 2 | 4 | 4 | 4 | | 4 | 3 | 4 |
| Hemorrhage | 2 | | | | | | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Lobular | 1 | 1 | | | | 2 | 1 | | | | | | 2 | | | 2 | 1 | | | | 2 | 1 | 2 | 3 | 2 |
| Duct, Dilatation | 1 | | | | | | | | | | | | | | | | | | | | | | | | |

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 lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 10034 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P09: NON-NEOPLASTIC LESIONS 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 | females
(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
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| | | |
|--------------------------|---|---|
| Peripheral Nerve, Tibial | + | + |
| Spinal Cord, Cervical | + | + |
| Spinal Cord, Lumbar | + | + |
| Spinal Cord, Thoracic | + | + |

RESPIRATORY SYSTEM

| | | |
|-----------------|---|---|
| Lung Congestion | + | 4 |
| Nose | + | A |
| Trachea | + | + |

SPECIAL SENSES SYSTEM

| | | |
|------------------------------------|---|---|
| Eye Hemorrhage Bilateral, Cataract | + | 4 |
|------------------------------------|---|---|

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Kidney Casts Protein Mineralization Nephropathy Cortex, Cyst | +
1 | +
1 | +
1 | +
1 | +
1 | +
1 | +
2 | +
2 | +
2 | +
1 | +
2 | +
2 | +
1 | +
1 | +
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1 | +
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1 | +
3 | +
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2 | +
1 | +
2 | +
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2 | +
1 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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 | 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 | females
(cont...) | | |
| | F1 0.05 EE2 F | ANIMAL ID | | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | 3 | |
| | | ANIMAL ID | | 6 | 6 | 6 | 6 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | 6 | 6 |
| | | ANIMAL ID | | 3 | 3 | 2 | 2 | 8 | 2 | 3 | 2 | 6 | 2 | 3 | 2 | 2 | 2 | 1 | 5 | 4 | 3 | 2 | 3 | 3 | 4 | | 3 | 4 |
| ANIMAL ID | | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | | | |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 4 | 4 | 2 | 2 | 2 | 2 | | | |
| ANIMAL ID | | 6 | 6 | 7 | 7 | 8 | 8 | 2 | 2 | 3 | 3 | 4 | 4 | 8 | 8 | 9 | 9 | 0 | 0 | 9 | 9 | 0 | 0 | 3 | 3 | 4 | | |
| ANIMAL ID | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | | |
| Renal Tubule, Cyst | | | X | X | | X | | X | | X | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 10034 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P09: NON-NEOPLASTIC LESIONS 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 | 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 |
| Basophilic Focus | | | | | 3 |
| Clear Cell Focus | | | | | 1 |
| Fatty Change | | | | | 1 1.0 |
| Hepatodiaphragmatic Nodule | | | | | 1 |
| Infiltration Cellular, Mononuclear Cell | | 1 | | | 7 1.0 |
| Inflammation, Chronic Active | | | | | 1 1.0 |
| Tension Lipidosis | | 1 | | | 3 2.3 |
| Vacuolization Cytoplasmic | | | | | 2 1.0 |
| Bile Duct, Hyperplasia | | | | | 8 1.3 |
| Hepatocyte, Necrosis | | | | | 1 1.0 |
| Mesentery | | | | | 1 |
| Fat, Necrosis | | | | | 1 4.0 |
| Pancreas | | + | | | 26 |
| Basophilic Focus | | | | | 2 |
| Infiltration Cellular, Lymphocyte | | | | | 1 1.0 |
| Pigmentation | | 1 | | | 1 1.0 |
| Acinus, Degeneration | | 3 | | | 20 1.6 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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1-4 .. Lesion qualified as:
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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 | |
| Stomach, Forestomach | | | | 2 |
| Stomach, Glandular | | | | 1 |
| CARDIOVASCULAR SYSTEM | | | | |
| Blood Vessel | | + | | 26 |
| Heart | | + | | 26 |
| Cardiomyopathy | | 1 | | 8 1.0 |
| ENDOCRINE SYSTEM | | | | |
| Adrenal Cortex | | + | | 26 |
| Adrenal Medulla | | + | | 26 |
| Islets, Pancreatic | | + | | 26 |
| Parathyroid Gland | | + | | 26 |
| Hyperplasia | | | | 2 2.0 |
| Pituitary Gland | | + | | 25 |
| Angiectasis | | | | 2 3.0 |
| Pars Distalis, Hyperplasia | | 2 | | 20 1.7 |
| Pars Intermedia, Cyst | | | | 1 |
| Thyroid Gland | | + | | 26 |
| Infiltration Cellular, Lymphocyte | | | | 1 1.0 |
| Ultimobranchial Cyst | | X | | 7 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 10034 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P09: NON-NEOPLASTIC LESIONS 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 | 0 | |
| | | 3 | |
| | | 6 | |
| | | 3 | |
| | ANIMAL ID | 0 | |
| | | 9 | |
| | | 2 | |
| | | 4 | |
| | | 2 | |
| | | | * TOTALS |

C-cell, Hyperplasia

Follicular Cell, Hyperplasia

11 1.4

1 2.0

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | |
|--------------------------------|---|----|-----|
| Clitoral Gland | | 1 | |
| Inflammation, Suppurative | | 1 | 3.0 |
| Duct, Dilatation | | 1 | 3.0 |
| Fat Pad, Ovarian/parametrial | | 1 | |
| Necrosis | | 1 | 4.0 |
| Ovary | + | 25 | |
| Atrophy | | 9 | 3.3 |
| Cyst | | 1 | |
| Diestrus | | 12 | |
| Hyperplasia, Tubulostromal | | 1 | 3.0 |
| Metestrus | X | 6 | |
| Proestrus | | 1 | |
| Bursa, Cyst | | 1 | |
| Corpus Luteum, Cyst | | 1 | |
| Corpus Luteum, Depletion | | 6 | |
| Follicle, Cyst | X | 9 | |
| Interstitial Cell, Hypertrophy | | 5 | 2.2 |
| Oviduct | + | 25 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

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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

| | | | | |
|--|---|--|----|-----|
| Uterus | + | | 25 | |
| Apoptosis | | | 6 | 3.3 |
| Diestrus | | | 8 | |
| Estrus | | | 6 | |
| Infiltration Cellular, Polymorphonuclear | | | 1 | 2.0 |
| Metaplasia, Squamous | | | 2 | 2.0 |
| Metestrus | X | | 9 | |
| Proestrus | | | 2 | |
| Endometrial Glands, Hyperplasia | | | 1 | 2.0 |
| Endometrium, Cyst | | | 2 | |
| Endometrium, Hyperplasia | | | 4 | 2.0 |
| Endometrium, Hyperplasia, Cystic | | | 6 | 1.5 |
| Lumen, Dilatation | | | 1 | 4.0 |

| | | | | |
|--|---|--|----|-----|
| Vagina | + | | 25 | |
| Diestrus | | | 10 | |
| Estrus | X | | 6 | |
| Infiltration Cellular, Polymorphonuclear | | | 1 | 2.0 |
| Metestrus | | | 8 | |
| Proestrus | | | 1 | |
| Epithelium, Hyperplasia | 2 | | 7 | 2.4 |
| Epithelium, Mucification | 4 | | 15 | 3.3 |

HEMATOPOIETIC SYSTEM

| | | | | |
|------------------------|---|--|----|-----|
| Bone Marrow | + | | 26 | |
| Lymph Node, Mandibular | | | 1 | |
| Hyperplasia, Lymphoid | | | 1 | 4.0 |

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+ .. Tissue examined microscopically

X .. Lesion present

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BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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2) Mild 4) Marked

Experiment Number: 10034 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P09: NON-NEOPLASTIC LESIONS 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 FEMALE
F1 0.05 EE2 F | 0 | | | |
| | 3 | | | |
| | 6 | | | |
| | 3 | | | |
| ANIMAL ID | | | | |
| | 0 | | | |
| | 9 | | | |
| | 2 | | | |
| | 4 | | | |
| | 2 | | | |
| | | | | * TOTALS |
| Infiltration Cellular, Plasma Cell | | | | 1 3.0 |
| Spleen | + | | | 26 |
| Pigmentation | 3 | | | 26 2.8 |
| Thymus | + | | | 25 |
| Atrophy | 4 | | | 20 3.2 |
| Hemorrhage | | | | 1 2.0 |
| INTEGUMENTARY SYSTEM | | | | |
| Mammary Gland | + | | | 26 |
| Hyperplasia, Lobular | 1 | | | 13 1.6 |
| Duct, Dilatation | | | | 3 1.7 |
| 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 lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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2) Mild 4) Marked

Experiment Number: 10034 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P09: NON-NEOPLASTIC LESIONS 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 | | |
| | | 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 | |
| Congestion | | | | 1 4.0 |
| Nose | | | 1 | |
| Trachea | | | 2 | |
| SPECIAL SENSES SYSTEM | | | | |
| Eye | | | 1 | |
| Hemorrhage | | | | 1 4.0 |
| Bilateral, Cataract | | | | 1 4.0 |
| URINARY SYSTEM | | | | |
| Kidney | + | | 26 | |
| Casts Protein | | | | 2 1.5 |
| Mineralization | 2 | | | 17 1.5 |
| Nephropathy | | | | 13 1.4 |
| Cortex, Cyst | | | | 4 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

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

| | | DAY ON TEST | |
|---|-----------|-------------|-----------------|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 0.05 EE2 F | | 0 | |
| | | 3 | |
| | | 6 | |
| | | 3 | |
| | ANIMAL ID | | |
| | | 0 | |
| | | 9 | |
| | | 2 | |
| | | 4 | |
| | | 2 | |
| | | | * TOTALS |
| Renal Tubule, Cyst | | | 5 |

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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 | females
(cont...) |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 3 | 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 | |
| | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 4 | 4 | 5 | 4 | 3 | 3 | 3 | 2 | 2 | 1 | 4 | 4 | 3 | 3 | 5 | 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 | |
| | 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 | | |
| | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | | |
| | 8 | 8 | 9 | 9 | 0 | 0 | 4 | 4 | 5 | 5 | 6 | 6 | 0 | 0 | 1 | 1 | 2 | 2 | 7 | 7 | 8 | 8 | 1 | 1 | 1 | | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | | |

Neuron, Degeneration

1

Nerve Trigeminal

+

+

+

Peripheral Nerve, Sciatic

+

+

+

Peripheral Nerve, Tibial

+

+

+

Spinal Cord, Cervical

+

+

+

Spinal Cord, Lumbar

+

+

+

Spinal Cord, Thoracic

+

+

+

RESPIRATORY SYSTEM

Lung

+

Infiltration Cellular, Histiocyte

4

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney

+ +

Casts Protein

1 1 1

Mineralization

1 4 1 2 1 1 2 1 1 3 1 2 2 2 1 1

Nephropathy

1 1 1 1 2 1 1 1 1 3 2 2 1 1

Renal Tubule, Cyst

X X X

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 .. Lesion qualified as:

X .. Lesion present

A .. Autolysis precludes evaluation

1) Minimal 3) Moderate

I .. Insufficient tissue

BLANK .. Not examined microscopically

2) Mild 4) Marked

Experiment Number: 10034 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P09: NON-NEOPLASTIC LESIONS 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 | |
| Epithelium, Hyperplasia | | | 1 4.0 |
| Liver | + | 26 | |
| Basophilic Focus | | | 3 |
| Eosinophilic Focus | | | 1 |
| Hepatodiaphragmatic Nodule | | | 1 |
| Infiltration Cellular, Mononuclear Cell | | | 2 1.0 |
| Vacuolization Cytoplasmic | | | 1 1.0 |
| Bile Duct, Hyperplasia | | | 4 1.5 |
| Mesentery | | 2 | |
| Fat, Necrosis | | | 2 4.0 |
| Pancreas | + | 26 | |
| Pigmentation | | | 1 1.0 |
| Acinus, Degeneration | 2 | | 18 1.7 |

CARDIOVASCULAR SYSTEM

| | | | |
|----------------|---|----|--------|
| Blood Vessel | + | 26 | |
| Heart | + | 26 | |
| Cardiomyopathy | 2 | | 17 1.2 |

ENDOCRINE SYSTEM

| | | | |
|----------------|---|----|--|
| Adrenal Cortex | + | 26 | |
|----------------|---|----|--|

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+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
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1) Minimal 3) Moderate
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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

CAS Number: 80-05-7

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

Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 0.50 EE2 F | DAY ON TEST | ANIMAL ID | * TOTALS | | | |
|---|-------------|-----------|----------|-----|--|--|
| | | | | | | |
| | 0 | | | | | |
| | 3 | | | | | |
| | 6 | | | | | |
| | 6 | | | | | |
| Degeneration, Cystic | 2 | | 6 | 2.0 | | |
| Adrenal Medulla | + | | 26 | | | |
| Hemorrhage | | | 1 | 4.0 | | |
| Hyperplasia | | | 1 | 1.0 | | |
| Islets, Pancreatic | + | | 26 | | | |
| Parathyroid Gland | + | | 25 | | | |
| Hyperplasia | | | 1 | 1.0 | | |
| Pituitary Gland | + | | 26 | | | |
| Angiectasis | | | 6 | 2.5 | | |
| Pars Distalis, Cyst | | | 4 | | | |
| Pars Distalis, Hyperplasia | 3 | | 25 | 2.4 | | |
| Thyroid Gland | + | | 26 | | | |
| Ultimobranchial Cyst | X | | 11 | | | |
| C-cell, Hyperplasia | 1 | | 13 | 1.2 | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | |
|-----------------------|---|--|----|-----|--|--|
| Ovary | + | | 26 | | | |
| Atrophy | 4 | | 26 | 4.0 | | |
| Cyst | | | 2 | | | |
| Degeneration, Hyaline | | | 1 | 4.0 | | |
| Fibrosis | | | 1 | 4.0 | | |

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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 |

| | | | |
|--------------------------------|---|----|-----|
| Hyperplasia, Sertoliform | | 1 | 4.0 |
| Pigmentation | | 1 | 4.0 |
| Bursa, Cyst | | 4 | |
| Corpus Luteum, Depletion | X | 26 | |
| Follicle, Cyst | X | 26 | |
| Interstitial Cell, Hypertrophy | 3 | 26 | 2.5 |

| | | | |
|--|---|----|-----|
| Oviduct | + | 26 | |
| Infiltration Cellular, Polymorphonuclear Epithelium, Hyperplasia | | 1 | 3.0 |
| | | 1 | 2.0 |

| | | | |
|--|---|----|-----|
| Uterus | + | 26 | |
| Apoptosis | | 18 | 3.4 |
| Estrus | X | 21 | |
| Infiltration Cellular, Polymorphonuclear | | 1 | 2.0 |
| Metaplasia, Squamous | | 14 | 1.6 |
| Metestrus | | 5 | |
| Endometrial Glands, Hyperplasia | | 2 | 1.5 |
| Endometrium, Cyst | | 2 | |
| Endometrium, Hyperplasia, Cystic | 4 | 14 | 2.1 |

| | | | |
|--------------------------|---|----|-----|
| Vagina | + | 26 | |
| Estrus | X | 20 | |
| Metestrus | | 6 | |
| Epithelium, Hyperplasia | 2 | 20 | 2.6 |
| Epithelium, Mucification | 2 | 18 | 3.1 |

HEMATOPOIETIC SYSTEM

| | | | |
|-------------|---|----|--|
| Bone Marrow | + | 26 | |
|-------------|---|----|--|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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 I .. Insufficient tissue
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Experiment Number: 10034 - 03

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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Bisphenol A

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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 |

| | | | | | |
|---|---|---|----|----|-----|
| Lymph Node, Mandibular
Hyperplasia, Lymphoid
Infiltration Cellular, Plasma Cell | | | 1 | | |
| | | | | 1 | 2.0 |
| | | | | 1 | 2.0 |
| Spleen | + | | 26 | | |
| Hematopoietic Cell Proliferation | | 2 | | 1 | 2.0 |
| Pigmentation | | 2 | | 26 | 3.5 |
| Thymus | + | | 26 | | |
| Atrophy | | 2 | | 24 | 3.4 |
| Epithelial Cell, Hyperplasia | | | | 1 | 4.0 |

INTEGUMENTARY SYSTEM

| | | | | | |
|----------------------|---|---|----|----|-----|
| Mammary Gland | + | | 26 | | |
| Galactocele | | | | 4 | |
| Hyperplasia, Lobular | | 1 | | 23 | 1.6 |
| Duct, Dilatation | | | | 22 | 2.0 |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

| | | | | | |
|-------------------|---|--|----|--|--|
| Brain, Brain Stem | + | | 26 | | |
| Brain, Cerebellum | + | | 26 | | |
| Brain, Cerebrum | + | | 26 | | |

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+ .. 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)

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Bisphenol A
 CAS Number: 80-05-7

Date Report Requested: 08/16/2017
 Time Report Requested: 10:20:03
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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 0.50 EE2 F | | DAY ON TEST | | |
|---|---|-------------|----|-----------------|
| | | ANIMAL ID | | |
| | | 0 | | |
| | | 3 | | |
| | | 6 | | |
| | | 6 | | |
| | | 0 | | |
| | | 9 | | |
| | | 3 | | |
| | | 2 | | |
| | | 2 | | |
| | | | | * TOTALS |
| Neuron, Degeneration | | | 1 | 1.0 |
| 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 | |
| Infiltration Cellular, Histiocyte | | | 1 | 4.0 |
| SPECIAL SENSES SYSTEM | | | | |
| NONE | | | | |
| URINARY SYSTEM | | | | |
| Kidney | + | | 26 | |
| Casts Protein | | | 4 | 1.0 |
| Mineralization | | | 14 | 1.7 |
| Nephropathy | 2 | | 15 | 1.4 |
| Renal Tubule, Cyst | X | | 4 | |

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 10034 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P09: NON-NEOPLASTIC LESIONS 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 | 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 |
| | | 5 | 4 | 5 | 4 | 6 | 6 | 4 | 2 | 7 | 6 | 7 | 7 | 5 | 5 | 5 | 4 | 3 | 3 | 6 | 6 | 6 | 6 |
| | | 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 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 7 | 7 | 9 | 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 | 4 |
| | | 5 | 5 | 6 | 6 | 0 | 0 | 1 | 1 | 2 | 2 | 6 | 6 | 7 | 7 | 2 | 2 | 5 | 5 | 6 | 6 | 6 | 6 |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|--------|
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | |
| Cholangiofibrosis | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 3.0 | |
| Fatty Change | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 | |
| Hepatodiaphragmatic Nodule | | | | X | | | | | | | | | | | | | | | | | | | | 1 | 1 |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | 2 | | | | | | | | | 1 | 2 1.5 | |
| Mixed Cell Focus | | | | | | | | | | | | | | X | | | | | | | | | | 1 | 1 |
| Tension Lipidosis | | | | | | | | | | | | 2 | | | | | | | | | | | | 1 | 1 2.0 |
| Vacuolization Cytoplasmic | | | 1 | | | | | | | | | | | | | | 1 | | | | | | | 2 | 2 1.0 |
| Bile Duct, Hyperplasia | | | | | | 2 | 1 | 1 | | | | | | | 1 | | | | | | | | | 4 | 4 1.3 |
| Mesentery | + | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 |
| Fat, Necrosis | 3 | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 3.0 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | 20 | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | 1 | | | | | | | | | 1 | 1 1.0 |
| Pigmentation | | | | 1 | | | | | | | | | | 1 | | | | | | | | | | 4 | 4 1.0 |
| Acinus, Degeneration | 2 | 3 | 3 | | 1 | 2 | 3 | 2 | 3 | 2 | 4 | 2 | | 3 | | 2 | | | | | | | 2 | 2 3 | 16 2.4 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Cardiomyopathy | 1 | 1 | | | 1 | | | | | | 1 | | 1 | | | | | | | | | | 6 | 6 1.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
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| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 Veh. StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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| ANIMAL ID | 0
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4
1 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Parathyroid Gland
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20
1 1.0 |
| Pituitary Gland
Pars Distalis, Cyst
Pars Distalis, Hyperplasia | + | + | + | + | | X | X | + | + | + | + | + | + | + | + | + | + | + | + | + | 20
3
18 1.4 |
| Thyroid Gland
Ultimobranchial Cyst
C-cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20
4
10 1.0 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Atrophy | 2 | | | 2 | 1 | 1 | 4 | 2 | | 2 | 2 | 2 | | | 4 | | | | | | 10 2.2 |
| Diestrus | | | | X | X | X | | | X | X | X | X | | X | | X | | | | X | 10 |
| Metestrus | X | X | X | | | | | | X | | | | X | | | | | | X | X | 7 |
| Proestrus | | | | | | | | | | | | | | X | | | | | | | 1 |
| Corpus Luteum, Cyst | | | | | X | | | | | | | | | | | | | | | X | 2 |
| Corpus Luteum, Depletion | | | | | | | X | | | | | | | | X | | | | | | 2 |
| Follicle, Cyst | X | | | | | X | | | | X | | | | | X | | | | X | | 5 |
| Interstitial Cell, Hypertrophy | 3 | | | 3 | | 3 | | | | 2 | | | | | | | | | | | 4 2.8 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. 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 Veh. StDose F | 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 | | |
| | 5 | 4 | 5 | 4 | 6 | 6 | 4 | 2 | 7 | 6 | 7 | 7 | 5 | 5 | 5 | 4 | 3 | 3 | 6 | 6 | | |
| | 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 | | |
| | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 4 | 4 | 4 | 4 | | |
| | 5 | 5 | 6 | 6 | 0 | 0 | 1 | 1 | 2 | 2 | 6 | 7 | 7 | 2 | 2 | 5 | 5 | 6 | 6 | | | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | | | |
| | | | | | | | | | | | | | | | | | | | | | * TOTALS | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------|------------|
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | |
| Apoptosis | | | | | | | | 4 | | | | | | | | | 4 | | | | | 2 | 4.0 |
| Atrophy | | | | | | | | | | | 3 | | | | | | | | | | | 1 | 3.0 |
| Diestrus | | | | | X | X | | X | | X | | X | | | | | | | | X | | 7 | |
| Estrus | | | | | | | X | | | | | | | | | | | X | | | | 2 | |
| Infiltration Cellular, Polymorphonuclear | | | | | | | | | | | | | | | | 2 | | | | | | 1 | 2.0 |
| Metestrus | X | X | X | | | | | | X | | | X | | | | X | | X | X | | | 8 | |
| Proestrus | | | | X | | | | | | | | | | | X | | | | | | | 2 | |
| Endometrial Glands, Hyperplasia | | | | | | | | | | | | | | | | | 2 | | | | | 1 | 2.0 |
| Endometrium, Hyperplasia | | | | | 2 | 2 | | 2 | | | | 2 | | 1 | | | | | | 3 | | 6 | 2.0 |
| Endometrium, Hyperplasia, Cystic Lumen, Dilatation | | | | | | | 2 | | | | | | | | | | 4 | | | | | 2 | 3.0 |
| | | | | 4 | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | |
| Atrophy | | | | | | | | | | | 3 | | | | | | | | | | | 1 | 3.0 |
| Diestrus | | | | | X | X | | X | | | | X | | X | | | | | | X | | 6 | |
| Estrus | | | | | | | X | | | | | | | | | | X | | | | | 2 | |
| Metestrus | X | X | X | | | | | | X | X | | | X | | | X | | X | X | | | 9 | |
| Proestrus | | | | X | | | | | | | | | | | X | | | | | | | 2 | |
| Epithelium, Hyperplasia | | | | | | | 3 | | | | | | | | | | 3 | | | | | 2 | 3.0 |
| Epithelium, Mucification | | | | | 2 | 2 | 1 | 4 | | | | 4 | | 4 | | | | | 4 | 3 | | 8 | 3.0 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------|------------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | |
| Hematopoietic Cell Proliferation | | | | | | | | | 2 | | | 2 | | | | | | | | | | 2 | 2.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

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 CAS Number: 80-05-7

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| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 Veh. StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------|--------------|
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| ANIMAL ID | 0
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2 | | |
| | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
| Pigmentation | 3 | 2 | 1 | 3 | 3 | 1 | 4 | 3 | 2 | 3 | 4 | 2 | 1 | 1 | 4 | 2 | 1 | 1 | 2 | 2 | 20 | 2.3 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Atrophy | 2 | 2 | 3 | | 2 | 3 | 2 | 4 | 4 | 2 | 3 | 2 | 2 | 4 | | 3 | 4 | 4 | 3 | 2 | 18 | 2.8 |
| Cyst | | | | | | | | | | X | | | | | | | | | | | | 1 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Atypical Focus | | | | | | | | | | | | | | | | | | | 1 | | | 1 1.0 |
| Galactocele | | | | | | | | | | X | | | | | | | | | | | | 1 |
| Hyperplasia, Lobular | | 1 | 2 | 2 | 1 | 1 | 1 | 1 | | | 2 | 2 | 1 | | 1 | 1 | | 1 | 3 | 1 | 15 | 1.4 |
| Duct, Dilatation | 2 | 1 | | | | | 1 | | | | 3 | | | | | | | | | | 4 | 1.8 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Meninges, Cyst | | | | | | | | | | | | | | | | | | | X | | | 1 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Lung | | | | | | | | | | | | | | | | | | | + | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------|-----------------------|-----------------------|-----------------------|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 Veh. StDose F | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | |
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| | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |

Infiltration Cellular, Histiocyte

1

1 1.0

SPECIAL SENSES SYSTEM

Eye

Cataract

+

1

4

1 4.0

URINARY SYSTEM

Kidney

Casts Protein

Mineralization

Nephropathy

Cortex, Cyst

Renal Tubule, Cyst

Renal Tubule, Hypertrophy

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | 1 | | | | | | | | | | | | 1 | 1 | | | |
| | | | | 1 | 2 | 1 | 2 | 2 | 1 | 1 | | | 2 | | | 1 | 1 | 1 | 1 | 4 |
| 2 | 1 | 1 | | | | | 1 | 1 | 1 | | | | 2 | 1 | | | | | 3 | 1 |
| | | | | X | | | | | X | | | | X | | | | | | | |
| | | | | | | | | X | | | X | X | | | | | X | | | |
| | | | | | | | | | | | | | | | 1 | | | | | |

20

3 1.0

13 1.5

10 1.4

3

4

1 1.0

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 10034 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P09: NON-NEOPLASTIC LESIONS 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 | 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 2.5 StDose F | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 9 | 9 |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 7 | 5 | 5 | |
| | | 0 | 0 | 1 | 1 | 2 | 2 | 6 | 6 | 7 | 7 | 8 | 8 | 2 | 3 | 3 | 4 | 4 | 6 | 6 | 9 | 9 | |
| | | 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 | | |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Degeneration, Cystic | | | | | | | | | 1 | | | | | | | | | | | | | | | | 1 1.0 |
| Fatty Change | | | | | 2 | | 2 | | | | | | | | | | | | | | | | | | 2 2.0 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | X | | | | | | | | | | X | | | 2 |
| Infiltration Cellular, Mononuclear Cell | | | | 1 | | 1 | 1 | | | | | | 1 | | 1 | 1 | | | 1 | 1 | 1 | 1 | | 10 | 1.0 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | 1 | | | | 1 1.0 |
| Tension Lipidosis | | | | | | | 2 | | | | | | | | | | | | | | | 3 | | | 2 2.5 |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | 1 | | | | | | | | 1 1.0 |
| Bile Duct, Hyperplasia | | | | | | 2 | | | | | | | | | | | | | | | | 3 | | | 2 2.5 |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | 2 | | | 1 2.0 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | | |
| Pigmentation | | | | | | | | | | | 1 | | | | | | | | | | | | | | 1 1.0 |
| Acinus, Degeneration | 3 | | 3 | 2 | | 2 | 1 | 2 | | 3 | 2 | 2 | | | 2 | 3 | | | 1 | | 1 | 2 | 14 | 2.1 | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |
| Cardiomyopathy | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | | | | | 1 | | | | | | | | | 8 | 1.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|-------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | 3 | | | | | | | | 1 3.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
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F1 2.5 StDose F | 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 | 1 | | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | | |
| | 6 | 6 | 6 | 6 | 5 | 5 | 7 | 6 | 5 | 5 | 4 | 4 | 5 | 5 | 4 | 4 | 4 | 0 | 4 | 4 | 2 | 2 | 2 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 9 | 9 | 9 | 2 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 7 | 5 | 5 | 5 | 1 | |
| | 0 | 0 | 1 | 1 | 2 | 2 | 6 | 6 | 7 | 7 | 8 | 8 | 2 | 2 | 3 | 3 | 4 | 4 | 6 | 6 | 9 | 9 | 2 | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |
| Parathyroid Gland
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | 21 | 1 2.0 |
| Pituitary Gland
Angiectasis | + | + | + | + | + | + | + | + | + | + | + | + | 3 | 2 | + | + | + | + | + | + | + | 22 | 2 2.5 |
| Pars Distalis, Hyperplasia | 3 | | 1 | 2 | 2 | | 1 | 1 | 2 | 2 | 1 | | 3 | 1 | 1 | 1 | 1 | | | 1 | 1 | 16 | 1.5 |
| Thyroid Gland
Ultimobranchial Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | 6 |
| C-cell, Hyperplasia | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | 3 | 1 | 1 | | 2 | | | 2 | 1 | 2 | 2 | 1 | 16 | 1.4 |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | 3 | | | | | | | | | 1 | 3.0 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|-------|
| Clitoral Gland
Atrophy | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 3.0 |
| Ovary
Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | 9 2.8 | |
| Cyst | 4 | | 1 | 2 | 4 | 2 | | | | 2 | | 4 | | | 2 | | 4 | | | | | 2 | 2 | |
| Diestrus | | | X | X | | X | X | | X | X | | X | | X | | X | X | | X | | | 11 | | |
| Metestrus | | | | | | | | X | | | X | | X | | X | | X | | | | X | 5 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
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|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|
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4 | 0
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4 | 0
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0 | 0
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4 | 0
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4 | 0
3
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2 | | | |
| ANIMAL ID | 0
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0
1 | 0
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1
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2 | 0
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3 | 0
3
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8
4 | 0
3
6
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4 | 0
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7
6 | 0
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6 | 0
3
6
9
5 | 0
3
6
9
5 | |
| Proestrus | | X | | | | | | | | | | | | | | | | | | | X | | 2 |
| Corpus Luteum, Cyst | | | | | | | | | | | | X | | | | | | | | | X | | 2 |
| Corpus Luteum, Depletion | X | | | | X | | | | | | X | | | | | X | | | | | | 4 | |
| Follicle, Cyst | X | | | | X | | X | | | | X | | | | X | | X | | | | | 6 | |
| Interstitial Cell, Hypertrophy | 2 | | | | 3 | | | | | | 2 | | | | | | | | | | | 3 2.3 | |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |
| Apoptosis | | | | | 2 | | | | | | | | | | | | 4 | | | 4 | | 3 3.3 | |
| Diestrus | | | X | X | | X | X | | X | X | | | X | | X | | | | X | | X | 10 | |
| Estrus | | | | | X | | | | | | | X | | | | | X | | | X | | 4 | |
| Metaplasia, Squamous | 1 | | | | 1 | | | | | | | | | | | | | | | | | 2 1.0 | |
| Metestrus | X | | | | | | X | | | X | | | X | | X | | X | | | | X | 7 | |
| Proestrus | | X | | | | | | | | | | | | | | | | | | | | 1 | |
| Cervix, Cyst, Squamous | | | | | | | X | | | | | | | | | | | | | | | 1 | |
| Endometrium, Cyst | | | | | | | | | | | | | | | | | | | X | | | 1 | |
| Endometrium, Hyperplasia | | | 2 | 3 | | 1 | 2 | | 2 | 2 | | 2 | | | | 3 | | | | | 2 | 9 2.1 | |
| Endometrium, Hyperplasia, Cystic | 3 | | | | | | | | | | 3 | | | | | | 2 | | 2 | | | 4 2.5 | |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |
| Diestrus | | | X | X | | X | X | | X | X | | | X | | X | | X | X | | X | | 11 | |
| Estrus | | | | | X | | | | | | X | | | | | X | | | | | | 3 | |
| Metestrus | X | | | | | | X | | | X | | | X | | X | | | | | | X | 6 | |
| Proestrus | | X | | | | | | | | | | | | | | | | | | X | | 2 | |
| Epithelium, Hyperplasia | 3 | | | | 3 | | | | | | 3 | | | | | 3 | | | | | | 4 3.0 | |
| Epithelium, Mucification | 3 | | 3 | 4 | | 3 | | | 2 | 3 | | 2 | 2 | | 4 | | | 4 | | 4 | | 11 3.1 | |

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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F1 2.5 StDose F | 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 | 1 | | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | | |
| | 6 | 6 | 6 | 6 | 5 | 5 | 7 | 6 | 5 | 5 | 4 | 4 | 5 | 5 | 4 | 4 | 4 | 0 | 4 | 4 | 2 | 2 | 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 | 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 | | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | | |
| | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | | |
| Pigmentation | 3 | 3 | 3 | 2 | 4 | 3 | 3 | 4 | 2 | 2 | 3 | 4 | 1 | 2 | 3 | 3 | 2 | 1 | 2 | 3 | 3 | 2 | 22 | 2.6 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | | |
| Atrophy | 4 | 2 | | 2 | 4 | 4 | 2 | 4 | 2 | 2 | | 4 | | 4 | 4 | 4 | 3 | 3 | 2 | 2 | 2 | 19 | 3.1 | |
| Hyperplasia, Lymphoid | | | 4 | | | | | | | | | | | | | | | | | | | 1 | 4.0 | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |
| Hyperplasia, Lobular | 1 | | 1 | | 2 | 1 | | | 1 | 2 | 1 | 1 | | 3 | | | 1 | | 2 | | | 12 | 1.4 |
| Duct, Dilatation | 1 | | | | 2 | | | | | | | | | | | | | | | | | 2 | 1.5 |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

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|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------|-----|
| | 0
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6 | 0
3
6
5 | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Pars Distalis, Hyperplasia | | | | | 2 | 2 | 3 | 3 | 2 | 1 | | | | 1 | 1 | 3 | 1 | 1 | 2 | 2 | 3 | 14 | 1.9 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | |
| Ultimobranchial Cyst | X | | X | | X | X | | | X | | | | X | | | | | X | | | 7 | | |
| C-cell, Hyperplasia | 1 | 2 | | 1 | 1 | | | | 1 | 1 | 1 | 2 | | 1 | 2 | | | | | 1 | 11 | 1.3 | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Atrophy | 1 | | 1 | 1 | | 1 | 1 | | | | 2 | | | | 1 | | 1 | 4 | 1 | 4 | 11 | 1.6 |
| Diestrus | | X | | | | X | X | | X | X | X | | | | | X | | X | X | | 9 | |
| Metestrus | X | | | | | | | | X | | | | | X | X | | | | | | 4 | |
| Proestrus | | | X | X | X | | | | | | | X | | X | | | | | | | 5 | |
| Corpus Luteum, Cyst | | X | | X | | | | | | | | | | | | | | | | | 2 | |
| Corpus Luteum, Depletion | | | | | | | | | | | | | | | | | X | | | X | 2 | |
| Follicle, Cyst | | X | | X | | | | | | | | | | | | X | | | | X | 4 | |
| Interstitial Cell, Hypertrophy | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 10034 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P09: NON-NEOPLASTIC LESIONS 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 StDose F | 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 | | |
| | 7 | 6 | 6 | 6 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 5 | 4 | 4 | 4 | 6 | 5 | 6 | 6 | 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 | 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 | 7 | 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 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|--|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|---|---|---|---|-----------|--------------|---|----------|--------------|
| Uterus | + | | | | | | | | | | | | | | | | | | | | | 20 | | | | |
| Apoptosis | | | | | | | | | | | | | | | | | | | 4 | | 3 | | 2 3.5 | | | |
| Diestrus | X | | | | | | | | | | | | | | | | | | X | | X | | 7 | | | |
| Estrus | | | | | | | | | | | | | | | | | | | X | | X | | 2 | | | |
| Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | 2 | | | | 1 2.0 | | | |
| Metestrus | X | | | | | | | | | | | | | | | | | X | X | | X | | 6 | | | |
| Proestrus | X | | X | X | | | | | | | | | | | | | | | | | X | X | | | 5 | |
| Endometrial Glands, Hyperplasia | | | | | | | | | | | | | | | | | | | | | 2 | | 1 2.0 | | | |
| Endometrium, Cyst | | | | | | | | | | | | | | | | | | | | X | | | 2 | | | |
| Endometrium, Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | 2 | | 5 1.8 | | | |
| Endometrium, Hyperplasia, Cystic | | | | | 2 | | | | | | | | | | | | | | | | | | | 2 | | 2 2.0 |
| Lumen, Dilatation | | | | | | | | | | | | | | | | | | | 4 | | | | 1 4.0 | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|--|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|---|---|-----------|--------------|--|--------------|
| Vagina | + | | | | | | | | | | | | | | | | | | | | | 20 | | | |
| Diestrus | X | | | | | | | | | | | | | | | | | | X | X | X | | 9 | | |
| Estrus | | | | | | | | | | | | | | | | | | | X | | X | | 2 | | |
| Metestrus | X | | | | | | | | | | | | | | | | | X | X | | | 4 | | | |
| Proestrus | X | | X | X | | | | | | | | | | | | | | | | | X | X | | | 5 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | 3 | | 3 | | 2 3.0 |
| Epithelium, Mucification | 3 | | | | | | | | | | | | | | | | | | 4 | 2 | 3 | | 9 2.9 | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---------------|--------------|
| Bone Marrow | + | | | | | | | | | | | | | | | | | | | | | 20 | |
| Spleen | + | | | | | | | | | | | | | | | | | | | | | 20 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | 2 | | | | 1 2.0 |
| Pigmentation | 4 | 4 | 3 | 2 | 4 | 2 | 2 | 4 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 3 | 2 | 2 | 1 | 3 | | 20 2.3 | |
| Thymus | + | | | | | | | | | | | | | | | | | | | | | 20 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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 StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------------|----------|-----------|-----------------------|
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| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
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3
1 | | | 0
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7
3
2 |
| Atrophy | 3 | 4 | | 3 | 4 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 2 | | 4 | 4 | 2 | 4 | | 18 | 3.6 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--|----------|------------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | | |
| Hyperplasia, Lobular | | 3 | | | | | 1 | | 3 | | 1 | | | 1 | | 1 | | | | 1 | 2 | | 8 | 1.6 |
| Duct, Dilatation | | | | | | | | | | | | | | | | | | | | | 2 | | 1 | 2.0 |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--|--|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|--|------------|
| Lung | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | 4 | | 4.0 |

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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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

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 |
|--|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|
| SPRAGUE DAWLEY (NCTR)
RATS FEMALE | 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 |
| | | 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 | 4 | 6 | 6 | 4 | 4 | 5 | 4 | 5 | 3 | 6 | 6 | 7 | 6 | 5 | 5 | 5 | 5 | 6 | 6 |
| | F1 250.0StDose 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 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 4 | 4 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| | | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | |
| | | 2 | 2 | 3 | 3 | 4 | 4 | 8 | 8 | 9 | 9 | 0 | 0 | 4 | 4 | 3 | 3 | 4 | 4 | 8 | 8 | 7 | |
| | | 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

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|----------|---------------|
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | | |
| Basophilic Focus | | | | | | | | | | | | | | X | | | | | | X | | | 2 | | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Fatty Change | | | | 2 | | | | | | | | 2 | 1 | | | | | | | 1 | | | 4 1.5 | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | X | | | | | | | | | | 1 | | |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | 1 | 1 | 1 | | | 1 | | 1 | | | 1 | 1 | | 7 1.0 | | |
| Tension Lipidosis | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 | | |
| Vacuolization Cytoplasmic | | | | | | | | 1 | | | | | | | 1 | | | | | | 2 | 1 | 4 1.3 | | |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | 2 | 1 | | | | | | | 3 1.3 | | |
| Hepatocyte, Degeneration | | | | | | | | | | | | | | | | | | | | | 3 | | 1 3.0 | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | | |
| Cyst Multilocular | | | | X | | | | | | | | | | | | | | | | | | | 1 | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | 1 | | 1 1.0 | | |
| Acinus, Degeneration | | | | 3 | 2 | | 1 | | 2 | 2 | | 3 | 1 | 3 | | 1 | | | | 4 | 2 | 3 | 1 | 2 | 14 2.1 |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | 1 | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |
| Cardiomyopathy | | | | | | | | | | | | | | 1 | 2 | | 1 | 1 | 1 | 2 | | | 1 | 7 1.3 |

ENDOCRINE SYSTEM

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

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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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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Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 250.0StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--------------|
| | 0366 | 0366 | 0365 | 0364 | 0366 | 0366 | 0364 | 0364 | 0365 | 0364 | 0365 | 0363 | 0366 | 0366 | 0367 | 0366 | 0365 | 0365 | 0365 | 0363 | | 0366 |
| ANIMAL ID | 01821 | 01822 | 01831 | 01832 | 01841 | 01842 | 01881 | 01882 | 01891 | 01892 | 01901 | 01902 | 01961 | 01962 | 01981 | 01982 | 01983 | 01984 | 01987 | 01991 | 01992 | |
| Degeneration, Cystic | | | | | | | 4 | | | | | | | | | | | | 1 | | | 2 2.5 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Parathyroid Gland
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22
2 2.0 |
| Pituitary Gland
Pars Distalis, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22
20 1.6 |
| Thyroid Gland
Infiltration Cellular, Lymphocyte | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22
1 1.0 |
| Ultimobranchial Cyst | | | X | | | | | | | X | X | | | X | | | | | | | | 4 |
| C-cell, Hyperplasia | | 1 | | 1 | | | 2 | 1 | 2 | 1 | | | 1 | 1 | | 2 | | 1 | 1 | | 2 | 12 1.3 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Atrophy | 1 | | 2 | | 4 | 2 | 2 | | | | | | | | | 4 | | | | | | 6 2.5 |
| Diestrus | | X | X | | | X | X | X | X | | | X | X | | | X | X | X | | | X | 12 |
| Metestrus | X | | | X | | | | | | | | | X | | | | | | X | | | 4 |
| Proestrus | | | | | | | | | X | X | | | | X | | | | | | X | | 4 |
| Corpus Luteum, Cyst | | | | | | X | X | | X | | X | | | | | | | | | | | 5 |
| Corpus Luteum, Depletion | | | | | X | | | | | | | | | | X | | | | | | | 2 |
| Follicle, Cyst | | | | | X | X | | X | | | | X | X | | X | | | | X | | | 7 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. 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 250.0StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS |
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| ANIMAL ID | 0
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|----------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---------|--------|
| Interstitial Cell, Hypertrophy | 2 | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Periovarian Tissue, Cyst | X | | | | | | | | | | | | | | | | | | | | X | 2 |
| Oviduct | + | | | | | | | | | | | | | | | | | | | | 22 | |
| Uterus | + | | | | | | | | | | | | | | | | | | | | 22 | |
| Apoptosis | | | | | | | | | | | | | | | | | | | | | 3 | 3.0 |
| Diestrus | X X | | | | | | | | | | | | | | | | | | | | X X | 7 |
| Estrus | | | | | | | | | | | | | | | | | | | | | X | 2 |
| Hyperplasia, Stromal | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Metestrus | X X | | | | | | | | | | | | | | | | | | | | X X X X | 8 |
| Proestrus | | | | | | | | | | | | | | | | | | | | | X X X | 5 |
| Endometrial Glands, Hyperplasia | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Endometrium, Cyst | | | | | | | | | | | | | | | | | | | | | X | 2 |
| Endometrium, Hyperplasia | 3 | | | | | | | | | | | | | | | | | | | | 2 2 1 | 7 1.9 |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | 2 2 | 2 2.0 |
| Lumen, Dilatation | | | | | | | | | | | | | | | | | | | | | 4 | 3.8 |
| Vagina | + | | | | | | | | | | | | | | | | | | | | 22 | |
| Diestrus | X X | | | | | | | | | | | | | | | | | | | | X X X | 10 |
| Estrus | | | | | | | | | | | | | | | | | | | | | X | 2 |
| Metestrus | X X | | | | | | | | | | | | | | | | | | | | X X X X | 5 |
| Proestrus | | | | | | | | | | | | | | | | | | | | | X X X | 5 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | 4 | 4.0 |
| Epithelium, Mucification | 2 2 | | | | | | | | | | | | | | | | | | | | 2 2 2 4 | 11 2.7 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|
| Bone Marrow | + | | | | | | | | | | | | | | | | | | | | 22 | |
|-------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
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M .. Missing tissue
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1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
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Experiment Number: 10034 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Sprague Dawley (NCTR)

P09: NON-NEOPLASTIC LESIONS 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 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 4 | 4 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Myeloid Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular
Hyperplasia, Lymphoid
Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | + | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 | 4.0 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 | 4.0 | | | | | | | | | | | | | | | | | | | | | | |
| Spleen
Hematopoietic Cell Proliferation
Pigmentation | | | | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | 3 | 2.3 | | |
| | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 | 2 | 2 | 3 | 1 | 1 | 3 | 2 | 3 | 4 | 2 | 1 | 3 | 2 | 3 | 1 | 3 | 2 | 3 | 2 | 1 | 22 | 22 | 2.3 |
| Thymus
Atrophy | | | | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | 17 | 3.1 | |
| | | | | | | | | | | | | | | | | | | | | | | | 2 | | 2 | | 4 | 3 | 4 | 2 | | 2 | 4 | 3 | 4 | 3 | 3 | 4 | 4 | 3 | 3 | 2 | | | 17 | 3.1 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland
Hyperplasia, Lobular
Duct, Dilatation | | | | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | 12 | 1.4 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | 1 | 1 | | 2 | | 1 | 1 | 1 | 1 | | 2 | 3 | 2 | | 1 | | 12 | 1.4 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Skin | | | | | | | | | | | | | | | | | | | | | | | + | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | | | | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem | | | | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | | | |
| Brain, Cerebellum | | | | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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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 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 | | | |
| Brain, Cerebrum | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 22 | | |
| Nerve Trigeminal | 6 | 6 | 5 | 4 | 6 | 6 | 4 | 4 | 5 | 4 | 5 | 3 | 6 | 6 | 7 | 6 | 5 | 5 | 5 | 5 | 6 | 1 | | |
| Peripheral Nerve, Sciatic | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | | |
| Peripheral Nerve, Tibial | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 4 | 4 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 1 | | |
| Spinal Cord, Cervical | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 8 | 8 | 8 | 1 | | |
| Spinal Cord, Lumbar | 2 | 2 | 3 | 3 | 4 | 4 | 8 | 8 | 9 | 9 | 0 | 0 | 4 | 4 | 3 | 3 | 4 | 4 | 8 | 8 | 7 | 1 | | |
| Spinal Cord, Thoracic | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 3.0 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | | | | | | | | | | | | | | | | | | | | | | 22 | | |
| Mineralization | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 14 | 1.4 | |
| Nephropathy | 1 | | 1 | | | | | 2 | 1 | 1 | | 1 | 2 | 2 | 2 | | 1 | | 1 | 2 | 1 | 11 | 1.5 | |
| Cortex, Cyst | | | X | | | | X | | | | | | X | | | X | | | | | | 4 | | |
| Renal Tubule, Cyst | | | X | | X | | | | | | | | X | | | | | | X | | | 4 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. 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 2500.StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | ANIMAL ID | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------------|--------|------|
| | 0366 | 0364 | 0365 | 0364 | 0366 | 0366 | 0364 | 0364 | 0364 | 0363 | 0366 | 0366 | 0365 | 0365 | 0364 | 0363 | 0366 | 0367 | | | 0364 | 0364 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 119881 | |
| | 1 | 1 | 1 | 1 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 0 | 0 | 199990011113331177112 | | |
| | 8 | 8 | 9 | 9 | 0 | 0 | 4 | 4 | 5 | 5 | 6 | 0 | 0 | 1 | 1 | 7 | 7 | 1 | 1 | 8899004455600112 | | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1212121212121212 | | |
| | | | | | | | | | | | | | | | | | | | | * TOTALS | | |

| | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | |
| Cardiomyopathy | | | | | | 1 | | 1 | | 1 | | | 1 | | | 1 | 1 | | | | 6 1.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | 1 | | | | | 1 1.0 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | |
| Parathyroid Gland | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 | | |
| Hyperplasia | | | | | | | | | 2 | | | | | | | | | 1 | | | 2 1.5 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | |
| Pars Distalis, Hyperplasia | | | 1 | | 2 | 2 | 3 | 1 | 3 | 1 | 2 | 1 | 2 | 1 | 2 | 3 | 1 | | 2 | 2 | | 16 1.8 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 | | |
| Ectopic Thymus | | | | | | | | | X | | | | | | | | | | | | 1 | |
| Ultimobranchial Cyst | X | X | | | | | | | | | | X | | | | | X | | | | 6 | |
| C-cell, Hyperplasia | 1 | | | | 1 | 2 | | 1 | 1 | 1 | 1 | 1 | 1 | | | 2 | 1 | | 1 | 1 | | 13 1.2 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Clitoral Gland | | | | | | | | | | | | | | | | | | | | | 1 |
|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|

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2 | | |
| | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
| Inflammation, Suppurative Duct, Dilatation | | | | | | | | | | | | | | | | | | | | | 4 | 1 | 4.0 |
| | | | | | | | | | | | | | | | | | | | | | 4 | 1 | 4.0 |
| Ovary | | | | | | | | | | | | | | | | | | | | | 20 | | |
| Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 12 | 2.1 | |
| Diestrus | X | | | X | | | X | | X | X | X | | X | X | X | X | | | | X | 11 | | |
| Metestrus | | X | X | X | | | | | | | | X | | | | | | | X | | 5 | | |
| Proestrus | | | | | | | | | | | | | | | | | X | | | | 1 | | |
| Bursa, Cyst | | | | | | | | X | | | | | | | | | | | | | 1 | | |
| Corpus Luteum, Cyst | | | | | | | | X | | | | | | | | | | | | | 1 | | |
| Corpus Luteum, Depletion | | | | | X | X | | X | | | | | | | | | | | | | 3 | | |
| Follicle, Cyst | | X | X | X | X | X | X | X | | X | | | | | | | | | X | X | 11 | | |
| Interstitial Cell, Hypertrophy | | | | | 2 | 2 | | 2 | | | | | | | | | | | | | 3 | 2.0 | |
| Oviduct | | | | | | | | | | | | | | | | | | | | | 20 | | |
| Uterus | | | | | | | | | | | | | | | | | | | | | 20 | | |
| Apoptosis | | | | | | 4 | | | | | | | | | | | | | | | 1 | 4.0 | |
| Diestrus | X | | X | | X | | X | | X | X | | | X | X | | | | | | X | 9 | | |
| Estrus | | | | | | X | | X | | | | | | | | | | | | | 2 | | |
| Metestrus | | X | | X | | X | | | X | | | X | X | | | | | | X | | 7 | | |
| Proestrus | | | | | | | | | | | | | | | | | X | X | | | 2 | | |
| Endometrium, Cyst | | | | | | | | | | X | | X | X | | | | | | | | 3 | | |
| Endometrium, Hyperplasia | | | | | 2 | | | 2 | | | | 2 | 2 | | 2 | | | | | 2 | 6 | 2.0 | |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | 4 | | | | | | | | | | | | 1 | 4.0 | |
| Lumen, Dilatation | | | | | | | | | | | | | | | | | | 3 | | | 1 | 3.0 | |
| Vagina | | | | | | | | | | | | | | | | | | | | | 20 | | |
| Diestrus | | | X | X | X | | | X | | X | X | | | X | X | | | | | X | 9 | | |
| Estrus | | | | | | X | | X | | | | | | | | | | | | | 2 | | |

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|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------|--|----------|
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|--------------------------|---|---|---|---|---|---|---|---|--|---|---|---|--|--|--|--|---|---|--|---|-------|
| Metestrus | X | X | | | X | | | X | | X | X | | | | | | | X | | | 7 |
| Proestrus | | | | | | | | | | | | | | | | | X | X | | | 2 |
| Epithelium, Hyperplasia | | | | | | 2 | 3 | | | | | | | | | | | | | | 2 2.5 |
| Epithelium, Mucification | | | 4 | 4 | 2 | 3 | 4 | | | 3 | | 4 | | | | | | | | 3 | 8 3.4 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Myeloid Cell, Hyperplasia | | | | 3 | | | | | | | | | | | | | | | | | 1 3.0 |
| Lymph Node, Mesenteric | | | | + | | | | | | | | | | | | | | | | | 1 |
| Degeneration, Cystic | | | | 4 | | | | | | | | | | | | | | | | | 1 4.0 |
| Infiltration Cellular, Plasma Cell | | | | 4 | | | | | | | | | | | | | | | | | 1 4.0 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Hematopoietic Cell Proliferation | | | | 3 | | | | 2 | 1 | | | | | | | | | | | | 3 2.0 |
| Pigmentation | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 4 | 3 | 3 | 3 | | 20 2.6 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Atrophy | 3 | 2 | 4 | 4 | 4 | 2 | | 3 | 4 | 2 | 3 | 2 | 3 | 4 | 2 | | 4 | 3 | 4 | 4 | 18 3.2 |
| Cyst Multilocular | | | | | | X | | | | | | | | | | | | | | | 1 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 20 |
| Hyperplasia, Lobular | 1 | | | | 1 | | | 2 | 2 | | | 2 | | | 1 | | | | | | 7 1.4 |
| Duct, Dilatation | | | | | | | | | 2 | | | | | | | | | | | | 1 2.0 |

MUSCULOSKELETAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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 | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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| ANIMAL ID | 0
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1 | 0
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1 | 0
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7
2 | 1
0
1
7
1 | 1
0
1
7
2 | 1
0
1
1
1 | 1
0
1
1
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 |
| Casts Protein | | | | 1 | | | | | | | | | | | | | | | | | | 1 1.0 |
| Mineralization | 1 | 1 | | 2 | | | 2 | 2 | | 1 | 1 | | 2 | 1 | 2 | 3 | 1 | 2 | | | | 13 1.6 |
| Nephropathy | | | 1 | | | 1 | | 2 | 1 | 2 | | 1 | | | 1 | 2 | 1 | 1 | 2 | 2 | | 12 1.4 |
| Cortex, Cyst | | X | | | | X | | X | | | | | X | X | | X | | | X | | | 7 |
| Renal Tubule, Cyst | | X | | | | X | | X | | | | | X | X | | | | X | | | | 6 |

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

1-4 .. Lesion qualified as:
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Experiment Number: 10034 - 03
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 Bisphenol A
 CAS Number: 80-05-7

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 Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25000StDose 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 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | |
| | 4 | 4 | 5 | 5 | 6 | 6 | 0 | 1 | 1 | 2 | 2 | 6 | 6 | 7 | 7 | 8 | 8 | 1 | 1 | 1 | 1 | 2 | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Esophagus | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Intestine Large, Colon | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Intestine Small, Ileum | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |
| Basophilic Focus | | | | | | | | | | | | X | | X | | | | | | | | | 2 | |
| Eosinophilic Focus | | | X | | | | | | | X | | | | | | | | | | | | | 2 | |
| Hepatodiaphragmatic Nodule | | | | X | | | | X | | X | | | | X | | | | | X | | | | 5 | |
| Infiltration Cellular, Mononuclear Cell | 1 | | 1 | | | 1 | | 1 | | 1 | | 1 | | 1 | | | | 1 | | 1 | | | 8 | 1.0 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | 1 | | | | | | | | | 1 | 1.0 |
| Tension Lipidosis | | | | | | | | | | | 3 | 1 | | | | | | 1 | | | | 4 | 4 | 2.3 |
| Bile Duct, Hyperplasia | 2 | | | | | | 1 | 1 | | | | | 1 | 1 | 1 | 1 | | 1 | | | | | 8 | 1.1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | |
| Pigmentation | 1 | | | | | | | | | | | | | | | | 1 | | | | | | 2 | 1.0 |
| Acinus, Degeneration | 2 | | 2 | 2 | 2 | | 1 | 2 | 1 | 1 | 2 | 2 | | 1 | | 2 | 1 | 3 | | 1 | 1 | 1 | 17 | 1.6 |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | 2 | |

CARDIOVASCULAR SYSTEM

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

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. 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)

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Bisphenol A

CAS Number: 80-05-7

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Lab: NCTR

| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25000StDose F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
| Necrosis | | | | | | | | | | | | | | | | | | | | | 3 | 1 3.0 |
| Ovary | | | | | | | | | | | | | | | | | | | | | 22 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | 15 2.5 | |
| Diestrus | | | | | | | | | | | | | | | | | | | | | 13 | |
| Metestrus | | | | | | | | | | | | | | | | | | | | | 2 | |
| Proestrus | | | | | | | | | | | | | | | | | | | | | 1 | |
| Corpus Luteum, Depletion | | | | | | | | | | | | | | | | | | | | | 6 | |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | 18 | |
| Interstitial Cell, Hypertrophy | | | | | | | | | | | | | | | | | | | | | 5 2.2 | |
| Oviduct | | | | | | | | | | | | | | | | | | | | | 22 | |
| Uterus | | | | | | | | | | | | | | | | | | | | | 22 | |
| Apoptosis | | | | | | | | | | | | | | | | | | | | | 6 3.7 | |
| Diestrus | | | | | | | | | | | | | | | | | | | | | 10 | |
| Estrus | | | | | | | | | | | | | | | | | | | | | 6 | |
| Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | 4 1.8 | |
| Metestrus | | | | | | | | | | | | | | | | | | | | | 4 | |
| Proestrus | | | | | | | | | | | | | | | | | | | | | 2 | |
| Endometrial Glands, Hyperplasia | | | | | | | | | | | | | | | | | | | | | 2 2.0 | |
| Endometrium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | 9 2.2 | |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | 7 2.0 | |
| Vagina | | | | | | | | | | | | | | | | | | | | | 22 | |
| Diestrus | | | | | | | | | | | | | | | | | | | | | 10 | |
| Estrus | | | | | | | | | | | | | | | | | | | | | 6 | |
| Metestrus | | | | | | | | | | | | | | | | | | | | | 4 | |
| Proestrus | | | | | | | | | | | | | | | | | | | | | 2 | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | 6 2.8 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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| SPRAGUE DAWLEY (NCTR)
RATS FEMALE
F1 25000StDose 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 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | | |
| | 4 | 4 | 5 | 5 | 6 | 6 | 0 | 0 | 1 | 1 | 2 | 2 | 6 | 6 | 7 | 7 | 8 | 8 | 1 | 1 | 2 | 2 | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |

| | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|--|--|--|--|--|--|---|---|---|---|---|--|---|---|--|--|--|--|---|---------------|
| Epithelium, Mucification | 4 | 3 | | | | | | | 2 | 4 | 3 | 2 | 4 | | 4 | 3 | | | | | 4 | 10 3.3 |
|--------------------------|---|---|--|--|--|--|--|--|---|---|---|---|---|--|---|---|--|--|--|--|---|---------------|

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | 1 | 3 | | | | 2 2.0 |
| Pigmentation | 3 | 4 | 3 | 3 | 3 | 2 | 2 | 2 | 1 | 2 | 3 | 2 | | 4 | 4 | 2 | 3 | 3 | | 3 | 3 | 20 2.8 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Atrophy | 4 | 3 | | 4 | 4 | 3 | 2 | 2 | 4 | | | 2 | 4 | | | 4 | 2 | 4 | | 4 | 3 | 16 3.3 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Hyperplasia, Lobular | | | | | | | | 1 | 1 | 1 | 1 | | 1 | 2 | 2 | 3 | | 3 | 2 | | 1 | 12 1.7 |
| Duct, Dilatation | | | | | | | | | 1 | | | | | | | | | | | | | 1 1.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | 2 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |
| Compression | | | | | | | | | | | | | | | 4 | | | | | | | 1 4.0 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 X .. Lesion present
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Bisphenol A

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Lab: NCTR

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

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 22 | | |
| Cyst | | | | | | X | | | | | | | | | | | | | | | | | 1 | |
| Metaplasia, Osseous | | 2 | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Ventricle, Dilatation | | | | | | | | | | | | 3 | | | | | | | | | | | 1 | 3.0 |
| Nerve Trigeminal | | | | | | | | | | | | | + | | | | | + | | | | 2 | | |
| Peripheral Nerve, Sciatic | | | | | | | | | | | | | | + | | | | + | | | | 2 | | |
| Peripheral Nerve, Tibial | | | | | | | | | | | | | | + | | | | + | | | | 2 | | |
| Spinal Cord, Cervical | | | | | | | | | | | | | | + | | | | + | | | | 2 | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | 2 | | | | | 1 | 2.0 |
| Polyarteritis | | | | | | | | | | | | | | | | | | 1 | | | | | 1 | 1.0 |
| Spinal Cord, Lumbar | | | | | | | | | | | | | | + | | | | + | | | | 2 | | |
| Axon, Degeneration | | | | | | | | | | | | | | | | | | 2 | | | | | 1 | 2.0 |
| Spinal Cord, Thoracic | | | | | | | | | | | | | | + | | | | + | | | | 2 | | |

| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|--|--|--|--|--|--|---|--|--|--|--|---|--|--|--|--|--|---|---|--|--|---|---|-----|
| Lung | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Infiltration Cellular, Histiocyte | | | | | | | + | | | | | + | | | | | | + | | | | | 1 | 2.0 |
| Nose | | | | | | | | | | | | | | | | | | | + | | | 2 | | |
| Trachea | | | | | | | | | | | | | | | | | | | + | | | 2 | | |

| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| * .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade | | | | | | | | | | | | | | | | | | | | | |
| + .. Tissue examined microscopically | | | | | | | | | | | | | | | | | | | | | |
| X .. Lesion present | | | | | | | | | | | | | | | | | | | | | |
| I .. Insufficient tissue | | | | | | | | | | | | | | | | | | | | | |
| M .. Missing tissue | | | | | | | | | | | | | | | | | | | | | |
| A .. Autolysis precludes evaluation | | | | | | | | | | | | | | | | | | | | | |
| BLANK .. Not examined microscopically | | | | | | | | | | | | | | | | | | | | | |
| 1-4 .. Lesion qualified as: | | | | | | | | | | | | | | | | | | | | | |
| 1) Minimal 3) Moderate | | | | | | | | | | | | | | | | | | | | | |
| 2) Mild 4) Marked | | | | | | | | | | | | | | | | | | | | | |

