

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

NTP Study Number: C10034
Lock Date: 08/16/2017
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.3_002
PWG Approval Date: 09/29/2017

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Sprague Dawley (NCTR) RATS MALE	F1 Veh. Ctrl M	F1 2.5 BPA M	F1 25.0 BPA M	F1 250.0BPA M	F1 2500.BPA M	F1 25000BPA M
Disposition Summary						
Animals Initially In Study	50	48	48	50	50	46
Early Deaths						
Moribund Sacrifice	20	13	21	17	18	23
Natural Death	10	13	3	11	7	8
Survivors						
Moribund Sacrifice	4	3	6	4	6	4
Natural Death	1	3	1	4	3	
Terminal Sacrifice	15	16	17	14	16	11
Animals Examined Microscopically	50	48	48	50	50	46

ALIMENTARY SYSTEM

Esophagus	(35)	(32)	(31)	(36)	(34)	(35)
Dilatation						
Foreign Body						1 (3%)
Perforation		2 (6%)		1 (3%)		
Periesophageal Tissue, Foreign Body		2 (6%)		1 (3%)		
Periesophageal Tissue, Inflammation, Suppurative		2 (6%)		1 (3%)		1 (3%)
Periesophageal Tissue, Necrosis		2 (6%)		1 (3%)		1 (3%)
Intestine Large, Cecum	(0)	(0)	(0)	(0)	(0)	(0)
Dilatation						
Hyperplasia, Lymphoid						
Intestine Large, Colon	(29)	(22)	(31)	(30)	(27)	(30)
Dilatation						
Fibrosis						1 (3%)
Hyperplasia, Goblet Cell						1 (3%)
Inflammation, Suppurative						1 (3%)
Ulcer						1 (3%)
Epithelium, Hyperplasia						1 (3%)
Intestine Large, Rectum	(0)	(0)	(0)	(0)	(0)	(2)
Fibrosis						1 (50%)
Hyperplasia, Goblet Cell						1 (50%)
Inflammation, Suppurative						1 (50%)

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Intestine Small, Duodenum	(0)	(0)	(0)	(0)	(1)	(0)
Intestine Small, Ileum	(26)	(17)	(27)	(24)	(25)	(28)
Dilatation						
Inflammation, Suppurative						1 (4%)
Epithelium, Hyperplasia						1 (4%)
Intestine Small, Jejunum	(0)	(0)	(1)	(0)	(1)	(1)
Bacterium						
Dilatation			1 (100%)			
Diverticulum						
Fibrosis						
Foreign Body						
Hyperplasia, Lymphoid						
Inflammation, Suppurative						
Inflammation, Chronic Active						
Metaplasia, Osseous					1 (100%)	
Mineralization						
Necrosis						
Perforation						
Ulcer						
Liver	(50)	(47)	(48)	(50)	(50)	(45)
Angiectasis	1 (2%)	8 (17%)	4 (8%)	4 (8%)	3 (6%)	2 (4%)
Bacterium					1 (2%)	
Basophilic Focus	5 (10%)	5 (11%)	6 (13%)	8 (16%)	3 (6%)	4 (9%)
Cholangiofibrosis		1 (2%)	1 (2%)			
Clear Cell Focus	11 (22%)	7 (15%)	11 (23%)	14 (28%)	10 (20%)	8 (18%)
Congestion			1 (2%)			1 (2%)
Cyst	2 (4%)		1 (2%)	1 (2%)		
Deformity		2 (4%)		1 (2%)		
Degeneration, Cystic	21 (42%)	19 (40%)	19 (40%)	22 (44%)	18 (36%)	18 (40%)
Eosinophilic Focus		2 (4%)	1 (2%)			
Fatty Change	4 (8%)	8 (17%)	5 (10%)	5 (10%)	4 (8%)	2 (4%)
Fibrosis						
Hematopoietic Cell Proliferation			2 (4%)		2 (4%)	
Hemorrhage					1 (2%)	
Hepatodiaphragmatic Nodule	6 (12%)	2 (4%)	4 (8%)	3 (6%)	7 (14%)	5 (11%)
Infiltration Cellular, Mononuclear Cell	35 (70%)	29 (62%)	37 (77%)	36 (72%)	34 (68%)	28 (62%)

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Infiltration Cellular, Polymorphonuclear Inflammation, Chronic		1 (2%)				1 (2%)
Inflammation, Chronic Active	2 (4%)	1 (2%)		2 (4%)	1 (2%)	1 (2%)
Mixed Cell Focus	1 (2%)		1 (2%)		1 (2%)	1 (2%)
Pigmentation						1 (2%)
Polyarteritis						1 (2%)
Tension Lipidosis	3 (6%)	2 (4%)	3 (6%)	1 (2%)	2 (4%)	7 (16%)
Vacuolization Cytoplasmic	12 (24%)	8 (17%)	11 (23%)	15 (30%)	14 (28%)	14 (31%)
Bile Duct, Hyperplasia	16 (32%)	19 (40%)	17 (35%)	16 (32%)	16 (32%)	12 (27%)
Biliary Tract, Cyst	1 (2%)	1 (2%)		1 (2%)		
Biliary Tract, Cyst Multilocular						
Biliary Tract, Fibrosis	13 (26%)	19 (40%)	19 (40%)	15 (30%)	19 (38%)	10 (22%)
Capsule, Fibrosis			1 (2%)			
Capsule, Hemorrhage						
Hepatocyte, Degeneration					1 (2%)	
Hepatocyte, Necrosis	2 (4%)	3 (6%)	1 (2%)	1 (2%)	4 (8%)	1 (2%)
Hepatocyte, Regeneration						
Oval Cell, Hyperplasia	4 (8%)	1 (2%)		1 (2%)	3 (6%)	2 (4%)
Mesentery	(1)	(0)	(4)	(1)	(1)	(4)
Fat, Abscess						
Fat, Fibrosis			1 (25%)			
Fat, Foreign Body						
Fat, Hemorrhage						
Fat, Inflammation, Granulomatous			1 (25%)			
Fat, Inflammation, Chronic						
Fat, Necrosis	1 (100%)		4 (100%)	1 (100%)	1 (100%)	4 (100%)
Oral Mucosa	(1)	(0)	(1)	(0)	(1)	(0)
Pancreas	(50)	(46)	(48)	(49)	(48)	(44)
Basophilic Focus	2 (4%)	2 (4%)	2 (4%)	1 (2%)	4 (8%)	4 (9%)
Cyst Multilocular					1 (2%)	
Fibrosis						1 (2%)
Hemorrhage					1 (2%)	
Infiltration Cellular, Lymphocyte	36 (72%)	32 (70%)	43 (90%)	38 (78%)	38 (79%)	36 (82%)
Inflammation, Chronic Active	1 (2%)	2 (4%)		1 (2%)		2 (5%)
Lipomatosis	7 (14%)	7 (15%)	12 (25%)	11 (22%)	11 (23%)	9 (20%)
Mineralization						

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Necrosis					1 (2%)	
Pigmentation	29 (58%)	19 (41%)	26 (54%)	26 (53%)	30 (63%)	26 (59%)
Polyarteritis		1 (2%)			2 (4%)	1 (2%)
Thrombosis					1 (2%)	
Vacuolization Cytoplasmic Acinar Cell, Hyperplasia						
Acinus, Degeneration	42 (84%)	36 (78%)	43 (90%)	43 (88%)	44 (92%)	37 (84%)
Artery, Fibrosis	1 (2%)					
Artery, Inflammation, Chronic Active	1 (2%)					
Artery, Mineralization	1 (2%)			1 (2%)		
Artery, Pigmentation	1 (2%)					
Duct, Dilatation		1 (2%)		1 (2%)		
Salivary Glands	(0)	(0)	(0)	(0)	(0)	(0)
Inflammation, Chronic Active						
Stomach, Forestomach	(36)	(31)	(33)	(36)	(32)	(34)
Cyst Epithelial Inclusion			1 (3%)	1 (3%)		1 (3%)
Edema						
Fibrosis		1 (3%)				
Hyperplasia, Basal Cell	1 (3%)					
Inflammation, Chronic Active	1 (3%)	3 (10%)				
Mineralization	1 (3%)					
Necrosis						
Perforation						
Ulcer	1 (3%)	2 (6%)				
Epithelium, Hyperplasia	1 (3%)	3 (10%)	3 (9%)		2 (6%)	1 (3%)
Stomach, Glandular	(34)	(30)	(33)	(32)	(33)	(33)
Cyst						
Cyst Epithelial Inclusion			1 (3%)			
Edema	1 (3%)					
Hemorrhage						
Infiltration Cellular, Polymorphonuclear						
Inflammation, Chronic Active		1 (3%)				
Mineralization	1 (3%)	1 (3%)	3 (9%)	3 (9%)	1 (3%)	
Necrosis	1 (3%)	1 (3%)				
Ulcer						
Epithelium, Hyperplasia	2 (6%)	1 (3%)	1 (3%)	1 (3%)	1 (3%)	

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Tongue	(0)	(1)	(0)	(0)	(0)	(1)
Hemorrhage						
Epithelium, Hyperplasia		1 (100%)				

CARDIOVASCULAR SYSTEM

Blood Vessel	(50)	(48)	(48)	(50)	(50)	(46)
Dilatation				1 (2%)		
Mineralization	1 (2%)	1 (2%)	2 (4%)	3 (6%)	1 (2%)	1 (2%)
Polyarteritis		1 (2%)				
Thrombosis		1 (2%)				
Intima, Proliferation						1 (2%)
Media, Proliferation			1 (2%)			
Heart	(50)	(48)	(48)	(50)	(50)	(46)
Cardiomyopathy	44 (88%)	44 (92%)	43 (90%)	45 (90%)	44 (88%)	41 (89%)
Fibrosis						1 (2%)
Inflammation, Chronic						
Inflammation, Chronic Active						1 (2%)
Metaplasia, Osseous		3 (6%)				1 (2%)
Mineralization	1 (2%)	1 (2%)	2 (4%)	3 (6%)	1 (2%)	
Polyarteritis						
Thrombosis		1 (2%)	1 (2%)			1 (2%)
Atrium, Dilatation	1 (2%)					
Endocardium, Hyperplasia						1 (2%)
Myocardium, Necrosis					1 (2%)	1 (2%)
Pericardium, Fibrosis						
Pericardium, Necrosis						
Ventricle, Dilatation	1 (2%)			1 (2%)		

ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(48)	(48)	(50)	(48)	(45)
Accessory Adrenal Cortical Nodule			2 (4%)		1 (2%)	
Angiectasis	2 (4%)		4 (8%)	1 (2%)	1 (2%)	2 (4%)
Atrophy	1 (2%)					

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Congestion						
Degeneration, Cystic	4 (8%)	6 (13%)	2 (4%)	2 (4%)	2 (4%)	3 (7%)
Hyperplasia	6 (12%)	9 (19%)	8 (17%)	7 (14%)	6 (13%)	7 (16%)
Hypertrophy	2 (4%)		1 (2%)	1 (2%)	2 (4%)	4 (9%)
Infiltration Cellular, Lymphocyte					1 (2%)	
Metaplasia, Osseous	1 (2%)			2 (4%)		
Necrosis	1 (2%)					
Polyarteritis						
Vacuolization Cytoplasmic	18 (36%)	12 (25%)	22 (46%)	14 (28%)	21 (44%)	15 (33%)
Adrenal Medulla	(50)	(48)	(47)	(50)	(50)	(45)
Angiectasis	1 (2%)					
Cyst						
Degeneration, Cystic						
Hemorrhage						
Hyperplasia	5 (10%)	3 (6%)	7 (15%)	6 (12%)	8 (16%)	5 (11%)
Necrosis						
Islets, Pancreatic	(50)	(46)	(48)	(48)	(49)	(45)
Hemorrhage						
Hyperplasia	2 (4%)	2 (4%)		1 (2%)	1 (2%)	
Parathyroid Gland	(49)	(46)	(47)	(50)	(50)	(46)
Hyperplasia	11 (22%)	11 (24%)	23 (49%)	18 (36%)	18 (36%)	12 (26%)
Inflammation, Chronic Active						
Necrosis						
Pituitary Gland	(48)	(48)	(48)	(50)	(50)	(45)
Angiectasis	6 (13%)	11 (23%)	10 (21%)	8 (16%)	9 (18%)	6 (13%)
Atrophy	1 (2%)					
Fibrosis						
Hemorrhage	1 (2%)		1 (2%)	2 (4%)		
Inflammation, Chronic						
Mineralization						
Necrosis						
Pigmentation	1 (2%)					
Thrombosis						
Pars Distalis, Cyst	8 (17%)	4 (8%)	5 (10%)	6 (12%)	5 (10%)	2 (4%)
Pars Distalis, Cyst Multilocular	2 (4%)			3 (6%)	4 (8%)	5 (11%)
Pars Distalis, Degeneration						

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Pars Distalis, Hyperplasia	11 (23%)	9 (19%)	19 (40%)	15 (30%)	17 (34%)	19 (42%)
Pars Distalis, Hypertrophy	4 (8%)	2 (4%)	3 (6%)	3 (6%)	3 (6%)	1 (2%)
Pars Distalis, Vacuolization Cytoplasmic		1 (2%)				1 (2%)
Pars Intermedia, Cyst	1 (2%)					2 (4%)
Pars Intermedia, Hyperplasia						
Rathke's Cleft, Cyst						1 (2%)
Thyroid Gland	(46)	(40)	(47)	(44)	(44)	(44)
Inflammation, Chronic Active				1 (2%)		
Polyarteritis				1 (2%)		
Ultimobranchial Cyst	7 (15%)	4 (10%)	6 (13%)	5 (11%)	5 (11%)	3 (7%)
C-cell, Hyperplasia	9 (20%)	13 (33%)	15 (32%)	15 (34%)	20 (45%)	11 (25%)
Follicle, Cyst						1 (2%)
Follicular Cell, Hyperplasia	3 (7%)	2 (5%)	9 (19%)	6 (14%)	3 (7%)	3 (7%)

GENERAL BODY SYSTEM

Peritoneum	(0)	(0)	(0)	(0)	(0)	(1)
Tissue NOS	(2)	(0)	(0)	(0)	(1)	(1)
Cyst						1 (100%)
Hemorrhage	1 (50%)					
Mineralization						1 (100%)
Thrombosis						

GENITAL SYSTEM

Bulbourethral Gland	(1)	(0)	(0)	(0)	(0)	(0)
Dilatation						
Coagulating Gland	(47)	(46)	(47)	(49)	(46)	(45)
Atrophy	1 (2%)	2 (4%)			1 (2%)	1 (2%)
Cyst, Mucinous	1 (2%)	1 (2%)				
Degeneration, Cystic	1 (2%)					
Edema						
Fibrosis	1 (2%)					1 (2%)
Infiltration Cellular, Lymphocyte						
Inflammation, Suppurative	2 (4%)				1 (2%)	1 (2%)

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Inflammation, Chronic						
Inflammation, Chronic Active	1 (2%)					
Necrosis						
Epithelium, Hyperplasia				1 (2%)		
Lumen, Dilatation	2 (4%)		1 (2%)			
Ductus Deferens	(0)	(0)	(1)	(0)	(0)	(0)
Granuloma Sperm			1 (100%)			
Epididymis	(49)	(48)	(48)	(50)	(50)	(46)
Atrophy						
Exfoliated Germ Cell	10 (20%)	8 (17%)	10 (21%)	12 (24%)	13 (26%)	6 (13%)
Fibrosis						
Granuloma Sperm				1 (2%)		
Hypoplasia			1 (2%)			
Hypospermia	11 (22%)	11 (23%)	9 (19%)	14 (28%)	11 (22%)	9 (20%)
Infiltration Cellular, Lymphocyte	10 (20%)	12 (25%)	13 (27%)	15 (30%)	14 (28%)	15 (33%)
Inflammation, Suppurative						
Inflammation, Chronic						
Inflammation, Chronic Active				1 (2%)		
Polyarteritis		1 (2%)	1 (2%)	1 (2%)	4 (8%)	1 (2%)
Spermatocoele			1 (2%)			
Epithelium, Degeneration	1 (2%)					
Epithelium, Hyperplasia						
Mesothelium, Hyperplasia						
Fat Pad, Epididymal	(2)	(2)	(0)	(1)	(3)	(1)
Inflammation, Chronic Active						
Mineralization						
Necrosis	2 (100%)	2 (100%)			3 (100%)	1 (100%)
Preputial Gland	(15)	(15)	(15)	(13)	(16)	(9)
Abscess	2 (13%)					
Atrophy	3 (20%)	1 (7%)	3 (20%)	1 (8%)	1 (6%)	1 (11%)
Cyst						
Fibrosis		1 (7%)	1 (7%)			
Hyperkeratosis	3 (20%)	4 (27%)	4 (27%)	1 (8%)	2 (13%)	2 (22%)
Infiltration Cellular, Lymphocyte				1 (8%)		
Inflammation, Suppurative	7 (47%)	12 (80%)	10 (67%)	11 (85%)	8 (50%)	3 (33%)
Inflammation, Granulomatous						

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Inflammation, Chronic Active Necrosis						
Duct, Dilatation Epithelium, Hyperplasia	10 (67%)	13 (87%) 1 (7%)	10 (67%)	12 (92%)	13 (81%)	8 (89%)
Prostate, Dorsal/lateral Lobe	(50)	(48)	(48)	(50)	(50)	(46)
Atrophy	2 (4%)				2 (4%)	1 (2%)
Cyst						
Cyst, Mucinous	2 (4%)	2 (4%)	2 (4%)	3 (6%)	1 (2%)	1 (2%)
Edema						
Fibrosis	9 (18%)	5 (10%)	12 (25%)	9 (18%)	10 (20%)	6 (13%)
Hemorrhage						
Infiltration Cellular, Lymphocyte	33 (66%)	26 (54%)	27 (56%)	27 (54%)	27 (54%)	20 (43%)
Inflammation, Suppurative	41 (82%)	46 (96%)	47 (98%)	45 (90%)	43 (86%)	41 (89%)
Inflammation, Chronic Active			1 (2%)	1 (2%)		
Mineralization			1 (2%)			
Polyarteritis						
Epithelium, Hyperplasia		1 (2%)	1 (2%)			
Muscularis, Necrosis				1 (2%)		
Muscularis, Regeneration				1 (2%)		
Prostate, Ventral Lobe	(50)	(48)	(48)	(49)	(49)	(46)
Atrophy	4 (8%)	2 (4%)	2 (4%)		5 (10%)	5 (11%)
Edema						
Fibrosis	15 (30%)	4 (8%)	6 (13%)	8 (16%)	4 (8%)	11 (24%)
Hemorrhage				1 (2%)		
Infiltration Cellular, Lymphocyte	25 (50%)	14 (29%)	15 (31%)	15 (31%)	20 (41%)	15 (33%)
Inflammation, Suppurative	16 (32%)	5 (10%)	5 (10%)	6 (12%)	5 (10%)	11 (24%)
Inflammation, Chronic Active				1 (2%)		
Mineralization	4 (8%)	1 (2%)		1 (2%)	1 (2%)	
Necrosis				1 (2%)		
Polyarteritis	1 (2%)	1 (2%)				
Epithelium, Hyperplasia	10 (20%)	12 (25%)	10 (21%)	18 (37%)	12 (24%)	8 (17%)
Seminal Vesicle	(44)	(42)	(45)	(41)	(44)	(43)
Atrophy	2 (5%)	3 (7%)	3 (7%)	1 (2%)	3 (7%)	2 (5%)
Concretion						
Edema				1 (2%)		
Fibrosis	1 (2%)					1 (2%)

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Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 Veh. Ctrl M	F1 2.5 BPA M	F1 25.0 BPA M	F1 250.0BPA M	F1 2500.BPA M	F1 25000BPA M
Infiltration Cellular, Lymphocyte Inflammation, Suppurative	2 (5%)				1 (2%)	
Inflammation, Chronic Inflammation, Chronic Active		1 (2%)	1 (2%)	2 (5%)	1 (2%)	2 (5%)
Necrosis				1 (2%)	1 (2%)	
Polyarteritis					1 (2%)	
Epithelium, Hyperplasia	7 (16%)	6 (14%)	5 (11%)	3 (7%)	4 (9%)	3 (7%)
Lumen, Dilatation	2 (5%)	2 (5%)	4 (9%)	2 (5%)		1 (2%)
Testes	(49)	(48)	(48)	(50)	(50)	(46)
Abscess						
Aspermia						
Edema			1 (2%)			
Fibrosis						
Granuloma						
Polyarteritis	12 (24%)	11 (23%)	16 (33%)	20 (40%)	16 (32%)	10 (22%)
Seminiferous Tubule, Degeneration	40 (82%)	30 (63%)	33 (69%)	35 (70%)	38 (76%)	33 (72%)
Seminiferous Tubule, Dilatation						
HEMATOPOIETIC SYSTEM						
Bone Marrow	(48)	(48)	(48)	(49)	(50)	(45)
Hypocellularity	5 (10%)	7 (15%)	5 (10%)			4 (9%)
Necrosis	1 (2%)					
Myeloid Cell, Hyperplasia	6 (13%)	4 (8%)	2 (4%)	3 (6%)	7 (14%)	2 (4%)
Lymph Node	(15)	(9)	(13)	(15)	(16)	(11)
Axillary, Degeneration, Cystic						
Axillary, Hyperplasia, Lymphoid	1 (7%)					2 (18%)
Axillary, Infiltration Cellular, Plasma Cell	1 (7%)	1 (11%)				2 (18%)
Brachial, Degeneration, Cystic						
Brachial, Hyperplasia, Lymphoid						
Brachial, Infiltration Cellular, Plasma Cell						
Cervical, Hyperplasia, Lymphoid			1 (8%)			
Cervical, Infiltration Cellular, Plasma Cell			1 (8%)			
Iliac, Degeneration, Cystic					1 (6%)	
Iliac, Hyperplasia, Lymphoid						

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 Veh. Ctrl M	F1 2.5 BPA M	F1 25.0 BPA M	F1 250.0BPA M	F1 2500.BPA M	F1 25000BPA M
Iliac, Infiltration Cellular, Plasma Cell						
Inguinal, Hyperplasia, Lymphoid				1 (7%)		
Inguinal, Infiltration Cellular, Plasma Cell				1 (7%)		
Lumbar, Degeneration, Cystic	2 (13%)	2 (22%)	3 (23%)	4 (27%)	7 (44%)	2 (18%)
Lumbar, Hemorrhage						
Lumbar, Hyperplasia, Lymphoid	3 (20%)	4 (44%)	1 (8%)	4 (27%)	2 (13%)	2 (18%)
Lumbar, Infiltration Cellular, Plasma Cell	5 (33%)	4 (44%)	4 (31%)	6 (40%)	4 (25%)	4 (36%)
Lumbar, Infiltration Cellular, Polymorphonuclear						
Lumbar, Inflammation, Suppurative						1 (9%)
Lumbar, Necrosis						1 (9%)
Mediastinal, Degeneration, Cystic						
Mediastinal, Hemorrhage		1 (11%)			1 (6%)	
Mediastinal, Hyperplasia, Lymphoid		1 (11%)			1 (6%)	
Mediastinal, Infiltration Cellular, Histiocyte						
Mediastinal, Infiltration Cellular, Mast Cell						
Mediastinal, Infiltration Cellular, Plasma Cell						
Mediastinal, Infiltration Cellular, Polymorphonuclear						
Mediastinal, Inflammation, Suppurative						
Pancreatic, Degeneration, Cystic						
Pancreatic, Hyperplasia, Lymphoid			1 (8%)			
Pancreatic, Infiltration Cellular, Histiocyte			1 (8%)			
Pancreatic, Infiltration Cellular, Plasma Cell						
Pancreatic, Pigmentation						
Popliteal, Hyperplasia, Lymphoid		1 (11%)		1 (7%)		
Popliteal, Infiltration Cellular, Plasma Cell		1 (11%)		1 (7%)		
Renal, Degeneration, Cystic	7 (47%)	6 (67%)	6 (46%)	6 (40%)	5 (31%)	6 (55%)
Renal, Hemorrhage	1 (7%)	2 (22%)	1 (8%)	3 (20%)	2 (13%)	1 (9%)
Renal, Hyperplasia, Lymphoid	2 (13%)		1 (8%)	2 (13%)		1 (9%)
Renal, Infiltration Cellular, Plasma Cell	3 (20%)	3 (33%)	2 (15%)	2 (13%)	2 (13%)	2 (18%)
Renal, Pigmentation	1 (7%)				1 (6%)	
Lymph Node, Mandibular Congestion	(7)	(10)	(9)	(8)	(9)	(4)
Degeneration, Cystic	1 (14%)	3 (30%)	3 (33%)	2 (25%)	4 (44%)	1 (25%)
Hyperplasia, Lymphoid	4 (57%)	7 (70%)	5 (56%)	4 (50%)	5 (56%)	2 (50%)

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A
CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 Veh. Ctrl M	F1 2.5 BPA M	F1 25.0 BPA M	F1 250.0BPA M	F1 2500.BPA M	F1 25000BPA M
Infiltration Cellular, Lymphocyte				1 (13%)		
Infiltration Cellular, Plasma Cell	3 (43%)	8 (80%)	7 (78%)	4 (50%)	7 (78%)	2 (50%)
Lymph Node, Mesenteric	(0)	(1)	(1)	(1)	(2)	(3)
Degeneration, Cystic			1 (100%)			
Fibrosis						
Hemorrhage			1 (100%)			
Hyperplasia, Lymphoid					1 (50%)	1 (33%)
Infiltration Cellular, Polymorphonuclear						1 (33%)
Pigmentation					1 (50%)	
Spleen	(49)	(47)	(48)	(47)	(49)	(45)
Congestion						
Depletion Lymphoid						1 (2%)
Fibrosis						
Hematopoietic Cell Proliferation	13 (27%)	10 (21%)	13 (27%)	11 (23%)	10 (20%)	13 (29%)
Hemorrhage						
Hyperplasia, Lymphoid	1 (2%)	1 (2%)		2 (4%)	3 (6%)	1 (2%)
Mineralization	1 (2%)					
Necrosis	1 (2%)			1 (2%)	1 (2%)	1 (2%)
Pigmentation	28 (57%)	28 (60%)	28 (58%)	23 (49%)	22 (45%)	24 (53%)
Polyarteritis		1 (2%)			2 (4%)	1 (2%)
Vacuolization Cytoplasmic						
Capsule, Fibrosis						
Thymus	(50)	(46)	(46)	(49)	(49)	(43)
Atrophy	47 (94%)	43 (93%)	44 (96%)	47 (96%)	47 (96%)	42 (98%)
Cyst						
Fibrosis						
Hemorrhage	1 (2%)	1 (2%)	1 (2%)			
Polyarteritis						
Epithelial Cell, Hyperplasia						
INTEGUMENTARY SYSTEM						
Mammary Gland	(50)	(48)	(48)	(50)	(50)	(45)
Atypical Focus		1 (2%)			1 (2%)	
Fibrosis				1 (2%)		

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 Veh. Ctrl M	F1 2.5 BPA M	F1 25.0 BPA M	F1 250.0BPA M	F1 2500.BPA M	F1 25000BPA M
Galactocoele	1 (2%)	1 (2%)	1 (2%)	2 (4%)	1 (2%)	1 (2%)
Hyperplasia, Lobular	1 (2%)	1 (2%)	2 (4%)		2 (4%)	
Inflammation, Granulomatous						
Mineralization						
Polyarteritis						
Alveolus, Degeneration	28 (56%)	22 (46%)	25 (52%)	22 (44%)	25 (50%)	23 (51%)
Alveolus, Dilatation	8 (16%)	17 (35%)	11 (23%)	10 (20%)	11 (22%)	9 (20%)
Duct, Dilatation	14 (28%)	18 (38%)	15 (31%)	11 (22%)	15 (30%)	11 (24%)
Skin	(12)	(16)	(14)	(14)	(19)	(17)
Abscess	1 (8%)	1 (6%)				
Angiectasis				1 (7%)		
Cyst, Squamous		1 (6%)				
Cyst Epithelial Inclusion	4 (33%)	3 (19%)	3 (21%)	6 (43%)	9 (47%)	3 (18%)
Edema						1 (6%)
Fibrosis		1 (6%)		1 (7%)		
Foreign Body						
Hemorrhage						
Hyperkeratosis						
Inflammation, Suppurative		2 (13%)			2 (11%)	
Inflammation, Granulomatous	2 (17%)			1 (7%)		
Inflammation, Chronic Active				1 (7%)		1 (6%)
Necrosis				1 (7%)		1 (6%)
Ulcer		1 (6%)		1 (7%)	1 (5%)	1 (6%)
Epithelium, Hyperplasia		1 (6%)		1 (7%)		1 (6%)
Epithelium, Foot, Hyperplasia	6 (50%)	5 (31%)	5 (36%)	4 (29%)	6 (32%)	8 (47%)
Foot, Edema	5 (42%)	2 (13%)	1 (7%)	3 (21%)	5 (26%)	5 (29%)
Foot, Fibrosis	6 (50%)	5 (31%)	4 (29%)	4 (29%)	7 (37%)	9 (53%)
Foot, Hemorrhage						1 (6%)
Foot, Inflammation, Chronic Active	6 (50%)	5 (31%)	5 (36%)	4 (29%)	7 (37%)	9 (53%)
Foot, Necrosis	6 (50%)	4 (25%)	4 (29%)	4 (29%)	7 (37%)	8 (47%)
Foot, Ulcer	6 (50%)	4 (25%)	4 (29%)	4 (29%)	7 (37%)	8 (47%)
Sebaceous Gland, Hyperplasia						

MUSCULOSKELETAL SYSTEM

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 Veh. Ctrl M	F1 2.5 BPA M	F1 25.0 BPA M	F1 250.0BPA M	F1 2500.BPA M	F1 25000BPA M
Bone	(1)	(0)	(1)	(2)	(2)	(1)
Humerus, Abscess						
Humerus, Osteopetrosis						
Joint, Fibrosis			1 (100%)			
Joint, Hyperostosis			1 (100%)			
Joint, Inflammation, Chronic Active			1 (100%)			
Mandible, Osteopetrosis						
Metatarsal, Hyperostosis						
Rib, Hyperostosis						
Tarsal, Hyperostosis						
Tibia, Hyperostosis					1 (50%)	
Vertebra, Fibrous Osteodystrophy						
Bone, Femur	(50)	(48)	(48)	(50)	(50)	(46)
Fibrous Osteodystrophy	1 (2%)	1 (2%)	1 (2%)	2 (4%)	1 (2%)	
Osteopetrosis					1 (2%)	
Skeletal Muscle	(2)	(0)	(3)	(1)	(1)	(1)
Degeneration				1 (100%)		
Fibrosis						
Hemorrhage						
Inflammation, Chronic Active						
Necrosis						

NERVOUS SYSTEM

Brain, Brain Stem	(49)	(48)	(48)	(49)	(49)	(46)
Compression	12 (24%)	14 (29%)	12 (25%)	10 (20%)	9 (18%)	8 (17%)
Cyst				1 (2%)		
Gliosis		1 (2%)				
Hemorrhage				1 (2%)	2 (4%)	1 (2%)
Necrosis		1 (2%)			1 (2%)	1 (2%)
Pigmentation				1 (2%)		
Thrombosis				1 (2%)		
Vacuolization Cytoplasmic						
Brain, Cerebellum	(50)	(48)	(48)	(49)	(49)	(46)
Compression		1 (2%)				

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Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 Veh. Ctrl M	F1 2.5 BPA M	F1 25.0 BPA M	F1 250.0BPA M	F1 2500.BPA M	F1 25000BPA M
Gliosis			1 (2%)			
Hemorrhage	1 (2%)		1 (2%)		1 (2%)	1 (2%)
Necrosis			1 (2%)		1 (2%)	
Polyarteritis			1 (2%)			
Brain, Cerebrum	(50)	(48)	(48)	(49)	(49)	(46)
Compression				1 (2%)	1 (2%)	
Gliosis	1 (2%)	2 (4%)	1 (2%)	1 (2%)		
Hemorrhage	2 (4%)			1 (2%)	1 (2%)	4 (9%)
Mineralization	1 (2%)					
Necrosis	1 (2%)	2 (4%)	1 (2%)	1 (2%)	1 (2%)	1 (2%)
Pigmentation						
Polyarteritis			1 (2%)			
Thrombosis						
Ventricle, Dilatation	6 (12%)	10 (21%)	8 (17%)	5 (10%)	6 (12%)	4 (9%)
Nerve Trigeminal	(11)	(6)	(5)	(9)	(14)	(8)
Axon, Degeneration	8 (73%)	4 (67%)	2 (40%)	6 (67%)	9 (64%)	5 (63%)
Peripheral Nerve, Sciatic	(11)	(6)	(5)	(9)	(14)	(8)
Axon, Degeneration	1 (9%)	1 (17%)				1 (13%)
Peripheral Nerve, Tibial	(11)	(6)	(5)	(9)	(14)	(8)
Axon, Degeneration	1 (9%)					
Spinal Cord, Cervical	(11)	(6)	(5)	(8)	(14)	(8)
Hemorrhage					1 (7%)	
Axon, Degeneration				3 (38%)		
Spinal Cord, Lumbar	(11)	(6)	(5)	(8)	(14)	(8)
Axon, Degeneration	9 (82%)	5 (83%)	5 (100%)	7 (88%)	13 (93%)	5 (63%)
Spinal Cord, Thoracic	(11)	(6)	(5)	(8)	(14)	(8)
Hemorrhage						
Axon, Degeneration				2 (25%)		
RESPIRATORY SYSTEM						
Lung	(38)	(39)	(34)	(38)	(35)	(36)
Abscess						
Congestion	3 (8%)	2 (5%)		3 (8%)	1 (3%)	
Fibrosis						

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Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

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 Veh. Ctrl M	F1 2.5 BPA M	F1 25.0 BPA M	F1 250.0BPA M	F1 2500.BPA M	F1 25000BPA M
Foreign Body	4 (11%)	5 (13%)	2 (6%)	1 (3%)	2 (6%)	2 (6%)
Hemorrhage						2 (6%)
Infiltration Cellular, Histiocyte	9 (24%)	10 (26%)	14 (41%)	13 (34%)	4 (11%)	17 (47%)
Infiltration Cellular, Lymphocyte						
Inflammation, Suppurative					1 (3%)	1 (3%)
Inflammation, Granulomatous	3 (8%)	4 (10%)	3 (9%)	2 (5%)	1 (3%)	3 (8%)
Inflammation, Chronic	1 (3%)					
Inflammation, Chronic Active	2 (5%)	1 (3%)		1 (3%)		1 (3%)
Metaplasia, Osseous	1 (3%)					
Mineralization						
Necrosis	1 (3%)					
Thrombosis						
Alveolar Epithelium, Hyperplasia			2 (6%)	2 (5%)	1 (3%)	1 (3%)
Bronchiole, Epithelium, Hyperplasia		1 (3%)				
Goblet Cell, Metaplasia		1 (3%)				
Pleura, Fibrosis						
Pleura, Foreign Body		1 (3%)				
Pleura, Inflammation, Suppurative		1 (3%)			1 (3%)	
Pleura, Necrosis		1 (3%)				
Subpleura, Cyst						
Nose	(33)	(32)	(31)	(34)	(32)	(35)
Autolysis	1 (3%)	4 (13%)		1 (3%)	1 (3%)	
Cyst Epithelial Inclusion						
Exudate						
Fibrosis						1 (3%)
Fibrous Osteodystrophy	1 (3%)	1 (3%)	1 (3%)	1 (3%)	1 (3%)	
Foreign Body	2 (6%)	4 (13%)		4 (12%)	2 (6%)	3 (9%)
Hemorrhage						
Inflammation, Suppurative	2 (6%)	4 (13%)		5 (15%)	3 (9%)	4 (11%)
Inflammation, Chronic Active	1 (3%)	1 (3%)		1 (3%)		1 (3%)
Osteopetrosis						
Epithelium, Upper Molar, Hyperplasia						
Olfactory Epithelium, Accumulation, Hyaline Droplet	7 (21%)	13 (41%)	9 (29%)	13 (38%)	5 (16%)	5 (14%)
Olfactory Epithelium, Hyperplasia		1 (3%)				
Posterior To Upper Incisor, Malformation						

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 Veh. Ctrl M	F1 2.5 BPA M	F1 25.0 BPA M	F1 250.0BPA M	F1 2500.BPA M	F1 25000BPA M
Respiratory Epithelium, Accumulation, Hyaline Droplet	1 (3%)	5 (16%)	3 (10%)	4 (12%)		
Respiratory Epithelium, Hyperplasia	1 (3%)			1 (3%)		
Respiratory Epithelium, Hyperplasia, Goblet Cell	4 (12%)	2 (6%)	2 (6%)	6 (18%)	2 (6%)	2 (6%)
Respiratory Epithelium, Ulcer						
Transitional Epithelium, Accumulation, Hyaline Droplet	1 (3%)	1 (3%)				
Upper Molar, Fibrosis	1 (3%)					
Upper Molar, Foreign Body	1 (3%)					
Upper Molar, Inflammation, Suppurative						
Upper Molar, Keratin Cyst						
Upper Molar, Necrosis						
Trachea	(31)	(23)	(30)	(27)	(32)	(33)
Inflammation, Chronic Active						
Epithelium, Hyperplasia						
Peritracheal Tissue, Hemorrhage						
Peritracheal Tissue, Inflammation, Chronic Active						

SPECIAL SENSES SYSTEM

Ear	(0)	(0)	(0)	(0)	(0)	(0)
Eye	(4)	(1)	(0)	(1)	(1)	(1)
Cataract	3 (75%)	1 (100%)		1 (100%)	1 (100%)	1 (100%)
Fibrosis					1 (100%)	
Inflammation, Chronic Active						
Mineralization						1 (100%)
Retinal Detachment		1 (100%)				1 (100%)
Rupture						
Anterior Chamber, Edema						
Cornea, Bacterium						
Cornea, Edema						
Cornea, Inflammation, Suppurative						
Cornea, Inflammation, Chronic Active					1 (100%)	
Cornea, Mineralization						

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Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

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 Veh. Ctrl M	F1 2.5 BPA M	F1 25.0 BPA M	F1 250.0BPA M	F1 2500.BPA M	F1 25000BPA M
Cornea, Necrosis						
Cornea, Ulcer					1 (100%)	
Retina, Autolysis	1 (25%)					
Retina, Degeneration	3 (75%)			1 (100%)		1 (100%)
Lacrimal Gland	(0)	(0)	(0)	(0)	(0)	(0)
Zymbal's Gland	(2)	(0)	(3)	(0)	(1)	(1)
Cyst, Squamous						
Fibrosis					1 (100%)	
Inflammation, Suppurative					1 (100%)	1 (100%)
Duct, Dilatation	1 (50%)		1 (33%)		1 (100%)	1 (100%)

URINARY SYSTEM

Kidney	(50)	(48)	(48)	(50)	(50)	(45)
Accumulation, Hyaline Droplet	3 (6%)		1 (2%)	2 (4%)	2 (4%)	3 (7%)
Casts Protein	1 (2%)		1 (2%)	1 (2%)		1 (2%)
Fibrosis						
Hemorrhage						
Infarct			1 (2%)			
Infiltration Cellular, Polymorphonuclear	6 (12%)	6 (13%)	5 (10%)	8 (16%)	6 (12%)	3 (7%)
Inflammation, Chronic Active						1 (2%)
Mineralization	1 (2%)	3 (6%)	3 (6%)	5 (10%)	1 (2%)	1 (2%)
Necrosis						
Nephropathy	44 (88%)	44 (92%)	43 (90%)	45 (90%)	47 (94%)	39 (87%)
Pigmentation						
Polyarteritis			1 (2%)	1 (2%)	1 (2%)	
Polycystic Kidney					1 (2%)	1 (2%)
Thrombosis			1 (2%)			
Vacuolization Cytoplasmic						1 (2%)
Artery, Intima, Proliferation				1 (2%)		
Cortex, Cyst	20 (40%)	15 (31%)	13 (27%)	10 (20%)	15 (30%)	11 (24%)
Pelvis, Dilatation	3 (6%)		1 (2%)	1 (2%)		1 (2%)
Pelvis, Infiltration Cellular, Lymphocyte						
Pelvis, Inflammation, Chronic Active						1 (2%)
Renal Tubule, Cyst	11 (22%)	13 (27%)	15 (31%)	21 (42%)	20 (40%)	11 (24%)

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 Veh. Ctrl M	F1 2.5 BPA M	F1 25.0 BPA M	F1 250.0BPA M	F1 2500.BPA M	F1 25000BPA M
Renal Tubule, Dilatation						
Renal Tubule, Hyperplasia, Atypical Transitional Epithelium, Hyperplasia	3 (6%)	4 (8%)	12 (25%)	7 (14%)	5 (10%)	4 (9%)
Urinary Bladder	(4)	(1)	(3)	(5)	(4)	(3)
Calculus Micro Observation Only		1 (100%)				
Fibrosis				1 (20%)		
Hemorrhage				1 (20%)		
Inflammation, Chronic Active				1 (20%)		
Necrosis				1 (20%)		
Lumen, Dilatation	4 (100%)	1 (100%)	3 (100%)	4 (80%)	4 (100%)	2 (67%)

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 0.05 EE2 M	F1 0.50 EE2 M	F1 Veh. StDose M	F1 2.5 StDose M	F1 25.0 StDose M	F1 250.0StDose M
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Disposition Summary

Animals Initially In Study	26	26	50	48	48	50
Early Deaths						
Moribund Sacrifice	12	8	16	17	19	25
Natural Death	3	3	10	9	4	5
Survivors						
Moribund Sacrifice	2	2	4	3	5	4
Natural Death		1	3	3	4	3
Terminal Sacrifice	9	12	17	16	16	13
Animals Examined Microscopically	26	26	50	48	48	50

ALIMENTARY SYSTEM

Esophagus	(17)	(14)	(32)	(32)	(32)	(37)
Dilatation				1 (3%)		
Foreign Body						
Perforation						
Periesophageal Tissue, Foreign Body						
Periesophageal Tissue, Inflammation, Suppurative						
Periesophageal Tissue, Necrosis						
Intestine Large, Cecum	(0)	(0)	(1)	(1)	(1)	(0)
Dilatation			1 (100%)			
Hyperplasia, Lymphoid				1 (100%)		
Intestine Large, Colon	(15)	(11)	(21)	(26)	(24)	(33)
Dilatation			1 (5%)			
Fibrosis						1 (3%)
Hyperplasia, Goblet Cell						
Inflammation, Suppurative						
Ulcer						
Epithelium, Hyperplasia						1 (3%)
Intestine Large, Rectum	(0)	(0)	(0)	(0)	(0)	(0)
Fibrosis						
Hyperplasia, Goblet Cell						
Inflammation, Suppurative						

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

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	F1 0.50 EE2 M	F1 Veh. StDose M	F1 2.5 StDose M	F1 25.0 StDose M	F1 250.0StDose M
Intestine Small, Duodenum	(0)	(0)	(0)	(1)	(0)	(0)
Intestine Small, Ileum	(14)	(10)	(20)	(22)	(24)	(31)
Dilatation			1 (5%)			
Inflammation, Suppurative Epithelium, Hyperplasia						
Intestine Small, Jejunum	(1)	(0)	(1)	(3)	(1)	(1)
Bacterium						
Dilatation						
Diverticulum					1 (100%)	
Fibrosis						
Foreign Body						
Hyperplasia, Lymphoid	1 (100%)				1 (100%)	
Inflammation, Suppurative						
Inflammation, Chronic Active						
Metaplasia, Osseous					1 (100%)	
Mineralization						
Necrosis						
Perforation						
Ulcer						
Liver	(26)	(25)	(50)	(48)	(48)	(50)
Angiectasis	2 (8%)	2 (8%)	3 (6%)	4 (8%)	8 (17%)	5 (10%)
Bacterium						
Basophilic Focus	3 (12%)		9 (18%)	4 (8%)	5 (10%)	9 (18%)
Cholangiofibrosis						
Clear Cell Focus	7 (27%)	9 (36%)	7 (14%)	9 (19%)	11 (23%)	10 (20%)
Congestion				1 (2%)		1 (2%)
Cyst						
Deformity						
Degeneration, Cystic	10 (38%)	10 (40%)	28 (56%)	24 (50%)	25 (52%)	20 (40%)
Eosinophilic Focus				1 (2%)	1 (2%)	
Fatty Change		1 (4%)	5 (10%)	2 (4%)	7 (15%)	6 (12%)
Fibrosis				1 (2%)		
Hematopoietic Cell Proliferation	1 (4%)		1 (2%)	2 (4%)		2 (4%)
Hemorrhage			1 (2%)			2 (4%)
Hepatodiaphragmatic Nodule	3 (12%)	1 (4%)	3 (6%)	3 (6%)	1 (2%)	5 (10%)
Infiltration Cellular, Mononuclear Cell	22 (85%)	20 (80%)	34 (68%)	40 (83%)	37 (77%)	33 (66%)

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Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 0.05 EE2 M	F1 0.50 EE2 M	F1 Veh. StDose M	F1 2.5 StDose M	F1 25.0 StDose M	F1 250.0StDose M
Infiltration Cellular, Polymorphonuclear Inflammation, Chronic			1 (2%)			
Inflammation, Chronic Active				1 (2%)	1 (2%)	1 (2%)
Mixed Cell Focus	1 (4%)	1 (4%)	2 (4%)		2 (4%)	1 (2%)
Pigmentation			1 (2%)			1 (2%)
Polyarteritis				1 (2%)		
Tension Lipidosis	1 (4%)	2 (8%)	2 (4%)	2 (4%)	1 (2%)	3 (6%)
Vacuolization Cytoplasmic	11 (42%)	12 (48%)	14 (28%)	9 (19%)	17 (35%)	12 (24%)
Bile Duct, Hyperplasia	10 (38%)	8 (32%)	19 (38%)	20 (42%)	19 (40%)	12 (24%)
Biliary Tract, Cyst			2 (4%)		1 (2%)	
Biliary Tract, Cyst Multilocular		1 (4%)				1 (2%)
Biliary Tract, Fibrosis	7 (27%)	8 (32%)	24 (48%)	19 (40%)	20 (42%)	12 (24%)
Capsule, Fibrosis					1 (2%)	
Capsule, Hemorrhage			1 (2%)			
Hepatocyte, Degeneration						
Hepatocyte, Necrosis	1 (4%)		1 (2%)	2 (4%)	3 (6%)	1 (2%)
Hepatocyte, Regeneration				1 (2%)		
Oval Cell, Hyperplasia	1 (4%)	1 (4%)	3 (6%)	1 (2%)	5 (10%)	
Mesentery	(1)	(1)	(1)	(2)	(3)	(1)
Fat, Abscess						
Fat, Fibrosis						
Fat, Foreign Body						
Fat, Hemorrhage				1 (50%)		
Fat, Inflammation, Granulomatous						
Fat, Inflammation, Chronic				1 (50%)		
Fat, Necrosis	1 (100%)	1 (100%)	1 (100%)	2 (100%)	3 (100%)	
Oral Mucosa	(0)	(0)	(1)	(0)	(1)	(0)
Pancreas	(26)	(25)	(47)	(46)	(47)	(49)
Basophilic Focus	1 (4%)	1 (4%)	1 (2%)	1 (2%)	4 (9%)	2 (4%)
Cyst Multilocular						1 (2%)
Fibrosis				1 (2%)	1 (2%)	
Hemorrhage			1 (2%)		2 (4%)	
Infiltration Cellular, Lymphocyte	18 (69%)	16 (64%)	37 (79%)	35 (76%)	32 (68%)	37 (76%)
Inflammation, Chronic Active		2 (8%)			3 (6%)	1 (2%)
Lipomatosis	7 (27%)	7 (28%)	13 (28%)	9 (20%)	15 (32%)	9 (18%)
Mineralization						1 (2%)

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 0.05 EE2 M	F1 0.50 EE2 M	F1 Veh. StDose M	F1 2.5 StDose M	F1 25.0 StDose M	F1 250.0StDose M
Necrosis						
Pigmentation	8 (31%)	15 (60%)	23 (49%)	33 (72%)	20 (43%)	28 (57%)
Polyarteritis				1 (2%)	1 (2%)	2 (4%)
Thrombosis			1 (2%)		1 (2%)	
Vacuolization Cytoplasmic			1 (2%)			
Acinar Cell, Hyperplasia	1 (4%)	1 (4%)	2 (4%)	2 (4%)		
Acinus, Degeneration	20 (77%)	21 (84%)	41 (87%)	38 (83%)	34 (72%)	41 (84%)
Artery, Fibrosis			1 (2%)			
Artery, Inflammation, Chronic Active			1 (2%)			
Artery, Mineralization			1 (2%)		2 (4%)	
Artery, Pigmentation						
Duct, Dilatation	1 (4%)					
Salivary Glands	(0)	(0)	(0)	(0)	(0)	(1)
Inflammation, Chronic Active						1 (100%)
Stomach, Forestomach	(17)	(15)	(31)	(33)	(34)	(37)
Cyst Epithelial Inclusion		1 (7%)		1 (3%)	1 (3%)	
Edema					2 (6%)	1 (3%)
Fibrosis				1 (3%)		1 (3%)
Hyperplasia, Basal Cell						
Inflammation, Chronic Active	1 (6%)		2 (6%)	2 (6%)		2 (5%)
Mineralization						
Necrosis						
Perforation				1 (3%)		
Ulcer	1 (6%)		2 (6%)	1 (3%)		1 (3%)
Epithelium, Hyperplasia	2 (12%)	1 (7%)	2 (6%)	2 (6%)	4 (12%)	3 (8%)
Stomach, Glandular	(16)	(12)	(30)	(29)	(27)	(35)
Cyst			1 (3%)			
Cyst Epithelial Inclusion						
Edema						1 (3%)
Hemorrhage			1 (3%)			
Infiltration Cellular, Polymorphonuclear			1 (3%)			
Inflammation, Chronic Active		1 (8%)				1 (3%)
Mineralization	1 (6%)		7 (23%)	1 (3%)	5 (19%)	2 (6%)
Necrosis		1 (8%)				
Ulcer		1 (8%)	1 (3%)			
Epithelium, Hyperplasia			2 (7%)		2 (7%)	

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 0.05 EE2 M	F1 0.50 EE2 M	F1 Veh. StDose M	F1 2.5 StDose M	F1 25.0 StDose M	F1 250.0StDose M
Tongue	(0)	(0)	(0)	(0)	(0)	(1)
Hemorrhage						1 (100%)
Epithelium, Hyperplasia						

CARDIOVASCULAR SYSTEM

Blood Vessel	(26)	(26)	(50)	(48)	(48)	(50)
Dilatation						
Mineralization	2 (8%)		8 (16%)	2 (4%)	6 (13%)	4 (8%)
Polyarteritis						
Thrombosis						
Intima, Proliferation						1 (2%)
Media, Proliferation						
Heart	(26)	(26)	(50)	(48)	(48)	(50)
Cardiomyopathy	24 (92%)	24 (92%)	45 (90%)	44 (92%)	45 (94%)	48 (96%)
Fibrosis						
Inflammation, Chronic			1 (2%)			
Inflammation, Chronic Active						
Metaplasia, Osseous		2 (8%)	2 (4%)	2 (4%)	3 (6%)	2 (4%)
Mineralization	2 (8%)		9 (18%)	1 (2%)	6 (13%)	2 (4%)
Polyarteritis						
Thrombosis		1 (4%)		3 (6%)	2 (4%)	1 (2%)
Atrium, Dilatation						
Endocardium, Hyperplasia						
Myocardium, Necrosis						
Pericardium, Fibrosis						
Pericardium, Necrosis						
Ventricle, Dilatation						

ENDOCRINE SYSTEM

Adrenal Cortex	(26)	(26)	(47)	(47)	(48)	(49)
Accessory Adrenal Cortical Nodule		1 (4%)			1 (2%)	1 (2%)
Angiectasis				3 (6%)	1 (2%)	2 (4%)
Atrophy			1 (2%)			

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A
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Date Report Requested: 08/16/2017

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 0.05 EE2 M	F1 0.50 EE2 M	F1 Veh. StDose M	F1 2.5 StDose M	F1 25.0 StDose M	F1 250.0StDose M
Congestion				1 (2%)		
Degeneration, Cystic		1 (4%)	3 (6%)	1 (2%)	3 (6%)	3 (6%)
Hyperplasia		5 (19%)	5 (11%)	7 (15%)	6 (13%)	4 (8%)
Hypertrophy	7 (27%)	2 (8%)	2 (4%)	2 (4%)		4 (8%)
Infiltration Cellular, Lymphocyte						
Metaplasia, Osseous	1 (4%)			1 (2%)		1 (2%)
Necrosis						1 (2%)
Polyarteritis						
Vacuolization Cytoplasmic	10 (38%)	11 (42%)	21 (45%)	20 (43%)	19 (40%)	18 (37%)
Adrenal Medulla	(26)	(26)	(47)	(46)	(48)	(49)
Angiectasis						
Cyst				1 (2%)		
Degeneration, Cystic						
Hemorrhage			1 (2%)			
Hyperplasia	5 (19%)	6 (23%)	8 (17%)	9 (20%)	10 (21%)	7 (14%)
Necrosis						1 (2%)
Islets, Pancreatic	(26)	(26)	(48)	(47)	(48)	(48)
Hemorrhage				1 (2%)		
Hyperplasia	1 (4%)		2 (4%)			
Parathyroid Gland	(25)	(25)	(49)	(46)	(46)	(49)
Hyperplasia	7 (28%)	11 (44%)	22 (45%)	17 (37%)	27 (59%)	23 (47%)
Inflammation, Chronic Active			1 (2%)			
Necrosis			1 (2%)			
Pituitary Gland	(26)	(26)	(46)	(48)	(48)	(49)
Angiectasis	7 (27%)	3 (12%)	14 (30%)	6 (13%)	7 (15%)	9 (18%)
Atrophy						
Fibrosis						
Hemorrhage	1 (4%)		1 (2%)		1 (2%)	1 (2%)
Inflammation, Chronic		1 (4%)				
Mineralization				1 (2%)		
Necrosis			1 (2%)			
Pigmentation						
Thrombosis		1 (4%)				
Pars Distalis, Cyst	2 (8%)	4 (15%)	4 (9%)	6 (13%)	5 (10%)	10 (20%)
Pars Distalis, Cyst Multilocular			2 (4%)	2 (4%)	3 (6%)	
Pars Distalis, Degeneration						1 (2%)

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Experiment Number: 10034 - 04

Test Type: CHRONIC

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Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

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 0.05 EE2 M	F1 0.50 EE2 M	F1 Veh. StDose M	F1 2.5 StDose M	F1 25.0 StDose M	F1 250.0StDose M
Pars Distalis, Hyperplasia	10 (38%)	13 (50%)	12 (26%)	16 (33%)	18 (38%)	15 (31%)
Pars Distalis, Hypertrophy	2 (8%)	2 (8%)	1 (2%)	2 (4%)	3 (6%)	3 (6%)
Pars Distalis, Vacuolization Cytoplasmic						
Pars Intermedia, Cyst			2 (4%)	3 (6%)	1 (2%)	1 (2%)
Pars Intermedia, Hyperplasia		1 (4%)				
Rathke's Cleft, Cyst	1 (4%)					
Thyroid Gland	(25)	(25)	(43)	(45)	(44)	(45)
Inflammation, Chronic Active						
Polyarteritis						
Ultimobranchial Cyst	1 (4%)	3 (12%)	3 (7%)	5 (11%)	5 (11%)	2 (4%)
C-cell, Hyperplasia	12 (48%)	7 (28%)	12 (28%)	18 (40%)	11 (25%)	19 (42%)
Follicle, Cyst	1 (4%)				3 (7%)	3 (7%)
Follicular Cell, Hyperplasia	2 (8%)	3 (12%)	6 (14%)	6 (13%)	9 (20%)	10 (22%)

GENERAL BODY SYSTEM

Peritoneum	(0)	(0)	(0)	(0)	(0)	(0)
Tissue NOS	(0)	(1)	(0)	(1)	(0)	(1)
Cyst						
Hemorrhage		1 (100%)				
Mineralization						
Thrombosis		1 (100%)				

GENITAL SYSTEM

Bulbourethral Gland	(0)	(0)	(0)	(1)	(0)	(0)
Dilatation				1 (100%)		
Coagulating Gland	(26)	(25)	(45)	(45)	(44)	(50)
Atrophy		1 (4%)	1 (2%)	1 (2%)	4 (9%)	1 (2%)
Cyst, Mucinous				1 (2%)		
Degeneration, Cystic						
Edema						
Fibrosis	1 (4%)			1 (2%)		1 (2%)
Infiltration Cellular, Lymphocyte						
Inflammation, Suppurative			1 (2%)			

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Sprague Dawley (NCTR) RATS MALE	F1 0.05 EE2 M	F1 0.50 EE2 M	F1 Veh. StDose M	F1 2.5 StDose M	F1 25.0 StDose M	F1 250.0StDose M
Inflammation, Chronic				1 (2%)		
Inflammation, Chronic Active	1 (4%)		1 (2%)			1 (2%)
Necrosis			1 (2%)			
Epithelium, Hyperplasia						1 (2%)
Lumen, Dilatation	1 (4%)		1 (2%)			
Ductus Deferens	(0)	(1)	(0)	(0)	(0)	(0)
Granuloma Sperm		1 (100%)				
Epididymis	(26)	(26)	(49)	(48)	(48)	(50)
Atrophy					1 (2%)	
Exfoliated Germ Cell	6 (23%)	4 (15%)	12 (24%)	15 (31%)	11 (23%)	13 (26%)
Fibrosis				1 (2%)		1 (2%)
Granuloma Sperm						
Hypoplasia						
Hypospermia	5 (19%)	10 (38%)	14 (29%)	10 (21%)	15 (31%)	7 (14%)
Infiltration Cellular, Lymphocyte	5 (19%)	10 (38%)	14 (29%)	16 (33%)	16 (33%)	14 (28%)
Inflammation, Suppurative				1 (2%)		
Inflammation, Chronic						
Inflammation, Chronic Active						
Polyarteritis			2 (4%)	1 (2%)	3 (6%)	4 (8%)
Spermatocele					1 (2%)	
Epithelium, Degeneration				1 (2%)		
Epithelium, Hyperplasia				1 (2%)		
Mesothelium, Hyperplasia				1 (2%)		
Fat Pad, Epididymal	(0)	(0)	(0)	(0)	(0)	(4)
Inflammation, Chronic Active						1 (25%)
Mineralization						1 (25%)
Necrosis						4 (100%)
Preputial Gland	(4)	(6)	(14)	(16)	(17)	(19)
Abscess	1 (25%)	1 (17%)			1 (6%)	
Atrophy			2 (14%)		1 (6%)	3 (16%)
Cyst			1 (7%)			
Fibrosis		1 (17%)				
Hyperkeratosis	1 (25%)	1 (17%)	3 (21%)	3 (19%)	3 (18%)	5 (26%)
Infiltration Cellular, Lymphocyte						
Inflammation, Suppurative	2 (50%)	5 (83%)	9 (64%)	13 (81%)	14 (82%)	13 (68%)
Inflammation, Granulomatous			1 (7%)			

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

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Date Report Requested: 08/16/2017

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 0.05 EE2 M	F1 0.50 EE2 M	F1 Veh. StDose M	F1 2.5 StDose M	F1 25.0 StDose M	F1 250.0StDose M
Inflammation, Chronic Active Necrosis						1 (5%)
Duct, Dilatation Epithelium, Hyperplasia	3 (75%)	6 (100%)	11 (79%)	15 (94%)	13 (76%)	15 (79%)
Prostate, Dorsal/lateral Lobe	(26)	(25)	(46)	(48)	(48)	(50)
Atrophy					1 (2%)	
Cyst					1 (2%)	
Cyst, Mucinous	1 (4%)	1 (4%)	6 (13%)	2 (4%)	6 (13%)	5 (10%)
Edema						
Fibrosis	2 (8%)	2 (8%)	15 (33%)	8 (17%)	11 (23%)	8 (16%)
Hemorrhage			1 (2%)			
Infiltration Cellular, Lymphocyte	17 (65%)	13 (52%)	31 (67%)	30 (63%)	28 (58%)	27 (54%)
Inflammation, Suppurative	26 (100%)	22 (88%)	39 (85%)	46 (96%)	41 (85%)	42 (84%)
Inflammation, Chronic Active			1 (2%)			
Mineralization			1 (2%)			1 (2%)
Polyarteritis			1 (2%)			
Epithelium, Hyperplasia						
Muscularis, Necrosis						
Muscularis, Regeneration						
Prostate, Ventral Lobe	(26)	(26)	(48)	(47)	(47)	(50)
Atrophy	2 (8%)		2 (4%)	3 (6%)	4 (9%)	1 (2%)
Edema						
Fibrosis	2 (8%)	6 (23%)	17 (35%)	10 (21%)	12 (26%)	10 (20%)
Hemorrhage			1 (2%)			
Infiltration Cellular, Lymphocyte	6 (23%)	14 (54%)	19 (40%)	17 (36%)	15 (32%)	16 (32%)
Inflammation, Suppurative	4 (15%)	8 (31%)	10 (21%)	9 (19%)	9 (19%)	8 (16%)
Inflammation, Chronic Active	1 (4%)	1 (4%)	1 (2%)	1 (2%)		
Mineralization	1 (4%)	3 (12%)	3 (6%)	2 (4%)		2 (4%)
Necrosis			1 (2%)			
Polyarteritis				1 (2%)		1 (2%)
Epithelium, Hyperplasia	4 (15%)	7 (27%)	17 (35%)	7 (15%)	17 (36%)	16 (32%)
Seminal Vesicle	(25)	(23)	(39)	(43)	(41)	(47)
Atrophy	1 (4%)	1 (4%)	5 (13%)	6 (14%)	4 (10%)	5 (11%)
Concretion			1 (3%)			
Edema	1 (4%)					
Fibrosis						2 (4%)

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Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 0.05 EE2 M	F1 0.50 EE2 M	F1 Veh. StDose M	F1 2.5 StDose M	F1 25.0 StDose M	F1 250.0StDose M
Infiltration Cellular, Lymphocyte Inflammation, Suppurative Inflammation, Chronic Inflammation, Chronic Active Necrosis Polyarteritis						1 (2%)
Epithelium, Hyperplasia Lumen, Dilatation		2 (9%) 1 (4%)	5 (13%) 6 (15%)	1 (2%) 4 (9%)	4 (10%) 2 (5%)	4 (9%) 3 (6%)
Testes	2 (8%) (26)	1 (4%) (26)	6 (15%) (49)	4 (9%) (48)	2 (5%) (48)	3 (6%) (50)
Abscess Aspermia Edema Fibrosis Granuloma						1 (2%) 1 (2%)
Polyarteritis Seminiferous Tubule, Degeneration Seminiferous Tubule, Dilatation	6 (23%) 17 (65%)	5 (19%) 21 (81%)	18 (37%) 34 (69%)	11 (23%) 33 (69%)	15 (31%) 41 (85%)	14 (28%) 36 (72%) 1 (2%)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(26)	(25)	(47)	(47)	(46)	(50)
Hypocellularity Necrosis		1 (4%)		3 (6%)	2 (4%)	4 (8%)
Myeloid Cell, Hyperplasia	3 (12%)	2 (8%)	4 (9%)	4 (9%)	3 (7%)	4 (8%)
Lymph Node	(7)	(6)	(16)	(17)	(15)	(15)
Axillary, Degeneration, Cystic Axillary, Hyperplasia, Lymphoid Axillary, Infiltration Cellular, Plasma Cell			2 (13%) 2 (13%)	1 (6%)	1 (7%) 2 (13%)	
Brachial, Degeneration, Cystic Brachial, Hyperplasia, Lymphoid Brachial, Infiltration Cellular, Plasma Cell Cervical, Hyperplasia, Lymphoid Cervical, Infiltration Cellular, Plasma Cell Iliac, Degeneration, Cystic Iliac, Hyperplasia, Lymphoid						1 (7%)

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 0.05 EE2 M	F1 0.50 EE2 M	F1 Veh. StDose M	F1 2.5 StDose M	F1 25.0 StDose M	F1 250.0StDose M
Iliac, Infiltration Cellular, Plasma Cell						1 (7%)
Inguinal, Hyperplasia, Lymphoid				1 (6%)		1 (7%)
Inguinal, Infiltration Cellular, Plasma Cell				1 (6%)		1 (7%)
Lumbar, Degeneration, Cystic	2 (29%)	3 (50%)	3 (19%)	7 (41%)	4 (27%)	3 (20%)
Lumbar, Hemorrhage					1 (7%)	
Lumbar, Hyperplasia, Lymphoid		1 (17%)	4 (25%)	3 (18%)	1 (7%)	2 (13%)
Lumbar, Infiltration Cellular, Plasma Cell	2 (29%)	1 (17%)	2 (13%)	5 (29%)	3 (20%)	3 (20%)
Lumbar, Infiltration Cellular, Polymorphonuclear					1 (7%)	
Lumbar, Inflammation, Suppurative						
Lumbar, Necrosis						
Mediastinal, Degeneration, Cystic	1 (14%)			1 (6%)	2 (13%)	1 (7%)
Mediastinal, Hemorrhage	1 (14%)			1 (6%)	3 (20%)	3 (20%)
Mediastinal, Hyperplasia, Lymphoid	1 (14%)			1 (6%)	1 (7%)	
Mediastinal, Infiltration Cellular, Histiocyte					1 (7%)	
Mediastinal, Infiltration Cellular, Mast Cell				1 (6%)		1 (7%)
Mediastinal, Infiltration Cellular, Plasma Cell	1 (14%)					1 (7%)
Mediastinal, Infiltration Cellular, Polymorphonuclear				1 (6%)		
Mediastinal, Inflammation, Suppurative						
Pancreatic, Degeneration, Cystic						
Pancreatic, Hyperplasia, Lymphoid						
Pancreatic, Infiltration Cellular, Histiocyte						
Pancreatic, Infiltration Cellular, Plasma Cell					1 (7%)	1 (7%)
Pancreatic, Pigmentation						
Popliteal, Hyperplasia, Lymphoid						
Popliteal, Infiltration Cellular, Plasma Cell						1 (7%)
Renal, Degeneration, Cystic	2 (29%)	3 (50%)	8 (50%)	9 (53%)	5 (33%)	6 (40%)
Renal, Hemorrhage	1 (14%)	1 (17%)	1 (6%)		6 (40%)	3 (20%)
Renal, Hyperplasia, Lymphoid			3 (19%)	2 (12%)		
Renal, Infiltration Cellular, Plasma Cell	3 (43%)		3 (19%)	1 (6%)	1 (7%)	1 (7%)
Renal, Pigmentation					1 (7%)	
Lymph Node, Mandibular Congestion	(6)	(7)	(8)	(8)	(14)	(9)
Degeneration, Cystic	1 (17%)	3 (43%)	2 (25%)	5 (63%)	8 (57%)	3 (33%)
Hyperplasia, Lymphoid	3 (50%)	5 (71%)	4 (50%)	5 (63%)	8 (57%)	5 (56%)

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A
CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 0.05 EE2 M	F1 0.50 EE2 M	F1 Veh. StDose M	F1 2.5 StDose M	F1 25.0 StDose M	F1 250.0StDose M
Infiltration Cellular, Lymphocyte						
Infiltration Cellular, Plasma Cell	4 (67%)	6 (86%)	6 (75%)	7 (88%)	10 (71%)	5 (56%)
Lymph Node, Mesenteric	(0)	(1)	(1)	(2)	(1)	(2)
Degeneration, Cystic				1 (50%)		
Fibrosis				1 (50%)		
Hemorrhage						1 (50%)
Hyperplasia, Lymphoid						1 (50%)
Infiltration Cellular, Polymorphonuclear				1 (50%)		
Pigmentation						
Spleen	(26)	(25)	(47)	(47)	(47)	(49)
Congestion						1 (2%)
Depletion Lymphoid						
Fibrosis				1 (2%)		
Hematopoietic Cell Proliferation	6 (23%)	7 (28%)	16 (34%)	17 (36%)	9 (19%)	13 (27%)
Hemorrhage			1 (2%)			
Hyperplasia, Lymphoid		1 (4%)	1 (2%)	2 (4%)	3 (6%)	6 (12%)
Mineralization						
Necrosis	1 (4%)		2 (4%)	1 (2%)		
Pigmentation	16 (62%)	16 (64%)	26 (55%)	25 (53%)	27 (57%)	21 (43%)
Polyarteritis			1 (2%)	1 (2%)		1 (2%)
Vacuolization Cytoplasmic		1 (4%)				
Capsule, Fibrosis					1 (2%)	
Thymus	(24)	(25)	(48)	(48)	(46)	(47)
Atrophy	22 (92%)	24 (96%)	47 (98%)	45 (94%)	44 (96%)	43 (91%)
Cyst				1 (2%)		
Fibrosis						
Hemorrhage						
Polyarteritis						1 (2%)
Epithelial Cell, Hyperplasia						
INTEGUMENTARY SYSTEM						
Mammary Gland	(25)	(25)	(49)	(48)	(47)	(50)
Atypical Focus			1 (2%)			
Fibrosis					1 (2%)	

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 0.05 EE2 M	F1 0.50 EE2 M	F1 Veh. StDose M	F1 2.5 StDose M	F1 25.0 StDose M	F1 250.0StDose M
Galactocele		1 (4%)	3 (6%)	1 (2%)	5 (11%)	1 (2%)
Hyperplasia, Lobular	2 (8%)					1 (2%)
Inflammation, Granulomatous		1 (4%)				
Mineralization			1 (2%)		1 (2%)	
Polyarteritis						1 (2%)
Alveolus, Degeneration	14 (56%)	17 (68%)	28 (57%)	25 (52%)	22 (47%)	31 (62%)
Alveolus, Dilatation	4 (16%)	1 (4%)	15 (31%)	7 (15%)	6 (13%)	7 (14%)
Duct, Dilatation	6 (24%)	2 (8%)	15 (31%)	9 (19%)	10 (21%)	10 (20%)
Skin	(6)	(7)	(21)	(18)	(24)	(15)
Abscess				1 (6%)		
Angiectasis						
Cyst, Squamous						
Cyst Epithelial Inclusion	3 (50%)	2 (29%)	6 (29%)	3 (17%)	10 (42%)	4 (27%)
Edema						
Fibrosis				1 (6%)	1 (4%)	1 (7%)
Foreign Body						1 (7%)
Hemorrhage						
Hyperkeratosis			2 (10%)			
Inflammation, Suppurative			2 (10%)	1 (6%)	2 (8%)	1 (7%)
Inflammation, Granulomatous	1 (17%)				1 (4%)	1 (7%)
Inflammation, Chronic Active			1 (5%)	1 (6%)	1 (4%)	
Necrosis				2 (11%)		1 (7%)
Ulcer				2 (11%)	2 (8%)	1 (7%)
Epithelium, Hyperplasia			4 (19%)	1 (6%)	2 (8%)	
Epithelium, Foot, Hyperplasia	3 (50%)	1 (14%)	3 (14%)	6 (33%)	2 (8%)	3 (20%)
Foot, Edema	4 (67%)		3 (14%)	4 (22%)	1 (4%)	
Foot, Fibrosis	4 (67%)	2 (29%)	3 (14%)	5 (28%)	2 (8%)	3 (20%)
Foot, Hemorrhage						
Foot, Inflammation, Chronic Active	4 (67%)	2 (29%)	3 (14%)	6 (33%)	2 (8%)	3 (20%)
Foot, Necrosis	4 (67%)	1 (14%)	3 (14%)	4 (22%)	1 (4%)	2 (13%)
Foot, Ulcer	4 (67%)	1 (14%)	3 (14%)	4 (22%)	2 (8%)	3 (20%)
Sebaceous Gland, Hyperplasia			1 (5%)			

MUSCULOSKELETAL SYSTEM

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 0.05 EE2 M	F1 0.50 EE2 M	F1 Veh. StDose M	F1 2.5 StDose M	F1 25.0 StDose M	F1 250.0StDose M
Bone	(1)	(1)	(3)	(0)	(1)	(1)
Humerus, Abscess			1 (33%)			
Humerus, Osteopetrosis			1 (33%)			
Joint, Fibrosis						
Joint, Hyperostosis						
Joint, Inflammation, Chronic Active						
Mandible, Osteopetrosis			1 (33%)			
Metatarsal, Hyperostosis						1 (100%)
Rib, Hyperostosis						
Tarsal, Hyperostosis		1 (100%)				
Tibia, Hyperostosis						
Vertebra, Fibrous Osteodystrophy					1 (100%)	
Bone, Femur	(26)	(26)	(50)	(48)	(48)	(50)
Fibrous Osteodystrophy	1 (4%)		4 (8%)	1 (2%)	3 (6%)	1 (2%)
Osteopetrosis			2 (4%)		1 (2%)	
Skeletal Muscle	(2)	(0)	(1)	(1)	(1)	(2)
Degeneration						
Fibrosis						
Hemorrhage						
Inflammation, Chronic Active						
Necrosis						

NERVOUS SYSTEM

Brain, Brain Stem	(26)	(26)	(50)	(48)	(47)	(50)
Compression	6 (23%)	4 (15%)	11 (22%)	10 (21%)	10 (21%)	10 (20%)
Cyst						
Gliosis		1 (4%)				1 (2%)
Hemorrhage			1 (2%)	1 (2%)	1 (2%)	1 (2%)
Necrosis		1 (4%)				
Pigmentation						
Thrombosis						
Vacuolization Cytoplasmic						1 (2%)
Brain, Cerebellum	(26)	(26)	(49)	(48)	(48)	(50)
Compression						

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A
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Date Report Requested: 08/16/2017

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 0.05 EE2 M	F1 0.50 EE2 M	F1 Veh. StDose M	F1 2.5 StDose M	F1 25.0 StDose M	F1 250.0StDose M
Gliosis						
Hemorrhage	1 (4%)				1 (2%)	
Necrosis					1 (2%)	
Polyarteritis						
Brain, Cerebrum	(26)	(26)	(49)	(48)	(48)	(50)
Compression						
Gliosis					1 (2%)	1 (2%)
Hemorrhage	1 (4%)				2 (4%)	
Mineralization						
Necrosis					1 (2%)	1 (2%)
Pigmentation						
Polyarteritis						
Thrombosis						
Ventricle, Dilatation	2 (8%)	4 (15%)	7 (14%)	7 (15%)	6 (13%)	4 (8%)
Nerve Trigeminal	(4)	(3)	(2)	(0)	(2)	(6)
Axon, Degeneration	2 (50%)	3 (100%)	1 (50%)		1 (50%)	2 (33%)
Peripheral Nerve, Sciatic	(4)	(3)	(2)	(0)	(2)	(6)
Axon, Degeneration						
Peripheral Nerve, Tibial	(4)	(3)	(2)	(0)	(2)	(6)
Axon, Degeneration						
Spinal Cord, Cervical	(4)	(3)	(2)	(0)	(2)	(6)
Hemorrhage						
Axon, Degeneration						
Spinal Cord, Lumbar	(4)	(3)	(2)	(0)	(2)	(6)
Axon, Degeneration	3 (75%)	2 (67%)	2 (100%)		1 (50%)	5 (83%)
Spinal Cord, Thoracic	(4)	(3)	(2)	(0)	(2)	(6)
Hemorrhage						
Axon, Degeneration						1 (17%)

RESPIRATORY SYSTEM

Lung	(19)	(13)	(36)	(33)	(39)	(40)
Abscess	1 (5%)					
Congestion	1 (5%)	1 (8%)	1 (3%)			1 (3%)
Fibrosis				1 (3%)		

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 0.05 EE2 M	F1 0.50 EE2 M	F1 Veh. StDose M	F1 2.5 StDose M	F1 25.0 StDose M	F1 250.0StDose M
Foreign Body	2 (11%)		1 (3%)	6 (18%)	1 (3%)	2 (5%)
Hemorrhage	1 (5%)			1 (3%)		1 (3%)
Infiltration Cellular, Histiocyte	4 (21%)	7 (54%)	10 (28%)	9 (27%)	13 (33%)	14 (35%)
Infiltration Cellular, Lymphocyte					1 (3%)	
Inflammation, Suppurative					1 (3%)	
Inflammation, Granulomatous	1 (5%)		1 (3%)	6 (18%)	1 (3%)	1 (3%)
Inflammation, Chronic	1 (5%)			2 (6%)		
Inflammation, Chronic Active	2 (11%)			1 (3%)	2 (5%)	2 (5%)
Metaplasia, Osseous				2 (6%)	2 (5%)	1 (3%)
Mineralization			1 (3%)			1 (3%)
Necrosis						
Thrombosis	1 (5%)					
Alveolar Epithelium, Hyperplasia		2 (15%)	1 (3%)	3 (9%)	6 (15%)	1 (3%)
Bronchiole, Epithelium, Hyperplasia					1 (3%)	
Goblet Cell, Metaplasia						
Pleura, Fibrosis	1 (5%)					
Pleura, Foreign Body						
Pleura, Inflammation, Suppurative						
Pleura, Necrosis						
Subpleura, Cyst					1 (3%)	
Nose	(17)	(12)	(30)	(32)	(31)	(37)
Autolysis	1 (6%)	1 (8%)	2 (7%)	1 (3%)		5 (14%)
Cyst Epithelial Inclusion				1 (3%)		
Exudate						
Fibrosis						
Fibrous Osteodystrophy	1 (6%)		3 (10%)	1 (3%)	3 (10%)	1 (3%)
Foreign Body			1 (3%)	1 (3%)	1 (3%)	1 (3%)
Hemorrhage	1 (6%)					
Inflammation, Suppurative		1 (8%)	1 (3%)	3 (9%)	4 (13%)	2 (5%)
Inflammation, Chronic Active				2 (6%)		1 (3%)
Osteopetrosis			1 (3%)			
Epithelium, Upper Molar, Hyperplasia				1 (3%)		
Olfactory Epithelium, Accumulation, Hyaline Droplet	3 (18%)	6 (50%)	7 (23%)	18 (56%)	18 (58%)	15 (41%)
Olfactory Epithelium, Hyperplasia						
Posterior To Upper Incisor, Malformation					1 (3%)	1 (3%)

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 0.05 EE2 M	F1 0.50 EE2 M	F1 Veh. StDose M	F1 2.5 StDose M	F1 25.0 StDose M	F1 250.0StDose M
Respiratory Epithelium, Accumulation, Hyaline Droplet	3 (18%)	3 (25%)	5 (17%)	8 (25%)	11 (35%)	5 (14%)
Respiratory Epithelium, Hyperplasia		1 (8%)				
Respiratory Epithelium, Hyperplasia, Goblet Cell			1 (3%)	4 (13%)	2 (6%)	5 (14%)
Respiratory Epithelium, Ulcer						
Transitional Epithelium, Accumulation, Hyaline Droplet	1 (6%)			2 (6%)	1 (3%)	1 (3%)
Upper Molar, Fibrosis						
Upper Molar, Foreign Body						
Upper Molar, Inflammation, Suppurative	1 (6%)			1 (3%)	1 (3%)	
Upper Molar, Keratin Cyst			1 (3%)		1 (3%)	
Upper Molar, Necrosis					1 (3%)	
Trachea	(17)	(12)	(27)	(26)	(27)	(32)
Inflammation, Chronic Active Epithelium, Hyperplasia					1 (4%)	1 (4%)
Peritracheal Tissue, Hemorrhage	1 (6%)					
Peritracheal Tissue, Inflammation, Chronic Active	1 (6%)					

SPECIAL SENSES SYSTEM

Ear	(1)	(0)	(0)	(0)	(0)	(1)
Eye	(3)	(2)	(2)	(1)	(2)	(1)
Cataract			1 (50%)	1 (100%)	1 (50%)	1 (100%)
Fibrosis					1 (50%)	
Inflammation, Chronic Active					1 (50%)	
Mineralization						
Retinal Detachment	1 (33%)					
Rupture		1 (50%)				
Anterior Chamber, Edema	1 (33%)					
Cornea, Bacterium	1 (33%)					
Cornea, Edema	1 (33%)					
Cornea, Inflammation, Suppurative	1 (33%)				1 (50%)	
Cornea, Inflammation, Chronic Active	1 (33%)		2 (100%)			
Cornea, Mineralization			1 (50%)			

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

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 0.05 EE2 M	F1 0.50 EE2 M	F1 Veh. StDose M	F1 2.5 StDose M	F1 25.0 StDose M	F1 250.0StDose M
Cornea, Necrosis					1 (50%)	
Cornea, Ulcer	1 (33%)				2 (100%)	
Retina, Autolysis						
Retina, Degeneration	2 (67%)		2 (100%)	1 (100%)		
Lacrimal Gland	(0)	(0)	(0)	(1)	(0)	(0)
Zymbal's Gland	(1)	(1)	(0)	(2)	(1)	(1)
Cyst, Squamous						
Fibrosis				1 (50%)		
Inflammation, Suppurative				1 (50%)		
Duct, Dilatation				1 (50%)		
URINARY SYSTEM						
Kidney	(26)	(26)	(50)	(48)	(48)	(50)
Accumulation, Hyaline Droplet	1 (4%)			2 (4%)	1 (2%)	2 (4%)
Casts Protein	1 (4%)					1 (2%)
Fibrosis			1 (2%)			
Hemorrhage	1 (4%)			2 (4%)	1 (2%)	1 (2%)
Infarct			1 (2%)			
Infiltration Cellular, Polymorphonuclear	2 (8%)	5 (19%)	8 (16%)	5 (10%)	9 (19%)	8 (16%)
Inflammation, Chronic Active						
Mineralization	1 (4%)	1 (4%)	10 (20%)	2 (4%)	3 (6%)	2 (4%)
Necrosis				2 (4%)	1 (2%)	
Nephropathy	21 (81%)	23 (88%)	48 (96%)	45 (94%)	45 (94%)	48 (96%)
Pigmentation						
Polyarteritis					1 (2%)	2 (4%)
Polycystic Kidney	1 (4%)		1 (2%)	1 (2%)		1 (2%)
Thrombosis					1 (2%)	1 (2%)
Vacuolization Cytoplasmic						
Artery, Intima, Proliferation						
Cortex, Cyst	11 (42%)	8 (31%)	8 (16%)	14 (29%)	12 (25%)	12 (24%)
Pelvis, Dilatation			3 (6%)	1 (2%)	1 (2%)	2 (4%)
Pelvis, Infiltration Cellular, Lymphocyte						
Pelvis, Inflammation, Chronic Active						1 (2%)
Renal Tubule, Cyst	14 (54%)	10 (38%)	18 (36%)	12 (25%)	20 (42%)	21 (42%)

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 0.05 EE2 M	F1 0.50 EE2 M	F1 Veh. StDose M	F1 2.5 StDose M	F1 25.0 StDose M	F1 250.0StDose M
Renal Tubule, Dilatation						
Renal Tubule, Hyperplasia, Atypical				1 (2%)	1 (2%)	1 (2%)
Transitional Epithelium, Hyperplasia	2 (8%)	1 (4%)	12 (24%)	9 (19%)	12 (25%)	12 (24%)
Urinary Bladder	(1)	(0)	(6)	(1)	(4)	(4)
Calculus Micro Observation Only						
Fibrosis						
Hemorrhage			2 (33%)			
Inflammation, Chronic Active						
Necrosis						
Lumen, Dilatation	1 (100%)		6 (100%)	1 (100%)	4 (100%)	4 (100%)

a - Number of animals examined microscopically at site and number of animals with lesion

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

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
 Bisphenol A
 CAS Number: 80-05-7

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

Sprague Dawley (NCTR) RATS MALE	F1 2500.StDose M	F1 25000StDose M
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Disposition Summary

Animals Initially In Study	50	46
Early Deaths		
Moribund Sacrifice	17	26
Natural Death	7	6
Survivors		
Moribund Sacrifice	10	3
Natural Death	1	2
Terminal Sacrifice	15	9
Animals Examined Microscopically	50	46

ALIMENTARY SYSTEM

Esophagus	(35)	(36)
Dilatation		
Foreign Body		
Perforation		
Periesophageal Tissue, Foreign Body		
Periesophageal Tissue, Inflammation, Suppurative		
Periesophageal Tissue, Necrosis		
Intestine Large, Cecum	(1)	(0)
Dilatation		
Hyperplasia, Lymphoid		
Intestine Large, Colon	(29)	(31)
Dilatation		
Fibrosis		
Hyperplasia, Goblet Cell		
Inflammation, Suppurative		
Ulcer		
Epithelium, Hyperplasia		
Intestine Large, Rectum	(0)	(0)
Fibrosis		
Hyperplasia, Goblet Cell		
Inflammation, Suppurative		

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 2500.StDose M	F1 25000StDose M
Intestine Small, Duodenum	(0)	(1)
Intestine Small, Ileum	(26)	(30)
Dilatation		
Inflammation, Suppurative		
Epithelium, Hyperplasia		
Intestine Small, Jejunum	(0)	(2)
Bacterium		1 (50%)
Dilatation		
Diverticulum		
Fibrosis		1 (50%)
Foreign Body		1 (50%)
Hyperplasia, Lymphoid		
Inflammation, Suppurative		1 (50%)
Inflammation, Chronic Active		1 (50%)
Metaplasia, Osseous		
Mineralization		1 (50%)
Necrosis		1 (50%)
Perforation		1 (50%)
Ulcer		1 (50%)
Liver	(50)	(46)
Angiectasis	4 (8%)	3 (7%)
Bacterium		
Basophilic Focus	11 (22%)	5 (11%)
Cholangiofibrosis		1 (2%)
Clear Cell Focus	10 (20%)	7 (15%)
Congestion		
Cyst	1 (2%)	1 (2%)
Deformity		1 (2%)
Degeneration, Cystic	30 (60%)	18 (39%)
Eosinophilic Focus		
Fatty Change	1 (2%)	1 (2%)
Fibrosis		
Hematopoietic Cell Proliferation	3 (6%)	
Hemorrhage		2 (4%)
Hepatodiaphragmatic Nodule	4 (8%)	5 (11%)
Infiltration Cellular, Mononuclear Cell	33 (66%)	29 (63%)

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 2500.StDose M	F1 25000StDose M
Infiltration Cellular, Polymorphonuclear		1 (2%)
Inflammation, Chronic	1 (2%)	
Inflammation, Chronic Active		1 (2%)
Mixed Cell Focus		
Pigmentation		
Polyarteritis	1 (2%)	1 (2%)
Tension Lipidosis	2 (4%)	
Vacuolization Cytoplasmic	12 (24%)	13 (28%)
Bile Duct, Hyperplasia	20 (40%)	13 (28%)
Biliary Tract, Cyst	2 (4%)	
Biliary Tract, Cyst Multilocular		1 (2%)
Biliary Tract, Fibrosis	17 (34%)	18 (39%)
Capsule, Fibrosis		
Capsule, Hemorrhage		
Hepatocyte, Degeneration		
Hepatocyte, Necrosis	2 (4%)	2 (4%)
Hepatocyte, Regeneration		
Oval Cell, Hyperplasia	1 (2%)	3 (7%)
Mesentery	(1)	(2)
Fat, Abscess		1 (50%)
Fat, Fibrosis		
Fat, Foreign Body		1 (50%)
Fat, Hemorrhage		
Fat, Inflammation, Granulomatous		1 (50%)
Fat, Inflammation, Chronic		
Fat, Necrosis	1 (100%)	2 (100%)
Oral Mucosa	(1)	(0)
Pancreas	(50)	(44)
Basophilic Focus		1 (2%)
Cyst Multilocular	1 (2%)	
Fibrosis		
Hemorrhage		
Infiltration Cellular, Lymphocyte	40 (80%)	32 (73%)
Inflammation, Chronic Active		2 (5%)
Lipomatosis	10 (20%)	13 (30%)
Mineralization		

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Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 2500.StDose M	F1 25000StDose M
Necrosis		
Pigmentation	23 (46%)	21 (48%)
Polyarteritis	5 (10%)	2 (5%)
Thrombosis	1 (2%)	
Vacuolization Cytoplasmic Acinar Cell, Hyperplasia		1 (2%)
Acinus, Degeneration	41 (82%)	34 (77%)
Artery, Fibrosis		
Artery, Inflammation, Chronic Active		
Artery, Mineralization	1 (2%)	1 (2%)
Artery, Pigmentation		
Duct, Dilatation		
Salivary Glands	(0)	(0)
Inflammation, Chronic Active		
Stomach, Forestomach	(34)	(37)
Cyst Epithelial Inclusion		
Edema		
Fibrosis		
Hyperplasia, Basal Cell		
Inflammation, Chronic Active	1 (3%)	2 (5%)
Mineralization		
Necrosis		1 (3%)
Perforation		
Ulcer		1 (3%)
Epithelium, Hyperplasia	1 (3%)	2 (5%)
Stomach, Glandular	(33)	(36)
Cyst		
Cyst Epithelial Inclusion		
Edema		
Hemorrhage		
Infiltration Cellular, Polymorphonuclear		
Inflammation, Chronic Active		
Mineralization	7 (21%)	2 (6%)
Necrosis		
Ulcer		
Epithelium, Hyperplasia	3 (9%)	1 (3%)

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Experiment Number: 10034 - 04

Test Type: CHRONIC

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Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

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Lab: NCTR

Sprague Dawley (NCTR)
RATS MALE

F1 2500.StDose M

F1 25000StDose M

Tongue
Hemorrhage
Epithelium, Hyperplasia

(0)

(0)

CARDIOVASCULAR SYSTEM

Blood Vessel
Dilatation
Mineralization
Polyarteritis
Thrombosis
Intima, Proliferation
Media, Proliferation
Heart
Cardiomyopathy
Fibrosis
Inflammation, Chronic
Inflammation, Chronic Active
Metaplasia, Osseous
Mineralization
Polyarteritis
Thrombosis
Atrium, Dilatation
Endocardium, Hyperplasia
Myocardium, Necrosis
Pericardium, Fibrosis
Pericardium, Necrosis
Ventricle, Dilatation

(50)

(46)

7 (14%)

4 (9%)

(50)

(46)

47 (94%)

41 (89%)

3 (6%)

2 (4%)

7 (14%)

4 (9%)

1 (2%)

2 (4%)

1 (2%)

1 (2%)

1 (2%)

1 (2%)

ENDOCRINE SYSTEM

Adrenal Cortex
Accessory Adrenal Cortical Nodule
Angiectasis
Atrophy

(50)

(44)

1 (2%)

2 (5%)

2 (4%)

2 (5%)

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Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 2500.StDose M	F1 25000StDose M
Congestion	1 (2%)	
Degeneration, Cystic	3 (6%)	1 (2%)
Hyperplasia	5 (10%)	4 (9%)
Hypertrophy	3 (6%)	2 (5%)
Infiltration Cellular, Lymphocyte		
Metaplasia, Osseous		
Necrosis	1 (2%)	
Polyarteritis		1 (2%)
Vacuolization Cytoplasmic	18 (36%)	20 (45%)
Adrenal Medulla	(50)	(44)
Angiectasis		
Cyst		
Degeneration, Cystic	1 (2%)	
Hemorrhage		
Hyperplasia	17 (34%)	11 (25%)
Necrosis		
Islets, Pancreatic	(50)	(44)
Hemorrhage		
Hyperplasia	1 (2%)	
Parathyroid Gland	(50)	(43)
Hyperplasia	30 (60%)	23 (53%)
Inflammation, Chronic Active		
Necrosis		
Pituitary Gland	(50)	(43)
Angiectasis	10 (20%)	6 (14%)
Atrophy		
Fibrosis	1 (2%)	
Hemorrhage	1 (2%)	
Inflammation, Chronic		
Mineralization	1 (2%)	
Necrosis		
Pigmentation		
Thrombosis		
Pars Distalis, Cyst	11 (22%)	5 (12%)
Pars Distalis, Cyst Multilocular	2 (4%)	3 (7%)
Pars Distalis, Degeneration		

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Experiment Number: 10034 - 04

Test Type: CHRONIC

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 2500.StDose M	F1 25000StDose M
Pars Distalis, Hyperplasia	19 (38%)	19 (44%)
Pars Distalis, Hypertrophy	1 (2%)	4 (9%)
Pars Distalis, Vacuolization Cytoplasmic		
Pars Intermedia, Cyst	2 (4%)	2 (5%)
Pars Intermedia, Hyperplasia		
Rathke's Cleft, Cyst		
Thyroid Gland	(48)	(42)
Inflammation, Chronic Active		
Polyarteritis		
Ultimobranchial Cyst	5 (10%)	4 (10%)
C-cell, Hyperplasia	18 (38%)	13 (31%)
Follicle, Cyst		2 (5%)
Follicular Cell, Hyperplasia	6 (13%)	7 (17%)

GENERAL BODY SYSTEM

Peritoneum	(0)	(0)
Tissue NOS	(0)	(1)
Cyst		
Hemorrhage		
Mineralization		
Thrombosis		

GENITAL SYSTEM

Bulbourethral Gland	(0)	(0)
Dilatation		
Coagulating Gland	(48)	(44)
Atrophy	2 (4%)	2 (5%)
Cyst, Mucinous		
Degeneration, Cystic		
Edema		1 (2%)
Fibrosis		
Infiltration Cellular, Lymphocyte		1 (2%)
Inflammation, Suppurative		1 (2%)

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Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 2500.StDose M	F1 25000StDose M
Inflammation, Chronic		
Inflammation, Chronic Active		1 (2%)
Necrosis		
Epithelium, Hyperplasia		
Lumen, Dilatation	1 (2%)	
Ductus Deferens	(0)	(0)
Granuloma Sperm		
Epididymis	(50)	(46)
Atrophy		
Exfoliated Germ Cell	17 (34%)	9 (20%)
Fibrosis		
Granuloma Sperm		
Hypoplasia		
Hypospermia	16 (32%)	8 (17%)
Infiltration Cellular, Lymphocyte	12 (24%)	13 (28%)
Inflammation, Suppurative		
Inflammation, Chronic		1 (2%)
Inflammation, Chronic Active		
Polyarteritis	5 (10%)	2 (4%)
Spermatocoele		1 (2%)
Epithelium, Degeneration		
Epithelium, Hyperplasia		
Mesothelium, Hyperplasia		
Fat Pad, Epididymal	(0)	(0)
Inflammation, Chronic Active		
Mineralization		
Necrosis		
Preputial Gland	(15)	(12)
Abscess		
Atrophy		
Cyst	1 (7%)	
Fibrosis		
Hyperkeratosis	3 (20%)	2 (17%)
Infiltration Cellular, Lymphocyte		
Inflammation, Suppurative	13 (87%)	8 (67%)
Inflammation, Granulomatous		

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Sprague Dawley (NCTR) RATS MALE	F1 2500.StDose M	F1 25000StDose M
Inflammation, Chronic Active		
Necrosis	1 (7%)	
Duct, Dilatation	14 (93%)	10 (83%)
Epithelium, Hyperplasia		
Prostate, Dorsal/lateral Lobe	(49)	(45)
Atrophy	1 (2%)	
Cyst		
Cyst, Mucinous	7 (14%)	4 (9%)
Edema		1 (2%)
Fibrosis	12 (24%)	6 (13%)
Hemorrhage	1 (2%)	
Infiltration Cellular, Lymphocyte	35 (71%)	22 (49%)
Inflammation, Suppurative	44 (90%)	38 (84%)
Inflammation, Chronic Active		1 (2%)
Mineralization	2 (4%)	
Polyarteritis		
Epithelium, Hyperplasia		1 (2%)
Muscularis, Necrosis		
Muscularis, Regeneration		
Prostate, Ventral Lobe	(49)	(45)
Atrophy	4 (8%)	4 (9%)
Edema		1 (2%)
Fibrosis	12 (24%)	8 (18%)
Hemorrhage	1 (2%)	
Infiltration Cellular, Lymphocyte	20 (41%)	18 (40%)
Inflammation, Suppurative	10 (20%)	9 (20%)
Inflammation, Chronic Active		1 (2%)
Mineralization	3 (6%)	4 (9%)
Necrosis		
Polyarteritis	2 (4%)	2 (4%)
Epithelium, Hyperplasia	14 (29%)	13 (29%)
Seminal Vesicle	(48)	(42)
Atrophy	5 (10%)	3 (7%)
Concretion		
Edema		1 (2%)
Fibrosis	1 (2%)	

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

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
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Sprague Dawley (NCTR) RATS MALE	F1 2500.StDose M	F1 25000StDose M
Infiltration Cellular, Lymphocyte Inflammation, Suppurative		
Inflammation, Chronic	1 (2%)	
Inflammation, Chronic Active	2 (4%)	1 (2%)
Necrosis		
Polyarteritis	1 (2%)	
Epithelium, Hyperplasia	4 (8%)	6 (14%)
Lumen, Dilatation	1 (2%)	4 (10%)
Testes	(49)	(45)
Abscess		1 (2%)
Aspermia		
Edema		
Fibrosis		1 (2%)
Granuloma		
Polyarteritis	28 (57%)	16 (36%)
Seminiferous Tubule, Degeneration	40 (82%)	27 (60%)
Seminiferous Tubule, Dilatation	1 (2%)	2 (4%)

HEMATOPOIETIC SYSTEM

Bone Marrow	(49)	(45)
Hypocellularity	2 (4%)	4 (9%)
Necrosis		
Myeloid Cell, Hyperplasia	5 (10%)	5 (11%)
Lymph Node	(27)	(16)
Axillary, Degeneration, Cystic		
Axillary, Hyperplasia, Lymphoid		
Axillary, Infiltration Cellular, Plasma Cell		
Brachial, Degeneration, Cystic	1 (4%)	1 (6%)
Brachial, Hyperplasia, Lymphoid	1 (4%)	
Brachial, Infiltration Cellular, Plasma Cell	1 (4%)	
Cervical, Hyperplasia, Lymphoid		
Cervical, Infiltration Cellular, Plasma Cell		
Iliac, Degeneration, Cystic		
Iliac, Hyperplasia, Lymphoid		

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Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

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Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 2500.StDose M	F1 25000StDose M
Iliac, Infiltration Cellular, Plasma Cell		
Inguinal, Hyperplasia, Lymphoid	1 (4%)	
Inguinal, Infiltration Cellular, Plasma Cell	1 (4%)	
Lumbar, Degeneration, Cystic	9 (33%)	3 (19%)
Lumbar, Hemorrhage		
Lumbar, Hyperplasia, Lymphoid	5 (19%)	2 (13%)
Lumbar, Infiltration Cellular, Plasma Cell	9 (33%)	1 (6%)
Lumbar, Infiltration Cellular, Polymorphonuclear		
Lumbar, Inflammation, Suppurative		
Lumbar, Necrosis		
Mediastinal, Degeneration, Cystic	1 (4%)	2 (13%)
Mediastinal, Hemorrhage		2 (13%)
Mediastinal, Hyperplasia, Lymphoid	1 (4%)	1 (6%)
Mediastinal, Infiltration Cellular, Histiocyte		
Mediastinal, Infiltration Cellular, Mast Cell		
Mediastinal, Infiltration Cellular, Plasma Cell	1 (4%)	1 (6%)
Mediastinal, Infiltration Cellular, Polymorphonuclear		
Mediastinal, Inflammation, Suppurative		1 (6%)
Pancreatic, Degeneration, Cystic	1 (4%)	
Pancreatic, Hyperplasia, Lymphoid	1 (4%)	
Pancreatic, Infiltration Cellular, Histiocyte		1 (6%)
Pancreatic, Infiltration Cellular, Plasma Cell		1 (6%)
Pancreatic, Pigmentation		1 (6%)
Popliteal, Hyperplasia, Lymphoid		
Popliteal, Infiltration Cellular, Plasma Cell		
Renal, Degeneration, Cystic	16 (59%)	6 (38%)
Renal, Hemorrhage	5 (19%)	1 (6%)
Renal, Hyperplasia, Lymphoid	1 (4%)	1 (6%)
Renal, Infiltration Cellular, Plasma Cell	5 (19%)	1 (6%)
Renal, Pigmentation	2 (7%)	
Lymph Node, Mandibular Congestion	(13)	(15)
Degeneration, Cystic	5 (38%)	7 (47%)
Hyperplasia, Lymphoid	9 (69%)	6 (40%)

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Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 2500.StDose M	F1 25000StDose M
Infiltration Cellular, Lymphocyte		
Infiltration Cellular, Plasma Cell	10 (77%)	9 (60%)
Lymph Node, Mesenteric	(2)	(3)
Degeneration, Cystic		
Fibrosis		
Hemorrhage		
Hyperplasia, Lymphoid		
Infiltration Cellular, Polymorphonuclear		
Pigmentation		
Spleen	(49)	(45)
Congestion		
Depletion Lymphoid		
Fibrosis		
Hematopoietic Cell Proliferation	24 (49%)	12 (27%)
Hemorrhage		
Hyperplasia, Lymphoid	6 (12%)	3 (7%)
Mineralization		
Necrosis		1 (2%)
Pigmentation	24 (49%)	22 (49%)
Polyarteritis	2 (4%)	1 (2%)
Vacuolization Cytoplasmic		
Capsule, Fibrosis		
Thymus	(48)	(42)
Atrophy	46 (96%)	38 (90%)
Cyst		
Fibrosis	1 (2%)	
Hemorrhage		1 (2%)
Polyarteritis		
Epithelial Cell, Hyperplasia	1 (2%)	

INTEGUMENTARY SYSTEM

Mammary Gland	(49)	(45)
Atypical Focus		
Fibrosis		

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

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Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 2500.StDose M	F1 25000StDose M
Galactocele	1 (2%)	
Hyperplasia, Lobular		
Inflammation, Granulomatous		
Mineralization		
Polyarteritis		
Alveolus, Degeneration	33 (67%)	23 (51%)
Alveolus, Dilatation	6 (12%)	7 (16%)
Duct, Dilatation	11 (22%)	12 (27%)
Skin	(17)	(16)
Abscess		1 (6%)
Angiectasis		1 (6%)
Cyst, Squamous		
Cyst Epithelial Inclusion	5 (29%)	10 (63%)
Edema	1 (6%)	
Fibrosis		
Foreign Body		
Hemorrhage		1 (6%)
Hyperkeratosis		
Inflammation, Suppurative		1 (6%)
Inflammation, Granulomatous	1 (6%)	2 (13%)
Inflammation, Chronic Active		
Necrosis		
Ulcer		1 (6%)
Epithelium, Hyperplasia	3 (18%)	
Epithelium, Foot, Hyperplasia	6 (35%)	2 (13%)
Foot, Edema	6 (35%)	1 (6%)
Foot, Fibrosis	6 (35%)	2 (13%)
Foot, Hemorrhage		
Foot, Inflammation, Chronic Active	6 (35%)	2 (13%)
Foot, Necrosis	6 (35%)	2 (13%)
Foot, Ulcer	6 (35%)	2 (13%)
Sebaceous Gland, Hyperplasia		

MUSCULOSKELETAL SYSTEM

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Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 2500.StDose M	F1 25000StDose M
Bone	(2)	(1)
Humerus, Abscess		
Humerus, Osteopetrosis		
Joint, Fibrosis		
Joint, Hyperostosis		
Joint, Inflammation, Chronic Active		
Mandible, Osteopetrosis		
Metatarsal, Hyperostosis		
Rib, Hyperostosis	1 (50%)	
Tarsal, Hyperostosis		1 (100%)
Tibia, Hyperostosis		
Vertebra, Fibrous Osteodystrophy		
Bone, Femur	(50)	(46)
Fibrous Osteodystrophy	5 (10%)	2 (4%)
Osteopetrosis	2 (4%)	
Skeletal Muscle	(2)	(3)
Degeneration		
Fibrosis		1 (33%)
Hemorrhage		1 (33%)
Inflammation, Chronic Active		1 (33%)
Necrosis		1 (33%)

NERVOUS SYSTEM

Brain, Brain Stem	(50)	(46)
Compression	6 (12%)	8 (17%)
Cyst		2 (4%)
Gliosis	1 (2%)	
Hemorrhage	1 (2%)	
Necrosis		
Pigmentation		
Thrombosis		
Vacuolization Cytoplasmic	1 (2%)	
Brain, Cerebellum	(50)	(46)
Compression		

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 2500.StDose M	F1 25000StDose M
Gliosis		
Hemorrhage		
Necrosis		
Polyarteritis		
Brain, Cerebrum	(50)	(46)
Compression		
Gliosis	2 (4%)	
Hemorrhage	1 (2%)	
Mineralization		
Necrosis	2 (4%)	
Pigmentation	1 (2%)	
Polyarteritis		
Thrombosis	1 (2%)	
Ventricle, Dilatation	3 (6%)	2 (4%)
Nerve Trigeminal	(8)	(3)
Axon, Degeneration	7 (88%)	1 (33%)
Peripheral Nerve, Sciatic	(8)	(3)
Axon, Degeneration		
Peripheral Nerve, Tibial	(8)	(3)
Axon, Degeneration		
Spinal Cord, Cervical	(8)	(3)
Hemorrhage		
Axon, Degeneration	2 (25%)	
Spinal Cord, Lumbar	(8)	(3)
Axon, Degeneration	6 (75%)	2 (67%)
Spinal Cord, Thoracic	(8)	(3)
Hemorrhage		1 (33%)
Axon, Degeneration	2 (25%)	

RESPIRATORY SYSTEM

Lung	(41)	(38)
Abscess		
Congestion	1 (2%)	
Fibrosis	1 (2%)	

a - Number of animals examined microscopically at site and number of animals with lesion

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

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
 Bisphenol A
CAS Number: 80-05-7

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

Sprague Dawley (NCTR) RATS MALE	F1 2500.StDose M	F1 25000StDose M
Foreign Body		2 (5%)
Hemorrhage	1 (2%)	
Infiltration Cellular, Histiocyte	14 (34%)	5 (13%)
Infiltration Cellular, Lymphocyte		
Inflammation, Suppurative		
Inflammation, Granulomatous	1 (2%)	3 (8%)
Inflammation, Chronic		1 (3%)
Inflammation, Chronic Active	1 (2%)	
Metaplasia, Osseous		1 (3%)
Mineralization		
Necrosis		
Thrombosis		
Alveolar Epithelium, Hyperplasia	1 (2%)	
Bronchiole, Epithelium, Hyperplasia		
Goblet Cell, Metaplasia		
Pleura, Fibrosis		
Pleura, Foreign Body		
Pleura, Inflammation, Suppurative		
Pleura, Necrosis		
Subpleura, Cyst		
Nose	(34)	(37)
Autolysis		
Cyst Epithelial Inclusion		1 (3%)
Exudate	1 (3%)	
Fibrosis		
Fibrous Osteodystrophy	5 (15%)	2 (5%)
Foreign Body	2 (6%)	2 (5%)
Hemorrhage		
Inflammation, Suppurative	7 (21%)	5 (14%)
Inflammation, Chronic Active	4 (12%)	1 (3%)
Osteopetrosis		
Epithelium, Upper Molar, Hyperplasia		
Olfactory Epithelium, Accumulation, Hyaline Droplet	15 (44%)	13 (35%)
Olfactory Epithelium, Hyperplasia		
Posterior To Upper Incisor, Malformation		

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 2500.StDose M	F1 25000StDose M
Respiratory Epithelium, Accumulation, Hyaline Droplet	6 (18%)	5 (14%)
Respiratory Epithelium, Hyperplasia		
Respiratory Epithelium, Hyperplasia, Goblet Cell	5 (15%)	4 (11%)
Respiratory Epithelium, Ulcer	1 (3%)	1 (3%)
Transitional Epithelium, Accumulation, Hyaline Droplet		1 (3%)
Upper Molar, Fibrosis		1 (3%)
Upper Molar, Foreign Body		
Upper Molar, Inflammation, Suppurative		
Upper Molar, Keratin Cyst		
Upper Molar, Necrosis		
Trachea	(33)	(33)
Inflammation, Chronic Active		
Epithelium, Hyperplasia		
Peritracheal Tissue, Hemorrhage		
Peritracheal Tissue, Inflammation, Chronic Active		

SPECIAL SENSES SYSTEM

Ear	(0)	(0)
Eye	(1)	(1)
Cataract		
Fibrosis		
Inflammation, Chronic Active		
Mineralization		
Retinal Detachment		
Rupture		
Anterior Chamber, Edema		
Cornea, Bacterium		
Cornea, Edema		
Cornea, Inflammation, Suppurative		
Cornea, Inflammation, Chronic Active	1 (100%)	
Cornea, Mineralization	1 (100%)	

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Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 2500.StDose M	F1 25000StDose M
Cornea, Necrosis		
Cornea, Ulcer		
Retina, Autolysis		
Retina, Degeneration		1 (100%)
Lacrimal Gland	(0)	(0)
Zymbal's Gland	(0)	(1)
Cyst, Squamous		1 (100%)
Fibrosis		
Inflammation, Suppurative		
Duct, Dilatation		

URINARY SYSTEM

Kidney	(50)	(45)
Accumulation, Hyaline Droplet	1 (2%)	2 (4%)
Casts Protein	1 (2%)	1 (2%)
Fibrosis		1 (2%)
Hemorrhage		1 (2%)
Infarct		
Infiltration Cellular, Polymorphonuclear	8 (16%)	5 (11%)
Inflammation, Chronic Active		
Mineralization	6 (12%)	3 (7%)
Necrosis		1 (2%)
Nephropathy	46 (92%)	39 (87%)
Pigmentation	1 (2%)	
Polyarteritis	2 (4%)	1 (2%)
Polycystic Kidney	2 (4%)	
Thrombosis		
Vacuolization Cytoplasmic		
Artery, Intima, Proliferation		
Cortex, Cyst	14 (28%)	10 (22%)
Pelvis, Dilatation		3 (7%)
Pelvis, Infiltration Cellular, Lymphocyte	1 (2%)	
Pelvis, Inflammation, Chronic Active		
Renal Tubule, Cyst	27 (54%)	18 (40%)

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 2500.StDose M	F1 25000StDose M
Renal Tubule, Dilatation		1 (2%)
Renal Tubule, Hyperplasia, Atypical		1 (2%)
Transitional Epithelium, Hyperplasia	20 (40%)	10 (22%)
Urinary Bladder	(3)	(4)
Calculus Micro Observation Only		
Fibrosis		
Hemorrhage		2 (50%)
Inflammation, Chronic Active		1 (25%)
Necrosis		
Lumen, Dilatation	3 (100%)	4 (100%)

*** END OF MALE ***

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR)
RATS FEMALE

F1 Veh. Ctrl F

F1 2.5 BPA F

F1 25.0 BPA F

F1 250.0BPA F

F1 2500.BPA F

F1 25000BPA F

Disposition Summary

Animals Initially In Study	50	48	46	49	50	46
Early Deaths						
Moribund Sacrifice	25	22	28	23	28	27
Natural Death	3	1	1	5	5	1
Survivors						
Moribund Sacrifice	3	6	3	8	5	8
Natural Death	3				2	2
Terminal Sacrifice	16	19	14	13	10	8
Animals Examined Microscopically	50	48	46	49	50	46

ALIMENTARY SYSTEM

Esophagus	(34)	(29)	(32)	(36)	(40)	(38)
Dilatation						
Ulcer						
Periesophageal Tissue, Foreign Body						
Periesophageal Tissue, Inflammation, Granulomatous						
Intestine Large, Cecum	(1)	(0)	(1)	(0)	(0)	(0)
Fibrosis			1 (100%)			
Inflammation, Chronic Active			1 (100%)			
Necrosis			1 (100%)			
Perforation			1 (100%)			
Intestine Large, Colon	(31)	(30)	(31)	(32)	(34)	(38)
Dilatation		1 (3%)				
Intestine Small, Duodenum	(0)	(0)	(0)	(0)	(0)	(0)
Fibrosis						
Intestine Small, Ileum	(29)	(29)	(31)	(32)	(32)	(37)
Diverticulum						
Foreign Body			1 (3%)			
Inflammation, Chronic Active			1 (3%)			
Epithelium, Hyperplasia			1 (3%)			
Intestine Small, Jejunum	(3)	(0)	(2)	(1)	(1)	(0)
Dilatation						

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Experiment Number: 10034 - 04

Test Type: CHRONIC

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P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

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

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 Veh. Ctrl F	F1 2.5 BPA F	F1 25.0 BPA F	F1 250.0BPA F	F1 2500.BPA F	F1 25000BPA F
Diverticulum					1 (100%)	
Fibrosis						
Inflammation, Chronic Active			1 (50%)			
Metaplasia, Osseous						
Necrosis			1 (50%)			
Ulcer						
Epithelium, Hyperplasia			1 (50%)			
Liver	(50)	(48)	(46)	(49)	(50)	(46)
Angiectasis	3 (6%)	4 (8%)	5 (11%)	5 (10%)	3 (6%)	8 (17%)
Basophilic Focus	18 (36%)	22 (46%)	15 (33%)	18 (37%)	19 (38%)	18 (39%)
Basophilic Focus, Multiple		1 (2%)				
Cholangiofibrosis		1 (2%)				
Clear Cell Focus	9 (18%)	9 (19%)	12 (26%)	10 (20%)	6 (12%)	7 (15%)
Cyst						
Deformity						
Degeneration, Cystic	4 (8%)	3 (6%)	6 (13%)	3 (6%)	5 (10%)	1 (2%)
Eosinophilic Focus	1 (2%)				1 (2%)	
Fatty Change	19 (38%)	9 (19%)	15 (33%)	15 (31%)	8 (16%)	12 (26%)
Fibrosis	1 (2%)				1 (2%)	
Hematopoietic Cell Proliferation	2 (4%)	2 (4%)	3 (7%)	2 (4%)	1 (2%)	1 (2%)
Hemorrhage	1 (2%)	2 (4%)		1 (2%)	1 (2%)	
Hepatodiaphragmatic Nodule	6 (12%)	4 (8%)	6 (13%)	2 (4%)	5 (10%)	2 (4%)
Infiltration Cellular, Mononuclear Cell	37 (74%)	28 (58%)	35 (76%)	29 (59%)	26 (52%)	24 (52%)
Inflammation, Chronic					1 (2%)	
Inflammation, Chronic Active		2 (4%)	2 (4%)	1 (2%)	2 (4%)	1 (2%)
Mineralization	1 (2%)		1 (2%)	2 (4%)	1 (2%)	1 (2%)
Mitotic Alteration		1 (2%)		1 (2%)		
Mixed Cell Focus		2 (4%)	1 (2%)	2 (4%)		2 (4%)
Pigmentation	1 (2%)		1 (2%)		1 (2%)	
Tension Lipidosis	5 (10%)	7 (15%)	8 (17%)	6 (12%)	4 (8%)	10 (22%)
Vacuolization Cytoplasmic	11 (22%)	16 (33%)	14 (30%)	13 (27%)	15 (30%)	15 (33%)
Bile Duct, Hyperplasia	16 (32%)	18 (38%)	16 (35%)	18 (37%)	11 (22%)	9 (20%)
Biliary Tract, Cyst					1 (2%)	
Biliary Tract, Cyst, Multiple						
Biliary Tract, Fibrosis	6 (12%)	10 (21%)	4 (9%)	6 (12%)	5 (10%)	5 (11%)
Capsule, Fibrosis						1 (2%)

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 Veh. Ctrl F	F1 2.5 BPA F	F1 25.0 BPA F	F1 250.0BPA F	F1 2500.BPA F	F1 25000BPA F
Capsule, Hemorrhage						
Capsule, Inflammation, Chronic Active						1 (2%)
Hepatocyte, Degeneration						
Hepatocyte, Necrosis	1 (2%)	2 (4%)	3 (7%)	2 (4%)	4 (8%)	3 (7%)
Oval Cell, Hyperplasia	2 (4%)		1 (2%)	3 (6%)	1 (2%)	2 (4%)
Mesentery	(2)	(0)	(3)	(3)	(4)	(3)
Fat, Degeneration, Cystic			1 (33%)			
Fat, Infiltration Cellular, Lymphocyte			1 (33%)			
Fat, Inflammation, Granulomatous						
Fat, Inflammation, Chronic			1 (33%)			
Fat, Necrosis	2 (100%)		2 (67%)	2 (67%)	4 (100%)	2 (67%)
Oral Mucosa	(0)	(0)	(0)	(0)	(0)	(0)
Pancreas	(50)	(48)	(46)	(49)	(49)	(46)
Basophilic Focus	3 (6%)	6 (13%)		1 (2%)	1 (2%)	2 (4%)
Infiltration Cellular, Lymphocyte	35 (70%)	33 (69%)	31 (67%)	28 (57%)	28 (57%)	29 (63%)
Inflammation, Chronic Active	2 (4%)	4 (8%)	4 (9%)	1 (2%)	1 (2%)	3 (7%)
Lipomatosis	6 (12%)	4 (8%)	8 (17%)	6 (12%)	3 (6%)	7 (15%)
Necrosis						
Pigmentation	11 (22%)	11 (23%)	14 (30%)	8 (16%)	3 (6%)	8 (17%)
Polyarteritis						
Acinar Cell, Hyperplasia				1 (2%)		
Acinus, Degeneration	34 (68%)	34 (71%)	35 (76%)	29 (59%)	31 (63%)	36 (78%)
Artery, Fibrosis						
Artery, Inflammation, Chronic Active						
Artery, Mineralization						
Stomach, Forestomach	(34)	(29)	(34)	(36)	(39)	(39)
Cyst Epithelial Inclusion			1 (3%)			
Edema						
Inflammation, Chronic Active				1 (3%)		
Necrosis						
Ulcer				1 (3%)		1 (3%)
Epithelium, Hyperplasia						3 (8%)
Stomach, Glandular	(34)	(29)	(31)	(35)	(36)	(38)
Cyst Epithelial Inclusion						
Diverticulum						
Edema						

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 Veh. Ctrl F	F1 2.5 BPA F	F1 25.0 BPA F	F1 250.0BPA F	F1 2500.BPA F	F1 25000BPA F
Inflammation, Chronic Active Mineralization				1 (3%)		1 (3%)
Pigmentation	1 (3%)					
Polyarteritis Epithelium, Hyperplasia						1 (3%) 1 (3%)
Tongue Ulcer	(0)	(0)	(0)	(0)	(0)	(0)
CARDIOVASCULAR SYSTEM						
Blood Vessel Mineralization	(50)	(48)	(46)	(49) 1 (2%)	(50)	(46) 1 (2%)
Intima, Inflammation, Chronic Intima, Proliferation					1 (2%) 1 (2%)	
Heart Cardiomyopathy	(50) 35 (70%)	(48) 30 (63%)	(46) 24 (52%)	(49) 35 (71%)	(50) 33 (66%)	(46) 33 (72%)
Inflammation, Chronic Active Metaplasia, Osseous			1 (2%)		1 (2%)	1 (2%)
Mineralization Polyarteritis				1 (2%)		1 (2%) 1 (2%)
Thrombosis Myocardium, Necrosis					2 (4%)	1 (2%)
ENDOCRINE SYSTEM						
Adrenal Cortex Accessory Adrenal Cortical Nodule	(50) 1 (2%)	(48) 1 (2%)	(45)	(49) 1 (2%)	(49)	(46)
Angiectasis Atrophy	9 (18%)	8 (17%)	6 (13%)	6 (12%)	6 (12%)	9 (20%)
Cyst Degeneration, Cystic	31 (62%)	30 (63%)	27 (60%)	31 (63%)	29 (59%)	31 (67%)
Fibrosis Hemorrhage			1 (2%)	1 (2%)		
Hyperplasia Hypertrophy	7 (14%) 5 (10%)	7 (15%) 2 (4%)	2 (4%) 2 (4%)	3 (6%) 3 (6%)	2 (4%) 4 (8%)	5 (11%) 3 (7%)

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A
CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 Veh. Ctrl F	F1 2.5 BPA F	F1 25.0 BPA F	F1 250.0BPA F	F1 2500.BPA F	F1 25000BPA F
Metaplasia, Osseous				1 (2%)		
Necrosis						
Pigmentation				1 (2%)	1 (2%)	
Vacuolization Cytoplasmic	3 (6%)	6 (13%)	1 (2%)	5 (10%)	2 (4%)	4 (9%)
Capsule, Fibrosis						1 (2%)
Adrenal Medulla	(50)	(48)	(46)	(49)	(49)	(46)
Cyst			1 (2%)			
Degeneration, Cystic						
Hyperplasia	8 (16%)	7 (15%)	3 (7%)	4 (8%)		4 (9%)
Hypertrophy		1 (2%)				
Islets, Pancreatic	(50)	(48)	(46)	(49)	(49)	(46)
Hyperplasia		1 (2%)	2 (4%)			2 (4%)
Parathyroid Gland	(50)	(48)	(45)	(47)	(50)	(45)
Hyperplasia	4 (8%)	6 (13%)	3 (7%)	5 (11%)	3 (6%)	6 (13%)
Pituitary Gland	(50)	(48)	(46)	(49)	(49)	(46)
Angiectasis	10 (20%)	8 (17%)	4 (9%)	9 (18%)	9 (18%)	9 (20%)
Fibrosis						
Hemorrhage					1 (2%)	1 (2%)
Necrosis						
Pigmentation						
Pars Distalis, Cyst	9 (18%)	2 (4%)	7 (15%)	10 (20%)	3 (6%)	2 (4%)
Pars Distalis, Hyperplasia	27 (54%)	22 (46%)	32 (70%)	26 (53%)	29 (59%)	23 (50%)
Pars Distalis, Hypertrophy			1 (2%)	1 (2%)		
Pars Distalis, Vacuolization Cytoplasmic	1 (2%)					
Pars Intermedia, Cyst	1 (2%)		1 (2%)	1 (2%)		
Pars Intermedia, Vacuolization Cytoplasmic						
Rathke's Cleft, Cyst				1 (2%)		2 (4%)
Thyroid Gland	(50)	(48)	(46)	(49)	(50)	(46)
Angiectasis						1 (2%)
Fibrosis		1 (2%)				
Infiltration Cellular, Lymphocyte				2 (4%)		1 (2%)
Inflammation, Chronic Active						
Ultimobranchial Cyst	8 (16%)	2 (4%)	6 (13%)	3 (6%)	4 (8%)	7 (15%)
C-cell, Hyperplasia	22 (44%)	17 (35%)	22 (48%)	18 (37%)	20 (40%)	17 (37%)
Follicular Cell, Cyst						
Follicular Cell, Hyperplasia	1 (2%)	6 (13%)	4 (9%)	3 (6%)	1 (2%)	4 (9%)

a - Number of animals examined microscopically at site and number of animals with lesion

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

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
 Bisphenol A
 CAS Number: 80-05-7

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

Sprague Dawley (NCTR) RATS FEMALE	F1 Veh. Ctrl F	F1 2.5 BPA F	F1 25.0 BPA F	F1 250.0BPA F	F1 2500.BPA F	F1 25000BPA F
GENERAL BODY SYSTEM						
Tissue NOS	(0)	(1)	(0)	(1)	(1)	(0)
Metaplasia, Osseous				1 (100%)		
GENITAL SYSTEM						
Clitoral Gland	(7)	(7)	(6)	(7)	(8)	(13)
Atrophy						
Fibrosis					1 (13%)	
Hyperkeratosis	2 (29%)	3 (43%)	2 (33%)	6 (86%)	1 (13%)	3 (23%)
Infiltration Cellular, Plasma Cell						
Inflammation, Suppurative	6 (86%)	4 (57%)	3 (50%)	2 (29%)	5 (63%)	10 (77%)
Inflammation, Chronic Active						1 (8%)
Duct, Dilatation	7 (100%)	5 (71%)	4 (67%)	7 (100%)	7 (88%)	11 (85%)
Fat Pad, Ovarian/parametrial	(1)	(0)	(0)	(1)	(1)	(1)
Necrosis	1 (100%)			1 (100%)	1 (100%)	
Ovary	(50)	(48)	(46)	(49)	(50)	(46)
Angiectasis						
Atrophy	47 (94%)	45 (94%)	44 (96%)	46 (94%)	45 (90%)	46 (100%)
Cyst	4 (8%)	4 (8%)	4 (9%)	9 (18%)	2 (4%)	4 (9%)
Hyperplasia, Sertoliform	4 (8%)	5 (10%)	1 (2%)	5 (10%)	6 (12%)	4 (9%)
Hyperplasia, Tubulostromal						
Infiltration Cellular, Polymorphonuclear						
Pigmentation				1 (2%)		
Polyarteritis		1 (2%)				
Bilateral, Cyst	2 (4%)	2 (4%)				
Bilateral, Follicle, Cyst	1 (2%)		1 (2%)	1 (2%)		1 (2%)
Bursa, Cyst		1 (2%)		1 (2%)	1 (2%)	2 (4%)
Corpus Luteum, Hypertrophy					1 (2%)	
Follicle, Cyst	3 (6%)	3 (6%)	2 (4%)	7 (14%)	6 (12%)	4 (9%)
Granulosa Cell, Hyperplasia		2 (4%)		1 (2%)	1 (2%)	
Interstitial Cell, Hyperplasia						1 (2%)
Rete Ovarii, Hyperplasia						

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 Veh. Ctrl F	F1 2.5 BPA F	F1 25.0 BPA F	F1 250.0BPA F	F1 2500.BPA F	F1 25000BPA F
Oviduct	(47)	(48)	(46)	(48)	(47)	(46)
Epithelium, Hyperplasia					1 (2%)	
Uterus	(50)	(48)	(45)	(49)	(48)	(46)
Adenomyosis	1 (2%)	1 (2%)				
Atrophy	7 (14%)	8 (17%)	4 (9%)	9 (18%)	4 (8%)	6 (13%)
Cyst	1 (2%)					
Dilatation						
Hemorrhage						
Hyperplasia, Stromal			1 (2%)			
Infiltration Cellular, Polymorphonuclear	1 (2%)					
Inflammation, Suppurative						
Metaplasia, Squamous	2 (4%)	4 (8%)	4 (9%)	1 (2%)	4 (8%)	6 (13%)
Cervix, Cyst, Squamous						
Cervix, Hyperplasia, Stromal						
Endometrial Glands, Hyperplasia	1 (2%)	1 (2%)	2 (4%)		2 (4%)	2 (4%)
Endometrium, Cyst		1 (2%)	1 (2%)	2 (4%)	1 (2%)	2 (4%)
Endometrium, Degeneration						
Endometrium, Hyperplasia	10 (20%)	15 (31%)	12 (27%)	15 (31%)	15 (31%)	12 (26%)
Endometrium, Hyperplasia, Cystic	30 (60%)	20 (42%)	26 (58%)	23 (47%)	22 (46%)	26 (57%)
Lumen, Dilatation	2 (4%)	2 (4%)	3 (7%)	4 (8%)	5 (10%)	6 (13%)
Stroma, Fibrosis						
Vagina	(49)	(48)	(45)	(49)	(50)	(46)
Atrophy	1 (2%)	2 (4%)		2 (4%)	1 (2%)	
Cyst, Squamous			1 (2%)			
Foreign Body		1 (2%)				
Hemorrhage		1 (2%)				
Infiltration Cellular, Polymorphonuclear	7 (14%)	2 (4%)	9 (20%)	3 (6%)	6 (12%)	6 (13%)
Inflammation, Chronic Active		1 (2%)				
Epithelium, Degeneration	1 (2%)	6 (13%)	3 (7%)	2 (4%)	6 (12%)	2 (4%)
Epithelium, Hyperplasia	4 (8%)	5 (10%)	12 (27%)	10 (20%)	11 (22%)	12 (26%)
Epithelium, Mucification	46 (94%)	37 (77%)	34 (76%)	39 (80%)	34 (68%)	40 (87%)
Lumen, Dilatation		2 (4%)				1 (2%)

HEMATOPOIETIC SYSTEM

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 Veh. Ctrl F	F1 2.5 BPA F	F1 25.0 BPA F	F1 250.0BPA F	F1 2500.BPA F	F1 25000BPA F
Bone Marrow	(50)	(48)	(46)	(49)	(49)	(46)
Hypocellularity	2 (4%)	3 (6%)	1 (2%)	2 (4%)	2 (4%)	6 (13%)
Myeloid Cell, Hyperplasia		2 (4%)	2 (4%)	1 (2%)	3 (6%)	2 (4%)
Lymph Node	(12)	(9)	(6)	(8)	(4)	(6)
Degeneration, Cystic				1 (13%)		
Axillary, Degeneration, Cystic	1 (8%)					
Axillary, Hyperplasia, Lymphoid	1 (8%)		1 (17%)			
Axillary, Infiltration Cellular, Plasma Cell		1 (11%)				
Iliac, Degeneration, Cystic						
Iliac, Hyperplasia, Lymphoid		1 (11%)				
Iliac, Infiltration Cellular, Plasma Cell		1 (11%)				
Inguinal, Infiltration Cellular, Plasma Cell				1 (13%)	1 (25%)	
Lumbar, Degeneration, Cystic	2 (17%)	5 (56%)	1 (17%)	2 (25%)		2 (33%)
Lumbar, Hyperplasia, Lymphoid	6 (50%)	1 (11%)	1 (17%)	3 (38%)		5 (83%)
Lumbar, Infiltration Cellular, Plasma Cell	5 (42%)	4 (44%)	3 (50%)	3 (38%)	1 (25%)	4 (67%)
Mediastinal, Degeneration, Cystic						
Mediastinal, Hemorrhage	1 (8%)					
Mediastinal, Hyperplasia, Lymphoid						
Mediastinal, Pigmentation	1 (8%)					
Pancreatic, Degeneration, Cystic				1 (13%)		
Pancreatic, Hyperplasia, Lymphoid				1 (13%)		
Pancreatic, Infiltration Cellular, Histiocyte						
Popliteal, Hyperplasia, Lymphoid		1 (11%)	1 (17%)			
Popliteal, Infiltration Cellular, Plasma Cell		1 (11%)	1 (17%)		1 (25%)	
Renal, Degeneration, Cystic	1 (8%)	2 (22%)		1 (13%)		
Renal, Hemorrhage	1 (8%)					
Renal, Hyperplasia, Lymphoid	1 (8%)					
Renal, Infiltration Cellular, Plasma Cell	1 (8%)		1 (17%)	1 (13%)		1 (17%)
Renal, Pigmentation	1 (8%)					
Lymph Node, Mandibular	(5)	(0)	(4)	(2)	(4)	(6)
Degeneration, Cystic	1 (20%)		1 (25%)	2 (100%)	1 (25%)	1 (17%)
Hemorrhage					1 (25%)	
Hyperplasia, Lymphoid	3 (60%)				2 (50%)	3 (50%)
Infiltration Cellular, Plasma Cell	3 (60%)		3 (75%)	1 (50%)	3 (75%)	4 (67%)
Necrosis						1 (17%)
Lymph Node, Mesenteric	(2)	(1)	(2)	(0)	(0)	(2)

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A
CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 Veh. Ctrl F	F1 2.5 BPA F	F1 25.0 BPA F	F1 250.0BPA F	F1 2500.BPA F	F1 25000BPA F
Degeneration, Cystic			1 (50%)			1 (50%)
Hemorrhage						1 (50%)
Histiocytosis			1 (50%)			
Hyperplasia, Lymphoid						
Infiltration Cellular, Plasma Cell			1 (50%)			
Spleen	(50)	(48)	(46)	(49)	(50)	(46)
Bacterium		1 (2%)				
Fibrosis		1 (2%)				
Hematopoietic Cell Proliferation	28 (56%)	27 (56%)	29 (63%)	30 (61%)	30 (60%)	23 (50%)
Hyperplasia, Lymphoid		1 (2%)	2 (4%)	2 (4%)		2 (4%)
Infiltration Cellular, Polymorphonuclear		1 (2%)				
Necrosis	1 (2%)	1 (2%)	1 (2%)			
Pigmentation	32 (64%)	27 (56%)	28 (61%)	34 (69%)	35 (70%)	30 (65%)
Polyarteritis		1 (2%)				
Capsule, Cyst						
Capsule, Fibrosis					1 (2%)	
Thymus	(50)	(48)	(44)	(49)	(49)	(45)
Atrophy	47 (94%)	47 (98%)	43 (98%)	47 (96%)	47 (96%)	44 (98%)
Cyst	2 (4%)			2 (4%)	1 (2%)	2 (4%)
Hemorrhage	1 (2%)	1 (2%)			1 (2%)	
Necrosis						
Polyarteritis						
Epithelial Cell, Hyperplasia				1 (2%)	1 (2%)	
INTEGUMENTARY SYSTEM						
Mammary Gland	(50)	(48)	(46)	(49)	(50)	(46)
Atypical Focus	2 (4%)	7 (15%)	1 (2%)	5 (10%)	3 (6%)	3 (7%)
Fibrosis						
Galactocele						
Hyperplasia, Lobular	43 (86%)	41 (85%)	30 (65%)	38 (78%)	40 (80%)	37 (80%)
Infiltration Cellular, Polymorphonuclear					1 (2%)	
Inflammation, Chronic				1 (2%)		
Metaplasia, Osseous						
Mineralization						

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Experiment Number: 10034 - 04

Test Type: CHRONIC

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P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

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

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 Veh. Ctrl F	F1 2.5 BPA F	F1 25.0 BPA F	F1 250.0BPA F	F1 2500.BPA F	F1 25000BPA F
Alveolus, Dilatation	9 (18%)	14 (29%)	5 (11%)	7 (14%)	7 (14%)	11 (24%)
Duct, Dilatation	15 (30%)	16 (33%)	7 (15%)	9 (18%)	9 (18%)	14 (30%)
Duct, Hyperplasia					1 (2%)	
Skin	(17)	(12)	(14)	(12)	(13)	(17)
Cyst Epithelial Inclusion				2 (17%)	1 (8%)	
Hemorrhage					1 (8%)	
Inflammation, Suppurative		1 (8%)		1 (8%)		
Inflammation, Granulomatous				1 (8%)		
Inflammation, Chronic Active		1 (8%)				1 (6%)
Metaplasia, Osseous						
Ulcer		2 (17%)				1 (6%)
Epithelium, Hyperplasia		1 (8%)		1 (8%)		
Epithelium, Foot, Hyperplasia	15 (88%)	10 (83%)	12 (86%)	9 (75%)	11 (85%)	15 (88%)
Foot, Bacterium	1 (6%)		2 (14%)		1 (8%)	1 (6%)
Foot, Cyst Epithelial Inclusion						
Foot, Edema	10 (59%)	8 (67%)	8 (57%)	6 (50%)	7 (54%)	11 (65%)
Foot, Fibrosis	15 (88%)	11 (92%)	12 (86%)	9 (75%)	11 (85%)	15 (88%)
Foot, Hyperkeratosis						1 (6%)
Foot, Inflammation, Chronic Active	15 (88%)	11 (92%)	12 (86%)	9 (75%)	11 (85%)	16 (94%)
Foot, Necrosis	15 (88%)	10 (83%)	10 (71%)	6 (50%)	7 (54%)	14 (82%)
Foot, Ulcer	15 (88%)	10 (83%)	11 (79%)	8 (67%)	9 (69%)	15 (88%)
Subcutaneous Tissue, Fibrosis						

MUSCULOSKELETAL SYSTEM

Bone	(1)	(0)	(0)	(0)	(1)	(0)
Cranium, Fracture					1 (100%)	
Joint, Edema	1 (100%)					
Tarsal, Fibrosis						
Tarsal, Hyperostosis						
Tarsal, Inflammation, Chronic Active						
Tarsal, Necrosis						
Tarsal, Ulcer						
Bone, Femur	(50)	(48)	(46)	(49)	(50)	(46)
Fibrous Osteodystrophy						1 (2%)

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Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 Veh. Ctrl F	F1 2.5 BPA F	F1 25.0 BPA F	F1 250.0BPA F	F1 2500.BPA F	F1 25000BPA F
Osteopetrosis						
Skeletal Muscle	(1)	(1)	(2)	(1)	(1)	(1)
Diaphragm, Hernia			1 (50%)			
NERVOUS SYSTEM						
Brain, Brain Stem	(50)	(48)	(46)	(49)	(50)	(46)
Compression	14 (28%)	13 (27%)	7 (15%)	14 (29%)	13 (26%)	17 (37%)
Gliosis						
Hemorrhage	1 (2%)	1 (2%)		1 (2%)		
Necrosis						
Polyarteritis		1 (2%)				
Brain, Cerebellum	(50)	(48)	(46)	(49)	(50)	(46)
Hemorrhage		1 (2%)				
Brain, Cerebrum	(50)	(48)	(46)	(49)	(50)	(46)
Cyst			1 (2%)			
Hemorrhage		1 (2%)		1 (2%)		
Ventricle, Dilatation	7 (14%)	4 (8%)	2 (4%)	4 (8%)	6 (12%)	6 (13%)
Nerve Trigeminal	(7)	(12)	(2)	(12)	(11)	(6)
Axon, Degeneration	4 (57%)	7 (58%)	2 (100%)	10 (83%)	4 (36%)	5 (83%)
Peripheral Nerve, Sciatic	(7)	(12)	(2)	(12)	(11)	(6)
Peripheral Nerve, Tibial	(7)	(12)	(2)	(12)	(11)	(6)
Axon, Degeneration		2 (17%)				
Spinal Cord, Cervical	(7)	(11)	(2)	(12)	(10)	(6)
Mineralization		1 (9%)				
Axon, Degeneration	2 (29%)			1 (8%)		1 (17%)
Spinal Cord, Lumbar	(7)	(12)	(2)	(12)	(10)	(6)
Axon, Degeneration	4 (57%)	8 (67%)	1 (50%)	5 (42%)	4 (40%)	4 (67%)
Spinal Cord, Thoracic	(7)	(11)	(2)	(12)	(10)	(6)
Mineralization		1 (9%)				
Axon, Degeneration	3 (43%)			1 (8%)		1 (17%)

RESPIRATORY SYSTEM

Lung	(38)	(32)	(34)	(39)	(44)	(42)
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a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 Veh. Ctrl F	F1 2.5 BPA F	F1 25.0 BPA F	F1 250.0BPA F	F1 2500.BPA F	F1 25000BPA F
Congestion					2 (5%)	
Fibrosis						
Foreign Body			2 (6%)			3 (7%)
Hemorrhage	1 (3%)	1 (3%)	1 (3%)		1 (2%)	1 (2%)
Infiltration Cellular, Histiocyte	8 (21%)	3 (9%)	8 (24%)	12 (31%)	10 (23%)	13 (31%)
Infiltration Cellular, Lymphocyte						
Inflammation, Suppurative						
Inflammation, Granulomatous		1 (3%)	2 (6%)			2 (5%)
Inflammation, Chronic		1 (3%)	1 (3%)			1 (2%)
Inflammation, Chronic Active				1 (3%)		1 (2%)
Metaplasia, Osseous				1 (3%)	1 (2%)	
Mineralization						1 (2%)
Necrosis			1 (3%)			
Pigmentation					1 (2%)	
Alveolar Epithelium, Hyperplasia	4 (11%)	2 (6%)	1 (3%)	1 (3%)	3 (7%)	
Bronchiole, Epithelium, Hyperplasia						
Mediastinum, Foreign Body						
Mediastinum, Inflammation, Chronic						
Mediastinum, Necrosis						
Nose	(34)	(29)	(32)	(36)	(38)	(38)
Autolysis						
Fibrosis						
Fibrous Osteodystrophy						2 (5%)
Foreign Body				5 (14%)		
Hemorrhage		1 (3%)				
Inflammation, Suppurative	1 (3%)	1 (3%)	1 (3%)	5 (14%)		
Inflammation, Chronic Active				1 (3%)	1 (3%)	
Osteopetrosis						
Olfactory Epithelium, Accumulation, Hyaline Droplet	8 (24%)	5 (17%)	6 (19%)	12 (33%)	7 (18%)	11 (29%)
Respiratory Epithelium, Accumulation, Hyaline Droplet	2 (6%)			2 (6%)		3 (8%)
Respiratory Epithelium, Hyperplasia						1 (3%)
Respiratory Epithelium, Hyperplasia, Goblet Cell	1 (3%)		1 (3%)	2 (6%)	1 (3%)	3 (8%)
Respiratory Epithelium, Ulcer						

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Experiment Number: 10034 - 04

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Species/Strain: RATS/Sprague Dawley (NCTR)

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Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 Veh. Ctrl F	F1 2.5 BPA F	F1 25.0 BPA F	F1 250.0BPA F	F1 2500.BPA F	F1 25000BPA F
Transitional Epithelium, Accumulation, Hyaline Droplet	2 (6%)				1 (3%)	
Upper Molar, Inflammation, Chronic Active						
Trachea Infiltration Cellular, Lymphocyte Inflammation, Chronic Active	(32)	(29)	(32)	(34)	(37)	(38)
SPECIAL SENSES SYSTEM						
Ear	(0)	(0)	(0)	(1)	(0)	(0)
Eye	(1)	(0)	(1)	(0)	(2)	(0)
Cataract			1 (100%)		2 (100%)	
Anterior Chamber, Edema						
Cornea, Edema	1 (100%)					
Retina, Degeneration	1 (100%)		1 (100%)		2 (100%)	
Zymbal's Gland	(0)	(1)	(0)	(0)	(2)	(2)
Abscess						
Inflammation, Suppurative						1 (50%)
Thrombosis						1 (50%)
Duct, Dilatation						1 (50%)
URINARY SYSTEM						
Kidney	(50)	(48)	(46)	(49)	(50)	(46)
Accumulation, Hyaline Droplet	1 (2%)		1 (2%)			1 (2%)
Angiectasis						
Casts Protein	8 (16%)	4 (8%)	3 (7%)	5 (10%)	6 (12%)	6 (13%)
Cyst						
Fibrosis	1 (2%)					
Infarct						
Infiltration Cellular, Lymphocyte						
Infiltration Cellular, Mononuclear Cell						
Infiltration Cellular, Polymorphonuclear		1 (2%)		1 (2%)		
Mineralization	30 (60%)	23 (48%)	25 (54%)	25 (51%)	24 (48%)	26 (57%)
Nephropathy	19 (38%)	28 (58%)	21 (46%)	21 (43%)	21 (42%)	25 (54%)

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

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

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 Veh. Ctrl F	F1 2.5 BPA F	F1 25.0 BPA F	F1 250.0BPA F	F1 2500.BPA F	F1 25000BPA F
Polyarteritis		2 (4%)				1 (2%)
Polycystic Kidney						
Capsule, Fibrosis						1 (2%)
Capsule, Inflammation, Chronic Active						1 (2%)
Cortex, Cyst	5 (10%)	8 (17%)	5 (11%)	7 (14%)	10 (20%)	9 (20%)
Pelvis, Dilatation						
Renal Tubule, Cyst	9 (18%)	8 (17%)	12 (26%)	15 (31%)	12 (24%)	6 (13%)
Renal Tubule, Dilatation						
Renal Tubule, Necrosis	1 (2%)					
Renal Tubule, Vacuolization Cytoplasmic				1 (2%)		
Transitional Epithelium, Hyperplasia	12 (24%)	9 (19%)	7 (15%)	8 (16%)	9 (18%)	9 (20%)
Urinary Bladder	(0)	(1)	(0)	(2)	(0)	(1)
Congestion						
Edema						
Hemorrhage						
Lumen, Dilatation		1 (100%)		2 (100%)		

a - Number of animals examined microscopically at site and number of animals with lesion

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

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
 Bisphenol A
 CAS Number: 80-05-7

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

Sprague Dawley (NCTR) RATS FEMALE	F1 0.05 EE2 F	F1 0.50 EE2 F	F1 Veh. StDose F	F1 2.5 StDose F	F1 25.0 StDose F	F1 250.0StDose F
Disposition Summary						
Animals Initially In Study	26	26	50	50	48	50
Early Deaths						
Moribund Sacrifice	17	16	29	29	27	26
Natural Death	1	4	3	4	3	2
Survivors						
Moribund Sacrifice	1	2	7	3	5	9
Natural Death				2		
Terminal Sacrifice	7	4	11	12	13	13
Animals Examined Microscopically	26	26	50	50	48	50

ALIMENTARY SYSTEM

Esophagus	(19)	(22)	(38)	(38)	(35)	(37)
Dilatation						
Ulcer						
Periesophageal Tissue, Foreign Body						
Periesophageal Tissue, Inflammation, Granulomatous						
Intestine Large, Cecum	(0)	(0)	(0)	(0)	(0)	(0)
Fibrosis						
Inflammation, Chronic Active						
Necrosis						
Perforation						
Intestine Large, Colon	(19)	(21)	(38)	(34)	(33)	(35)
Dilatation						
Intestine Small, Duodenum	(0)	(1)	(0)	(0)	(0)	(0)
Fibrosis		1 (100%)				
Intestine Small, Ileum	(19)	(18)	(36)	(34)	(31)	(35)
Diverticulum						
Foreign Body						
Inflammation, Chronic Active						
Epithelium, Hyperplasia						
Intestine Small, Jejunum	(0)	(2)	(1)	(2)	(0)	(0)
Dilatation		1 (50%)				

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Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 0.05 EE2 F	F1 0.50 EE2 F	F1 Veh. StDose F	F1 2.5 StDose F	F1 25.0 StDose F	F1 250.0StDose F
Diverticulum						
Fibrosis		1 (50%)				
Inflammation, Chronic Active		1 (50%)				
Metaplasia, Osseous		1 (50%)				
Necrosis						
Ulcer				1 (50%)		
Epithelium, Hyperplasia		1 (50%)				
Liver	(26)	(26)	(49)	(50)	(48)	(50)
Angiectasis	1 (4%)		3 (6%)	6 (12%)	1 (2%)	5 (10%)
Basophilic Focus	12 (46%)	14 (54%)	22 (45%)	26 (52%)	25 (52%)	28 (56%)
Basophilic Focus, Multiple						
Cholangiofibrosis						
Clear Cell Focus	2 (8%)	1 (4%)	9 (18%)	10 (20%)	9 (19%)	7 (14%)
Cyst			1 (2%)	1 (2%)		
Deformity		1 (4%)				
Degeneration, Cystic	4 (15%)	2 (8%)	2 (4%)	1 (2%)	6 (13%)	5 (10%)
Eosinophilic Focus			1 (2%)	1 (2%)		
Fatty Change	5 (19%)	3 (12%)	19 (39%)	17 (34%)	17 (35%)	18 (36%)
Fibrosis						
Hematopoietic Cell Proliferation	2 (8%)		3 (6%)	1 (2%)	3 (6%)	2 (4%)
Hemorrhage					1 (2%)	1 (2%)
Hepatodiaphragmatic Nodule			2 (4%)	5 (10%)	1 (2%)	6 (12%)
Infiltration Cellular, Mononuclear Cell	17 (65%)	10 (38%)	29 (59%)	28 (56%)	33 (69%)	25 (50%)
Inflammation, Chronic						
Inflammation, Chronic Active			2 (4%)	3 (6%)	1 (2%)	3 (6%)
Mineralization		1 (4%)	1 (2%)	4 (8%)		1 (2%)
Mitotic Alteration	1 (4%)					
Mixed Cell Focus	1 (4%)	1 (4%)	1 (2%)	2 (4%)	1 (2%)	1 (2%)
Pigmentation						
Tension Lipidosis	2 (8%)	7 (27%)	4 (8%)	13 (26%)	5 (10%)	13 (26%)
Vacuolization Cytoplasmic	11 (42%)	7 (27%)	12 (24%)	19 (38%)	15 (31%)	9 (18%)
Bile Duct, Hyperplasia	8 (31%)	1 (4%)	20 (41%)	11 (22%)	18 (38%)	19 (38%)
Biliary Tract, Cyst	2 (8%)		3 (6%)	1 (2%)		1 (2%)
Biliary Tract, Cyst, Multiple			1 (2%)			
Biliary Tract, Fibrosis	3 (12%)		7 (14%)	6 (12%)	8 (17%)	7 (14%)
Capsule, Fibrosis		1 (4%)				

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 0.05 EE2 F	F1 0.50 EE2 F	F1 Veh. StDose F	F1 2.5 StDose F	F1 25.0 StDose F	F1 250.0StDose F
Capsule, Hemorrhage						
Capsule, Inflammation, Chronic Active						
Hepatocyte, Degeneration			1 (2%)			
Hepatocyte, Necrosis	1 (4%)		1 (2%)	3 (6%)	1 (2%)	3 (6%)
Oval Cell, Hyperplasia	1 (4%)		1 (2%)	1 (2%)		1 (2%)
Mesentery	(2)	(1)	(2)	(3)	(1)	(2)
Fat, Degeneration, Cystic						
Fat, Infiltration Cellular, Lymphocyte						
Fat, Inflammation, Granulomatous		1 (100%)				
Fat, Inflammation, Chronic						
Fat, Necrosis	1 (50%)	1 (100%)	2 (100%)	3 (100%)		2 (100%)
Oral Mucosa	(0)	(0)	(1)	(0)	(1)	(0)
Pancreas	(26)	(26)	(49)	(49)	(47)	(49)
Basophilic Focus	3 (12%)		2 (4%)	2 (4%)		
Infiltration Cellular, Lymphocyte	18 (69%)	13 (50%)	32 (65%)	32 (65%)	27 (57%)	28 (57%)
Inflammation, Chronic Active		1 (4%)	4 (8%)	1 (2%)	1 (2%)	1 (2%)
Lipomatosis	1 (4%)		3 (6%)	6 (12%)	7 (15%)	4 (8%)
Necrosis						
Pigmentation	4 (15%)	5 (19%)	15 (31%)	13 (27%)	6 (13%)	8 (16%)
Polyarteritis			1 (2%)			
Acinar Cell, Hyperplasia		2 (8%)				
Acinus, Degeneration	18 (69%)	16 (62%)	36 (73%)	34 (69%)	34 (72%)	35 (71%)
Artery, Fibrosis			1 (2%)			
Artery, Inflammation, Chronic Active			1 (2%)			
Artery, Mineralization			1 (2%)			
Stomach, Forestomach	(19)	(22)	(38)	(38)	(35)	(37)
Cyst Epithelial Inclusion						
Edema						
Inflammation, Chronic Active						
Necrosis						
Ulcer						
Epithelium, Hyperplasia				1 (3%)		
Stomach, Glandular	(19)	(21)	(38)	(36)	(33)	(37)
Cyst Epithelial Inclusion				1 (3%)		
Diverticulum						
Edema	1 (5%)					

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 0.05 EE2 F	F1 0.50 EE2 F	F1 Veh. StDose F	F1 2.5 StDose F	F1 25.0 StDose F	F1 250.0StDose F
Inflammation, Chronic Active Mineralization	1 (5%)		1 (3%)			1 (3%)
Pigmentation						1 (3%)
Polyarteritis Epithelium, Hyperplasia						1 (3%)
Tongue	(0)	(1)	(0)	(0)	(0)	(0)
Ulcer		1 (100%)				
CARDIOVASCULAR SYSTEM						
Blood Vessel	(26)	(26)	(50)	(50)	(48)	(50)
Mineralization			1 (2%)			
Intima, Inflammation, Chronic Intima, Proliferation						
Heart	(26)	(26)	(50)	(50)	(48)	(50)
Cardiomyopathy	19 (73%)	22 (85%)	32 (64%)	37 (74%)	38 (79%)	37 (74%)
Inflammation, Chronic Active Metaplasia, Osseous						
Mineralization			2 (4%)			1 (2%)
Polyarteritis					1 (2%)	
Thrombosis						
Myocardium, Necrosis						
ENDOCRINE SYSTEM						
Adrenal Cortex	(26)	(26)	(49)	(49)	(48)	(50)
Accessory Adrenal Cortical Nodule			1 (2%)			
Angiectasis	3 (12%)	9 (35%)	6 (12%)	10 (20%)	8 (17%)	2 (4%)
Atrophy						
Cyst			1 (2%)			
Degeneration, Cystic	13 (50%)	22 (85%)	27 (55%)	28 (57%)	32 (67%)	32 (64%)
Fibrosis		1 (4%)				
Hemorrhage		1 (4%)	1 (2%)		1 (2%)	
Hyperplasia	4 (15%)	1 (4%)	3 (6%)	5 (10%)	4 (8%)	7 (14%)
Hypertrophy	1 (4%)	2 (8%)	1 (2%)		1 (2%)	2 (4%)

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 0.05 EE2 F	F1 0.50 EE2 F	F1 Veh. StDose F	F1 2.5 StDose F	F1 25.0 StDose F	F1 250.0StDose F
Metaplasia, Osseous		1 (4%)				1 (2%)
Necrosis	1 (4%)					
Pigmentation		2 (8%)			1 (2%)	1 (2%)
Vacuolization Cytoplasmic	3 (12%)	1 (4%)	4 (8%)	3 (6%)	3 (6%)	6 (12%)
Capsule, Fibrosis						
Adrenal Medulla	(26)	(26)	(49)	(50)	(48)	(48)
Cyst						
Degeneration, Cystic						
Hyperplasia	2 (8%)	8 (31%)	7 (14%)	5 (10%)	4 (8%)	8 (17%)
Hypertrophy						
Islets, Pancreatic	(26)	(26)	(49)	(50)	(48)	(49)
Hyperplasia			1 (2%)		1 (2%)	1 (2%)
Parathyroid Gland	(26)	(26)	(45)	(49)	(47)	(47)
Hyperplasia	3 (12%)	2 (8%)	5 (11%)	3 (6%)	8 (17%)	7 (15%)
Pituitary Gland	(26)	(26)	(49)	(50)	(48)	(50)
Angiectasis	5 (19%)	17 (65%)	12 (24%)	11 (22%)	8 (17%)	12 (24%)
Fibrosis						
Hemorrhage		3 (12%)		2 (4%)		1 (2%)
Necrosis						1 (2%)
Pigmentation				1 (2%)	1 (2%)	
Pars Distalis, Cyst	3 (12%)	2 (8%)	4 (8%)	6 (12%)	10 (21%)	3 (6%)
Pars Distalis, Hyperplasia	16 (62%)	6 (23%)	25 (51%)	32 (64%)	34 (71%)	26 (52%)
Pars Distalis, Hypertrophy				2 (4%)		3 (6%)
Pars Distalis, Vacuolization Cytoplasmic						
Pars Intermedia, Cyst						2 (4%)
Pars Intermedia, Vacuolization Cytoplasmic						
Rathke's Cleft, Cyst						
Thyroid Gland	(26)	(25)	(48)	(49)	(45)	(48)
Angiectasis						
Fibrosis						
Infiltration Cellular, Lymphocyte						
Inflammation, Chronic Active						1 (2%)
Ultimobranchial Cyst	5 (19%)	8 (32%)	2 (4%)	7 (14%)	2 (4%)	9 (19%)
C-cell, Hyperplasia	7 (27%)	9 (36%)	26 (54%)	29 (59%)	17 (38%)	23 (48%)
Follicular Cell, Cyst						
Follicular Cell, Hyperplasia	4 (15%)		4 (8%)	4 (8%)	7 (16%)	6 (13%)

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 0.05 EE2 F	F1 0.50 EE2 F	F1 Veh. StDose F	F1 2.5 StDose F	F1 25.0 StDose F	F1 250.0StDose F
GENERAL BODY SYSTEM						
Tissue NOS	(2)	(0)	(1)	(0)	(0)	(0)
Metaplasia, Osseous						
GENITAL SYSTEM						
Clitoral Gland	(2)	(6)	(6)	(6)	(6)	(8)
Atrophy			1 (17%)			
Fibrosis						
Hyperkeratosis	1 (50%)		2 (33%)	1 (17%)	3 (50%)	5 (63%)
Infiltration Cellular, Plasma Cell						1 (13%)
Inflammation, Suppurative	1 (50%)	4 (67%)	5 (83%)	3 (50%)	6 (100%)	4 (50%)
Inflammation, Chronic Active				1 (17%)		1 (13%)
Duct, Dilatation	2 (100%)	6 (100%)	5 (83%)	6 (100%)	6 (100%)	8 (100%)
Fat Pad, Ovarian/parametrial	(0)	(0)	(0)	(0)	(0)	(0)
Necrosis						
Ovary	(26)	(26)	(49)	(49)	(47)	(50)
Angiectasis						
Atrophy	25 (96%)	26 (100%)	47 (96%)	48 (98%)	46 (98%)	50 (100%)
Cyst	5 (19%)	5 (19%)	6 (12%)	8 (16%)	5 (11%)	9 (18%)
Hyperplasia, Sertoliform	3 (12%)	3 (12%)	6 (12%)	4 (8%)	5 (11%)	6 (12%)
Hyperplasia, Tubulostromal			1 (2%)			
Infiltration Cellular, Polymorphonuclear						
Pigmentation						
Polyarteritis						
Bilateral, Cyst					2 (4%)	
Bilateral, Follicle, Cyst			1 (2%)	2 (4%)	2 (4%)	1 (2%)
Bursa, Cyst	1 (4%)	2 (8%)	1 (2%)	2 (4%)		2 (4%)
Corpus Luteum, Hypertrophy						
Follicle, Cyst		3 (12%)	4 (8%)	4 (8%)	2 (4%)	1 (2%)
Granulosa Cell, Hyperplasia		1 (4%)	2 (4%)	2 (4%)	1 (2%)	
Interstitial Cell, Hyperplasia				1 (2%)		
Rete Ovarii, Hyperplasia			1 (2%)			

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 0.05 EE2 F	F1 0.50 EE2 F	F1 Veh. StDose F	F1 2.5 StDose F	F1 25.0 StDose F	F1 250.0StDose F
Oviduct	(26)	(26)	(49)	(49)	(45)	(48)
Epithelium, Hyperplasia						
Uterus	(26)	(26)	(49)	(49)	(48)	(49)
Adenomyosis						
Atrophy	1 (4%)	9 (35%)	10 (20%)	6 (12%)	4 (8%)	7 (14%)
Cyst						
Dilatation					1 (2%)	1 (2%)
Hemorrhage	1 (4%)				1 (2%)	
Hyperplasia, Stromal	1 (4%)					
Infiltration Cellular, Polymorphonuclear	1 (4%)					1 (2%)
Inflammation, Suppurative					1 (2%)	
Metaplasia, Squamous	2 (8%)	4 (15%)	5 (10%)	1 (2%)	2 (4%)	2 (4%)
Cervix, Cyst, Squamous			1 (2%)			
Cervix, Hyperplasia, Stromal						
Endometrial Glands, Hyperplasia	2 (8%)	1 (4%)	1 (2%)			1 (2%)
Endometrium, Cyst		2 (8%)	1 (2%)		2 (4%)	
Endometrium, Degeneration					1 (2%)	
Endometrium, Hyperplasia	10 (38%)	2 (8%)	18 (37%)	14 (29%)	17 (35%)	14 (29%)
Endometrium, Hyperplasia, Cystic	14 (54%)	14 (54%)	18 (37%)	23 (47%)	22 (46%)	25 (51%)
Lumen, Dilatation	2 (8%)	3 (12%)	3 (6%)	6 (12%)	2 (4%)	4 (8%)
Stroma, Fibrosis					1 (2%)	
Vagina	(26)	(26)	(49)	(50)	(47)	(49)
Atrophy		3 (12%)	2 (4%)		2 (4%)	
Cyst, Squamous						
Foreign Body						
Hemorrhage						
Infiltration Cellular, Polymorphonuclear	3 (12%)	2 (8%)	8 (16%)	4 (8%)	6 (13%)	3 (6%)
Inflammation, Chronic Active						
Epithelium, Degeneration	1 (4%)	2 (8%)	5 (10%)	4 (8%)	5 (11%)	2 (4%)
Epithelium, Hyperplasia	5 (19%)	2 (8%)	6 (12%)	10 (20%)	3 (6%)	7 (14%)
Epithelium, Mucification	21 (81%)	23 (88%)	40 (82%)	46 (92%)	37 (79%)	44 (90%)
Lumen, Dilatation			1 (2%)			

HEMATOPOIETIC SYSTEM

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 0.05 EE2 F	F1 0.50 EE2 F	F1 Veh. StDose F	F1 2.5 StDose F	F1 25.0 StDose F	F1 250.0StDose F
Bone Marrow	(26)	(26)	(49)	(49)	(47)	(49)
Hypocellularity	1 (4%)	1 (4%)	1 (2%)	3 (6%)	1 (2%)	2 (4%)
Myeloid Cell, Hyperplasia		2 (8%)			1 (2%)	
Lymph Node	(4)	(3)	(9)	(6)	(3)	(10)
Degeneration, Cystic						
Axillary, Degeneration, Cystic						
Axillary, Hyperplasia, Lymphoid						
Axillary, Infiltration Cellular, Plasma Cell						
Iliac, Degeneration, Cystic					1 (33%)	
Iliac, Hyperplasia, Lymphoid					1 (33%)	
Iliac, Infiltration Cellular, Plasma Cell		1 (33%)			1 (33%)	
Inguinal, Infiltration Cellular, Plasma Cell						
Lumbar, Degeneration, Cystic	4 (100%)		2 (22%)	1 (17%)	2 (67%)	4 (40%)
Lumbar, Hyperplasia, Lymphoid	4 (100%)	1 (33%)	4 (44%)	5 (83%)		5 (50%)
Lumbar, Infiltration Cellular, Plasma Cell	4 (100%)	1 (33%)	4 (44%)	5 (83%)	1 (33%)	8 (80%)
Mediastinal, Degeneration, Cystic	1 (25%)					
Mediastinal, Hemorrhage	1 (25%)					
Mediastinal, Hyperplasia, Lymphoid	1 (25%)		1 (11%)			
Mediastinal, Pigmentation						
Pancreatic, Degeneration, Cystic						
Pancreatic, Hyperplasia, Lymphoid			1 (11%)			
Pancreatic, Infiltration Cellular, Histiocyte			1 (11%)			
Popliteal, Hyperplasia, Lymphoid						1 (10%)
Popliteal, Infiltration Cellular, Plasma Cell		1 (33%)	1 (11%)			1 (10%)
Renal, Degeneration, Cystic			2 (22%)			
Renal, Hemorrhage						
Renal, Hyperplasia, Lymphoid			3 (33%)		1 (33%)	1 (10%)
Renal, Infiltration Cellular, Plasma Cell	1 (25%)		3 (33%)		1 (33%)	2 (20%)
Renal, Pigmentation						
Lymph Node, Mandibular	(0)	(1)	(4)	(5)	(3)	(8)
Degeneration, Cystic			3 (75%)	2 (40%)		5 (63%)
Hemorrhage						
Hyperplasia, Lymphoid		1 (100%)	2 (50%)	3 (60%)	2 (67%)	7 (88%)
Infiltration Cellular, Plasma Cell		1 (100%)	4 (100%)	3 (60%)	3 (100%)	7 (88%)
Necrosis						
Lymph Node, Mesenteric	(1)	(0)	(0)	(1)	(0)	(1)

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 0.05 EE2 F	F1 0.50 EE2 F	F1 Veh. StDose F	F1 2.5 StDose F	F1 25.0 StDose F	F1 250.0StDose F
Degeneration, Cystic	1 (100%)					
Hemorrhage	1 (100%)					
Histiocytosis						
Hyperplasia, Lymphoid	1 (100%)					
Infiltration Cellular, Plasma Cell						
Spleen	(26)	(26)	(49)	(50)	(47)	(49)
Bacterium						
Fibrosis						
Hematopoietic Cell Proliferation	15 (58%)	10 (38%)	32 (65%)	33 (66%)	29 (62%)	35 (71%)
Hyperplasia, Lymphoid		1 (4%)	1 (2%)			
Infiltration Cellular, Polymorphonuclear		1 (4%)				
Necrosis		1 (4%)				2 (4%)
Pigmentation	19 (73%)	26 (100%)	31 (63%)	34 (68%)	38 (81%)	35 (71%)
Polyarteritis						
Capsule, Cyst						
Capsule, Fibrosis						
Thymus	(26)	(26)	(49)	(50)	(48)	(50)
Atrophy	26 (100%)	25 (96%)	48 (98%)	48 (96%)	47 (98%)	47 (94%)
Cyst			1 (2%)	1 (2%)	1 (2%)	
Hemorrhage						
Necrosis		1 (4%)				
Polyarteritis			1 (2%)			
Epithelial Cell, Hyperplasia		1 (4%)	1 (2%)			

INTEGUMENTARY SYSTEM

Mammary Gland	(26)	(26)	(50)	(50)	(48)	(49)
Atypical Focus	2 (8%)	3 (12%)	6 (12%)	2 (4%)	6 (13%)	8 (16%)
Fibrosis		1 (4%)				
Galactocele		2 (8%)	1 (2%)			1 (2%)
Hyperplasia, Lobular	24 (92%)	23 (88%)	41 (82%)	40 (80%)	39 (81%)	39 (80%)
Infiltration Cellular, Polymorphonuclear						
Inflammation, Chronic		1 (4%)				
Metaplasia, Osseous	1 (4%)		1 (2%)			
Mineralization				1 (2%)		

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 0.05 EE2 F	F1 0.50 EE2 F	F1 Veh. StDose F	F1 2.5 StDose F	F1 25.0 StDose F	F1 250.0StDose F
Alveolus, Dilatation	5 (19%)	22 (85%)	8 (16%)	4 (8%)	4 (8%)	8 (16%)
Duct, Dilatation	6 (23%)	21 (81%)	16 (32%)	5 (10%)	9 (19%)	9 (18%)
Duct, Hyperplasia	1 (4%)					1 (2%)
Skin	(9)	(9)	(16)	(8)	(8)	(19)
Cyst Epithelial Inclusion		1 (11%)				
Hemorrhage						
Inflammation, Suppurative						
Inflammation, Granulomatous						
Inflammation, Chronic Active						
Metaplasia, Osseous						
Ulcer						
Epithelium, Hyperplasia						
Epithelium, Foot, Hyperplasia	7 (78%)	8 (89%)	13 (81%)	5 (63%)	5 (63%)	14 (74%)
Foot, Bacterium	1 (11%)					
Foot, Cyst Epithelial Inclusion						
Foot, Edema	7 (78%)	4 (44%)	7 (44%)	3 (38%)	5 (63%)	12 (63%)
Foot, Fibrosis	8 (89%)	8 (89%)	13 (81%)	5 (63%)	4 (50%)	12 (63%)
Foot, Hyperkeratosis						
Foot, Inflammation, Chronic Active	8 (89%)	8 (89%)	13 (81%)	5 (63%)	5 (63%)	14 (74%)
Foot, Necrosis	7 (78%)	6 (67%)	11 (69%)	3 (38%)	3 (38%)	14 (74%)
Foot, Ulcer	8 (89%)	7 (78%)	12 (75%)	4 (50%)	5 (63%)	14 (74%)
Subcutaneous Tissue, Fibrosis				1 (13%)		

MUSCULOSKELETAL SYSTEM

Bone	(0)	(0)	(2)	(0)	(0)	(0)
Cranium, Fracture						
Joint, Edema						
Tarsal, Fibrosis			1 (50%)			
Tarsal, Hyperostosis			1 (50%)			
Tarsal, Inflammation, Chronic Active			1 (50%)			
Tarsal, Necrosis			1 (50%)			
Tarsal, Ulcer			1 (50%)			
Bone, Femur	(26)	(26)	(50)	(50)	(48)	(50)
Fibrous Osteodystrophy			1 (2%)			

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 0.05 EE2 F	F1 0.50 EE2 F	F1 Veh. StDose F	F1 2.5 StDose F	F1 25.0 StDose F	F1 250.0StDose F
Osteopetrosis		1 (4%)				
Skeletal Muscle	(0)	(3)	(0)	(0)	(0)	(1)
Diaphragm, Hernia						
NERVOUS SYSTEM						
Brain, Brain Stem	(26)	(26)	(49)	(50)	(48)	(50)
Compression	6 (23%)	19 (73%)	15 (31%)	14 (28%)	11 (23%)	11 (22%)
Gliosis		1 (4%)				
Hemorrhage	1 (4%)	5 (19%)		2 (4%)		1 (2%)
Necrosis						1 (2%)
Polyarteritis						
Brain, Cerebellum	(26)	(26)	(49)	(50)	(48)	(50)
Hemorrhage		1 (4%)				
Brain, Cerebrum	(26)	(26)	(49)	(50)	(48)	(50)
Cyst						
Hemorrhage						
Ventricle, Dilatation	2 (8%)	8 (31%)	5 (10%)	5 (10%)	3 (6%)	2 (4%)
Nerve Trigeminal	(5)	(4)	(1)	(3)	(0)	(3)
Axon, Degeneration	3 (60%)	1 (25%)		2 (67%)		2 (67%)
Peripheral Nerve, Sciatic	(5)	(4)	(1)	(3)	(0)	(3)
Peripheral Nerve, Tibial	(5)	(4)	(1)	(3)	(0)	(3)
Axon, Degeneration						
Spinal Cord, Cervical	(5)	(4)	(1)	(3)	(0)	(3)
Mineralization						
Axon, Degeneration				1 (33%)		
Spinal Cord, Lumbar	(5)	(4)	(1)	(3)	(0)	(3)
Axon, Degeneration	4 (80%)	1 (25%)		3 (100%)		2 (67%)
Spinal Cord, Thoracic	(5)	(4)	(1)	(3)	(0)	(3)
Mineralization						
Axon, Degeneration				1 (33%)		
RESPIRATORY SYSTEM						
Lung	(21)	(22)	(40)	(40)	(39)	(40)

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 0.05 EE2 F	F1 0.50 EE2 F	F1 Veh. StDose F	F1 2.5 StDose F	F1 25.0 StDose F	F1 250.0StDose F
Congestion			2 (5%)	1 (3%)		
Fibrosis						1 (3%)
Foreign Body		1 (5%)		1 (3%)	1 (3%)	1 (3%)
Hemorrhage	1 (5%)		1 (3%)			1 (3%)
Infiltration Cellular, Histiocyte	4 (19%)	4 (18%)	7 (18%)	5 (13%)	11 (28%)	11 (28%)
Infiltration Cellular, Lymphocyte					1 (3%)	
Inflammation, Suppurative						
Inflammation, Granulomatous	1 (5%)	1 (5%)			1 (3%)	
Inflammation, Chronic						
Inflammation, Chronic Active				1 (3%)		1 (3%)
Metaplasia, Osseous	1 (5%)			2 (5%)		
Mineralization						
Necrosis						
Pigmentation						1 (3%)
Alveolar Epithelium, Hyperplasia	1 (5%)				1 (3%)	2 (5%)
Bronchiole, Epithelium, Hyperplasia		1 (5%)				
Mediastinum, Foreign Body						1 (3%)
Mediastinum, Inflammation, Chronic						1 (3%)
Mediastinum, Necrosis						1 (3%)
Nose	(19)	(22)	(38)	(36)	(35)	(37)
Autolysis						
Fibrosis						1 (3%)
Fibrous Osteodystrophy						
Foreign Body					1 (3%)	4 (11%)
Hemorrhage						
Inflammation, Suppurative					1 (3%)	3 (8%)
Inflammation, Chronic Active		1 (5%)				1 (3%)
Osteopetrosis		1 (5%)				
Olfactory Epithelium, Accumulation, Hyaline Droplet	3 (16%)	7 (32%)	7 (18%)	11 (31%)	6 (17%)	7 (19%)
Respiratory Epithelium, Accumulation, Hyaline Droplet		3 (14%)	1 (3%)	1 (3%)	3 (9%)	2 (5%)
Respiratory Epithelium, Hyperplasia						
Respiratory Epithelium, Hyperplasia, Goblet Cell		2 (9%)	1 (3%)	1 (3%)		1 (3%)
Respiratory Epithelium, Ulcer						1 (3%)

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Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

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

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 0.05 EE2 F	F1 0.50 EE2 F	F1 Veh. StDose F	F1 2.5 StDose F	F1 25.0 StDose F	F1 250.0StDose F
Transitional Epithelium, Accumulation, Hyaline Droplet		1 (5%)			1 (3%)	1 (3%)
Upper Molar, Inflammation, Chronic Active			1 (3%)		1 (3%)	1 (3%)
Trachea	(19)	(20)	(38)	(36)	(33)	(35)
Infiltration Cellular, Lymphocyte Inflammation, Chronic Active		1 (5%)		1 (3%)		

SPECIAL SENSES SYSTEM

Ear	(0)	(0)	(0)	(0)	(0)	(0)
Eye	(0)	(0)	(0)	(0)	(0)	(0)
Cataract						
Anterior Chamber, Edema						
Cornea, Edema						
Retina, Degeneration						
Zymbal's Gland	(1)	(0)	(0)	(1)	(0)	(0)
Abscess	1 (100%)					
Inflammation, Suppurative				1 (100%)		
Thrombosis						
Duct, Dilatation				1 (100%)		

URINARY SYSTEM

Kidney	(26)	(26)	(49)	(50)	(47)	(49)
Accumulation, Hyaline Droplet				2 (4%)		
Angiectasis	1 (4%)					
Casts Protein	3 (12%)	2 (8%)	5 (10%)	5 (10%)	5 (11%)	7 (14%)
Cyst	1 (4%)					
Fibrosis						
Infarct					1 (2%)	
Infiltration Cellular, Lymphocyte				1 (2%)		
Infiltration Cellular, Mononuclear Cell				1 (2%)		
Infiltration Cellular, Polymorphonuclear		1 (4%)		1 (2%)		1 (2%)
Mineralization	10 (38%)	17 (65%)	28 (57%)	22 (44%)	28 (60%)	26 (53%)
Nephropathy	14 (54%)	15 (58%)	28 (57%)	25 (50%)	25 (53%)	29 (59%)

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Experiment Number: 10034 - 04

Test Type: CHRONIC

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Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

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

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 0.05 EE2 F	F1 0.50 EE2 F	F1 Veh. StDose F	F1 2.5 StDose F	F1 25.0 StDose F	F1 250.0StDose F
Polyarteritis						
Polycystic Kidney						
Capsule, Fibrosis						
Capsule, Inflammation, Chronic Active						
Cortex, Cyst	7 (27%)	2 (8%)	7 (14%)	10 (20%)	9 (19%)	7 (14%)
Pelvis, Dilatation	1 (4%)			1 (2%)		
Renal Tubule, Cyst	5 (19%)	6 (23%)	7 (14%)	15 (30%)	11 (23%)	8 (16%)
Renal Tubule, Dilatation	1 (4%)					
Renal Tubule, Necrosis						
Renal Tubule, Vacuolization Cytoplasmic						
Transitional Epithelium, Hyperplasia	5 (19%)	9 (35%)	5 (10%)	6 (12%)	2 (4%)	5 (10%)
Urinary Bladder	(1)	(0)	(0)	(1)	(0)	(0)
Congestion						
Edema						
Hemorrhage	1 (100%)					
Lumen, Dilatation				1 (100%)		

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

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
 Bisphenol A
 CAS Number: 80-05-7

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

Sprague Dawley (NCTR) RATS FEMALE	F1 2500.StDose F	F1 25000StDose F
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Disposition Summary

Animals Initially In Study	50	46
Early Deaths		
Moribund Sacrifice	26	25
Natural Death	3	2
Survivors		
Moribund Sacrifice	4	6
Natural Death		
Terminal Sacrifice	17	13
Animals Examined Microscopically	50	46

ALIMENTARY SYSTEM

Esophagus	(33)	(33)
Dilatation	1 (3%)	
Ulcer	1 (3%)	
Periesophageal Tissue, Foreign Body	1 (3%)	
Periesophageal Tissue, Inflammation, Granulomatous	1 (3%)	
Intestine Large, Cecum	(0)	(0)
Fibrosis		
Inflammation, Chronic Active		
Necrosis		
Perforation		
Intestine Large, Colon	(32)	(33)
Dilatation		
Intestine Small, Duodenum	(0)	(0)
Fibrosis		
Intestine Small, Ileum	(30)	(33)
Diverticulum	1 (3%)	
Foreign Body		
Inflammation, Chronic Active		
Epithelium, Hyperplasia		
Intestine Small, Jejunum	(0)	(0)
Dilatation		

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Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 2500.StDose F	F1 25000StDose F
Diverticulum		
Fibrosis		
Inflammation, Chronic Active		
Metaplasia, Osseous		
Necrosis		
Ulcer		
Epithelium, Hyperplasia		
Liver	(50)	(46)
Angiectasis	5 (10%)	3 (7%)
Basophilic Focus	22 (44%)	23 (50%)
Basophilic Focus, Multiple		
Cholangiofibrosis		
Clear Cell Focus	13 (26%)	9 (20%)
Cyst		
Deformity	1 (2%)	
Degeneration, Cystic	8 (16%)	7 (15%)
Eosinophilic Focus		1 (2%)
Fatty Change	11 (22%)	15 (33%)
Fibrosis		
Hematopoietic Cell Proliferation	4 (8%)	2 (4%)
Hemorrhage		
Hepatodiaphragmatic Nodule	3 (6%)	4 (9%)
Infiltration Cellular, Mononuclear Cell	31 (62%)	31 (67%)
Inflammation, Chronic		
Inflammation, Chronic Active		4 (9%)
Mineralization		
Mitotic Alteration		
Mixed Cell Focus		4 (9%)
Pigmentation		
Tension Lipidosis	6 (12%)	10 (22%)
Vacuolization Cytoplasmic	16 (32%)	12 (26%)
Bile Duct, Hyperplasia	18 (36%)	17 (37%)
Biliary Tract, Cyst	2 (4%)	
Biliary Tract, Cyst, Multiple		
Biliary Tract, Fibrosis	5 (10%)	8 (17%)
Capsule, Fibrosis		

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Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

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

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Sprague Dawley (NCTR) RATS FEMALE	F1 2500.StDose F	F1 25000StDose F
Capsule, Hemorrhage	1 (2%)	
Capsule, Inflammation, Chronic Active		
Hepatocyte, Degeneration		
Hepatocyte, Necrosis	1 (2%)	3 (7%)
Oval Cell, Hyperplasia	1 (2%)	1 (2%)
Mesentery	(1)	(3)
Fat, Degeneration, Cystic		
Fat, Infiltration Cellular, Lymphocyte		
Fat, Inflammation, Granulomatous		
Fat, Inflammation, Chronic		
Fat, Necrosis	1 (100%)	3 (100%)
Oral Mucosa	(0)	(1)
Pancreas	(49)	(46)
Basophilic Focus	2 (4%)	2 (4%)
Infiltration Cellular, Lymphocyte	32 (65%)	30 (65%)
Inflammation, Chronic Active	2 (4%)	2 (4%)
Lipomatosis	6 (12%)	6 (13%)
Necrosis	1 (2%)	
Pigmentation	11 (22%)	8 (17%)
Polyarteritis		
Acinar Cell, Hyperplasia	1 (2%)	
Acinus, Degeneration	34 (69%)	34 (74%)
Artery, Fibrosis		
Artery, Inflammation, Chronic Active		
Artery, Mineralization		
Stomach, Forestomach	(34)	(34)
Cyst Epithelial Inclusion		2 (6%)
Edema		1 (3%)
Inflammation, Chronic Active		
Necrosis		1 (3%)
Ulcer		
Epithelium, Hyperplasia		1 (3%)
Stomach, Glandular	(32)	(32)
Cyst Epithelial Inclusion		
Diverticulum	1 (3%)	
Edema		

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P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

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Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 2500.StDose F	F1 25000StDose F
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Inflammation, Chronic Active
Mineralization
Pigmentation
Polyarteritis
Epithelium, Hyperplasia

Tongue	(0)	(0)
Ulcer		

CARDIOVASCULAR SYSTEM

Blood Vessel	(50)	(46)
Mineralization		
Intima, Inflammation, Chronic		
Intima, Proliferation		
Heart	(50)	(46)
Cardiomyopathy	35 (70%)	35 (76%)
Inflammation, Chronic Active		
Metaplasia, Osseous		
Mineralization		
Polyarteritis		
Thrombosis		
Myocardium, Necrosis		

ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(46)
Accessory Adrenal Cortical Nodule		
Angiectasis	6 (12%)	10 (22%)
Atrophy		1 (2%)
Cyst		1 (2%)
Degeneration, Cystic	33 (66%)	25 (54%)
Fibrosis		
Hemorrhage		
Hyperplasia	3 (6%)	7 (15%)
Hypertrophy		4 (9%)

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

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

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 2500.StDose F	F1 25000StDose F
Metaplasia, Osseous		1 (2%)
Necrosis		
Pigmentation		
Vacuolization Cytoplasmic	5 (10%)	6 (13%)
Capsule, Fibrosis		
Adrenal Medulla	(50)	(45)
Cyst		
Degeneration, Cystic	1 (2%)	
Hyperplasia	8 (16%)	5 (11%)
Hypertrophy		
Islets, Pancreatic	(49)	(46)
Hyperplasia		2 (4%)
Parathyroid Gland	(47)	(46)
Hyperplasia	5 (11%)	7 (15%)
Pituitary Gland	(50)	(46)
Angiectasis	14 (28%)	11 (24%)
Fibrosis		1 (2%)
Hemorrhage	1 (2%)	
Necrosis		
Pigmentation		
Pars Distalis, Cyst	5 (10%)	4 (9%)
Pars Distalis, Hyperplasia	28 (56%)	21 (46%)
Pars Distalis, Hypertrophy		
Pars Distalis, Vacuolization Cytoplasmic		1 (2%)
Pars Intermedia, Cyst		
Pars Intermedia, Vacuolization Cytoplasmic	1 (2%)	
Rathke's Cleft, Cyst	1 (2%)	
Thyroid Gland	(50)	(46)
Angiectasis		
Fibrosis		
Infiltration Cellular, Lymphocyte		
Inflammation, Chronic Active		
Ultimobranchial Cyst	11 (22%)	3 (7%)
C-cell, Hyperplasia	28 (56%)	24 (52%)
Follicular Cell, Cyst		1 (2%)
Follicular Cell, Hyperplasia	5 (10%)	4 (9%)

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

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
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Sprague Dawley (NCTR) RATS FEMALE	F1 2500.StDose F	F1 25000StDose F
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GENERAL BODY SYSTEM

Tissue NOS	(0)	(1)
Metaplasia, Osseous		

GENITAL SYSTEM

Clitoral Gland	(6)	(7)
Atrophy		
Fibrosis		
Hyperkeratosis	3 (50%)	2 (29%)
Infiltration Cellular, Plasma Cell		
Inflammation, Suppurative	5 (83%)	5 (71%)
Inflammation, Chronic Active		
Duct, Dilatation	6 (100%)	6 (86%)
Fat Pad, Ovarian/parametrial	(1)	(0)
Necrosis	1 (100%)	
Ovary	(50)	(46)
Angiectasis		1 (2%)
Atrophy	49 (98%)	44 (96%)
Cyst	5 (10%)	6 (13%)
Hyperplasia, Sertoliform	7 (14%)	6 (13%)
Hyperplasia, Tubulostromal		
Infiltration Cellular, Polymorphonuclear	1 (2%)	
Pigmentation		
Polyarteritis		
Bilateral, Cyst	1 (2%)	
Bilateral, Follicle, Cyst		1 (2%)
Bursa, Cyst		
Corpus Luteum, Hypertrophy		
Follicle, Cyst	2 (4%)	4 (9%)
Granulosa Cell, Hyperplasia		2 (4%)
Interstitial Cell, Hyperplasia		
Rete Ovarii, Hyperplasia		

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Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

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Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 2500.StDose F	F1 25000StDose F
Oviduct	(49)	(46)
Epithelium, Hyperplasia		
Uterus	(49)	(46)
Adenomyosis	1 (2%)	1 (2%)
Atrophy	7 (14%)	9 (20%)
Cyst		
Dilatation	1 (2%)	1 (2%)
Hemorrhage		
Hyperplasia, Stromal	1 (2%)	
Infiltration Cellular, Polymorphonuclear		
Inflammation, Suppurative		
Metaplasia, Squamous	4 (8%)	3 (7%)
Cervix, Cyst, Squamous		
Cervix, Hyperplasia, Stromal	1 (2%)	
Endometrial Glands, Hyperplasia	1 (2%)	2 (4%)
Endometrium, Cyst		2 (4%)
Endometrium, Degeneration		
Endometrium, Hyperplasia	12 (24%)	10 (22%)
Endometrium, Hyperplasia, Cystic	28 (57%)	24 (52%)
Lumen, Dilatation	2 (4%)	
Stroma, Fibrosis		
Vagina	(49)	(46)
Atrophy	1 (2%)	2 (4%)
Cyst, Squamous		
Foreign Body		
Hemorrhage		
Infiltration Cellular, Polymorphonuclear	13 (27%)	8 (17%)
Inflammation, Chronic Active		
Epithelium, Degeneration	5 (10%)	3 (7%)
Epithelium, Hyperplasia	7 (14%)	7 (15%)
Epithelium, Mucification	39 (80%)	34 (74%)
Lumen, Dilatation	1 (2%)	1 (2%)

HEMATOPOIETIC SYSTEM

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Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

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Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 2500.StDose F	F1 25000StDose F
Bone Marrow	(49)	(45)
Hypocellularity	2 (4%)	3 (7%)
Myeloid Cell, Hyperplasia	2 (4%)	
Lymph Node	(4)	(11)
Degeneration, Cystic		
Axillary, Degeneration, Cystic		1 (9%)
Axillary, Hyperplasia, Lymphoid		1 (9%)
Axillary, Infiltration Cellular, Plasma Cell		1 (9%)
Iliac, Degeneration, Cystic		
Iliac, Hyperplasia, Lymphoid		
Iliac, Infiltration Cellular, Plasma Cell		
Inguinal, Infiltration Cellular, Plasma Cell		
Lumbar, Degeneration, Cystic	2 (50%)	3 (27%)
Lumbar, Hyperplasia, Lymphoid	2 (50%)	6 (55%)
Lumbar, Infiltration Cellular, Plasma Cell	3 (75%)	5 (45%)
Mediastinal, Degeneration, Cystic		
Mediastinal, Hemorrhage		
Mediastinal, Hyperplasia, Lymphoid		
Mediastinal, Pigmentation		
Pancreatic, Degeneration, Cystic		
Pancreatic, Hyperplasia, Lymphoid		
Pancreatic, Infiltration Cellular, Histiocyte		
Popliteal, Hyperplasia, Lymphoid		
Popliteal, Infiltration Cellular, Plasma Cell		
Renal, Degeneration, Cystic		2 (18%)
Renal, Hemorrhage		
Renal, Hyperplasia, Lymphoid		
Renal, Infiltration Cellular, Plasma Cell	1 (25%)	
Renal, Pigmentation		1 (9%)
Lymph Node, Mandibular	(6)	(5)
Degeneration, Cystic	3 (50%)	3 (60%)
Hemorrhage		
Hyperplasia, Lymphoid	3 (50%)	2 (40%)
Infiltration Cellular, Plasma Cell	4 (67%)	2 (40%)
Necrosis		
Lymph Node, Mesenteric	(0)	(2)

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Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

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Bisphenol A

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

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 2500.StDose F	F1 25000StDose F
Degeneration, Cystic		
Hemorrhage		
Histiocytosis		
Hyperplasia, Lymphoid		
Infiltration Cellular, Plasma Cell		
Spleen	(49)	(46)
Bacterium		
Fibrosis		1 (2%)
Hematopoietic Cell Proliferation	31 (63%)	32 (70%)
Hyperplasia, Lymphoid		1 (2%)
Infiltration Cellular, Polymorphonuclear		
Necrosis	1 (2%)	1 (2%)
Pigmentation	32 (65%)	32 (70%)
Polyarteritis		1 (2%)
Capsule, Cyst	1 (2%)	
Capsule, Fibrosis		
Thymus	(49)	(46)
Atrophy	47 (96%)	42 (91%)
Cyst	1 (2%)	
Hemorrhage		
Necrosis		
Polyarteritis		
Epithelial Cell, Hyperplasia	1 (2%)	1 (2%)

INTEGUMENTARY SYSTEM

Mammary Gland	(50)	(46)
Atypical Focus	7 (14%)	5 (11%)
Fibrosis		
Galactocele		
Hyperplasia, Lobular	36 (72%)	38 (83%)
Infiltration Cellular, Polymorphonuclear		
Inflammation, Chronic		
Metaplasia, Osseous		
Mineralization		

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10034 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Sprague Dawley (NCTR)

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Bisphenol A

CAS Number: 80-05-7

Date Report Requested: 08/16/2017

Time Report Requested: 10:21:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 2500.StDose F	F1 25000StDose F
Alveolus, Dilatation	3 (6%)	7 (15%)
Duct, Dilatation	7 (14%)	11 (24%)
Duct, Hyperplasia	1 (2%)	1 (2%)
Skin	(16)	(12)
Cyst Epithelial Inclusion		
Hemorrhage		
Inflammation, Suppurative	1 (6%)	
Inflammation, Granulomatous	1 (6%)	
Inflammation, Chronic Active		
Metaplasia, Osseous	1 (6%)	
Ulcer	1 (6%)	
Epithelium, Hyperplasia		
Epithelium, Foot, Hyperplasia	10 (63%)	10 (83%)
Foot, Bacterium		
Foot, Cyst Epithelial Inclusion		1 (8%)
Foot, Edema	8 (50%)	6 (50%)
Foot, Fibrosis	10 (63%)	11 (92%)
Foot, Hyperkeratosis		
Foot, Inflammation, Chronic Active	10 (63%)	11 (92%)
Foot, Necrosis	7 (44%)	6 (50%)
Foot, Ulcer	10 (63%)	9 (75%)
Subcutaneous Tissue, Fibrosis		

MUSCULOSKELETAL SYSTEM

Bone	(0)	(0)
Cranium, Fracture		
Joint, Edema		
Tarsal, Fibrosis		
Tarsal, Hyperostosis		
Tarsal, Inflammation, Chronic Active		
Tarsal, Necrosis		
Tarsal, Ulcer		
Bone, Femur	(50)	(46)
Fibrous Osteodystrophy		

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Sprague Dawley (NCTR)
RATS FEMALE

F1 2500.StDose F

F1 25000StDose F

Osteopetrosis		1 (2%)
Skeletal Muscle	(0)	(2)
Diaphragm, Hernia		

NERVOUS SYSTEM

Brain, Brain Stem	(50)	(46)
Compression	17 (34%)	14 (30%)
Gliosis		
Hemorrhage	2 (4%)	1 (2%)
Necrosis		
Polyarteritis		
Brain, Cerebellum	(50)	(46)
Hemorrhage	1 (2%)	
Brain, Cerebrum	(50)	(46)
Cyst		
Hemorrhage		2 (4%)
Ventricle, Dilatation	5 (10%)	6 (13%)
Nerve Trigeminal	(3)	(4)
Axon, Degeneration	3 (100%)	2 (50%)
Peripheral Nerve, Sciatic	(3)	(4)
Peripheral Nerve, Tibial	(3)	(4)
Axon, Degeneration		
Spinal Cord, Cervical	(3)	(4)
Mineralization		
Axon, Degeneration	1 (33%)	
Spinal Cord, Lumbar	(3)	(4)
Axon, Degeneration	2 (67%)	1 (25%)
Spinal Cord, Thoracic	(3)	(4)
Mineralization		
Axon, Degeneration	1 (33%)	

RESPIRATORY SYSTEM

Lung	(39)	(37)
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Sprague Dawley (NCTR) RATS FEMALE	F1 2500.StDose F	F1 25000StDose F
Congestion		
Fibrosis	1 (3%)	
Foreign Body		
Hemorrhage	2 (5%)	
Infiltration Cellular, Histiocyte	10 (26%)	7 (19%)
Infiltration Cellular, Lymphocyte		
Inflammation, Suppurative	1 (3%)	1 (3%)
Inflammation, Granulomatous		
Inflammation, Chronic	1 (3%)	2 (5%)
Inflammation, Chronic Active		
Metaplasia, Osseous	2 (5%)	
Mineralization		
Necrosis		
Pigmentation		
Alveolar Epithelium, Hyperplasia	1 (3%)	3 (8%)
Bronchiole, Epithelium, Hyperplasia		
Mediastinum, Foreign Body		
Mediastinum, Inflammation, Chronic		
Mediastinum, Necrosis		
Nose	(32)	(33)
Autolysis		1 (3%)
Fibrosis		
Fibrous Osteodystrophy		
Foreign Body	1 (3%)	1 (3%)
Hemorrhage		1 (3%)
Inflammation, Suppurative	2 (6%)	1 (3%)
Inflammation, Chronic Active	1 (3%)	
Osteopetrosis		
Olfactory Epithelium, Accumulation, Hyaline Droplet	4 (13%)	3 (9%)
Respiratory Epithelium, Accumulation, Hyaline Droplet	1 (3%)	1 (3%)
Respiratory Epithelium, Hyperplasia		
Respiratory Epithelium, Hyperplasia, Goblet Cell	3 (9%)	1 (3%)
Respiratory Epithelium, Ulcer		

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

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
 Bisphenol A
CAS Number: 80-05-7

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Sprague Dawley (NCTR) RATS FEMALE	F1 2500.StDose F	F1 25000StDose F
Transitional Epithelium, Accumulation, Hyaline Droplet		
Upper Molar, Inflammation, Chronic Active		
Trachea	(32)	(33)
Infiltration Cellular, Lymphocyte Inflammation, Chronic Active		

SPECIAL SENSES SYSTEM

Ear	(0)	(1)
Eye	(1)	(0)
Cataract	1 (100%)	
Anterior Chamber, Edema	1 (100%)	
Cornea, Edema		
Retina, Degeneration	1 (100%)	
Zymbal's Gland	(0)	(0)
Abscess		
Inflammation, Suppurative		
Thrombosis		
Duct, Dilatation		

URINARY SYSTEM

Kidney	(50)	(46)
Accumulation, Hyaline Droplet		
Angiectasis		
Casts Protein	5 (10%)	4 (9%)
Cyst		
Fibrosis		
Infarct	1 (2%)	1 (2%)
Infiltration Cellular, Lymphocyte		
Infiltration Cellular, Mononuclear Cell		
Infiltration Cellular, Polymorphonuclear	3 (6%)	1 (2%)
Mineralization	23 (46%)	23 (50%)
Nephropathy	33 (66%)	30 (65%)

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Sprague Dawley (NCTR) RATS FEMALE	F1 2500.StDose F	F1 25000StDose F
Polyarteritis		1 (2%)
Polycystic Kidney		1 (2%)
Capsule, Fibrosis		
Capsule, Inflammation, Chronic Active		
Cortex, Cyst	8 (16%)	5 (11%)
Pelvis, Dilatation		
Renal Tubule, Cyst	16 (32%)	11 (24%)
Renal Tubule, Dilatation		
Renal Tubule, Necrosis		
Renal Tubule, Vacuolization Cytoplasmic		
Transitional Epithelium, Hyperplasia	4 (8%)	8 (17%)
Urinary Bladder	(1)	(1)
Congestion	1 (100%)	
Edema		1 (100%)
Hemorrhage		1 (100%)
Lumen, Dilatation		

*** END OF REPORT ***

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