

Experiment Number: 10034 - 03

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: 10:20:03

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

Lab: NCTR

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

Experiment Number: 10034 - 03

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: 10:20:03

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 250.0 BPA M	F1 2500.BPA M	F1 25000 BPA M
------------------------------------	----------------	--------------	---------------	----------------	---------------	----------------

Disposition Summary

Animals Initially In Study	22	22	20	24	20	22
Early Deaths						
Interval Sacrifice	18	22	18	24	18	21
Moribund Sacrifice	4		1			
Natural Death			1		2	1
Survivors						
Animals Examined Microscopically	22	22	20	24	20	22

ALIMENTARY SYSTEM

Esophagus	(4)	(1)	(2)	(0)	(2)	(1)
Foreign Body		1 (100%)	1 (50%)			
Perforation		1 (100%)	1 (50%)			
Periesophageal Tissue, Inflammation, Suppurative			1 (50%)			
Periesophageal Tissue, Inflammation, Granulomatous		1 (100%)				
Periesophageal Tissue, Necrosis			1 (50%)			
Intestine Large, Colon	(4)	(0)	(2)	(0)	(0)	(0)
Intestine Small, Ileum	(4)	(0)	(2)	(0)	(0)	(0)
Intestine Small, Jejunum	(0)	(0)	(0)	(0)	(0)	(1)
Diverticulum						
Liver	(22)	(22)	(20)	(24)	(19)	(22)
Angiectasis				1 (4%)		
Basophilic Focus	1 (5%)		3 (15%)			
Cholangiofibrosis						
Clear Cell Focus	3 (14%)	1 (5%)		1 (4%)		1 (5%)
Cyst		1 (5%)				
Deformity						
Degeneration, Cystic	2 (9%)		1 (5%)		1 (5%)	
Eosinophilic Focus	1 (5%)		1 (5%)	1 (4%)	2 (11%)	1 (5%)
Fatty Change			2 (10%)			
Hematopoietic Cell Proliferation						
Hepatodiaphragmatic Nodule		2 (9%)	2 (10%)	3 (13%)	4 (21%)	1 (5%)

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

Experiment Number: 10034 - 03

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: 10:20:03

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 250.0 BPA M	F1 2500.BPA M	F1 25000 BPA M
Infiltration Cellular, Mononuclear Cell	5 (23%)	11 (50%)	9 (45%)	13 (54%)	11 (58%)	8 (36%)
Inflammation, Granulomatous						
Inflammation, Chronic Active	1 (5%)	1 (5%)				
Mixed Cell Focus						
Pigmentation						
Polyarteritis						
Tension Lipidosis	1 (5%)		3 (15%)	3 (13%)	2 (11%)	1 (5%)
Vacuolization Cytoplasmic	8 (36%)	1 (5%)	6 (30%)	11 (46%)	8 (42%)	8 (36%)
Bile Duct, Cyst						
Bile Duct, Hyperplasia	3 (14%)	6 (27%)	2 (10%)	6 (25%)	5 (26%)	1 (5%)
Biliary Tract, Fibrosis						
Capsule, Fibrosis				1 (4%)		
Hepatocyte, Necrosis		1 (5%)		1 (4%)		
Oval Cell, Hyperplasia						
Mesentery	(1)	(0)	(1)	(1)	(0)	(0)
Fat, Fibrosis			1 (100%)			
Fat, Hemorrhage						
Fat, Inflammation, Chronic Active			1 (100%)			
Fat, Necrosis	1 (100%)		1 (100%)	1 (100%)		
Pancreas	(22)	(22)	(20)	(24)	(19)	(22)
Basophilic Focus				2 (8%)		
Cyst Multilocular						
Degeneration, Cystic				1 (4%)		
Edema						
Granuloma						1 (5%)
Infiltration Cellular, Lymphocyte				1 (4%)	1 (5%)	
Inflammation, Chronic Active	1 (5%)					
Pigmentation	8 (36%)	7 (32%)	10 (50%)	13 (54%)	7 (37%)	11 (50%)
Polyarteritis						
Acinus, Degeneration	19 (86%)	21 (95%)	17 (85%)	23 (96%)	16 (84%)	19 (86%)
Stomach, Forestomach	(5)	(0)	(3)	(0)	(1)	(1)
Cyst, Squamous	1 (20%)		1 (33%)			
Inflammation, Suppurative	1 (20%)					
Inflammation, Chronic Active	1 (20%)					
Epithelium, Hyperplasia	1 (20%)					
Stomach, Glandular	(4)	(0)	(2)	(0)	(0)	(1)

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

Experiment Number: 10034 - 03

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: 10:20:03

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 250.0 BPA M	F1 2500.BPA M	F1 25000 BPA M
------------------------------------	----------------	--------------	---------------	----------------	---------------	----------------

CARDIOVASCULAR SYSTEM

Blood Vessel	(22)	(22)	(20)	(24)	(20)	(22)
Heart	(22)	(22)	(20)	(24)	(20)	(22)
Cardiomyopathy	16 (73%)	16 (73%)	16 (80%)	18 (75%)	15 (75%)	20 (91%)
Mineralization						
Pigmentation						1 (5%)
Polyarteritis						
Ventricle, Dilatation						

ENDOCRINE SYSTEM

Adrenal Cortex	(22)	(22)	(20)	(24)	(20)	(22)
Accessory Adrenal Cortical Nodule						
Degeneration, Cystic						
Hyperplasia					1 (5%)	1 (5%)
Hypertrophy				1 (4%)		1 (5%)
Metaplasia, Osseous						
Vacuolization Cytoplasmic		3 (14%)	1 (5%)	2 (8%)		2 (9%)
Adrenal Medulla	(22)	(22)	(20)	(24)	(20)	(22)
Hyperplasia						
Islets, Pancreatic	(22)	(22)	(20)	(24)	(19)	(22)
Fibrosis						1 (5%)
Parathyroid Gland	(22)	(21)	(19)	(24)	(19)	(21)
Hyperplasia	7 (32%)	5 (24%)	7 (37%)	5 (21%)	2 (11%)	2 (10%)
Pituitary Gland	(22)	(22)	(20)	(24)	(20)	(22)
Angiectasis						
Mineralization			1 (5%)			
Vacuolization Cytoplasmic						
Pars Distalis, Cyst	1 (5%)			3 (13%)	1 (5%)	2 (9%)
Pars Distalis, Cyst Multilocular			1 (5%)			1 (5%)
Pars Distalis, Hyperplasia	4 (18%)	6 (27%)	2 (10%)	4 (17%)	2 (10%)	4 (18%)
Pars Intermedia, Cyst						1 (5%)
Rathke's Cleft, Cyst			1 (5%)			

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

Experiment Number: 10034 - 03

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: 10:20:03

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 250.0 BPA M	F1 2500.BPA M	F1 25000 BPA M
Thyroid Gland	(22)	(22)	(20)	(24)	(18)	(21)
Infiltration Cellular, Lymphocyte		1 (5%)				
Ultimobranchial Cyst	5 (23%)	4 (18%)	6 (30%)	5 (21%)	5 (28%)	7 (33%)
C-cell, Hyperplasia	10 (45%)	13 (59%)	9 (45%)	12 (50%)	7 (39%)	10 (48%)
Follicular Cell, Hyperplasia	1 (5%)	1 (5%)	2 (10%)	2 (8%)	2 (11%)	1 (5%)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Coagulating Gland	(22)	(22)	(20)	(24)	(18)	(21)
Polyarteritis						
Ductus Deferens	(0)	(0)	(0)	(0)	(0)	(0)
Lumen, Dilatation						
Epididymis	(22)	(22)	(20)	(24)	(20)	(22)
Exfoliated Germ Cell	1 (5%)	1 (5%)	1 (5%)	1 (4%)		6 (27%)
Granuloma Sperm						
Hypospermia	2 (9%)	4 (18%)	1 (5%)	2 (8%)		2 (9%)
Infiltration Cellular, Lymphocyte		1 (5%)	3 (15%)	2 (8%)		5 (23%)
Polyarteritis						
Fat Pad, Epididymal	(0)	(1)	(0)	(1)	(1)	(0)
Necrosis		1 (100%)		1 (100%)	1 (100%)	
Preputial Gland	(2)	(3)	(3)	(1)	(1)	(1)
Hyperkeratosis			1 (33%)			
Infiltration Cellular, Lymphocyte			1 (33%)			
Inflammation, Suppurative	1 (50%)	3 (100%)	2 (67%)	1 (100%)	1 (100%)	
Duct, Dilatation	2 (100%)	3 (100%)	3 (100%)	1 (100%)	1 (100%)	
Prostate, Dorsal/lateral Lobe	(22)	(22)	(20)	(24)	(20)	(22)
Corpora Amylacea						
Degeneration, Cystic						
Fibrosis						
Infiltration Cellular, Lymphocyte	4 (18%)	10 (45%)	5 (25%)	6 (25%)	5 (25%)	7 (32%)
Inflammation, Suppurative	18 (82%)	20 (91%)	18 (90%)	22 (92%)	18 (90%)	19 (86%)

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

Experiment Number: 10034 - 03

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: 10:20:03

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 250.0 BPA M	F1 2500.BPA M	F1 25000 BPA M
Prostate, Ventral Lobe	(22)	(22)	(20)	(24)	(20)	(22)
Atrophy	1 (5%)					
Fibrosis						
Infiltration Cellular, Lymphocyte	8 (36%)	10 (45%)	10 (50%)	8 (33%)	9 (45%)	8 (36%)
Inflammation, Suppurative	10 (45%)	3 (14%)	4 (20%)	5 (21%)	3 (15%)	1 (5%)
Polyarteritis						
Epithelium, Hyperplasia				1 (4%)		
Seminal Vesicle	(22)	(22)	(20)	(24)	(18)	(21)
Atrophy	1 (5%)					
Polyarteritis						
Lumen, Dilatation						
Testes	(22)	(22)	(20)	(24)	(20)	(22)
Polyarteritis						
Seminiferous Tubule, Degeneration	6 (27%)	7 (32%)	9 (45%)	10 (42%)	5 (25%)	9 (41%)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(22)	(22)	(20)	(24)	(18)	(22)
Myeloid Cell, Hyperplasia			1 (5%)		1 (6%)	
Lymph Node	(2)	(1)	(0)	(0)	(1)	(0)
Degeneration, Cystic					1 (100%)	
Mediastinal, Hyperplasia, Lymphoid						
Renal, Degeneration, Cystic		1 (100%)				
Lymph Node, Mandibular	(2)	(1)	(0)	(0)	(2)	(0)
Congestion					1 (50%)	
Degeneration, Cystic						
Hemorrhage					1 (50%)	
Hyperplasia, Lymphoid		1 (100%)			1 (50%)	
Infiltration Cellular, Plasma Cell		1 (100%)			1 (50%)	
Lymph Node, Mesenteric	(2)	(0)	(0)	(0)	(0)	(0)
Degeneration, Cystic						
Hyperplasia, Lymphoid						
Pigmentation						
Spleen	(22)	(22)	(20)	(24)	(18)	(22)
Hematopoietic Cell Proliferation						2 (9%)

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

Experiment Number: 10034 - 03

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: 10:20:03

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 250.0 BPA M	F1 2500.BPA M	F1 25000 BPA M
Hyperplasia, Lymphoid Pigmentation	15 (68%)	16 (73%)	15 (75%)	16 (67%)	15 (83%)	13 (59%)
Polyarteritis Capsule, Fibrosis Capsule, Inflammation, Chronic						
Thymus	(22)	(22)	(20)	(24)	(19)	(21)
Atrophy	18 (82%)	21 (95%)	17 (85%)	22 (92%)	17 (89%)	20 (95%)
Hemorrhage					1 (5%)	
Hyperplasia, Lymphoid						
INTEGUMENTARY SYSTEM						
Mammary Gland	(22)	(21)	(20)	(24)	(19)	(22)
Fibrosis						1 (5%)
Hyperplasia, Lobular	2 (9%)	1 (5%)		3 (13%)	1 (5%)	
Skin	(1)	(2)	(0)	(1)	(1)	(0)
Abscess						
Cyst Epithelial Inclusion		1 (50%)			1 (100%)	
Foreign Body						
Subcutaneous Tissue, Cyst				1 (100%)		
Subcutaneous Tissue, Metaplasia, Osseous		1 (50%)				
MUSCULOSKELETAL SYSTEM						
Bone	(0)	(0)	(0)	(1)	(0)	(0)
Bone, Femur	(22)	(22)	(20)	(24)	(20)	(22)
Skeletal Muscle	(1)	(0)	(1)	(0)	(0)	(0)
Foreign Body			1 (100%)			
Inflammation, Suppurative			1 (100%)			
Necrosis			1 (100%)			
NERVOUS SYSTEM						
Brain, Brain Stem	(22)	(22)	(20)	(24)	(20)	(22)

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

Experiment Number: 10034 - 03

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: 10:20:03

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 250.0 BPA M	F1 2500.BPA M	F1 25000 BPA M
Hemorrhage	1 (5%)					
Necrosis	1 (5%)					
Brain, Cerebellum	(22)	(22)	(20)	(24)	(20)	(22)
Brain, Cerebrum	(22)	(22)	(20)	(24)	(20)	(22)
Cyst						
Hemorrhage	1 (5%)					
Necrosis	1 (5%)					
Neuron, Degeneration						
Ventricle, Dilatation						
Nerve Trigeminal	(2)	(2)	(0)	(1)	(1)	(1)
Peripheral Nerve, Sciatic	(2)	(2)	(0)	(1)	(1)	(1)
Peripheral Nerve, Tibial	(2)	(2)	(0)	(1)	(1)	(1)
Spinal Cord, Cervical	(2)	(2)	(0)	(1)	(1)	(1)
Spinal Cord, Lumbar	(2)	(2)	(0)	(1)	(1)	(1)
Axon, Degeneration		1 (50%)		1 (100%)	1 (100%)	
Spinal Cord, Thoracic	(2)	(2)	(0)	(1)	(1)	(1)
RESPIRATORY SYSTEM						
Lung	(5)	(0)	(3)	(2)	(2)	(1)
Congestion	1 (20%)				1 (50%)	1 (100%)
Foreign Body	1 (20%)					
Hemorrhage			1 (33%)			
Infiltration Cellular, Histiocyte			1 (33%)	1 (50%)	1 (50%)	
Pleura, Fibrosis				1 (50%)		
Pleura, Granuloma				1 (50%)		
Nose	(4)	(0)	(2)	(0)	(0)	(0)
Autolysis						
Foreign Body			1 (50%)			
Hemorrhage			1 (50%)			
Inflammation, Suppurative			1 (50%)			
Trachea	(4)	(0)	(2)	(0)	(0)	(0)
SPECIAL SENSES SYSTEM						

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

Experiment Number: 10034 - 03
 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: 10:20:03
 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 250.0 BPA M	F1 2500.BPA M	F1 25000 BPA M
None						
URINARY SYSTEM						
Kidney	(22)	(22)	(20)	(24)	(19)	(22)
Accumulation, Hyaline Droplet	2 (9%)					
Casts Protein	2 (9%)	1 (5%)		1 (4%)		
Infiltration Cellular, Polymorphonuclear Inflammation, Chronic Active						
Nephropathy	16 (73%)	20 (91%)	18 (90%)	19 (79%)	16 (84%)	17 (77%)
Polyarteritis						
Capsule, Lipidosis						
Cortex, Cyst	4 (18%)	7 (32%)	6 (30%)	2 (8%)	4 (21%)	5 (23%)
Pelvis, Dilatation				1 (4%)	1 (5%)	
Renal Tubule, Cyst	4 (18%)	6 (27%)	9 (45%)	7 (29%)	4 (21%)	7 (32%)
Urinary Bladder	(1)	(0)	(0)	(0)	(0)	(0)
Lumen, Dilatation	1 (100%)					

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

Experiment Number: 10034 - 03
 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: 10:20:03
 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
------------------------------------	---------------	---------------	-----------------	-----------------	------------------	------------------

Disposition Summary

Animals Initially In Study	26	26	20	20	20	19
Early Deaths						
Interval Sacrifice	22	23	20	20	19	19
Moribund Sacrifice	2					
Natural Death	2	3			1	
Survivors						
Animals Examined Microscopically	26	26	20	20	20	19

ALIMENTARY SYSTEM

Esophagus	(4)	(3)	(0)	(0)	(1)	(0)
Foreign Body						
Perforation						
Periesophageal Tissue, Inflammation, Suppurative						
Periesophageal Tissue, Inflammation, Granulomatous						
Periesophageal Tissue, Necrosis						
Intestine Large, Colon	(3)	(0)	(0)	(0)	(0)	(0)
Intestine Small, Ileum	(3)	(0)	(0)	(0)	(0)	(0)
Intestine Small, Jejunum	(0)	(1)	(0)	(1)	(1)	(1)
Diverticulum		1 (100%)				
Liver	(26)	(26)	(20)	(20)	(20)	(19)
Angiectasis						
Basophilic Focus			1 (5%)	2 (10%)		
Cholangiofibrosis	1 (4%)					
Clear Cell Focus		2 (8%)	1 (5%)			
Cyst						
Deformity			1 (5%)			
Degeneration, Cystic	1 (4%)	1 (4%)	4 (20%)	4 (20%)	3 (15%)	1 (5%)
Eosinophilic Focus			1 (5%)			
Fatty Change	1 (4%)	4 (15%)		1 (5%)	1 (5%)	
Hematopoietic Cell Proliferation						
Hepatodiaphragmatic Nodule	4 (15%)	4 (15%)	1 (5%)	2 (10%)	3 (15%)	3 (16%)

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

Experiment Number: 10034 - 03

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: 10:20:03

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, Mononuclear Cell	13 (50%)	5 (19%)	11 (55%)	13 (65%)	9 (45%)	13 (68%)
Inflammation, Granulomatous					1 (5%)	
Inflammation, Chronic Active						
Mixed Cell Focus	1 (4%)					
Pigmentation				1 (5%)	1 (5%)	
Polyarteritis						
Tension Lipidosis	1 (4%)	2 (8%)	1 (5%)		3 (15%)	2 (11%)
Vacuolization Cytoplasmic	2 (8%)	4 (15%)	6 (30%)	5 (25%)	10 (50%)	5 (26%)
Bile Duct, Cyst		1 (4%)	1 (5%)			
Bile Duct, Hyperplasia	3 (12%)	4 (15%)	8 (40%)	9 (45%)	5 (25%)	5 (26%)
Biliary Tract, Fibrosis				1 (5%)		
Capsule, Fibrosis						
Hepatocyte, Necrosis				1 (5%)		
Oval Cell, Hyperplasia						
Mesentery	(0)	(0)	(2)	(0)	(1)	(0)
Fat, Fibrosis			1 (50%)			
Fat, Hemorrhage			1 (50%)			
Fat, Inflammation, Chronic Active						
Fat, Necrosis			2 (100%)		1 (100%)	
Pancreas	(26)	(25)	(20)	(20)	(20)	(19)
Basophilic Focus	1 (4%)				1 (5%)	
Cyst Multilocular	1 (4%)					
Degeneration, Cystic						
Edema				1 (5%)		
Granuloma						
Infiltration Cellular, Lymphocyte					1 (5%)	
Inflammation, Chronic Active						1 (5%)
Pigmentation	10 (38%)	8 (32%)	11 (55%)	8 (40%)	9 (45%)	8 (42%)
Polyarteritis						
Acinus, Degeneration	18 (69%)	21 (84%)	18 (90%)	19 (95%)	12 (60%)	17 (89%)
Stomach, Forestomach	(4)	(3)	(0)	(0)	(1)	(0)
Cyst, Squamous						
Inflammation, Suppurative						
Inflammation, Chronic Active						
Epithelium, Hyperplasia						
Stomach, Glandular	(4)	(1)	(0)	(0)	(1)	(0)

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

Experiment Number: 10034 - 03

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: 10:20:03

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

CARDIOVASCULAR SYSTEM

Blood Vessel	(26)	(26)	(20)	(20)	(20)	(19)
Heart	(26)	(26)	(20)	(20)	(20)	(19)
Cardiomyopathy	24 (92%)	23 (88%)	17 (85%)	20 (100%)	19 (95%)	13 (68%)
Mineralization						1 (5%)
Pigmentation						
Polyarteritis						
Ventricle, Dilatation				1 (5%)		

ENDOCRINE SYSTEM

Adrenal Cortex	(26)	(26)	(20)	(20)	(20)	(19)
Accessory Adrenal Cortical Nodule		1 (4%)	1 (5%)			
Degeneration, Cystic						1 (5%)
Hyperplasia	2 (8%)		1 (5%)			
Hypertrophy			1 (5%)			
Metaplasia, Osseous			1 (5%)			
Vacuolization Cytoplasmic	3 (12%)	3 (12%)	2 (10%)	3 (15%)	3 (15%)	3 (16%)
Adrenal Medulla	(26)	(26)	(20)	(20)	(20)	(19)
Hyperplasia						1 (5%)
Islets, Pancreatic	(26)	(26)	(20)	(20)	(20)	(19)
Fibrosis						
Parathyroid Gland	(26)	(26)	(20)	(20)	(19)	(19)
Hyperplasia	6 (23%)	4 (15%)	4 (20%)	9 (45%)	3 (16%)	7 (37%)
Pituitary Gland	(26)	(26)	(20)	(20)	(20)	(19)
Angiectasis				1 (5%)		
Mineralization						
Vacuolization Cytoplasmic						1 (5%)
Pars Distalis, Cyst	3 (12%)	3 (12%)	1 (5%)	2 (10%)		1 (5%)
Pars Distalis, Cyst Multilocular						
Pars Distalis, Hyperplasia	7 (27%)	2 (8%)	8 (40%)	9 (45%)	3 (15%)	4 (21%)
Pars Intermedia, Cyst				1 (5%)		
Rathke's Cleft, Cyst		1 (4%)				

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

Experiment Number: 10034 - 03

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: 10:20:03

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
Thyroid Gland	(25)	(24)	(20)	(20)	(20)	(19)
Infiltration Cellular, Lymphocyte					1 (5%)	
Ultimobranchial Cyst	3 (12%)	8 (33%)	6 (30%)	3 (15%)	9 (45%)	5 (26%)
C-cell, Hyperplasia	7 (28%)	9 (38%)	13 (65%)	9 (45%)	10 (50%)	11 (58%)
Follicular Cell, Hyperplasia	4 (16%)	2 (8%)	1 (5%)	1 (5%)	4 (20%)	1 (5%)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Coagulating Gland	(26)	(24)	(20)	(20)	(20)	(19)
Polyarteritis						
Ductus Deferens	(0)	(1)	(0)	(0)	(0)	(0)
Lumen, Dilatation		1 (100%)				
Epididymis	(26)	(26)	(20)	(20)	(20)	(19)
Exfoliated Germ Cell	4 (15%)	2 (8%)		3 (15%)	1 (5%)	2 (11%)
Granuloma Sperm				1 (5%)		
Hypospermia	3 (12%)	1 (4%)	1 (5%)	4 (20%)	2 (10%)	1 (5%)
Infiltration Cellular, Lymphocyte	1 (4%)	3 (12%)	1 (5%)	1 (5%)	4 (20%)	1 (5%)
Polyarteritis						
Fat Pad, Epididymal	(0)	(1)	(0)	(0)	(0)	(0)
Necrosis		1 (100%)				
Preputial Gland	(1)	(2)	(0)	(0)	(0)	(1)
Hyperkeratosis						
Infiltration Cellular, Lymphocyte						
Inflammation, Suppurative	1 (100%)	1 (50%)				1 (100%)
Duct, Dilatation	1 (100%)	1 (50%)				1 (100%)
Prostate, Dorsal/lateral Lobe	(26)	(26)	(20)	(20)	(20)	(18)
Corpora Amylacea						1 (6%)
Degeneration, Cystic		1 (4%)			1 (5%)	
Fibrosis	1 (4%)			1 (5%)	1 (5%)	
Infiltration Cellular, Lymphocyte	9 (35%)	4 (15%)	9 (45%)	5 (25%)	4 (20%)	8 (44%)
Inflammation, Suppurative	25 (96%)	25 (96%)	18 (90%)	19 (95%)	16 (80%)	16 (89%)

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

Experiment Number: 10034 - 03

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: 10:20:03

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
Prostate, Ventral Lobe	(26)	(26)	(20)	(20)	(20)	(18)
Atrophy						
Fibrosis						
Infiltration Cellular, Lymphocyte	13 (50%)	13 (50%)	9 (45%)	8 (40%)	9 (45%)	9 (50%)
Inflammation, Suppurative	4 (15%)	5 (19%)	3 (15%)	2 (10%)	2 (10%)	6 (33%)
Polyarteritis						
Epithelium, Hyperplasia			1 (5%)	1 (5%)		2 (11%)
Seminal Vesicle	(26)	(24)	(20)	(20)	(20)	(19)
Atrophy						
Polyarteritis						
Lumen, Dilatation					1 (5%)	
Testes	(26)	(25)	(20)	(20)	(20)	(19)
Polyarteritis						
Seminiferous Tubule, Degeneration	12 (46%)	6 (24%)	6 (30%)	7 (35%)	9 (45%)	4 (21%)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(26)	(26)	(20)	(20)	(20)	(19)
Myeloid Cell, Hyperplasia	1 (4%)				2 (10%)	
Lymph Node	(0)	(0)	(0)	(0)	(0)	(1)
Degeneration, Cystic						
Mediastinal, Hyperplasia, Lymphoid						1 (100%)
Renal, Degeneration, Cystic						
Lymph Node, Mandibular	(1)	(0)	(0)	(0)	(1)	(1)
Congestion						
Degeneration, Cystic					1 (100%)	
Hemorrhage						
Hyperplasia, Lymphoid	1 (100%)				1 (100%)	1 (100%)
Infiltration Cellular, Plasma Cell					1 (100%)	1 (100%)
Lymph Node, Mesenteric	(1)	(0)	(0)	(1)	(0)	(0)
Degeneration, Cystic	1 (100%)			1 (100%)		
Hyperplasia, Lymphoid	1 (100%)					
Pigmentation				1 (100%)		
Spleen	(25)	(25)	(20)	(20)	(20)	(19)
Hematopoietic Cell Proliferation	2 (8%)			1 (5%)		

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

Experiment Number: 10034 - 03

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: 10:20:03

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
Hyperplasia, Lymphoid	1 (4%)					
Pigmentation	18 (72%)	18 (72%)	12 (60%)	14 (70%)	13 (65%)	18 (95%)
Polyarteritis						
Capsule, Fibrosis					1 (5%)	
Capsule, Inflammation, Chronic					1 (5%)	
Thymus	(26)	(24)	(20)	(20)	(20)	(19)
Atrophy	24 (92%)	21 (88%)	18 (90%)	19 (95%)	17 (85%)	18 (95%)
Hemorrhage			1 (5%)		1 (5%)	
Hyperplasia, Lymphoid					1 (5%)	
INTEGUMENTARY SYSTEM						
Mammary Gland	(26)	(25)	(19)	(20)	(20)	(19)
Fibrosis						
Hyperplasia, Lobular	3 (12%)	2 (8%)		1 (5%)	2 (10%)	2 (11%)
Skin	(1)	(0)	(1)	(0)	(0)	(3)
Abscess	1 (100%)					
Cyst Epithelial Inclusion						2 (67%)
Foreign Body	1 (100%)					
Subcutaneous Tissue, Cyst						
Subcutaneous Tissue, Metaplasia, Osseous						
MUSCULOSKELETAL SYSTEM						
Bone	(0)	(0)	(0)	(0)	(0)	(0)
Bone, Femur	(26)	(26)	(20)	(20)	(20)	(19)
Skeletal Muscle	(0)	(0)	(0)	(0)	(0)	(0)
Foreign Body						
Inflammation, Suppurative						
Necrosis						
NERVOUS SYSTEM						
Brain, Brain Stem	(26)	(26)	(20)	(20)	(20)	(19)

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

Experiment Number: 10034 - 03

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: 10:20:03

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
Hemorrhage						
Necrosis						
Brain, Cerebellum	(26)	(26)	(20)	(20)	(20)	(19)
Brain, Cerebrum	(26)	(26)	(20)	(20)	(20)	(19)
Cyst					1 (5%)	
Hemorrhage						
Necrosis						
Neuron, Degeneration						
Ventricle, Dilatation		2 (8%)				
Nerve Trigeminal	(2)	(1)	(0)	(0)	(0)	(0)
Peripheral Nerve, Sciatic	(2)	(1)	(0)	(0)	(0)	(0)
Peripheral Nerve, Tibial	(2)	(1)	(0)	(0)	(0)	(0)
Spinal Cord, Cervical	(2)	(1)	(0)	(0)	(0)	(0)
Spinal Cord, Lumbar	(2)	(1)	(0)	(0)	(0)	(0)
Axon, Degeneration	1 (50%)	1 (100%)				
Spinal Cord, Thoracic	(2)	(1)	(0)	(0)	(0)	(0)

RESPIRATORY SYSTEM

Lung	(4)	(3)	(1)	(1)	(1)	(0)
Congestion					1 (100%)	
Foreign Body						
Hemorrhage		1 (33%)				
Infiltration Cellular, Histiocyte		1 (33%)	1 (100%)			
Pleura, Fibrosis				1 (100%)		
Pleura, Granuloma						
Nose	(4)	(3)	(0)	(0)	(1)	(0)
Autolysis	1 (25%)	1 (33%)				
Foreign Body						
Hemorrhage						
Inflammation, Suppurative						
Trachea	(3)	(2)	(0)	(0)	(1)	(0)

SPECIAL SENSES SYSTEM

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

Experiment Number: 10034 - 03
 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: 10:20:03
 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
None						
URINARY SYSTEM						
Kidney	(26)	(25)	(20)	(20)	(20)	(19)
Accumulation, Hyaline Droplet						
Casts Protein	1 (4%)		1 (5%)			1 (5%)
Infiltration Cellular, Polymorphonuclear						
Inflammation, Chronic Active			1 (5%)			
Nephropathy	23 (88%)	23 (92%)	19 (95%)	20 (100%)	19 (95%)	17 (89%)
Polyarteritis						
Capsule, Lipidosis					1 (5%)	
Cortex, Cyst	3 (12%)	6 (24%)	2 (10%)	4 (20%)	6 (30%)	6 (32%)
Pelvis, Dilatation			1 (5%)	1 (5%)		
Renal Tubule, Cyst	10 (38%)	4 (16%)	5 (25%)	4 (20%)	8 (40%)	6 (32%)
Urinary Bladder	(1)	(0)	(0)	(0)	(0)	(0)
Lumen, Dilatation	1 (100%)					

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

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

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

Disposition Summary

Animals Initially In Study	20	22
Early Deaths		
Interval Sacrifice	20	22
Moribund Sacrifice		
Natural Death		
Survivors		
Animals Examined Microscopically	20	22

ALIMENTARY SYSTEM

Esophagus	(0)	(0)
Foreign Body		
Perforation		
Periesophageal Tissue, Inflammation, Suppurative		
Periesophageal Tissue, Inflammation, Granulomatous		
Periesophageal Tissue, Necrosis		
Intestine Large, Colon	(0)	(0)
Intestine Small, Ileum	(0)	(0)
Intestine Small, Jejunum	(0)	(0)
Diverticulum		
Liver	(20)	(22)
Angiectasis		
Basophilic Focus		1 (5%)
Cholangiofibrosis		
Clear Cell Focus	1 (5%)	1 (5%)
Cyst		
Deformity		
Degeneration, Cystic		
Eosinophilic Focus		1 (5%)
Fatty Change	2 (10%)	1 (5%)
Hematopoietic Cell Proliferation	1 (5%)	1 (5%)
Hepatodiaphragmatic Nodule	2 (10%)	1 (5%)

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

Experiment Number: 10034 - 03

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: 10:20:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 2500.StDose M	F1 25000StDose M
Infiltration Cellular, Mononuclear Cell	11 (55%)	15 (68%)
Inflammation, Granulomatous		
Inflammation, Chronic Active		
Mixed Cell Focus		
Pigmentation		
Polyarteritis		1 (5%)
Tension Lipidosis	1 (5%)	2 (9%)
Vacuolization Cytoplasmic	4 (20%)	8 (36%)
Bile Duct, Cyst		
Bile Duct, Hyperplasia	5 (25%)	5 (23%)
Biliary Tract, Fibrosis		
Capsule, Fibrosis		
Hepatocyte, Necrosis		
Oval Cell, Hyperplasia		1 (5%)
Mesentery	(1)	(0)
Fat, Fibrosis		
Fat, Hemorrhage		
Fat, Inflammation, Chronic Active		
Fat, Necrosis	1 (100%)	
Pancreas	(20)	(22)
Basophilic Focus		
Cyst Multilocular	1 (5%)	
Degeneration, Cystic		
Edema		
Granuloma		
Infiltration Cellular, Lymphocyte		
Inflammation, Chronic Active		
Pigmentation	8 (40%)	10 (45%)
Polyarteritis		1 (5%)
Acinus, Degeneration	18 (90%)	20 (91%)
Stomach, Forestomach	(0)	(0)
Cyst, Squamous		
Inflammation, Suppurative		
Inflammation, Chronic Active		
Epithelium, Hyperplasia		
Stomach, Glandular	(0)	(0)

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

Experiment Number: 10034 - 03

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: 10:20:03

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

Lab: NCTR

Sprague Dawley (NCTR)
RATS MALE

F1 2500.StDose M

F1 25000StDose M

CARDIOVASCULAR SYSTEM

Blood Vessel	(20)	(22)
Heart	(20)	(22)
Cardiomyopathy	18 (90%)	19 (86%)
Mineralization		
Pigmentation		
Polyarteritis		1 (5%)
Ventricle, Dilatation		

ENDOCRINE SYSTEM

Adrenal Cortex	(20)	(22)
Accessory Adrenal Cortical Nodule		
Degeneration, Cystic		
Hyperplasia		
Hypertrophy	1 (5%)	
Metaplasia, Osseous	1 (5%)	
Vacuolization Cytoplasmic	3 (15%)	2 (9%)
Adrenal Medulla	(20)	(22)
Hyperplasia		
Islets, Pancreatic	(20)	(22)
Fibrosis		1 (5%)
Parathyroid Gland	(19)	(22)
Hyperplasia	4 (21%)	8 (36%)
Pituitary Gland	(20)	(22)
Angiectasis		
Mineralization		
Vacuolization Cytoplasmic		
Pars Distalis, Cyst		2 (9%)
Pars Distalis, Cyst Multilocular	1 (5%)	
Pars Distalis, Hyperplasia	4 (20%)	7 (32%)
Pars Intermedia, Cyst		1 (5%)
Rathke's Cleft, Cyst		1 (5%)

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

Experiment Number: 10034 - 03

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: 10:20:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 2500.StDose M	F1 25000StDose M
Thyroid Gland	(20)	(22)
Infiltration Cellular, Lymphocyte		
Ultimobranchial Cyst	4 (20%)	5 (23%)
C-cell, Hyperplasia	10 (50%)	12 (55%)
Follicular Cell, Hyperplasia		3 (14%)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Coagulating Gland	(20)	(22)
Polyarteritis		1 (5%)
Ductus Deferens	(0)	(0)
Lumen, Dilatation		
Epididymis	(20)	(22)
Exfoliated Germ Cell	1 (5%)	1 (5%)
Granuloma Sperm		
Hypospermia	3 (15%)	1 (5%)
Infiltration Cellular, Lymphocyte	2 (10%)	2 (9%)
Polyarteritis		1 (5%)
Fat Pad, Epididymal	(1)	(1)
Necrosis	1 (100%)	1 (100%)
Preputial Gland	(0)	(0)
Hyperkeratosis		
Infiltration Cellular, Lymphocyte		
Inflammation, Suppurative		
Duct, Dilatation		
Prostate, Dorsal/lateral Lobe	(20)	(22)
Corpora Amylacea		
Degeneration, Cystic	1 (5%)	
Fibrosis		1 (5%)
Infiltration Cellular, Lymphocyte	8 (40%)	6 (27%)
Inflammation, Suppurative	19 (95%)	18 (82%)

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

Experiment Number: 10034 - 03

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: 10:20:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 2500.StDose M	F1 25000StDose M
Prostate, Ventral Lobe	(20)	(22)
Atrophy		
Fibrosis		1 (5%)
Infiltration Cellular, Lymphocyte	8 (40%)	9 (41%)
Inflammation, Suppurative	4 (20%)	2 (9%)
Polyarteritis		1 (5%)
Epithelium, Hyperplasia		
Seminal Vesicle	(20)	(22)
Atrophy		
Polyarteritis		1 (5%)
Lumen, Dilatation		
Testes	(20)	(22)
Polyarteritis		1 (5%)
Seminiferous Tubule, Degeneration	9 (45%)	6 (27%)

HEMATOPOIETIC SYSTEM

Bone Marrow	(20)	(22)
Myeloid Cell, Hyperplasia	1 (5%)	
Lymph Node	(0)	(0)
Degeneration, Cystic		
Mediastinal, Hyperplasia, Lymphoid		
Renal, Degeneration, Cystic		
Lymph Node, Mandibular	(1)	(0)
Congestion		
Degeneration, Cystic		
Hemorrhage		
Hyperplasia, Lymphoid	1 (100%)	
Infiltration Cellular, Plasma Cell	1 (100%)	
Lymph Node, Mesenteric	(0)	(0)
Degeneration, Cystic		
Hyperplasia, Lymphoid		
Pigmentation		
Spleen	(20)	(22)
Hematopoietic Cell Proliferation	1 (5%)	2 (9%)

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

Experiment Number: 10034 - 03

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: 10:20:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 2500.StDose M	F1 25000StDose M
Hyperplasia, Lymphoid		
Pigmentation	15 (75%)	18 (82%)
Polyarteritis		1 (5%)
Capsule, Fibrosis		
Capsule, Inflammation, Chronic		
Thymus	(20)	(22)
Atrophy	18 (90%)	21 (95%)
Hemorrhage		
Hyperplasia, Lymphoid		

INTEGUMENTARY SYSTEM

Mammary Gland	(17)	(22)
Fibrosis		
Hyperplasia, Lobular		1 (5%)
Skin	(1)	(0)
Abscess		
Cyst Epithelial Inclusion		
Foreign Body		
Subcutaneous Tissue, Cyst		
Subcutaneous Tissue, Metaplasia, Osseous		

MUSCULOSKELETAL SYSTEM

Bone	(0)	(0)
Bone, Femur	(20)	(22)
Skeletal Muscle	(0)	(0)
Foreign Body		
Inflammation, Suppurative		
Necrosis		

NERVOUS SYSTEM

Brain, Brain Stem	(20)	(22)
-------------------	------	------

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

Experiment Number: 10034 - 03

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: 10:20:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 2500.StDose M	F1 25000StDose M
Hemorrhage		
Necrosis		
Brain, Cerebellum	(20)	(22)
Brain, Cerebrum	(20)	(22)
Cyst		
Hemorrhage		
Necrosis		
Neuron, Degeneration		1 (5%)
Ventricle, Dilatation		
Nerve Trigeminal	(0)	(0)
Peripheral Nerve, Sciatic	(0)	(0)
Peripheral Nerve, Tibial	(0)	(0)
Spinal Cord, Cervical	(0)	(0)
Spinal Cord, Lumbar	(0)	(0)
Axon, Degeneration		
Spinal Cord, Thoracic	(0)	(0)

RESPIRATORY SYSTEM

Lung	(0)	(2)
Congestion		
Foreign Body		
Hemorrhage		
Infiltration Cellular, Histiocyte		1 (50%)
Pleura, Fibrosis		
Pleura, Granuloma		
Nose	(0)	(0)
Autolysis		
Foreign Body		
Hemorrhage		
Inflammation, Suppurative		
Trachea	(0)	(0)

SPECIAL SENSES SYSTEM

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

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

Sprague Dawley (NCTR)
RATS MALE

F1 2500.StDose M

F1 25000StDose M

None

URINARY SYSTEM

Kidney	(20)	(22)
Accumulation, Hyaline Droplet		
Casts Protein		1 (5%)
Infiltration Cellular, Polymorphonuclear		1 (5%)
Inflammation, Chronic Active		
Nephropathy	20 (100%)	21 (95%)
Polyarteritis		1 (5%)
Capsule, Lipidosis		
Cortex, Cyst	6 (30%)	4 (18%)
Pelvis, Dilatation		
Renal Tubule, Cyst	6 (30%)	8 (36%)
Urinary Bladder	(0)	(0)
Lumen, Dilatation		

*** END OF MALE ***

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

Experiment Number: 10034 - 03

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: 10:20:03

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 25000 BPA F

Disposition Summary

	F1 Veh. Ctrl F	F1 2.5 BPA F	F1 25.0 BPA F	F1 250.0BPA F	F1 2500.BPA F	F1 25000 BPA F
Animals Initially In Study	23	22	22	24	20	24
Early Deaths						
Interval Sacrifice	21	22	21	22	20	24
Moribund Sacrifice	1			2		
Natural Death	1		1			
Survivors						
Animals Examined Microscopically	23	22	22	24	20	24

ALIMENTARY SYSTEM

Esophagus	(3)	(0)	(1)	(2)	(0)	(0)
Diverticulum	1 (33%)					
Intestine Large, Cecum	(0)	(0)	(0)	(0)	(0)	(0)
Epithelium, Hyperplasia						
Intestine Large, Colon	(2)	(0)	(0)	(2)	(0)	(0)
Intestine Small, Ileum	(2)	(0)	(0)	(2)	(0)	(0)
Inflammation, Chronic Active						
Intestine Small, Jejunum	(0)	(0)	(0)	(0)	(0)	(0)
Inflammation, Chronic Active						
Liver	(23)	(22)	(22)	(24)	(20)	(24)
Basophilic Focus	1 (4%)			5 (21%)		1 (4%)
Cholangiofibrosis						
Clear Cell Focus						
Deformity			1 (5%)			
Degeneration, Cystic						
Eosinophilic Focus	1 (4%)				1 (5%)	
Fatty Change	2 (9%)	4 (18%)	2 (9%)	1 (4%)		1 (4%)
Hematopoietic Cell Proliferation		1 (5%)				
Hepatodiaphragmatic Nodule	2 (9%)	2 (9%)	1 (5%)	2 (8%)	1 (5%)	
Infiltration Cellular, Mononuclear Cell	4 (17%)	6 (27%)	4 (18%)	5 (21%)	5 (25%)	4 (17%)
Inflammation, Chronic Active	1 (4%)			1 (4%)		
Mixed Cell Focus				2 (8%)		
Tension Lipidosis	3 (13%)	3 (14%)	2 (9%)	2 (8%)	1 (5%)	1 (4%)
Vacuolization Cytoplasmic	2 (9%)	1 (5%)	1 (5%)	1 (4%)	1 (5%)	1 (4%)

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

Experiment Number: 10034 - 03

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: 10:20:03

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 25000 BPA F
Bile Duct, Hyperplasia	3 (13%)	6 (27%)	5 (23%)	5 (21%)	3 (15%)	2 (8%)
Hepatocyte, Degeneration						
Hepatocyte, Necrosis	1 (4%)			1 (4%)		
Oval Cell, Hyperplasia				1 (4%)		
Mesentery	(1)	(0)	(2)	(1)	(0)	(1)
Fat, Necrosis	1 (100%)		2 (100%)	1 (100%)		1 (100%)
Pancreas	(23)	(22)	(22)	(24)	(20)	(24)
Basophilic Focus				1 (4%)	1 (5%)	
Cyst Multilocular						
Edema				1 (4%)		
Infiltration Cellular, Lymphocyte		2 (9%)			1 (5%)	
Infiltration Cellular, Polymorphonuclear						1 (4%)
Pigmentation	1 (4%)					
Acinus, Degeneration	13 (57%)	13 (59%)	14 (64%)	19 (79%)	13 (65%)	18 (75%)
Stomach, Forestomach	(2)	(0)	(1)	(2)	(0)	(1)
Cyst Epithelial Inclusion						1 (100%)
Stomach, Glandular	(2)	(0)	(0)	(2)	(0)	(0)
CARDIOVASCULAR SYSTEM						
Blood Vessel	(23)	(22)	(22)	(24)	(20)	(24)
Heart	(23)	(22)	(22)	(24)	(20)	(24)
Cardiomyopathy	7 (30%)	10 (45%)	9 (41%)	8 (33%)	9 (45%)	7 (29%)
Inflammation, Chronic Active	1 (4%)					
Polyarteritis	1 (4%)					
Myocardium, Necrosis	1 (4%)					
Pericardium, Fibrosis			1 (5%)			
ENDOCRINE SYSTEM						
Adrenal Cortex	(23)	(22)	(22)	(24)	(20)	(24)
Degeneration, Cystic	2 (9%)	2 (9%)	3 (14%)	2 (8%)	2 (10%)	2 (8%)
Hyperplasia			1 (5%)			
Hypertrophy	1 (4%)					
Vacuolization Cytoplasmic	2 (9%)		1 (5%)			

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

Experiment Number: 10034 - 03

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: 10:20:03

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 25000 BPA F
Adrenal Medulla	(23)	(22)	(22)	(24)	(20)	(24)
Hemorrhage						
Hyperplasia		1 (5%)				
Islets, Pancreatic	(23)	(22)	(22)	(24)	(20)	(24)
Parathyroid Gland	(23)	(21)	(20)	(23)	(20)	(23)
Hyperplasia	2 (9%)		3 (15%)	2 (9%)	1 (5%)	1 (4%)
Pituitary Gland	(23)	(22)	(22)	(24)	(20)	(24)
Angiectasis	1 (4%)		1 (5%)			
Vacuolization Cytoplasmic				1 (4%)		
Pars Distalis, Cyst	2 (9%)			2 (8%)	1 (5%)	2 (8%)
Pars Distalis, Hyperplasia	18 (78%)	17 (77%)	18 (82%)	15 (63%)	16 (80%)	20 (83%)
Pars Intermedia, Cyst						
Thyroid Gland	(23)	(22)	(21)	(24)	(20)	(24)
Ectopic Thymus						
Infiltration Cellular, Lymphocyte						
Ultimobranchial Cyst	7 (30%)	7 (32%)	5 (24%)	8 (33%)	6 (30%)	11 (46%)
C-cell, Hyperplasia	14 (61%)	11 (50%)	15 (71%)	12 (50%)	8 (40%)	16 (67%)
Follicle, Cyst		1 (5%)				
Follicular Cell, Hyperplasia						
GENERAL BODY SYSTEM						
Tissue NOS	(0)	(0)	(0)	(0)	(0)	(0)
GENITAL SYSTEM						
Clitoral Gland	(0)	(0)	(1)	(0)	(2)	(0)
Atrophy						
Hyperkeratosis					1 (50%)	
Inflammation, Suppurative			1 (100%)		2 (100%)	
Duct, Dilatation			1 (100%)		2 (100%)	
Fat Pad, Ovarian/parametrial	(1)	(0)	(0)	(0)	(0)	(2)
Necrosis	1 (100%)					2 (100%)
Ovary	(23)	(22)	(22)	(24)	(20)	(24)
Atrophy	10 (43%)	7 (32%)	9 (41%)	14 (58%)	11 (55%)	11 (46%)

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

Experiment Number: 10034 - 03

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: 10:20:03

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 25000 BPA F
Cyst	1 (4%)		2 (9%)		1 (5%)	
Degeneration, Hyaline						
Diestrus	15 (65%)	12 (55%)	8 (36%)	12 (50%)	8 (40%)	9 (38%)
Estrus				1 (4%)		1 (4%)
Fibrosis						
Hyperplasia, Sertoliform						
Hyperplasia, Tubulostromal			1 (5%)			
Metestrus	3 (13%)	3 (14%)	4 (18%)	6 (25%)	1 (5%)	5 (21%)
Pigmentation						
Proestrus	1 (4%)	3 (14%)	3 (14%)	1 (4%)	3 (15%)	
Bilateral, Bursa, Cyst	1 (4%)					
Bursa, Cyst			3 (14%)	2 (8%)	1 (5%)	3 (13%)
Corpus Luteum, Cyst					2 (10%)	1 (4%)
Corpus Luteum, Depletion	4 (17%)	4 (18%)	7 (32%)	4 (17%)	8 (40%)	9 (38%)
Follicle, Cyst	8 (35%)	3 (14%)	10 (45%)	5 (21%)	10 (50%)	11 (46%)
Follicle, Cyst, Multiple		1 (5%)				
Follicle, Depletion			1 (5%)			
Interstitial Cell, Hypertrophy	4 (17%)	4 (18%)	6 (27%)	3 (13%)	8 (40%)	9 (38%)
Periovarian Tissue, Cyst						
Rete Ovarii, Cyst		1 (5%)				
Oviduct	(23)	(22)	(21)	(24)	(20)	(24)
Infiltration Cellular, Polymorphonuclear Epithelium, Hyperplasia						
Uterus	(23)	(22)	(21)	(24)	(20)	(24)
Apoptosis	2 (9%)	1 (5%)	4 (19%)	5 (21%)	5 (25%)	9 (38%)
Atrophy			1 (5%)			
Diestrus	10 (43%)	12 (55%)	6 (29%)	11 (46%)	8 (40%)	5 (21%)
Estrus	4 (17%)	2 (9%)	4 (19%)	5 (21%)	6 (30%)	9 (38%)
Hyperplasia, Stromal	1 (4%)					
Infiltration Cellular, Polymorphonuclear						
Metaplasia, Squamous	1 (4%)	1 (5%)	4 (19%)	3 (13%)	3 (15%)	5 (21%)
Metestrus	7 (30%)	4 (18%)	7 (33%)	7 (29%)	2 (10%)	8 (33%)
Proestrus	2 (9%)	4 (18%)	3 (14%)	1 (4%)	4 (20%)	2 (8%)
Cervix, Cyst				1 (4%)		
Cervix, Cyst, Squamous						
Cervix, Dilatation			1 (5%)			

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

Experiment Number: 10034 - 03

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: 10:20:03

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 25000 BPA F
Endometrial Glands, Hyperplasia					1 (5%)	1 (4%)
Endometrium, Cyst		1 (5%)	1 (5%)	3 (13%)		
Endometrium, Hyperplasia	2 (9%)	7 (32%)	5 (24%)	7 (29%)	5 (25%)	2 (8%)
Endometrium, Hyperplasia, Cystic Lumen, Dilatation	5 (22%)	1 (5%)	4 (19%)	3 (13%)	7 (35%)	4 (17%)
Vagina	(23)	(22)	(21)	(24)	(20)	(24)
Atrophy			1 (5%)			
Cyst, Squamous		1 (5%)		1 (4%)		
Diestrus	11 (48%)	11 (50%)	7 (33%)	10 (42%)	9 (45%)	7 (29%)
Estrus	3 (13%)	2 (9%)	3 (14%)	5 (21%)	7 (35%)	9 (38%)
Infiltration Cellular, Polymorphonuclear				1 (4%)		
Metestrus	7 (30%)	5 (23%)	8 (38%)	8 (33%)	2 (10%)	8 (33%)
Proestrus	2 (9%)	4 (18%)	2 (10%)	1 (4%)	2 (10%)	
Epithelium, Hyperplasia	3 (13%)	2 (9%)	2 (10%)	4 (17%)	6 (30%)	8 (33%)
Epithelium, Mucification	10 (43%)	12 (55%)	7 (33%)	9 (38%)	7 (35%)	8 (33%)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(23)	(22)	(22)	(24)	(20)	(24)
Myeloid Cell, Hyperplasia	1 (4%)					
Lymph Node	(0)	(0)	(1)	(1)	(0)	(0)
Lumbar, Infiltration Cellular, Plasma Cell			1 (100%)			
Mediastinal, Hyperplasia, Lymphoid				1 (100%)		
Mediastinal, Infiltration Cellular, Mast Cell				1 (100%)		
Renal, Hemorrhage				1 (100%)		
Renal, Pigmentation				1 (100%)		
Renal, Sinus, Dilatation				1 (100%)		
Lymph Node, Mandibular	(0)	(1)	(1)	(1)	(0)	(0)
Hyperplasia, Lymphoid		1 (100%)				
Infiltration Cellular, Plasma Cell		1 (100%)	1 (100%)	1 (100%)		
Lymph Node, Mesenteric	(0)	(0)	(0)	(0)	(0)	(0)
Degeneration, Cystic						
Infiltration Cellular, Plasma Cell						
Spleen	(23)	(22)	(22)	(24)	(20)	(24)
Hematopoietic Cell Proliferation	3 (13%)	3 (14%)	2 (9%)	3 (13%)	1 (5%)	1 (4%)

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

Experiment Number: 10034 - 03

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: 10:20:03

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 25000 BPA F
Pigmentation	22 (96%)	21 (95%)	20 (91%)	24 (100%)	19 (95%)	23 (96%)
Polyarteritis	1 (4%)			1 (4%)		
Thymus	(23)	(22)	(22)	(24)	(20)	(24)
Atrophy	20 (87%)	20 (91%)	18 (82%)	21 (88%)	16 (80%)	22 (92%)
Cyst						
Cyst Multilocular						
Hemorrhage						
Hyperplasia, Lymphoid						1 (4%)
Epithelial Cell, Hyperplasia						

INTEGUMENTARY SYSTEM

Mammary Gland	(23)	(22)	(22)	(24)	(20)	(24)
Atypical Focus		3 (14%)	2 (9%)	2 (8%)		
Galactocele			1 (5%)		1 (5%)	
Hyperplasia, Lobular	10 (43%)	14 (64%)	13 (59%)	15 (63%)	13 (65%)	12 (50%)
Duct, Dilatation	2 (9%)	2 (9%)	7 (32%)	1 (4%)	2 (10%)	2 (8%)
Skin	(0)	(0)	(0)	(0)	(1)	(0)
Edema					1 (100%)	
Inflammation, Chronic Active					1 (100%)	
Ulcer					1 (100%)	
Epithelium, Hyperplasia					1 (100%)	

MUSCULOSKELETAL SYSTEM

Bone	(0)	(1)	(0)	(0)	(0)	(0)
Rib, Fibrosis		1 (100%)				
Bone, Femur	(23)	(22)	(22)	(24)	(20)	(24)
Skeletal Muscle	(0)	(0)	(0)	(0)	(0)	(0)

NERVOUS SYSTEM

Brain, Brain Stem	(23)	(22)	(22)	(24)	(20)	(24)
Compression			1 (5%)			

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

Experiment Number: 10034 - 03

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: 10:20:03

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 25000 BPA F
Brain, Cerebellum	(23)	(22)	(22)	(24)	(20)	(24)
Brain, Cerebrum	(23)	(22)	(22)	(24)	(20)	(24)
Cyst						
Hemorrhage	1 (4%)					
Metaplasia, Osseous						
Meninges, Cyst						
Neuron, Degeneration						
Ventricle, Dilatation						
Nerve Trigeminal	(1)	(0)	(1)	(0)	(0)	(4)
Peripheral Nerve, Sciatic	(1)	(0)	(1)	(0)	(0)	(4)
Peripheral Nerve, Tibial	(1)	(0)	(1)	(0)	(0)	(4)
Spinal Cord, Cervical	(1)	(0)	(1)	(0)	(0)	(4)
Hemorrhage						
Polyarteritis						
Spinal Cord, Lumbar	(1)	(0)	(1)	(0)	(0)	(4)
Axon, Degeneration						
Spinal Cord, Thoracic	(1)	(0)	(1)	(0)	(0)	(4)
RESPIRATORY SYSTEM						
Lung	(2)	(1)	(4)	(3)	(0)	(0)
Congestion						
Foreign Body			1 (25%)			
Hemorrhage	1 (50%)					
Infiltration Cellular, Histiocyte			3 (75%)	2 (67%)		
Inflammation, Chronic Active	1 (50%)		1 (25%)			
Mineralization			1 (25%)			
Pigmentation			1 (25%)			
Polyarteritis	1 (50%)					
Pleura, Abscess		1 (100%)				
Pleura, Fibrosis		1 (100%)	1 (25%)			
Pleura, Foreign Body		1 (100%)				
Nose	(2)	(0)	(1)	(2)	(0)	(0)
Trachea	(2)	(0)	(1)	(2)	(0)	(0)

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

Experiment Number: 10034 - 03

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: 10:20:03

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 25000 BPA F
SPECIAL SENSES SYSTEM						
Eye	(0)	(0)	(0)	(0)	(0)	(0)
Cataract						
Hemorrhage						
Bilateral, Cataract						
Zymbal's Gland	(0)	(0)	(0)	(0)	(0)	(0)
URINARY SYSTEM						
Kidney	(23)	(22)	(22)	(24)	(20)	(24)
Accumulation, Hyaline Droplet				1 (4%)		
Casts Protein	2 (9%)	4 (18%)	2 (9%)	4 (17%)	3 (15%)	1 (4%)
Inflammation, Chronic Active						1 (4%)
Mineralization	11 (48%)	5 (23%)	11 (50%)	12 (50%)	11 (55%)	16 (67%)
Nephropathy	6 (26%)	7 (32%)	11 (50%)	8 (33%)	11 (55%)	7 (29%)
Pigmentation			1 (5%)	1 (4%)		
Polyarteritis	1 (4%)			1 (4%)		
Cortex, Cyst	2 (9%)	2 (9%)	2 (9%)	4 (17%)	3 (15%)	2 (8%)
Interstitial Cell, Hyperplasia						
Renal Tubule, Cyst		7 (32%)	3 (14%)	3 (13%)	3 (15%)	1 (4%)
Renal Tubule, Dilatation						
Renal Tubule, Hypertrophy		1 (5%)				

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

Experiment Number: 10034 - 03
 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: 10:20:03
 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	20	22	20	22
Early Deaths						
Interval Sacrifice	24	26	20	22	20	22
Moribund Sacrifice	1					
Natural Death	1					
Survivors						
Animals Examined Microscopically	26	26	20	22	20	22

ALIMENTARY SYSTEM

Esophagus	(2)	(0)	(0)	(0)	(0)	(0)
Diverticulum						
Intestine Large, Cecum	(0)	(1)	(0)	(0)	(0)	(0)
Epithelium, Hyperplasia		1 (100%)				
Intestine Large, Colon	(1)	(0)	(0)	(0)	(0)	(0)
Intestine Small, Ileum	(1)	(0)	(0)	(0)	(0)	(0)
Inflammation, Chronic Active						
Intestine Small, Jejunum	(0)	(0)	(0)	(0)	(0)	(0)
Inflammation, Chronic Active						
Liver	(26)	(26)	(20)	(22)	(20)	(22)
Basophilic Focus	3 (12%)	3 (12%)		1 (5%)	1 (5%)	2 (9%)
Cholangiofibrosis			1 (5%)			
Clear Cell Focus	1 (4%)				1 (5%)	
Deformity						
Degeneration, Cystic				1 (5%)		
Eosinophilic Focus		1 (4%)			1 (5%)	1 (5%)
Fatty Change	1 (4%)		1 (5%)	2 (9%)	2 (10%)	4 (18%)
Hematopoietic Cell Proliferation						
Hepatodiaphragmatic Nodule	1 (4%)	1 (4%)	1 (5%)	2 (9%)	1 (5%)	1 (5%)
Infiltration Cellular, Mononuclear Cell	7 (27%)	2 (8%)	2 (10%)	10 (45%)	7 (35%)	7 (32%)
Inflammation, Chronic Active	1 (4%)			1 (5%)		
Mixed Cell Focus			1 (5%)			
Tension Lipidosis	3 (12%)		1 (5%)	2 (9%)	2 (10%)	1 (5%)
Vacuolization Cytoplasmic	2 (8%)	1 (4%)	2 (10%)	1 (5%)	3 (15%)	4 (18%)

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

Experiment Number: 10034 - 03

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: 10:20:03

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
Bile Duct, Hyperplasia	8 (31%)	4 (15%)	4 (20%)	2 (9%)	4 (20%)	3 (14%)
Hepatocyte, Degeneration						1 (5%)
Hepatocyte, Necrosis	1 (4%)			1 (5%)		
Oval Cell, Hyperplasia						
Mesentery	(1)	(2)	(1)	(0)	(0)	(0)
Fat, Necrosis	1 (100%)	2 (100%)	1 (100%)			
Pancreas	(26)	(26)	(20)	(22)	(20)	(22)
Basophilic Focus	2 (8%)					
Cyst Multilocular						1 (5%)
Edema						
Infiltration Cellular, Lymphocyte	1 (4%)		1 (5%)			1 (5%)
Infiltration Cellular, Polymorphonuclear						
Pigmentation	1 (4%)	1 (4%)	4 (20%)	1 (5%)	1 (5%)	
Acinus, Degeneration	20 (77%)	18 (69%)	16 (80%)	14 (64%)	13 (65%)	14 (64%)
Stomach, Forestomach	(2)	(0)	(0)	(0)	(0)	(0)
Cyst Epithelial Inclusion						
Stomach, Glandular	(1)	(0)	(0)	(0)	(0)	(1)

CARDIOVASCULAR SYSTEM

Blood Vessel	(26)	(26)	(20)	(22)	(20)	(22)
Heart	(26)	(26)	(20)	(22)	(20)	(22)
Cardiomyopathy	8 (31%)	17 (65%)	6 (30%)	8 (36%)	7 (35%)	7 (32%)
Inflammation, Chronic Active						
Polyarteritis						
Myocardium, Necrosis						
Pericardium, Fibrosis						

ENDOCRINE SYSTEM

Adrenal Cortex	(26)	(26)	(20)	(22)	(20)	(22)
Degeneration, Cystic		6 (23%)		1 (5%)		2 (9%)
Hyperplasia						
Hypertrophy						
Vacuolization Cytoplasmic						

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

Experiment Number: 10034 - 03

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: 10:20:03

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
Adrenal Medulla	(26)	(26)	(20)	(22)	(20)	(22)
Hemorrhage		1 (4%)				
Hyperplasia		1 (4%)				
Islets, Pancreatic	(26)	(26)	(20)	(22)	(20)	(22)
Parathyroid Gland	(26)	(25)	(20)	(21)	(20)	(22)
Hyperplasia	2 (8%)	1 (4%)	1 (5%)	1 (5%)		2 (9%)
Pituitary Gland	(25)	(26)	(20)	(22)	(20)	(22)
Angiectasis	2 (8%)	6 (23%)		2 (9%)	1 (5%)	
Vacuolization Cytoplasmic						
Pars Distalis, Cyst		4 (15%)	3 (15%)			
Pars Distalis, Hyperplasia	20 (80%)	25 (96%)	18 (90%)	16 (73%)	14 (70%)	20 (91%)
Pars Intermedia, Cyst	1 (4%)					
Thyroid Gland	(26)	(26)	(20)	(22)	(20)	(22)
Ectopic Thymus						
Infiltration Cellular, Lymphocyte	1 (4%)					1 (5%)
Ultimobranchial Cyst	7 (27%)	11 (42%)	4 (20%)	6 (27%)	7 (35%)	4 (18%)
C-cell, Hyperplasia	11 (42%)	13 (50%)	10 (50%)	16 (73%)	11 (55%)	12 (55%)
Follicle, Cyst						
Follicular Cell, Hyperplasia	1 (4%)			1 (5%)		
GENERAL BODY SYSTEM						
Tissue NOS	(0)	(0)	(0)	(0)	(0)	(0)
GENITAL SYSTEM						
Clitoral Gland	(1)	(0)	(0)	(1)	(0)	(0)
Atrophy				1 (100%)		
Hyperkeratosis						
Inflammation, Suppurative	1 (100%)					
Duct, Dilatation	1 (100%)					
Fat Pad, Ovarian/parametrial	(1)	(0)	(0)	(0)	(0)	(0)
Necrosis	1 (100%)					
Ovary	(25)	(26)	(20)	(22)	(20)	(22)
Atrophy	9 (36%)	26 (100%)	10 (50%)	9 (41%)	11 (55%)	6 (27%)

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

Experiment Number: 10034 - 03

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: 10:20:03

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
Cyst	1 (4%)	2 (8%)		2 (9%)		
Degeneration, Hyaline		1 (4%)				
Diestrus	12 (48%)		10 (50%)	11 (50%)	9 (45%)	12 (55%)
Estrus						
Fibrosis		1 (4%)				
Hyperplasia, Sertoliform		1 (4%)				
Hyperplasia, Tubulostromal	1 (4%)					
Metestrus	6 (24%)		7 (35%)	5 (23%)	4 (20%)	4 (18%)
Pigmentation		1 (4%)				
Proestrus	1 (4%)		1 (5%)	2 (9%)	5 (25%)	4 (18%)
Bilateral, Bursa, Cyst						
Bursa, Cyst	1 (4%)	4 (15%)				
Corpus Luteum, Cyst	1 (4%)		2 (10%)	2 (9%)	2 (10%)	5 (23%)
Corpus Luteum, Depletion	6 (24%)	26 (100%)	2 (10%)	4 (18%)	2 (10%)	2 (9%)
Follicle, Cyst	9 (36%)	26 (100%)	5 (25%)	6 (27%)	4 (20%)	7 (32%)
Follicle, Cyst, Multiple						
Follicle, Depletion						
Interstitial Cell, Hypertrophy	5 (20%)	26 (100%)	4 (20%)	3 (14%)	1 (5%)	2 (9%)
Periovarian Tissue, Cyst						2 (9%)
Rete Ovarii, Cyst						
Oviduct	(25)	(26)	(20)	(22)	(20)	(22)
Infiltration Cellular, Polymorphonuclear Epithelium, Hyperplasia		1 (4%) 1 (4%)				
Uterus	(25)	(26)	(20)	(22)	(20)	(22)
Apoptosis	6 (24%)	18 (69%)	2 (10%)	3 (14%)	2 (10%)	2 (9%)
Atrophy			1 (5%)			
Diestrus	8 (32%)		7 (35%)	10 (45%)	7 (35%)	7 (32%)
Estrus	6 (24%)	21 (81%)	2 (10%)	4 (18%)	2 (10%)	2 (9%)
Hyperplasia, Stromal						1 (5%)
Infiltration Cellular, Polymorphonuclear	1 (4%)	1 (4%)	1 (5%)			
Metaplasia, Squamous	2 (8%)	14 (54%)		2 (9%)	1 (5%)	1 (5%)
Metestrus	9 (36%)	5 (19%)	8 (40%)	7 (32%)	6 (30%)	8 (36%)
Proestrus	2 (8%)		2 (10%)	1 (5%)	5 (25%)	5 (23%)
Cervix, Cyst						
Cervix, Cyst, Squamous				1 (5%)		
Cervix, Dilatation						

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

Experiment Number: 10034 - 03

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: 10:20:03

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
Endometrial Glands, Hyperplasia	1 (4%)	2 (8%)	1 (5%)		1 (5%)	1 (5%)
Endometrium, Cyst	2 (8%)	2 (8%)		1 (5%)	2 (10%)	2 (9%)
Endometrium, Hyperplasia	4 (16%)		6 (30%)	9 (41%)	5 (25%)	7 (32%)
Endometrium, Hyperplasia, Cystic Lumen, Dilatation	6 (24%)	14 (54%)	2 (10%)	4 (18%)	2 (10%)	2 (9%)
Vagina	1 (4%)		1 (5%)		1 (5%)	4 (18%)
Atrophy	(25)	(26)	(20)	(22)	(20)	(22)
Cyst, Squamous			1 (5%)			
Diestrus	10 (40%)		6 (30%)	11 (50%)	9 (45%)	10 (45%)
Estrus	6 (24%)	20 (77%)	2 (10%)	3 (14%)	2 (10%)	2 (9%)
Infiltration Cellular, Polymorphonuclear	1 (4%)					
Metestrus	8 (32%)	6 (23%)	9 (45%)	6 (27%)	4 (20%)	5 (23%)
Proestrus	1 (4%)		2 (10%)	2 (9%)	5 (25%)	5 (23%)
Epithelium, Hyperplasia	7 (28%)	20 (77%)	2 (10%)	4 (18%)	2 (10%)	1 (5%)
Epithelium, Mucification	15 (60%)	18 (69%)	8 (40%)	11 (50%)	9 (45%)	11 (50%)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(26)	(26)	(20)	(22)	(20)	(22)
Myeloid Cell, Hyperplasia						1 (5%)
Lymph Node	(0)	(0)	(0)	(0)	(0)	(0)
Lumbar, Infiltration Cellular, Plasma Cell						
Mediastinal, Hyperplasia, Lymphoid						
Mediastinal, Infiltration Cellular, Mast Cell						
Renal, Hemorrhage						
Renal, Pigmentation						
Renal, Sinus, Dilatation						
Lymph Node, Mandibular	(1)	(1)	(0)	(0)	(0)	(1)
Hyperplasia, Lymphoid	1 (100%)	1 (100%)				1 (100%)
Infiltration Cellular, Plasma Cell	1 (100%)	1 (100%)				1 (100%)
Lymph Node, Mesenteric	(0)	(0)	(0)	(0)	(0)	(0)
Degeneration, Cystic						
Infiltration Cellular, Plasma Cell						
Spleen	(26)	(26)	(20)	(22)	(20)	(22)
Hematopoietic Cell Proliferation		1 (4%)	2 (10%)		1 (5%)	3 (14%)

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

Experiment Number: 10034 - 03

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: 10:20:03

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
Pigmentation	26 (100%)	26 (100%)	20 (100%)	22 (100%)	20 (100%)	22 (100%)
Polyarteritis						
Thymus	(25)	(26)	(20)	(22)	(20)	(22)
Atrophy	20 (80%)	24 (92%)	18 (90%)	19 (86%)	18 (90%)	17 (77%)
Cyst			1 (5%)			
Cyst Multilocular						
Hemorrhage	1 (4%)					
Hyperplasia, Lymphoid				1 (5%)		
Epithelial Cell, Hyperplasia		1 (4%)				

INTEGUMENTARY SYSTEM

Mammary Gland	(26)	(26)	(20)	(22)	(20)	(22)
Atypical Focus			1 (5%)			
Galactocele		4 (15%)	1 (5%)			
Hyperplasia, Lobular	13 (50%)	23 (88%)	15 (75%)	12 (55%)	8 (40%)	12 (55%)
Duct, Dilatation	3 (12%)	22 (85%)	4 (20%)	2 (9%)	1 (5%)	1 (5%)
Skin	(0)	(0)	(0)	(0)	(0)	(1)
Edema						
Inflammation, Chronic Active						
Ulcer						
Epithelium, Hyperplasia						

MUSCULOSKELETAL SYSTEM

Bone	(0)	(0)	(0)	(0)	(0)	(0)
Rib, Fibrosis						
Bone, Femur	(26)	(26)	(20)	(22)	(20)	(22)
Skeletal Muscle	(0)	(0)	(0)	(0)	(0)	(0)

NERVOUS SYSTEM

Brain, Brain Stem	(26)	(26)	(20)	(22)	(20)	(22)
Compression						

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

Experiment Number: 10034 - 03

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: 10:20:03

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
Brain, Cerebellum	(26)	(26)	(20)	(22)	(20)	(22)
Brain, Cerebrum	(26)	(26)	(20)	(22)	(20)	(22)
Cyst						
Hemorrhage						
Metaplasia, Osseous						
Meninges, Cyst			1 (5%)			
Neuron, Degeneration		1 (4%)				
Ventricle, Dilatation						
Nerve Trigeminal	(2)	(4)	(0)	(0)	(0)	(1)
Peripheral Nerve, Sciatic	(2)	(4)	(0)	(0)	(0)	(1)
Peripheral Nerve, Tibial	(2)	(4)	(0)	(0)	(0)	(1)
Spinal Cord, Cervical	(2)	(4)	(0)	(0)	(0)	(1)
Hemorrhage						
Polyarteritis						
Spinal Cord, Lumbar	(2)	(4)	(0)	(0)	(0)	(1)
Axon, Degeneration						
Spinal Cord, Thoracic	(2)	(4)	(0)	(0)	(0)	(1)
<hr/>						
RESPIRATORY SYSTEM						
Lung	(2)	(1)	(1)	(0)	(1)	(1)
Congestion	1 (50%)					
Foreign Body						
Hemorrhage						
Infiltration Cellular, Histiocyte		1 (100%)	1 (100%)		1 (100%)	1 (100%)
Inflammation, Chronic Active						
Mineralization						
Pigmentation						
Polyarteritis						
Pleura, Abscess						
Pleura, Fibrosis						
Pleura, Foreign Body						
Nose	(1)	(0)	(0)	(0)	(0)	(0)
Trachea	(2)	(0)	(0)	(0)	(0)	(0)

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

Experiment Number: 10034 - 03

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: 10:20:03

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
SPECIAL SENSES SYSTEM						
Eye	(1)	(0)	(1)	(0)	(0)	(0)
Cataract			1 (100%)			
Hemorrhage	1 (100%)					
Bilateral, Cataract	1 (100%)					
Zymbal's Gland	(0)	(0)	(0)	(0)	(0)	(1)
URINARY SYSTEM						
Kidney	(26)	(26)	(20)	(22)	(20)	(22)
Accumulation, Hyaline Droplet						
Casts Protein	2 (8%)	4 (15%)	3 (15%)	1 (5%)	1 (5%)	
Inflammation, Chronic Active						
Mineralization	17 (65%)	14 (54%)	13 (65%)	11 (50%)	11 (55%)	14 (64%)
Nephropathy	13 (50%)	15 (58%)	10 (50%)	10 (45%)	10 (50%)	11 (50%)
Pigmentation						
Polyarteritis						
Cortex, Cyst	4 (15%)		3 (15%)	2 (9%)	6 (30%)	4 (18%)
Interstitial Cell, Hyperplasia						
Renal Tubule, Cyst	5 (19%)	4 (15%)	4 (20%)	3 (14%)	4 (20%)	4 (18%)
Renal Tubule, Dilatation						
Renal Tubule, Hypertrophy			1 (5%)			

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

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

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

Disposition Summary

Animals Initially In Study	20	22
Early Deaths		
Interval Sacrifice	20	20
Moribund Sacrifice		2
Natural Death		
Survivors		
Animals Examined Microscopically	20	22

ALIMENTARY SYSTEM

Esophagus	(0)	(2)
Diverticulum		
Intestine Large, Cecum	(0)	(0)
Epithelium, Hyperplasia		
Intestine Large, Colon	(0)	(2)
Intestine Small, Ileum	(1)	(2)
Inflammation, Chronic Active	1 (100%)	
Intestine Small, Jejunum	(1)	(0)
Inflammation, Chronic Active	1 (100%)	
Liver	(20)	(22)
Basophilic Focus	3 (15%)	2 (9%)
Cholangiofibrosis		
Clear Cell Focus		
Deformity		
Degeneration, Cystic		
Eosinophilic Focus	1 (5%)	2 (9%)
Fatty Change	1 (5%)	
Hematopoietic Cell Proliferation		
Hepatodiaphragmatic Nodule	2 (10%)	5 (23%)
Infiltration Cellular, Mononuclear Cell	2 (10%)	8 (36%)
Inflammation, Chronic Active		1 (5%)
Mixed Cell Focus	1 (5%)	
Tension Lipidosis	4 (20%)	4 (18%)
Vacuolization Cytoplasmic		

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

Experiment Number: 10034 - 03

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: 10:20:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 2500.StDose F	F1 25000StDose F
Bile Duct, Hyperplasia	3 (15%)	8 (36%)
Hepatocyte, Degeneration		
Hepatocyte, Necrosis		
Oval Cell, Hyperplasia		
Mesentery	(2)	(0)
Fat, Necrosis	2 (100%)	
Pancreas	(20)	(22)
Basophilic Focus		
Cyst Multilocular	1 (5%)	
Edema		
Infiltration Cellular, Lymphocyte		
Infiltration Cellular, Polymorphonuclear		
Pigmentation	4 (20%)	2 (9%)
Acinus, Degeneration	17 (85%)	17 (77%)
Stomach, Forestomach	(0)	(2)
Cyst Epithelial Inclusion		
Stomach, Glandular	(0)	(2)

CARDIOVASCULAR SYSTEM

Blood Vessel	(20)	(22)
Heart	(20)	(22)
Cardiomyopathy	6 (30%)	7 (32%)
Inflammation, Chronic Active		1 (5%)
Polyarteritis		1 (5%)
Myocardium, Necrosis		1 (5%)
Pericardium, Fibrosis		

ENDOCRINE SYSTEM

Adrenal Cortex	(20)	(22)
Degeneration, Cystic		
Hyperplasia		
Hypertrophy		
Vacuolization Cytoplasmic	1 (5%)	1 (5%)

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

Experiment Number: 10034 - 03

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: 10:20:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 2500.StDose F	F1 25000StDose F
Adrenal Medulla	(20)	(22)
Hemorrhage		
Hyperplasia		
Islets, Pancreatic	(20)	(22)
Parathyroid Gland	(19)	(22)
Hyperplasia	2 (11%)	
Pituitary Gland	(20)	(22)
Angiectasis		
Vacuolization Cytoplasmic		
Pars Distalis, Cyst		2 (9%)
Pars Distalis, Hyperplasia	16 (80%)	18 (82%)
Pars Intermedia, Cyst		
Thyroid Gland	(20)	(22)
Ectopic Thymus	1 (5%)	
Infiltration Cellular, Lymphocyte		
Ultimobranchial Cyst	6 (30%)	6 (27%)
C-cell, Hyperplasia	13 (65%)	9 (41%)
Follicle, Cyst		
Follicular Cell, Hyperplasia		

GENERAL BODY SYSTEM

Tissue NOS (0) (1)

GENITAL SYSTEM

Clitoral Gland (1) (0)

 Atrophy

 Hyperkeratosis

 Inflammation, Suppurative 1 (100%)

 Duct, Dilatation 1 (100%)

Fat Pad, Ovarian/parametrial (0) (1)

 Necrosis 1 (100%)

Ovary (20) (22)

 Atrophy 12 (60%) 15 (68%)

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

Experiment Number: 10034 - 03

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: 10:20:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 2500.StDose F	F1 25000StDose F
Cyst		
Degeneration, Hyaline		
Diestrus	11 (55%)	13 (59%)
Estrus		
Fibrosis		
Hyperplasia, Sertoliform		
Hyperplasia, Tubulostromal		
Metestrus	5 (25%)	2 (9%)
Pigmentation		
Proestrus	1 (5%)	1 (5%)
Bilateral, Bursa, Cyst		
Bursa, Cyst	1 (5%)	
Corpus Luteum, Cyst	1 (5%)	
Corpus Luteum, Depletion	3 (15%)	6 (27%)
Follicle, Cyst	11 (55%)	18 (82%)
Follicle, Cyst, Multiple		
Follicle, Depletion		
Interstitial Cell, Hypertrophy	3 (15%)	5 (23%)
Periovarian Tissue, Cyst		
Rete Ovarii, Cyst		
Oviduct	(20)	(22)
Infiltration Cellular, Polymorphonuclear Epithelium, Hyperplasia		
Uterus	(20)	(22)
Apoptosis	1 (5%)	6 (27%)
Atrophy		
Diestrus	9 (45%)	10 (45%)
Estrus	2 (10%)	6 (27%)
Hyperplasia, Stromal		
Infiltration Cellular, Polymorphonuclear		
Metaplasia, Squamous		4 (18%)
Metestrus	7 (35%)	4 (18%)
Proestrus	2 (10%)	2 (9%)
Cervix, Cyst		
Cervix, Cyst, Squamous		
Cervix, Dilatation		

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

Experiment Number: 10034 - 03

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: 10:20:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 2500.StDose F	F1 25000StDose F
Endometrial Glands, Hyperplasia		2 (9%)
Endometrium, Cyst	3 (15%)	
Endometrium, Hyperplasia	6 (30%)	9 (41%)
Endometrium, Hyperplasia, Cystic	1 (5%)	7 (32%)
Lumen, Dilatation	1 (5%)	
Vagina	(20)	(22)
Atrophy		
Cyst, Squamous		
Diestrus	9 (45%)	10 (45%)
Estrus	2 (10%)	6 (27%)
Infiltration Cellular, Polymorphonuclear		
Metestrus	7 (35%)	4 (18%)
Proestrus	2 (10%)	2 (9%)
Epithelium, Hyperplasia	2 (10%)	6 (27%)
Epithelium, Mucification	8 (40%)	10 (45%)

HEMATOPOIETIC SYSTEM

Bone Marrow	(20)	(22)
Myeloid Cell, Hyperplasia	1 (5%)	
Lymph Node	(0)	(0)
Lumbar, Infiltration Cellular, Plasma Cell		
Mediastinal, Hyperplasia, Lymphoid		
Mediastinal, Infiltration Cellular, Mast Cell		
Renal, Hemorrhage		
Renal, Pigmentation		
Renal, Sinus, Dilatation		
Lymph Node, Mandibular	(0)	(0)
Hyperplasia, Lymphoid		
Infiltration Cellular, Plasma Cell		
Lymph Node, Mesenteric	(1)	(0)
Degeneration, Cystic	1 (100%)	
Infiltration Cellular, Plasma Cell	1 (100%)	
Spleen	(20)	(22)
Hematopoietic Cell Proliferation	3 (15%)	2 (9%)

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

Experiment Number: 10034 - 03

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: 10:20:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 2500.StDose F	F1 25000StDose F
Pigmentation	20 (100%)	20 (91%)
Polyarteritis		
Thymus	(20)	(22)
Atrophy	18 (90%)	16 (73%)
Cyst		
Cyst Multilocular	1 (5%)	
Hemorrhage		
Hyperplasia, Lymphoid		
Epithelial Cell, Hyperplasia		

INTEGUMENTARY SYSTEM

Mammary Gland	(20)	(22)
Atypical Focus		
Galactocele		
Hyperplasia, Lobular	7 (35%)	12 (55%)
Duct, Dilatation	1 (5%)	1 (5%)
Skin	(0)	(0)
Edema		
Inflammation, Chronic Active		
Ulcer		
Epithelium, Hyperplasia		

MUSCULOSKELETAL SYSTEM

Bone	(0)	(0)
Rib, Fibrosis		
Bone, Femur	(20)	(22)
Skeletal Muscle	(0)	(2)

NERVOUS SYSTEM

Brain, Brain Stem	(20)	(22)
Compression		1 (5%)

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

Experiment Number: 10034 - 03

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: 10:20:03

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

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 2500.StDose F	F1 25000StDose F
Brain, Cerebellum	(20)	(22)
Brain, Cerebrum	(20)	(22)
Cyst		1 (5%)
Hemorrhage		
Metaplasia, Osseous		1 (5%)
Meninges, Cyst		
Neuron, Degeneration		
Ventricle, Dilatation		1 (5%)
Nerve Trigeminal	(0)	(2)
Peripheral Nerve, Sciatic	(0)	(2)
Peripheral Nerve, Tibial	(0)	(2)
Spinal Cord, Cervical	(0)	(2)
Hemorrhage		1 (50%)
Polyarteritis		1 (50%)
Spinal Cord, Lumbar	(0)	(2)
Axon, Degeneration		1 (50%)
Spinal Cord, Thoracic	(0)	(2)

RESPIRATORY SYSTEM

Lung	(0)	(4)
Congestion		
Foreign Body		
Hemorrhage		
Infiltration Cellular, Histiocyte		1 (25%)
Inflammation, Chronic Active		
Mineralization		
Pigmentation		
Polyarteritis		
Pleura, Abscess		
Pleura, Fibrosis		
Pleura, Foreign Body		
Nose	(0)	(2)
Trachea	(0)	(2)

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

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

Sprague Dawley (NCTR)
RATS FEMALE

F1 2500.StDose F

F1 25000StDose F

SPECIAL SENSES SYSTEM

Eye	(0)	(0)
Cataract		
Hemorrhage		
Bilateral, Cataract		
Zymbal's Gland	(0)	(0)

URINARY SYSTEM

Kidney	(20)	(22)
Accumulation, Hyaline Droplet		
Casts Protein	1 (5%)	1 (5%)
Inflammation, Chronic Active		
Mineralization	13 (65%)	11 (50%)
Nephropathy	12 (60%)	13 (59%)
Pigmentation		
Polyarteritis		1 (5%)
Cortex, Cyst	7 (35%)	3 (14%)
Interstitial Cell, Hyperplasia		1 (5%)
Renal Tubule, Cyst	6 (30%)	5 (23%)
Renal Tubule, Dilatation		1 (5%)
Renal Tubule, Hypertrophy		

*** END OF REPORT ***

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