

Experiment Number: 10034 - 04

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS
ABRIDGED) (a)**

Date Report Requested: 08/16/2017

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

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

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR)
RATS MALE

F1 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

	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
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)
Intestine Large, Cecum	(0)	(0)	(0)	(0)	(0)	(0)
Adenoma						
Intestine Large, Colon	(29)	(22)	(31)	(30)	(27)	(30)
Adenocarcinoma	1 (3%)		1 (3%)			
Adenoma					1 (4%)	
Intestine Large, Rectum	(0)	(0)	(0)	(0)	(0)	(2)
Leiomyosarcoma						1 (50%)
Intestine Small, Duodenum	(0)	(0)	(0)	(0)	(1)	(0)
Adenocarcinoma					1 (100%)	
Adenoma						
Intestine Small, Ileum	(26)	(17)	(27)	(24)	(25)	(28)
Intestine Small, Jejunum	(0)	(0)	(1)	(0)	(1)	(1)
Adenocarcinoma					1 (100%)	1 (100%)
Adenoma						
Liver	(50)	(47)	(48)	(50)	(50)	(45)
Fibrosarcoma, Metastatic, Skin				1 (2%)		
Hemangiosarcoma		1 (2%)		1 (2%)	1 (2%)	
Hepatocellular Adenoma	1 (2%)			2 (4%)	1 (2%)	
Hepatocellular Adenoma, Multiple			1 (2%)		1 (2%)	
Hepatocellular Carcinoma				2 (4%)	1 (2%)	3 (7%)
Lipoma				1 (2%)		

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

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Species/Strain: RATS/Sprague Dawley (NCTR)

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
Sarcoma, Metastatic, Uncertain Primary Site					1 (2%)	
Mesentery	(1)	(0)	(4)	(1)	(1)	(4)
Liposarcoma, Metastatic, Kidney						
Oral Mucosa	(1)	(0)	(1)	(0)	(1)	(0)
Fibrosarcoma					1 (100%)	
Squamous Cell Carcinoma	1 (100%)		1 (100%)			
Squamous Cell Papilloma						
Pancreas	(50)	(46)	(48)	(49)	(48)	(44)
Fibroma					1 (2%)	
Liposarcoma, Metastatic, Kidney						
Sarcoma, Metastatic, Spleen						
Acinar Cell, Adenoma	1 (2%)			1 (2%)		
Salivary Glands	(0)	(0)	(0)	(0)	(0)	(0)
Stomach, Forestomach	(36)	(31)	(33)	(36)	(32)	(34)
Squamous Cell Carcinoma						
Squamous Cell Papilloma	2 (6%)					
Stomach, Glandular	(34)	(30)	(33)	(32)	(33)	(33)
Adenoma						
Schwannoma Malignant						
Squamous Cell Papilloma			1 (3%)			
Tongue	(0)	(1)	(0)	(0)	(0)	(1)
Squamous Cell Papilloma						1 (100%)
CARDIOVASCULAR SYSTEM						
Blood Vessel	(50)	(48)	(48)	(50)	(50)	(46)
Heart	(50)	(48)	(48)	(50)	(50)	(46)
Schwannoma Malignant						
ENDOCRINE SYSTEM						
Adrenal Cortex	(50)	(48)	(48)	(50)	(48)	(45)
Adenoma	1 (2%)			1 (2%)	2 (4%)	
Sarcoma, Metastatic, Uncertain Primary Site					1 (2%)	
Adrenal Medulla	(50)	(48)	(47)	(50)	(50)	(45)

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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
Pheochromocytoma Benign	3 (6%)	3 (6%)	2 (4%)	3 (6%)	2 (4%)	
Pheochromocytoma Malignant	1 (2%)	1 (2%)	1 (2%)			1 (2%)
Bilateral, Pheochromocytoma Benign						
Bilateral, Pheochromocytoma Malignant	1 (2%)				1 (2%)	
Islets, Pancreatic	(50)	(46)	(48)	(48)	(49)	(45)
Adenoma	2 (4%)	3 (7%)	7 (15%)	1 (2%)	4 (8%)	5 (11%)
Carcinoma		3 (7%)				
Sarcoma, Metastatic, Uncertain Primary Site					1 (2%)	
Parathyroid Gland	(49)	(46)	(47)	(50)	(50)	(46)
Adenoma						1 (2%)
Pituitary Gland	(48)	(48)	(48)	(50)	(50)	(45)
Craniopharyngioma						
Pars Distalis, Adenoma	21 (44%)	25 (52%)	23 (48%)	21 (42%)	21 (42%)	17 (38%)
Pars Distalis, Carcinoma					1 (2%)	
Pars Intermedia, Adenoma		1 (2%)	1 (2%)			
Thyroid Gland	(46)	(40)	(47)	(44)	(44)	(44)
C-cell, Adenoma					2 (5%)	
C-cell, Carcinoma		1 (3%)		1 (2%)		
Follicular Cell, Adenoma						
Follicular Cell, Carcinoma		1 (3%)	1 (2%)			
GENERAL BODY SYSTEM						
Peritoneum	(0)	(0)	(0)	(0)	(0)	(1)
Paraganglioma						1 (100%)
Tissue NOS	(2)	(0)	(0)	(0)	(1)	(1)
Sarcoma	1 (50%)					
Sarcoma, Metastatic, Uncertain Primary Site					1 (100%)	
GENITAL SYSTEM						
Bulbourethral Gland	(1)	(0)	(0)	(0)	(0)	(0)
Coagulating Gland	(47)	(46)	(47)	(49)	(46)	(45)
Sarcoma, Metastatic, Uncertain Primary Site					1 (2%)	
Ductus Deferens	(0)	(0)	(1)	(0)	(0)	(0)

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Lab: NCTR

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Epididymis	(49)	(48)	(48)	(50)	(50)	(46)
Sarcoma, Metastatic, Uncertain Primary Site					1 (2%)	
Fat Pad, Epididymal	(2)	(2)	(0)	(1)	(3)	(1)
Lipoma				1 (100%)		
Sarcoma, Metastatic, Uncertain Primary Site					1 (33%)	
Preputial Gland	(15)	(15)	(15)	(13)	(16)	(9)
Adenoma						
Carcinoma	3 (20%)	2 (13%)	5 (33%)	5 (38%)	8 (50%)	3 (33%)
Carcinosarcoma						
Squamous Cell Carcinoma						
Squamous Cell Papilloma	1 (7%)	1 (7%)		1 (8%)	1 (6%)	
Bilateral, Carcinoma	1 (7%)					
Prostate, Dorsal/lateral Lobe	(50)	(48)	(48)	(50)	(50)	(46)
Adenocarcinoma						
Adenoma						1 (2%)
Sarcoma, Metastatic, Uncertain Primary Site					1 (2%)	
Prostate, Ventral Lobe	(50)	(48)	(48)	(49)	(49)	(46)
Adenoma	6 (12%)	5 (10%)	2 (4%)	4 (8%)	2 (4%)	3 (7%)
Adenoma, Multiple		2 (4%)				3 (7%)
Sarcoma, Metastatic, Uncertain Primary Site					1 (2%)	
Seminal Vesicle	(44)	(42)	(45)	(41)	(44)	(43)
Adenoma				1 (2%)		
Carcinosarcoma						
Sarcoma, Metastatic, Uncertain Primary Site					1 (2%)	
Testes	(49)	(48)	(48)	(50)	(50)	(46)
Sarcoma, Metastatic, Uncertain Primary Site					1 (2%)	
Seminoma Benign						
Seminoma Malignant		1 (2%)				
Interstitial Cell, Adenoma						

HEMATOPOIETIC SYSTEM

Bone Marrow	(48)	(48)	(48)	(49)	(50)	(45)
Osteosarcoma, Metastatic, Bone, Femur						
Lymph Node	(15)	(9)	(13)	(15)	(16)	(11)

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Lumbar, Carcinoma, Metastatic, Preputial Gland						
Lumbar, Sarcoma, Metastatic, Skin					1 (6%)	
Renal, Hemangioma					1 (6%)	
Lymph Node, Mandibular	(7)	(10)	(9)	(8)	(9)	(4)
Squamous Cell Carcinoma, Metastatic, Skin						
Lymph Node, Mesenteric	(0)	(1)	(1)	(1)	(2)	(3)
Spleen	(49)	(47)	(48)	(47)	(49)	(45)
Hemangiosarcoma					1 (2%)	
Liposarcoma						
Sarcoma		2 (4%)	1 (2%)			
Sarcoma, Metastatic, Uncertain Primary Site					1 (2%)	
Thymus	(50)	(46)	(46)	(49)	(49)	(43)

INTEGUMENTARY SYSTEM

Mammary Gland	(50)	(48)	(48)	(50)	(50)	(45)
Adenocarcinoma						
Adenocarcinoma, Multiple	1 (2%)					
Adenoma						
Fibroadenoma		1 (2%)	1 (2%)	2 (4%)	1 (2%)	1 (2%)
Fibroadenoma, Multiple		1 (2%)			1 (2%)	
Fibroma	2 (4%)				2 (4%)	
Fibroma, Multiple						1 (2%)
Lipoma						
Skin	(12)	(16)	(14)	(14)	(19)	(17)
Basal Cell Adenoma				1 (7%)		1 (6%)
Basal Cell Carcinoma						
Fibroma	1 (8%)					
Keratoacanthoma						
Pilomatrixoma	1 (8%)					
Squamous Cell Carcinoma		2 (13%)	1 (7%)			
Squamous Cell Papilloma		2 (13%)	1 (7%)	2 (14%)	2 (11%)	
Sebaceous Gland, Adenoma						1 (6%)
Subcutaneous Tissue, Fibroma		1 (6%)	1 (7%)	1 (7%)	1 (5%)	1 (6%)

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Subcutaneous Tissue, Fibrosarcoma			2 (14%)	1 (7%)		2 (12%)
Subcutaneous Tissue, Lipoma		1 (6%)	1 (7%)	1 (7%)	1 (5%)	
Subcutaneous Tissue, Myxosarcoma			1 (7%)			
Subcutaneous Tissue, Sarcoma		1 (6%)			1 (5%)	
Subcutaneous Tissue, Schwannoma Malignant						
MUSCULOSKELETAL SYSTEM						
Bone	(1)	(0)	(1)	(2)	(2)	(1)
Cranium, Osteosarcoma					1 (50%)	
Mandible, Squamous Cell Carcinoma, Deep Invasion						
Rib, Osteosarcoma	1 (100%)					1 (100%)
Tibia, Osteosarcoma				1 (50%)		
Vertebra, Chordoma				1 (50%)		
Bone, Femur	(50)	(48)	(48)	(50)	(50)	(46)
Osteosarcoma						
Skeletal Muscle	(2)	(0)	(3)	(1)	(1)	(1)
NERVOUS SYSTEM						
Brain, Brain Stem	(49)	(48)	(48)	(49)	(49)	(46)
Carcinoma, Deep Invasion					1 (2%)	
Granular Cell Tumor Benign		1 (2%)				
Granular Cell Tumor Malignant						
Brain, Cerebellum	(50)	(48)	(48)	(49)	(49)	(46)
Granular Cell Tumor Malignant						
Brain, Cerebrum	(50)	(48)	(48)	(49)	(49)	(46)
Granular Cell Tumor Benign				4 (8%)	1 (2%)	
Granular Cell Tumor Malignant	1 (2%)	1 (2%)				
Meningioma Benign						
Oligodendroglioma Malignant						
Sarcoma						
Nerve Trigeminal	(11)	(6)	(5)	(9)	(14)	(8)
Peripheral Nerve, Sciatic	(11)	(6)	(5)	(9)	(14)	(8)

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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
Peripheral Nerve, Tibial	(11)	(6)	(5)	(9)	(14)	(8)
Spinal Cord, Cervical	(11)	(6)	(5)	(8)	(14)	(8)
Spinal Cord, Lumbar	(11)	(6)	(5)	(8)	(14)	(8)
Spinal Cord, Thoracic	(11)	(6)	(5)	(8)	(14)	(8)

RESPIRATORY SYSTEM

Lung	(38)	(39)	(34)	(38)	(35)	(36)
Alveolar/Bronchiolar Adenoma	1 (3%)					
Alveolar/Bronchiolar Carcinoma		1 (3%)				
Carcinoma, Metastatic, Zymbal'S Gland						
Chordoma, Metastatic, Bone				1 (3%)		
Neural Crest Tumor, Malignant, Metastatic, Ear						
Osteosarcoma, Metastatic, Bone, Femur						
Sarcoma						
Sarcoma, Metastatic, Tissue Nos						
Sarcoma, Metastatic, Uncertain Primary Site					1 (3%)	
Nose	(33)	(32)	(31)	(34)	(32)	(35)
Adenoma						
Sarcoma, Metastatic, Brain, Cerebrum						
Squamous Cell Carcinoma			1 (3%)		2 (6%)	
Trachea	(31)	(23)	(30)	(27)	(32)	(33)

SPECIAL SENSES SYSTEM

Ear	(0)	(0)	(0)	(0)	(0)	(0)
Neural Crest Tumor, Benign						
Neural Crest Tumor, Malignant						
Eye	(4)	(1)	(0)	(1)	(1)	(1)
Lacrimal Gland	(0)	(0)	(0)	(0)	(0)	(0)
Zymbal's Gland	(2)	(0)	(3)	(0)	(1)	(1)
Adenoma			2 (67%)			1 (100%)
Carcinoma	1 (50%)		1 (33%)			

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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
URINARY SYSTEM						
Kidney	(50)	(48)	(48)	(50)	(50)	(45)
Adenoma, Tubular						
Lipoma	1 (2%)					
Liposarcoma						
Mesenchymal Tumor Malignant						
Oncocytoma Benign			1 (2%)			
Sarcoma, Metastatic, Spleen		1 (2%)				
Urinary Bladder	(4)	(1)	(3)	(5)	(4)	(3)
Transitional Epithelium, Carcinoma				1 (20%)		
Transitional Epithelium, Papilloma						1 (33%)
SYSTEMIC LESIONS						
Multiple Organ	*(50)	*(48)	*(48)	*(50)	*(50)	*(46)
Histiocytic Sarcoma	1 (2%)					2 (4%)
Leukemia Granulocytic	1 (2%)				1 (2%)	
Leukemia Mononuclear	1 (2%)		1 (2%)			
Lymphoma Malignant	2 (4%)	1 (2%)	3 (6%)	3 (6%)	3 (6%)	3 (7%)
Mesothelioma Malignant				2 (4%)		1 (2%)

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* Number of animals with any tissue examined microscopically

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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

Disposition Summary

	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
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)
Intestine Large, Cecum	(0)	(0)	(1)	(1)	(1)	(0)
Adenoma					1 (100%)	
Intestine Large, Colon	(15)	(11)	(21)	(26)	(24)	(33)
Adenocarcinoma	1 (7%)		1 (5%)			
Adenoma			1 (5%)			
Intestine Large, Rectum	(0)	(0)	(0)	(0)	(0)	(0)
Leiomyosarcoma						
Intestine Small, Duodenum	(0)	(0)	(0)	(1)	(0)	(0)
Adenocarcinoma				1 (100%)		
Adenoma						
Intestine Small, Ileum	(14)	(10)	(20)	(22)	(24)	(31)
Intestine Small, Jejunum	(1)	(0)	(1)	(3)	(1)	(1)
Adenocarcinoma			1 (100%)	2 (67%)		1 (100%)
Adenoma				1 (33%)		
Liver	(26)	(25)	(50)	(48)	(48)	(50)
Fibrosarcoma, Metastatic, Skin						
Hemangiosarcoma						
Hepatocellular Adenoma		1 (4%)	1 (2%)	1 (2%)	2 (4%)	2 (4%)
Hepatocellular Adenoma, Multiple						
Hepatocellular Carcinoma		1 (4%)		1 (2%)	1 (2%)	2 (4%)
Lipoma						

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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
Sarcoma, Metastatic, Uncertain Primary Site						
Mesentery	(1)	(1)	(1)	(2)	(3)	(1)
Liposarcoma, Metastatic, Kidney				1 (50%)		
Oral Mucosa	(0)	(0)	(1)	(0)	(1)	(0)
Fibrosarcoma						
Squamous Cell Carcinoma					1 (100%)	
Squamous Cell Papilloma			1 (100%)			
Pancreas	(26)	(25)	(47)	(46)	(47)	(49)
Fibroma						
Liposarcoma, Metastatic, Kidney				1 (2%)		
Sarcoma, Metastatic, Spleen	1 (4%)					
Acinar Cell, Adenoma	1 (4%)	1 (4%)	1 (2%)	1 (2%)		
Salivary Glands	(0)	(0)	(0)	(0)	(0)	(1)
Stomach, Forestomach	(17)	(15)	(31)	(33)	(34)	(37)
Squamous Cell Carcinoma	1 (6%)					
Squamous Cell Papilloma			1 (3%)	1 (3%)		
Stomach, Glandular	(16)	(12)	(30)	(29)	(27)	(35)
Adenoma				1 (3%)		
Schwannoma Malignant						1 (3%)
Squamous Cell Papilloma						
Tongue	(0)	(0)	(0)	(0)	(0)	(1)
Squamous Cell Papilloma						
CARDIOVASCULAR SYSTEM						
Blood Vessel	(26)	(26)	(50)	(48)	(48)	(50)
Heart	(26)	(26)	(50)	(48)	(48)	(50)
Schwannoma Malignant				1 (2%)		
ENDOCRINE SYSTEM						
Adrenal Cortex	(26)	(26)	(47)	(47)	(48)	(49)
Adenoma	1 (4%)			2 (4%)	1 (2%)	
Sarcoma, Metastatic, Uncertain Primary Site						
Adrenal Medulla	(26)	(26)	(47)	(46)	(48)	(49)

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Species/Strain: RATS/Sprague Dawley (NCTR)

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
Pheochromocytoma Benign	1 (4%)		4 (9%)	2 (4%)	5 (10%)	5 (10%)
Pheochromocytoma Malignant			1 (2%)	1 (2%)		
Bilateral, Pheochromocytoma Benign	1 (4%)	1 (4%)		1 (2%)	1 (2%)	
Bilateral, Pheochromocytoma Malignant						
Islets, Pancreatic	(26)	(26)	(48)	(47)	(48)	(48)
Adenoma			4 (8%)	4 (9%)	2 (4%)	4 (8%)
Carcinoma				1 (2%)	2 (4%)	
Sarcoma, Metastatic, Uncertain Primary Site						
Parathyroid Gland	(25)	(25)	(49)	(46)	(46)	(49)
Adenoma		1 (4%)	1 (2%)			
Pituitary Gland	(26)	(26)	(46)	(48)	(48)	(49)
Craniopharyngioma						
Pars Distalis, Adenoma	12 (46%)	6 (23%)	29 (63%)	22 (46%)	19 (40%)	19 (39%)
Pars Distalis, Carcinoma					1 (2%)	
Pars Intermedia, Adenoma				1 (2%)		
Thyroid Gland	(25)	(25)	(43)	(45)	(44)	(45)
C-cell, Adenoma				1 (2%)		
C-cell, Carcinoma			1 (2%)			
Follicular Cell, Adenoma	1 (4%)			1 (2%)		
Follicular Cell, Carcinoma						
GENERAL BODY SYSTEM						
Peritoneum	(0)	(0)	(0)	(0)	(0)	(0)
Paraganglioma						
Tissue NOS	(0)	(1)	(0)	(1)	(0)	(1)
Sarcoma						1 (100%)
Sarcoma, Metastatic, Uncertain Primary Site						
GENITAL SYSTEM						
Bulbourethral Gland	(0)	(0)	(0)	(1)	(0)	(0)
Coagulating Gland	(26)	(25)	(45)	(45)	(44)	(50)
Sarcoma, Metastatic, Uncertain Primary Site						
Ductus Deferens	(0)	(1)	(0)	(0)	(0)	(0)

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

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 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
Epididymis	(26)	(26)	(49)	(48)	(48)	(50)
Sarcoma, Metastatic, Uncertain Primary Site						
Fat Pad, Epididymal	(0)	(0)	(0)	(0)	(0)	(4)
Lipoma						
Sarcoma, Metastatic, Uncertain Primary Site						
Preputial Gland	(4)	(6)	(14)	(16)	(17)	(19)
Adenoma		1 (17%)			1 (6%)	
Carcinoma	4 (100%)	1 (17%)	6 (43%)	3 (19%)	4 (24%)	6 (32%)
Carcinosarcoma						
Squamous Cell Carcinoma						
Squamous Cell Papilloma				1 (6%)		1 (5%)
Bilateral, Carcinoma				2 (13%)		
Prostate, Dorsal/lateral Lobe	(26)	(25)	(46)	(48)	(48)	(50)
Adenocarcinoma					1 (2%)	
Adenoma						
Sarcoma, Metastatic, Uncertain Primary Site						
Prostate, Ventral Lobe	(26)	(26)	(48)	(47)	(47)	(50)
Adenoma	1 (4%)	2 (8%)	3 (6%)	2 (4%)	3 (6%)	1 (2%)
Adenoma, Multiple	1 (4%)		1 (2%)	2 (4%)	1 (2%)	1 (2%)
Sarcoma, Metastatic, Uncertain Primary Site						
Seminal Vesicle	(25)	(23)	(39)	(43)	(41)	(47)
Adenoma						
Carcinosarcoma						
Sarcoma, Metastatic, Uncertain Primary Site						
Testes	(26)	(26)	(49)	(48)	(48)	(50)
Sarcoma, Metastatic, Uncertain Primary Site						
Seminoma Benign				1 (2%)		
Seminoma Malignant						
Interstitial Cell, Adenoma	1 (4%)		1 (2%)		1 (2%)	

HEMATOPOIETIC SYSTEM

Bone Marrow	(26)	(25)	(47)	(47)	(46)	(50)
Osteosarcoma, Metastatic, Bone, Femur						
Lymph Node	(7)	(6)	(16)	(17)	(15)	(15)

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

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 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
Lumbar, Carcinoma, Metastatic, Preputial Gland					1 (7%)	
Lumbar, Sarcoma, Metastatic, Skin						
Renal, Hemangioma						
Lymph Node, Mandibular	(6)	(7)	(8)	(8)	(14)	(9)
Squamous Cell Carcinoma, Metastatic, Skin			1 (13%)		1 (7%)	
Lymph Node, Mesenteric	(0)	(1)	(1)	(2)	(1)	(2)
Spleen	(26)	(25)	(47)	(47)	(47)	(49)
Hemangiosarcoma						
Liposarcoma				1 (2%)		
Sarcoma	2 (8%)			1 (2%)	1 (2%)	
Sarcoma, Metastatic, Uncertain Primary Site						
Thymus	(24)	(25)	(48)	(48)	(46)	(47)

INTEGUMENTARY SYSTEM

Mammary Gland	(25)	(25)	(49)	(48)	(47)	(50)
Adenocarcinoma		1 (4%)				
Adenocarcinoma, Multiple						
Adenoma						
Fibroadenoma			1 (2%)	1 (2%)	1 (2%)	1 (2%)
Fibroadenoma, Multiple						
Fibroma		2 (8%)	1 (2%)			1 (2%)
Fibroma, Multiple						
Lipoma		1 (4%)				
Skin	(6)	(7)	(21)	(18)	(24)	(15)
Basal Cell Adenoma		1 (14%)	1 (5%)	1 (6%)	1 (4%)	
Basal Cell Carcinoma		1 (14%)				1 (7%)
Fibroma			1 (5%)			
Keratoacanthoma					1 (4%)	
Pilomatrixoma						
Squamous Cell Carcinoma			2 (10%)		1 (4%)	
Squamous Cell Papilloma		1 (14%)	3 (14%)		4 (17%)	1 (7%)
Sebaceous Gland, Adenoma				1 (6%)		
Subcutaneous Tissue, Fibroma			1 (5%)	5 (28%)	2 (8%)	

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

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 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
Subcutaneous Tissue, Fibrosarcoma			1 (5%)			1 (7%)
Subcutaneous Tissue, Lipoma		2 (29%)	2 (10%)		2 (8%)	
Subcutaneous Tissue, Myxosarcoma						
Subcutaneous Tissue, Sarcoma						
Subcutaneous Tissue, Schwannoma Malignant			1 (5%)		1 (4%)	2 (13%)
MUSCULOSKELETAL SYSTEM						
Bone	(1)	(1)	(3)	(0)	(1)	(1)
Cranium, Osteosarcoma						
Mandible, Squamous Cell Carcinoma, Deep Invasion			1 (33%)			
Rib, Osteosarcoma						
Tibia, Osteosarcoma						
Vertebra, Chordoma						
Bone, Femur	(26)	(26)	(50)	(48)	(48)	(50)
Osteosarcoma						
Skeletal Muscle	(2)	(0)	(1)	(1)	(1)	(2)
NERVOUS SYSTEM						
Brain, Brain Stem	(26)	(26)	(50)	(48)	(47)	(50)
Carcinoma, Deep Invasion					1 (2%)	
Granular Cell Tumor Benign						
Granular Cell Tumor Malignant					1 (2%)	1 (2%)
Brain, Cerebellum	(26)	(26)	(49)	(48)	(48)	(50)
Granular Cell Tumor Malignant		1 (4%)	1 (2%)			
Brain, Cerebrum	(26)	(26)	(49)	(48)	(48)	(50)
Granular Cell Tumor Benign				1 (2%)		1 (2%)
Granular Cell Tumor Malignant	1 (4%)				1 (2%)	1 (2%)
Meningioma Benign		1 (4%)				
Oligodendroglioma Malignant						
Sarcoma						
Nerve Trigeminal	(4)	(3)	(2)	(0)	(2)	(6)
Peripheral Nerve, Sciatic	(4)	(3)	(2)	(0)	(2)	(6)

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

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 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
Peripheral Nerve, Tibial	(4)	(3)	(2)	(0)	(2)	(6)
Spinal Cord, Cervical	(4)	(3)	(2)	(0)	(2)	(6)
Spinal Cord, Lumbar	(4)	(3)	(2)	(0)	(2)	(6)
Spinal Cord, Thoracic	(4)	(3)	(2)	(0)	(2)	(6)
RESPIRATORY SYSTEM						
Lung	(19)	(13)	(36)	(33)	(39)	(40)
Alveolar/Bronchiolar Adenoma						
Alveolar/Bronchiolar Carcinoma						
Carcinoma, Metastatic, Zymbal'S Gland	1 (5%)					
Chordoma, Metastatic, Bone						
Neural Crest Tumor, Malignant, Metastatic, Ear						1 (3%)
Osteosarcoma, Metastatic, Bone, Femur						
Sarcoma						
Sarcoma, Metastatic, Tissue Nos						
Sarcoma, Metastatic, Uncertain Primary Site						
Nose	(17)	(12)	(30)	(32)	(31)	(37)
Adenoma						
Sarcoma, Metastatic, Brain, Cerebrum						
Squamous Cell Carcinoma					2 (6%)	
Trachea	(17)	(12)	(27)	(26)	(27)	(32)
SPECIAL SENSES SYSTEM						
Ear	(1)	(0)	(0)	(0)	(0)	(1)
Neural Crest Tumor, Benign	1 (100%)					
Neural Crest Tumor, Malignant						1 (100%)
Eye	(3)	(2)	(2)	(1)	(2)	(1)
Lacrimal Gland	(0)	(0)	(0)	(1)	(0)	(0)
Zymbal's Gland	(1)	(1)	(0)	(2)	(1)	(1)
Adenoma					1 (100%)	1 (100%)
Carcinoma	1 (100%)	1 (100%)		1 (50%)		

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

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 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
URINARY SYSTEM						
Kidney	(26)	(26)	(50)	(48)	(48)	(50)
Adenoma, Tubular			1 (2%)			
Lipoma				1 (2%)		
Liposarcoma	1 (4%)			2 (4%)	1 (2%)	1 (2%)
Mesenchymal Tumor Malignant				1 (2%)		
Oncocytoma Benign						
Sarcoma, Metastatic, Spleen						
Urinary Bladder	(1)	(0)	(6)	(1)	(4)	(4)
Transitional Epithelium, Carcinoma						
Transitional Epithelium, Papilloma						
SYSTEMIC LESIONS						
Multiple Organ	*(26)	*(26)	*(50)	*(48)	*(48)	*(50)
Histiocytic Sarcoma		1 (4%)				1 (2%)
Leukemia Granulocytic				1 (2%)	1 (2%)	
Leukemia Mononuclear			1 (2%)		2 (4%)	
Lymphoma Malignant	2 (8%)	1 (4%)	1 (2%)		1 (2%)	3 (6%)
Mesothelioma Malignant				1 (2%)		

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

* Number of animals with any tissue examined microscopically

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 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)
Intestine Large, Cecum	(1)	(0)
Adenoma		
Intestine Large, Colon	(29)	(31)
Adenocarcinoma		
Adenoma		
Intestine Large, Rectum	(0)	(0)
Leiomyosarcoma		
Intestine Small, Duodenum	(0)	(1)
Adenocarcinoma		
Adenoma		1 (100%)
Intestine Small, Ileum	(26)	(30)
Intestine Small, Jejunum	(0)	(2)
Adenocarcinoma		
Adenoma		
Liver	(50)	(46)
Fibrosarcoma, Metastatic, Skin		
Hemangiosarcoma		
Hepatocellular Adenoma	1 (2%)	
Hepatocellular Adenoma, Multiple		
Hepatocellular Carcinoma		1 (2%)
Lipoma		

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

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 2500.StDose M	F1 25000StDose M
Sarcoma, Metastatic, Uncertain Primary Site		
Mesentery	(1)	(2)
Liposarcoma, Metastatic, Kidney		
Oral Mucosa	(1)	(0)
Fibrosarcoma		
Squamous Cell Carcinoma	1 (100%)	
Squamous Cell Papilloma		
Pancreas	(50)	(44)
Fibroma		
Liposarcoma, Metastatic, Kidney		
Sarcoma, Metastatic, Spleen		
Acinar Cell, Adenoma	1 (2%)	1 (2%)
Salivary Glands	(0)	(0)
Stomach, Forestomach	(34)	(37)
Squamous Cell Carcinoma		
Squamous Cell Papilloma		
Stomach, Glandular	(33)	(36)
Adenoma		
Schwannoma Malignant		
Squamous Cell Papilloma		
Tongue	(0)	(0)
Squamous Cell Papilloma		

CARDIOVASCULAR SYSTEM

Blood Vessel	(50)	(46)
Heart	(50)	(46)
Schwannoma Malignant	1 (2%)	

ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(44)
Adenoma	1 (2%)	
Sarcoma, Metastatic, Uncertain Primary Site		
Adrenal Medulla	(50)	(44)

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

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 2500.StDose M	F1 25000StDose M
Pheochromocytoma Benign		4 (9%)
Pheochromocytoma Malignant		
Bilateral, Pheochromocytoma Benign		
Bilateral, Pheochromocytoma Malignant		
Islets, Pancreatic	(50)	(44)
Adenoma	1 (2%)	4 (9%)
Carcinoma	2 (4%)	
Sarcoma, Metastatic, Uncertain Primary Site		
Parathyroid Gland	(50)	(43)
Adenoma		
Pituitary Gland	(50)	(43)
Craniopharyngioma		1 (2%)
Pars Distalis, Adenoma	19 (38%)	17 (40%)
Pars Distalis, Carcinoma		
Pars Intermedia, Adenoma		
Thyroid Gland	(48)	(42)
C-cell, Adenoma	1 (2%)	3 (7%)
C-cell, Carcinoma	1 (2%)	
Follicular Cell, Adenoma	1 (2%)	
Follicular Cell, Carcinoma		

GENERAL BODY SYSTEM

Peritoneum	(0)	(0)
Paraganglioma		
Tissue NOS	(0)	(1)
Sarcoma		1 (100%)
Sarcoma, Metastatic, Uncertain Primary Site		

GENITAL SYSTEM

Bulbourethral Gland	(0)	(0)
Coagulating Gland	(48)	(44)
Sarcoma, Metastatic, Uncertain Primary Site		
Ductus Deferens	(0)	(0)

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

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 2500.StDose M	F1 25000StDose M
Epididymis	(50)	(46)
Sarcoma, Metastatic, Uncertain Primary Site		
Fat Pad, Epididymal	(0)	(0)
Lipoma		
Sarcoma, Metastatic, Uncertain Primary Site		
Preputial Gland	(15)	(12)
Adenoma		2 (17%)
Carcinoma	4 (27%)	3 (25%)
Carcinosarcoma		1 (8%)
Squamous Cell Carcinoma		1 (8%)
Squamous Cell Papilloma		
Bilateral, Carcinoma	1 (7%)	1 (8%)
Prostate, Dorsal/lateral Lobe	(49)	(45)
Adenocarcinoma		
Adenoma		
Sarcoma, Metastatic, Uncertain Primary Site		
Prostate, Ventral Lobe	(49)	(45)
Adenoma	2 (4%)	4 (9%)
Adenoma, Multiple	2 (4%)	2 (4%)
Sarcoma, Metastatic, Uncertain Primary Site		
Seminal Vesicle	(48)	(42)
Adenoma		
Carcinosarcoma	1 (2%)	
Sarcoma, Metastatic, Uncertain Primary Site		
Testes	(49)	(45)
Sarcoma, Metastatic, Uncertain Primary Site		
Seminoma Benign		
Seminoma Malignant	1 (2%)	
Interstitial Cell, Adenoma	1 (2%)	1 (2%)

HEMATOPOIETIC SYSTEM

Bone Marrow	(49)	(45)
Osteosarcoma, Metastatic, Bone, Femur		1 (2%)
Lymph Node	(27)	(16)

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

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 2500.StDose M	F1 25000StDose M
Lumbar, Carcinoma, Metastatic, Preputial Gland		
Lumbar, Sarcoma, Metastatic, Skin		
Renal, Hemangioma		
Lymph Node, Mandibular	(13)	(15)
Squamous Cell Carcinoma, Metastatic, Skin		
Lymph Node, Mesenteric	(2)	(3)
Spleen	(49)	(45)
Hemangiosarcoma		
Liposarcoma		
Sarcoma		
Sarcoma, Metastatic, Uncertain Primary Site		
Thymus	(48)	(42)

INTEGUMENTARY SYSTEM

Mammary Gland	(49)	(45)
Adenocarcinoma		
Adenocarcinoma, Multiple		
Adenoma	1 (2%)	
Fibroadenoma	3 (6%)	1 (2%)
Fibroadenoma, Multiple		
Fibroma		1 (2%)
Fibroma, Multiple		
Lipoma		
Skin	(17)	(16)
Basal Cell Adenoma	1 (6%)	
Basal Cell Carcinoma		
Fibroma		1 (6%)
Keratoacanthoma		
Pilomatrixoma		
Squamous Cell Carcinoma	1 (6%)	
Squamous Cell Papilloma	4 (24%)	1 (6%)
Sebaceous Gland, Adenoma		
Subcutaneous Tissue, Fibroma	3 (18%)	

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

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 2500.StDose M	F1 25000StDose M
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Subcutaneous Tissue, Fibrosarcoma

Subcutaneous Tissue, Lipoma

1 (6%)

1 (6%)

Subcutaneous Tissue, Myxosarcoma

Subcutaneous Tissue, Sarcoma

1 (6%)

1 (6%)

Subcutaneous Tissue, Schwannoma Malignant

MUSCULOSKELETAL SYSTEM

Bone

(2)

(1)

Cranium, Osteosarcoma

Mandible, Squamous Cell Carcinoma, Deep
Invasion

Rib, Osteosarcoma

Tibia, Osteosarcoma

Vertebra, Chordoma

Bone, Femur

(50)

(46)

Osteosarcoma

1 (2%)

Skeletal Muscle

(2)

(3)

NERVOUS SYSTEM

Brain, Brain Stem

(50)

(46)

Carcinoma, Deep Invasion

Granular Cell Tumor Benign

Granular Cell Tumor Malignant

Brain, Cerebellum

(50)

(46)

Granular Cell Tumor Malignant

Brain, Cerebrum

(50)

(46)

Granular Cell Tumor Benign

Granular Cell Tumor Malignant

Meningioma Benign

1 (2%)

Oligodendroglioma Malignant

1 (2%)

Sarcoma

1 (2%)

Nerve Trigeminal

(8)

(3)

Peripheral Nerve, Sciatic

(8)

(3)

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

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR) RATS MALE	F1 2500.StDose M	F1 25000StDose M
Peripheral Nerve, Tibial	(8)	(3)
Spinal Cord, Cervical	(8)	(3)
Spinal Cord, Lumbar	(8)	(3)
Spinal Cord, Thoracic	(8)	(3)

RESPIRATORY SYSTEM

Lung	(41)	(38)
Alveolar/Bronchiolar Adenoma		
Alveolar/Bronchiolar Carcinoma		
Carcinoma, Metastatic, Zymbal'S Gland		
Chordoma, Metastatic, Bone		
Neural Crest Tumor, Malignant, Metastatic, Ear		
Osteosarcoma, Metastatic, Bone, Femur		1 (3%)
Sarcoma		1 (3%)
Sarcoma, Metastatic, Tissue Nos		1 (3%)
Sarcoma, Metastatic, Uncertain Primary Site		
Nose	(34)	(37)
Adenoma		1 (3%)
Sarcoma, Metastatic, Brain, Cerebrum		1 (3%)
Squamous Cell Carcinoma	1 (3%)	
Trachea	(33)	(33)

SPECIAL SENSES SYSTEM

Ear	(0)	(0)
Neural Crest Tumor, Benign		
Neural Crest Tumor, Malignant		
Eye	(1)	(1)
Lacrimal Gland	(0)	(0)
Zymbal's Gland	(0)	(1)
Adenoma		
Carcinoma		

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

Experiment Number: 10034 - 04

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS
ABRIDGED) (a)**

Date Report Requested: 08/16/2017

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR)
RATS MALE

F1 2500.StDose M

F1 25000StDose M

URINARY SYSTEM

Kidney	(50)	(45)
Adenoma, Tubular		
Lipoma	1 (2%)	
Liposarcoma		
Mesenchymal Tumor Malignant		
Oncocytoma Benign		
Sarcoma, Metastatic, Spleen		
Urinary Bladder	(3)	(4)
Transitional Epithelium, Carcinoma		
Transitional Epithelium, Papilloma		

SYSTEMIC LESIONS

Multiple Organ	*(50)	*(46)
Histiocytic Sarcoma	1 (2%)	
Leukemia Granulocytic		1 (2%)
Leukemia Mononuclear		
Lymphoma Malignant	2 (4%)	5 (11%)
Mesothelioma Malignant		1 (2%)

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

* Number of animals with any tissue examined microscopically

Experiment Number: 10034 - 04

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

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Bisphenol A

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CAS Number: 80-05-7

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Species/Strain: RATS/Sprague Dawley (NCTR)

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

Tumor Summary for Males

Total Animals with Primary Neoplasms (b)	39	36	41	40	40	32
Total Primary Neoplasms	62	65	64	66	73	57
Total Animals with Benign Neoplasms	31	29	31	32	28	27
Total Benign Neoplasms	43	47	44	48	48	39
Total Animals with Malignant Neoplasms	16	14	18	15	23	15
Total Malignant Neoplasms	18	18	20	18	25	18
Total Animals with Metastatic Neoplasms		1		2	2	1
Total Metastatic Neoplasms		1		2	14	1
Total Animals with Malignant Neoplasms Uncertain Primary Site					1	
Total Animals with Neoplasms Uncertain- Benign or Malignant	1					
Total Uncertain Neoplasms	1					

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

b - Primary tumors: all tumors except metastatic tumors

Experiment Number: 10034 - 04

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

Date Report Requested: 08/16/2017

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

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

Species/Strain: RATS/Sprague Dawley (NCTR)

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

Tumor Summary for Males

Total Animals with Primary Neoplasms (b)	19	16	41	39	37	38
Total Primary Neoplasms	34	29	77	75	72	61
Total Animals with Benign Neoplasms	13	13	39	34	27	24
Total Benign Neoplasms	20	21	59	55	49	38
Total Animals with Malignant Neoplasms	11	7	15	17	17	21
Total Malignant Neoplasms	14	8	18	20	23	23
Total Animals with Metastatic Neoplasms	2		1	1	2	1
Total Metastatic Neoplasms	2		1	2	2	1
Total Animals with Malignant Neoplasms Uncertain Primary Site						
Total Animals with Neoplasms Uncertain- Benign or Malignant						
Total Uncertain Neoplasms						

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

b - Primary tumors: all tumors except metastatic tumors

Experiment Number: 10034 - 04

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS
ABRIDGED) (a)**

Date Report Requested: 08/16/2017

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR)
RATS MALE

F1 2500.StDose M

F1 25000StDose M

Tumor Summary for Males

Total Animals with Primary Neoplasms (b)	33	35
Total Primary Neoplasms	63	66
Total Animals with Benign Neoplasms	28	25
Total Benign Neoplasms	45	46
Total Animals with Malignant Neoplasms	16	20
Total Malignant Neoplasms	18	20
Total Animals with Metastatic Neoplasms		3
Total Metastatic Neoplasms		4
Total Animals with Malignant Neoplasms Uncertain Primary Site		
Total Animals with Neoplasms Uncertain- Benign or Malignant		
Total Uncertain Neoplasms		

*** END OF MALE ***

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

b - Primary tumors: all tumors except metastatic tumors

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR)
RATS 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

	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
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)
Intestine Large, Cecum	(1)	(0)	(1)	(0)	(0)	(0)
Intestine Large, Colon	(31)	(30)	(31)	(32)	(34)	(38)
Adenocarcinoma						
Adenocarcinoma, Metastatic, Uterus						1 (3%)
Intestine Small, Duodenum	(0)	(0)	(0)	(0)	(0)	(0)
Intestine Small, Ileum	(29)	(29)	(31)	(32)	(32)	(37)
Adenocarcinoma, Metastatic, Uterus						1 (3%)
Intestine Small, Jejunum	(3)	(0)	(2)	(1)	(1)	(0)
Adenocarcinoma			1 (50%)	1 (100%)		
Leiomyoma	1 (33%)					
Leiomyosarcoma	1 (33%)					
Liver	(50)	(48)	(46)	(49)	(50)	(46)
Adenocarcinoma, Metastatic, Uterus						1 (2%)
Fibrosarcoma, Metastatic, Skin						
Hepatocellular Adenoma				1 (2%)	1 (2%)	
Sarcoma, Metastatic, Spleen				1 (2%)		
Sarcoma, Metastatic, Uncertain Primary Site						
Yolk Sac Carcinoma, Metastatic, Ovary				1 (2%)		
Mesentery	(2)	(0)	(3)	(3)	(4)	(3)
Adenocarcinoma, Metastatic, Uterus						1 (33%)
Hemangiosarcoma						

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Species/Strain: RATS/Sprague Dawley (NCTR)

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
Sarcoma, Metastatic, Uncertain Primary Site						
Yolk Sac Carcinoma, Metastatic, Ovary				1 (33%)		
Oral Mucosa	(0)	(0)	(0)	(0)	(0)	(0)
Squamous Cell Papilloma						
Pancreas	(50)	(48)	(46)	(49)	(49)	(46)
Adenocarcinoma, Metastatic, Uterus						1 (2%)
Yolk Sac Carcinoma, Metastatic, Ovary				1 (2%)		
Acinar Cell, Adenoma						
Stomach, Forestomach	(34)	(29)	(34)	(36)	(39)	(39)
Adenocarcinoma, Metastatic, Uterus						1 (3%)
Squamous Cell Carcinoma						
Squamous Cell Papilloma			1 (3%)			
Stomach, Glandular	(34)	(29)	(31)	(35)	(36)	(38)
Adenocarcinoma, Metastatic, Uterus						1 (3%)
Tongue	(0)	(0)	(0)	(0)	(0)	(0)
CARDIOVASCULAR SYSTEM						
Blood Vessel	(50)	(48)	(46)	(49)	(50)	(46)
Heart	(50)	(48)	(46)	(49)	(50)	(46)
Fibrosarcoma, Metastatic, Skin						
Schwannoma Benign	1 (2%)	1 (2%)				
Yolk Sac Carcinoma, Metastatic, Uncertain Primary Site			1 (2%)			
ENDOCRINE SYSTEM						
Adrenal Cortex	(50)	(48)	(45)	(49)	(49)	(46)
Adenoma	1 (2%)	1 (2%)		3 (6%)		2 (4%)
Fibrosarcoma, Metastatic, Skin						
Bilateral, Adenoma						
Adrenal Medulla	(50)	(48)	(46)	(49)	(49)	(46)
Pheochromocytoma Benign		1 (2%)		1 (2%)		2 (4%)
Pheochromocytoma Malignant		1 (2%)			1 (2%)	
Islets, Pancreatic	(50)	(48)	(46)	(49)	(49)	(46)

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Species/Strain: RATS/Sprague Dawley (NCTR)

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
Adenoma	2 (4%)	1 (2%)			2 (4%)	
Carcinoma			1 (2%)			
Parathyroid Gland	(50)	(48)	(45)	(47)	(50)	(45)
Adenoma			1 (2%)			
Carcinoma, Deep Invasion						
Pituitary Gland	(50)	(48)	(46)	(49)	(49)	(46)
Pars Distalis, Adenoma	21 (42%)	22 (46%)	12 (26%)	20 (41%)	19 (39%)	21 (46%)
Pars Distalis, Carcinoma	1 (2%)	1 (2%)				
Pars Intermedia, Adenoma				1 (2%)		
Thyroid Gland	(50)	(48)	(46)	(49)	(50)	(46)
C-cell, Adenoma			1 (2%)			2 (4%)
C-cell, Carcinoma		1 (2%)				
Follicular Cell, Carcinoma	1 (2%)					

GENERAL BODY SYSTEM

Tissue NOS	(0)	(1)	(0)	(1)	(1)	(0)
Fibrosarcoma, Metastatic, Clitoral Gland		1 (100%)				
Fibrosarcoma, Metastatic, Skin						
Leiomyosarcoma					1 (100%)	
Lipoma						
Sarcoma						

GENITAL SYSTEM

Clitoral Gland	(7)	(7)	(6)	(7)	(8)	(13)
Adenoma						2 (15%)
Carcinoma	1 (14%)	1 (14%)	1 (17%)	1 (14%)	4 (50%)	1 (8%)
Fibrosarcoma		1 (14%)		1 (14%)		
Squamous Cell Papilloma						
Fat Pad, Ovarian/parametrial	(1)	(0)	(0)	(1)	(1)	(1)
Adenocarcinoma, Metastatic, Uterus						1 (100%)
Ovary	(50)	(48)	(46)	(49)	(50)	(46)
Adenocarcinoma, Metastatic, Uterus						1 (2%)
Fibrosarcoma, Metastatic, Skin						

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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
Granulosa Cell Tumor Benign	1 (2%)			1 (2%)		
Granulosa Cell Tumor Malignant	1 (2%)					
Sarcoma, Metastatic, Uncertain Primary Site						
Sex Cord Stromal Tumor, Benign						
Thecoma Benign		1 (2%)				
Thecoma Malignant						
Tubulostromal Adenoma						
Yolk Sac Carcinoma				1 (2%)		
Oviduct	(47)	(48)	(46)	(48)	(47)	(46)
Uterus	(50)	(48)	(45)	(49)	(48)	(46)
Polyp Stromal	5 (10%)	3 (6%)	7 (16%)	2 (4%)	4 (8%)	3 (7%)
Polyp Stromal, Multiple						
Sarcoma						
Schwannoma Malignant						
Yolk Sac Carcinoma, Metastatic, Ovary				1 (2%)		
Cervix, Polyp Stromal						
Cervix, Squamous Cell Carcinoma						
Endometrium, Adenocarcinoma		1 (2%)			1 (2%)	2 (4%)
Endometrium, Adenoma	2 (4%)					
Endothelium, Adenoma						
Vagina	(49)	(48)	(45)	(49)	(50)	(46)
Sarcoma Stromal						
Epithelium, Squamous Cell Carcinoma		1 (2%)				
HEMATOPOIETIC SYSTEM						
Bone Marrow	(50)	(48)	(46)	(49)	(49)	(46)
Lymph Node	(12)	(9)	(6)	(8)	(4)	(6)
Mediastinal, Adenocarcinoma, Metastatic, Uterus						1 (17%)
Mediastinal, Fibrosarcoma, Metastatic, Skin						
Lymph Node, Mandibular	(5)	(0)	(4)	(2)	(4)	(6)
Lymph Node, Mesenteric	(2)	(1)	(2)	(0)	(0)	(2)
Spleen	(50)	(48)	(46)	(49)	(50)	(46)
Adenocarcinoma, Metastatic, Uterus						1 (2%)

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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
Fibrosarcoma, Metastatic, Skin Sarcoma				1 (2%)		
Thymoma Malignant, Metastatic, Thymus Yolk Sac Carcinoma, Metastatic, Ovary				1 (2%)		
Thymus	(50)	(48)	(44)	(49)	(49)	(45)
Squamous Cell Carcinoma						
Thymoma Benign	1 (2%)					
Epithelial Cell, Thymoma Malignant	1 (2%)					

INTEGUMENTARY SYSTEM

Mammary Gland	(50)	(48)	(46)	(49)	(50)	(46)
Adenocarcinoma	2 (4%)	3 (6%)	3 (7%)	3 (6%)	6 (12%)	1 (2%)
Adenocarcinoma, Multiple	2 (4%)	3 (6%)	3 (7%)	2 (4%)	3 (6%)	1 (2%)
Adenoma	2 (4%)	1 (2%)	2 (4%)		2 (4%)	1 (2%)
Adenoma, Multiple				1 (2%)		
Adenosquamous Carcinoma						1 (2%)
Carcinosarcoma	1 (2%)					
Fibroadenoma	20 (40%)	8 (17%)	13 (28%)	7 (14%)	14 (28%)	7 (15%)
Fibroadenoma, Multiple	21 (42%)	32 (67%)	20 (43%)	32 (65%)	21 (42%)	31 (67%)
Fibroma						
Fibrosarcoma, Metastatic, Skin						
Hemangiosarcoma					1 (2%)	
Mixed Tumor Benign	1 (2%)					
Sarcoma						
Skin	(17)	(12)	(14)	(12)	(13)	(17)
Basal Cell Adenoma	1 (6%)	1 (8%)				
Basal Cell Carcinoma						
Squamous Cell Papilloma	1 (6%)			1 (8%)		1 (6%)
Subcutaneous Tissue, Fibroma						
Subcutaneous Tissue, Fibrosarcoma		1 (8%)			1 (8%)	1 (6%)
Subcutaneous Tissue, Lipoma			2 (14%)	1 (8%)		

MUSCULOSKELETAL SYSTEM

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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
Bone	(1)	(0)	(0)	(0)	(1)	(0)
Vertebra, Adenocarcinoma, Metastatic, Uterus						
Bone, Femur	(50)	(48)	(46)	(49)	(50)	(46)
Skeletal Muscle	(1)	(1)	(2)	(1)	(1)	(1)
Adenocarcinoma, Metastatic, Uterus						1 (100%)
Rhabdomyosarcoma						
NERVOUS SYSTEM						
Brain, Brain Stem	(50)	(48)	(46)	(49)	(50)	(46)
Carcinoma, Deep Invasion	1 (2%)	1 (2%)				
Glioma Malignant			1 (2%)			
Oligodendroglioma Malignant		1 (2%)				
Brain, Cerebellum	(50)	(48)	(46)	(49)	(50)	(46)
Glioma Malignant			1 (2%)			
Brain, Cerebrum	(50)	(48)	(46)	(49)	(50)	(46)
Glioma Malignant			1 (2%)	1 (2%)		
Granular Cell Tumor Benign						
Oligodendroglioma Malignant		1 (2%)				
Nerve Trigeminal	(7)	(12)	(2)	(12)	(11)	(6)
Peripheral Nerve, Sciatic	(7)	(12)	(2)	(12)	(11)	(6)
Peripheral Nerve, Tibial	(7)	(12)	(2)	(12)	(11)	(6)
Spinal Cord, Cervical	(7)	(11)	(2)	(12)	(10)	(6)
Spinal Cord, Lumbar	(7)	(12)	(2)	(12)	(10)	(6)
Spinal Cord, Thoracic	(7)	(11)	(2)	(12)	(10)	(6)
RESPIRATORY SYSTEM						
Lung	(38)	(32)	(34)	(39)	(44)	(42)
Adenocarcinoma, Metastatic, Uterus						1 (2%)
Alveolar/Bronchiolar Adenoma			1 (3%)			
Carcinosarcoma, Metastatic, Mammary Gland						
Fibrosarcoma, Metastatic, Skin						
Sarcoma, Metastatic, Uncertain Primary Site						

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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
Squamous Cell Carcinoma, Metastatic, Thymus						
Yolk Sac Carcinoma, Metastatic, Uncertain Primary Site			1 (3%)			
C-cell, Carcinoma, Metastatic, Thyroid Gland		1 (3%)				
Nose	(34)	(29)	(32)	(36)	(38)	(38)
Osteosarcoma					1 (3%)	
Trachea	(32)	(29)	(32)	(34)	(37)	(38)
SPECIAL SENSES SYSTEM						
Ear	(0)	(0)	(0)	(1)	(0)	(0)
Neural Crest Tumor, Benign				1 (100%)		
Eye	(1)	(0)	(1)	(0)	(2)	(0)
Zymbal's Gland	(0)	(1)	(0)	(0)	(2)	(2)
Adenoma					1 (50%)	
Carcinoma		1 (100%)			1 (50%)	2 (100%)
URINARY SYSTEM						
Kidney	(50)	(48)	(46)	(49)	(50)	(46)
Adenocarcinoma, Metastatic, Uterus						1 (2%)
Fibrosarcoma, Metastatic, Skin						
Lipoma	1 (2%)					
Sarcoma, Metastatic, Uncertain Primary Site						
Urinary Bladder	(0)	(1)	(0)	(2)	(0)	(1)

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* Number of animals with any tissue examined microscopically

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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
SYSTEMIC LESIONS						
Multiple Organ	*(50)	*(48)	*(46)	*(49)	*(50)	*(46)
Histiocytic Sarcoma						1 (2%)
Leukemia Granulocytic	1 (2%)					
Leukemia Mononuclear						
Lymphoma Malignant	2 (4%)	1 (2%)	1 (2%)		2 (4%)	1 (2%)

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* Number of animals with any tissue examined microscopically

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Species/Strain: RATS/Sprague Dawley (NCTR)

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

	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
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)
Intestine Large, Cecum	(0)	(0)	(0)	(0)	(0)	(0)
Intestine Large, Colon	(19)	(21)	(38)	(34)	(33)	(35)
Adenocarcinoma						
Adenocarcinoma, Metastatic, Uterus						
Intestine Small, Duodenum	(0)	(1)	(0)	(0)	(0)	(0)
Intestine Small, Ileum	(19)	(18)	(36)	(34)	(31)	(35)
Adenocarcinoma, Metastatic, Uterus						
Intestine Small, Jejunum	(0)	(2)	(1)	(2)	(0)	(0)
Adenocarcinoma		1 (50%)	1 (100%)	1 (50%)		
Leiomyoma						
Leiomyosarcoma						
Liver	(26)	(26)	(49)	(50)	(48)	(50)
Adenocarcinoma, Metastatic, Uterus						
Fibrosarcoma, Metastatic, Skin						
Hepatocellular Adenoma		1 (4%)				
Sarcoma, Metastatic, Spleen						
Sarcoma, Metastatic, Uncertain Primary Site	1 (4%)					
Yolk Sac Carcinoma, Metastatic, Ovary						
Mesentery	(2)	(1)	(2)	(3)	(1)	(2)
Adenocarcinoma, Metastatic, Uterus						
Hemangiosarcoma					1 (100%)	

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

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR) RATS 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
Sarcoma, Metastatic, Uncertain Primary Site	1 (50%)					
Yolk Sac Carcinoma, Metastatic, Ovary						
Oral Mucosa	(0)	(0)	(1)	(0)	(1)	(0)
Squamous Cell Papilloma			1 (100%)		1 (100%)	
Pancreas	(26)	(26)	(49)	(49)	(47)	(49)
Adenocarcinoma, Metastatic, Uterus						
Yolk Sac Carcinoma, Metastatic, Ovary						
Acinar Cell, Adenoma						
Stomach, Forestomach	(19)	(22)	(38)	(38)	(35)	(37)
Adenocarcinoma, Metastatic, Uterus						
Squamous Cell Carcinoma						
Squamous Cell Papilloma						
Stomach, Glandular	(19)	(21)	(38)	(36)	(33)	(37)
Adenocarcinoma, Metastatic, Uterus						
Tongue	(0)	(1)	(0)	(0)	(0)	(0)
CARDIOVASCULAR SYSTEM						
Blood Vessel	(26)	(26)	(50)	(50)	(48)	(50)
Heart	(26)	(26)	(50)	(50)	(48)	(50)
Fibrosarcoma, Metastatic, Skin						
Schwannoma Benign			2 (4%)			
Yolk Sac Carcinoma, Metastatic, Uncertain Primary Site						
ENDOCRINE SYSTEM						
Adrenal Cortex	(26)	(26)	(49)	(49)	(48)	(50)
Adenoma		1 (4%)				1 (2%)
Fibrosarcoma, Metastatic, Skin						
Bilateral, Adenoma						1 (2%)
Adrenal Medulla	(26)	(26)	(49)	(50)	(48)	(48)
Pheochromocytoma Benign	1 (4%)	2 (8%)	2 (4%)		1 (2%)	1 (2%)
Pheochromocytoma Malignant						
Islets, Pancreatic	(26)	(26)	(49)	(50)	(48)	(49)

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

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR) RATS 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
Adenoma	1 (4%)			1 (2%)	1 (2%)	1 (2%)
Carcinoma						
Parathyroid Gland	(26)	(26)	(45)	(49)	(47)	(47)
Adenoma						
Carcinoma, Deep Invasion						1 (2%)
Pituitary Gland	(26)	(26)	(49)	(50)	(48)	(50)
Pars Distalis, Adenoma	10 (38%)	17 (65%)	23 (47%)	16 (32%)	14 (29%)	20 (40%)
Pars Distalis, Carcinoma		3 (12%)				1 (2%)
Pars Intermedia, Adenoma						
Thyroid Gland	(26)	(25)	(48)	(49)	(45)	(48)
C-cell, Adenoma		2 (8%)		1 (2%)		
C-cell, Carcinoma						2 (4%)
Follicular Cell, Carcinoma						

GENERAL BODY SYSTEM

Tissue NOS	(2)	(0)	(1)	(0)	(0)	(0)
Fibrosarcoma, Metastatic, Clitoral Gland						
Fibrosarcoma, Metastatic, Skin	1 (50%)					
Leiomyosarcoma						
Lipoma			1 (100%)			
Sarcoma	1 (50%)					

GENITAL SYSTEM

Clitoral Gland	(2)	(6)	(6)	(6)	(6)	(8)
Adenoma		2 (33%)	1 (17%)			1 (13%)
Carcinoma			1 (17%)			1 (13%)
Fibrosarcoma						
Squamous Cell Papilloma						1 (13%)
Fat Pad, Ovarian/parametrial	(0)	(0)	(0)	(0)	(0)	(0)
Adenocarcinoma, Metastatic, Uterus						
Ovary	(26)	(26)	(49)	(49)	(47)	(50)
Adenocarcinoma, Metastatic, Uterus						
Fibrosarcoma, Metastatic, Skin						

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

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR) RATS 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
Granulosa Cell Tumor Benign			1 (2%)	1 (2%)		
Granulosa Cell Tumor Malignant						
Sarcoma, Metastatic, Uncertain Primary Site	1 (4%)					
Sex Cord Stromal Tumor, Benign					1 (2%)	
Thecoma Benign						
Thecoma Malignant						
Tubulostromal Adenoma	1 (4%)					
Yolk Sac Carcinoma						
Oviduct	(26)	(26)	(49)	(49)	(45)	(48)
Uterus	(26)	(26)	(49)	(49)	(48)	(49)
Polyp Stromal	3 (12%)	1 (4%)	7 (14%)	4 (8%)	5 (10%)	5 (10%)
Polyp Stromal, Multiple						1 (2%)
Sarcoma					1 (2%)	
Schwannoma Malignant					1 (2%)	
Yolk Sac Carcinoma, Metastatic, Ovary						
Cervix, Polyp Stromal						1 (2%)
Cervix, Squamous Cell Carcinoma		1 (4%)				
Endometrium, Adenocarcinoma			1 (2%)	1 (2%)		
Endometrium, Adenoma						
Endothelium, Adenoma				1 (2%)		
Vagina	(26)	(26)	(49)	(50)	(47)	(49)
Sarcoma Stromal						
Epithelium, Squamous Cell Carcinoma						
HEMATOPOIETIC SYSTEM						
Bone Marrow	(26)	(26)	(49)	(49)	(47)	(49)
Lymph Node	(4)	(3)	(9)	(6)	(3)	(10)
Mediastinal, Adenocarcinoma, Metastatic, Uterus						
Mediastinal, Fibrosarcoma, Metastatic, Skin						
Lymph Node, Mandibular	(0)	(1)	(4)	(5)	(3)	(8)
Lymph Node, Mesenteric	(1)	(0)	(0)	(1)	(0)	(1)
Spleen	(26)	(26)	(49)	(50)	(47)	(49)
Adenocarcinoma, Metastatic, Uterus						

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

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR) RATS 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
Fibrosarcoma, Metastatic, Skin Sarcoma						1 (2%)
Thymoma Malignant, Metastatic, Thymus		1 (4%)				
Yolk Sac Carcinoma, Metastatic, Ovary						
Thymus	(26)	(26)	(49)	(50)	(48)	(50)
Squamous Cell Carcinoma				1 (2%)		
Thymoma Benign			1 (2%)			
Epithelial Cell, Thymoma Malignant		1 (4%)				
INTEGUMENTARY SYSTEM						
Mammary Gland	(26)	(26)	(50)	(50)	(48)	(49)
Adenocarcinoma	2 (8%)	6 (23%)	2 (4%)	10 (20%)	4 (8%)	5 (10%)
Adenocarcinoma, Multiple		4 (15%)	1 (2%)	1 (2%)	1 (2%)	2 (4%)
Adenoma			1 (2%)	1 (2%)		3 (6%)
Adenoma, Multiple						
Adenosquamous Carcinoma					2 (4%)	
Carcinosarcoma						
Fibroadenoma	7 (27%)	10 (38%)	14 (28%)	13 (26%)	9 (19%)	11 (22%)
Fibroadenoma, Multiple	11 (42%)	4 (15%)	29 (58%)	32 (64%)	28 (58%)	31 (63%)
Fibroma			1 (2%)			
Fibrosarcoma, Metastatic, Skin						
Hemangiosarcoma						
Mixed Tumor Benign						
Sarcoma	1 (4%)					
Skin	(9)	(9)	(16)	(8)	(8)	(19)
Basal Cell Adenoma			2 (13%)		1 (13%)	1 (5%)
Basal Cell Carcinoma						
Squamous Cell Papilloma			1 (6%)			2 (11%)
Subcutaneous Tissue, Fibroma						1 (5%)
Subcutaneous Tissue, Fibrosarcoma	1 (11%)			1 (13%)	2 (25%)	
Subcutaneous Tissue, Lipoma			1 (6%)			1 (5%)
MUSCULOSKELETAL SYSTEM						

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

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR) RATS 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	(0)	(0)	(2)	(0)	(0)	(0)
Vertebra, Adenocarcinoma, Metastatic, Uterus			1 (50%)			
Bone, Femur	(26)	(26)	(50)	(50)	(48)	(50)
Skeletal Muscle	(0)	(3)	(0)	(0)	(0)	(1)
Adenocarcinoma, Metastatic, Uterus						
Rhabdomyosarcoma		1 (33%)				
NERVOUS SYSTEM						
Brain, Brain Stem	(26)	(26)	(49)	(50)	(48)	(50)
Carcinoma, Deep Invasion		3 (12%)				
Glioma Malignant						
Oligodendroglioma Malignant						
Brain, Cerebellum	(26)	(26)	(49)	(50)	(48)	(50)
Glioma Malignant						
Brain, Cerebrum	(26)	(26)	(49)	(50)	(48)	(50)
Glioma Malignant						
Granular Cell Tumor Benign		1 (4%)				
Oligodendroglioma Malignant						
Nerve Trigeminal	(5)	(4)	(1)	(3)	(0)	(3)
Peripheral Nerve, Sciatic	(5)	(4)	(1)	(3)	(0)	(3)
Peripheral Nerve, Tibial	(5)	(4)	(1)	(3)	(0)	(3)
Spinal Cord, Cervical	(5)	(4)	(1)	(3)	(0)	(3)
Spinal Cord, Lumbar	(5)	(4)	(1)	(3)	(0)	(3)
Spinal Cord, Thoracic	(5)	(4)	(1)	(3)	(0)	(3)
RESPIRATORY SYSTEM						
Lung	(21)	(22)	(40)	(40)	(39)	(40)
Adenocarcinoma, Metastatic, Uterus			1 (3%)			
Alveolar/Bronchiolar Adenoma						
Carcinosarcoma, Metastatic, Mammary Gland					1 (3%)	
Fibrosarcoma, Metastatic, Skin						
Sarcoma, Metastatic, Uncertain Primary Site	1 (5%)					

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

Experiment Number: 10034 - 04

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

Date Report Requested: 08/16/2017

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR) RATS 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
Squamous Cell Carcinoma, Metastatic, Thymus				1 (3%)		
Yolk Sac Carcinoma, Metastatic, Uncertain Primary Site						
C-cell, Carcinoma, Metastatic, Thyroid Gland						
Nose Osteosarcoma	(19)	(22)	(38)	(36)	(35)	(37)
Trachea	(19)	(20)	(38)	(36)	(33)	(35)
SPECIAL SENSES SYSTEM						
Ear Neural Crest Tumor, Benign	(0)	(0)	(0)	(0)	(0)	(0)
Eye	(0)	(0)	(0)	(0)	(0)	(0)
Zymbal's Gland Adenoma	(1)	(0)	(0)	(1) (100%)	(0)	(0)
Zymbal's Gland Carcinoma						
URINARY SYSTEM						
Kidney Adenocarcinoma, Metastatic, Uterus	(26)	(26)	(49)	(50)	(47)	(49)
Fibrosarcoma, Metastatic, Skin						
Lipoma						
Sarcoma, Metastatic, Uncertain Primary Site	1 (4%)					
Urinary Bladder	(1)	(0)	(0)	(1)	(0)	(0)

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

* Number of animals with any tissue examined microscopically

Experiment Number: 10034 - 04

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS
ABRIDGED) (a)**

Date Report Requested: 08/16/2017

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR)
RATS 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

SYSTEMIC LESIONS

Multiple Organ

*(26)

*(26)

*(50)

*(50)

*(48)

*(50)

Histiocytic Sarcoma

2 (4%)

Leukemia Granulocytic

Leukemia Mononuclear

2 (4%)

Lymphoma Malignant

1 (2%)

1 (2%)

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

* Number of animals with any tissue examined microscopically

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR)
RATS FEMALE

F1 2500.StDose F

F1 25000StDose F

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)
Intestine Large, Cecum	(0)	(0)
Intestine Large, Colon	(32)	(33)
Adenocarcinoma		1 (3%)
Adenocarcinoma, Metastatic, Uterus		
Intestine Small, Duodenum	(0)	(0)
Intestine Small, Ileum	(30)	(33)
Adenocarcinoma, Metastatic, Uterus		
Intestine Small, Jejunum	(0)	(0)
Adenocarcinoma		
Leiomyoma		
Leiomyosarcoma		
Liver	(50)	(46)
Adenocarcinoma, Metastatic, Uterus		
Fibrosarcoma, Metastatic, Skin	1 (2%)	
Hepatocellular Adenoma		1 (2%)
Sarcoma, Metastatic, Spleen		
Sarcoma, Metastatic, Uncertain Primary Site		
Yolk Sac Carcinoma, Metastatic, Ovary		
Mesentery	(1)	(3)
Adenocarcinoma, Metastatic, Uterus		
Hemangiosarcoma		

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

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 2500.StDose F	F1 25000StDose F
Sarcoma, Metastatic, Uncertain Primary Site		
Yolk Sac Carcinoma, Metastatic, Ovary		
Oral Mucosa	(0)	(1)
Squamous Cell Papilloma		1 (100%)
Pancreas	(49)	(46)
Adenocarcinoma, Metastatic, Uterus		
Yolk Sac Carcinoma, Metastatic, Ovary		
Acinar Cell, Adenoma	1 (2%)	
Stomach, Forestomach	(34)	(34)
Adenocarcinoma, Metastatic, Uterus		
Squamous Cell Carcinoma	1 (3%)	
Squamous Cell Papilloma		1 (3%)
Stomach, Glandular	(32)	(32)
Adenocarcinoma, Metastatic, Uterus		
Tongue	(0)	(0)

CARDIOVASCULAR SYSTEM

Blood Vessel	(50)	(46)
Heart	(50)	(46)
Fibrosarcoma, Metastatic, Skin	1 (2%)	
Schwannoma Benign		
Yolk Sac Carcinoma, Metastatic, Uncertain Primary Site		

ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(46)
Adenoma		1 (2%)
Fibrosarcoma, Metastatic, Skin	1 (2%)	
Bilateral, Adenoma		
Adrenal Medulla	(50)	(45)
Pheochromocytoma Benign		1 (2%)
Pheochromocytoma Malignant		
Islets, Pancreatic	(49)	(46)

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

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 2500.StDose F	F1 25000StDose F
Adenoma	1 (2%)	1 (2%)
Carcinoma	1 (2%)	
Parathyroid Gland	(47)	(46)
Adenoma	1 (2%)	
Carcinoma, Deep Invasion		
Pituitary Gland	(50)	(46)
Pars Distalis, Adenoma	20 (40%)	20 (43%)
Pars Distalis, Carcinoma		1 (2%)
Pars Intermedia, Adenoma		
Thyroid Gland	(50)	(46)
C-cell, Adenoma		
C-cell, Carcinoma		
Follicular Cell, Carcinoma		

GENERAL BODY SYSTEM

Tissue NOS	(0)	(1)
Fibrosarcoma, Metastatic, Clitoral Gland		
Fibrosarcoma, Metastatic, Skin		
Leiomyosarcoma		
Lipoma		1 (100%)
Sarcoma		

GENITAL SYSTEM

Clitoral Gland	(6)	(7)
Adenoma		1 (14%)
Carcinoma	2 (33%)	1 (14%)
Fibrosarcoma		
Squamous Cell Papilloma		
Fat Pad, Ovarian/parametrial	(1)	(0)
Adenocarcinoma, Metastatic, Uterus		
Ovary	(50)	(46)
Adenocarcinoma, Metastatic, Uterus		
Fibrosarcoma, Metastatic, Skin	1 (2%)	

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

Experiment Number: 10034 - 04

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

Date Report Requested: 08/16/2017

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 2500.StDose F	F1 25000StDose F
Granulosa Cell Tumor Benign		
Granulosa Cell Tumor Malignant		
Sarcoma, Metastatic, Uncertain Primary Site		
Sex Cord Stromal Tumor, Benign		
Thecoma Benign		
Thecoma Malignant	1 (2%)	
Tubulostromal Adenoma		
Yolk Sac Carcinoma		
Oviduct	(49)	(46)
Uterus	(49)	(46)
Polyp Stromal	4 (8%)	1 (2%)
Polyp Stromal, Multiple		
Sarcoma		
Schwannoma Malignant		
Yolk Sac Carcinoma, Metastatic, Ovary		
Cervix, Polyp Stromal		
Cervix, Squamous Cell Carcinoma		
Endometrium, Adenocarcinoma		
Endometrium, Adenoma		1 (2%)
Endothelium, Adenoma		
Vagina	(49)	(46)
Sarcoma Stromal	1 (2%)	
Epithelium, Squamous Cell Carcinoma		

HEMATOPOIETIC SYSTEM

Bone Marrow	(49)	(45)
Lymph Node	(4)	(11)
Mediastinal, Adenocarcinoma, Metastatic, Uterus		
Mediastinal, Fibrosarcoma, Metastatic, Skin	1 (25%)	
Lymph Node, Mandibular	(6)	(5)
Lymph Node, Mesenteric	(0)	(2)
Spleen	(49)	(46)
Adenocarcinoma, Metastatic, Uterus		

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

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 2500.StDose F	F1 25000StDose F
Fibrosarcoma, Metastatic, Skin Sarcoma	1 (2%)	
Thymoma Malignant, Metastatic, Thymus Yolk Sac Carcinoma, Metastatic, Ovary		
Thymus	(49)	(46)
Squamous Cell Carcinoma		
Thymoma Benign		1 (2%)
Epithelial Cell, Thymoma Malignant		

INTEGUMENTARY SYSTEM

Mammary Gland	(50)	(46)
Adenocarcinoma	8 (16%)	3 (7%)
Adenocarcinoma, Multiple	1 (2%)	2 (4%)
Adenoma		1 (2%)
Adenoma, Multiple		
Adenosquamous Carcinoma	1 (2%)	
Carcinosarcoma		
Fibroadenoma	7 (14%)	6 (13%)
Fibroadenoma, Multiple	29 (58%)	28 (61%)
Fibroma		
Fibrosarcoma, Metastatic, Skin	1 (2%)	
Hemangiosarcoma		
Mixed Tumor Benign		
Sarcoma		
Skin	(16)	(12)
Basal Cell Adenoma	1 (6%)	
Basal Cell Carcinoma		1 (8%)
Squamous Cell Papilloma		
Subcutaneous Tissue, Fibroma	1 (6%)	
Subcutaneous Tissue, Fibrosarcoma	2 (13%)	
Subcutaneous Tissue, Lipoma	1 (6%)	1 (8%)

MUSCULOSKELETAL SYSTEM

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

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 2500.StDose F	F1 2500StDose F
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Bone	(0)	(0)
Vertebra, Adenocarcinoma, Metastatic, Uterus		
Bone, Femur	(50)	(46)
Skeletal Muscle	(0)	(2)
Adenocarcinoma, Metastatic, Uterus		
Rhabdomyosarcoma		

NERVOUS SYSTEM

Brain, Brain Stem	(50)	(46)
Carcinoma, Deep Invasion		1 (2%)
Glioma Malignant		
Oligodendroglioma Malignant		
Brain, Cerebellum	(50)	(46)
Glioma Malignant		
Brain, Cerebrum	(50)	(46)
Glioma Malignant	1 (2%)	1 (2%)
Granular Cell Tumor Benign		1 (2%)
Oligodendroglioma Malignant		
Nerve Trigeminal	(3)	(4)
Peripheral Nerve, Sciatic	(3)	(4)
Peripheral Nerve, Tibial	(3)	(4)
Spinal Cord, Cervical	(3)	(4)
Spinal Cord, Lumbar	(3)	(4)
Spinal Cord, Thoracic	(3)	(4)

RESPIRATORY SYSTEM

Lung	(39)	(37)
Adenocarcinoma, Metastatic, Uterus		
Alveolar/Bronchiolar Adenoma		
Carcinosarcoma, Metastatic, Mammary Gland		
Fibrosarcoma, Metastatic, Skin	1 (3%)	
Sarcoma, Metastatic, Uncertain Primary Site		

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

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR) RATS FEMALE	F1 2500.StDose F	F1 25000StDose F
Squamous Cell Carcinoma, Metastatic, Thymus		
Yolk Sac Carcinoma, Metastatic, Uncertain Primary Site		
C-cell, Carcinoma, Metastatic, Thyroid Gland		
Nose	(32)	(33)
Osteosarcoma		
Trachea	(32)	(33)

SPECIAL SENSES SYSTEM

Ear	(0)	(1)
Neural Crest Tumor, Benign		1 (100%)
Eye	(1)	(0)
Zymbal's Gland	(0)	(0)
Adenoma		
Carcinoma		

URINARY SYSTEM

Kidney	(50)	(46)
Adenocarcinoma, Metastatic, Uterus		
Fibrosarcoma, Metastatic, Skin	1 (2%)	
Lipoma	2 (4%)	
Sarcoma, Metastatic, Uncertain Primary Site		
Urinary Bladder	(1)	(1)

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

* Number of animals with any tissue examined microscopically

Experiment Number: 10034 - 04

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

Date Report Requested: 08/16/2017

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR)
RATS FEMALE

F1 2500.StDose F

F1 25000StDose F

SYSTEMIC LESIONS

Multiple Organ	*(50)	*(46)
Histiocytic Sarcoma	1 (2%)	
Leukemia Granulocytic		
Leukemia Mononuclear	1 (2%)	
Lymphoma Malignant	1 (2%)	2 (4%)

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

* Number of animals with any tissue examined microscopically

Experiment Number: 10034 - 04

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

Date Report Requested: 08/16/2017

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR)
RATS 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

Tumor Summary for Females

Total Animals with Primary Neoplasms (b)	47	44	38	47	45	43
Total Primary Neoplasms	97	91	73	83	86	83
Total Animals with Benign Neoplasms	44	43	37	44	40	41
Total Benign Neoplasms	82	72	60	71	64	72
Total Animals with Malignant Neoplasms	13	17	11	12	19	11
Total Malignant Neoplasms	15	19	13	12	22	11
Total Animals with Metastatic Neoplasms		2	1	2		1
Total Metastatic Neoplasms		2	2	6		14
Total Animals with Malignant Neoplasms Uncertain Primary Site			1			
Total Animals with Neoplasms Uncertain- Benign or Malignant						
Total Uncertain Neoplasms						

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

b - Primary tumors: all tumors except metastatic tumors

Experiment Number: 10034 - 04

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

Date Report Requested: 08/16/2017

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR) RATS 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
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Tumor Summary for Females

Total Animals with Primary Neoplasms (b)	22	25	49	49	46	48
Total Primary Neoplasms	39	61	94	89	73	99
Total Animals with Benign Neoplasms	21	24	48	47	44	46
Total Benign Neoplasms	34	41	88	71	61	83
Total Animals with Malignant Neoplasms	4	12	6	16	12	15
Total Malignant Neoplasms	5	20	6	18	12	16
Total Animals with Metastatic Neoplasms	2	1	1	3	1	
Total Metastatic Neoplasms	6	1	2	5	1	
Total Animals with Malignant Neoplasms Uncertain Primary Site	1					
Total Animals with Neoplasms Uncertain- Benign or Malignant						
Total Uncertain Neoplasms						

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

b - Primary tumors: all tumors except metastatic tumors

Experiment Number: 10034 - 04

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS
ABRIDGED) (a)**

Date Report Requested: 08/16/2017

Test Type: CHRONIC

Bisphenol A

Time Report Requested: 10:21:03

Route: GAVAGE

CAS Number: 80-05-7

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

Species/Strain: RATS/Sprague Dawley (NCTR)

Lab: NCTR

Sprague Dawley (NCTR)
RATS FEMALE

F1 2500.StDose F

F1 25000StDose F

Tumor Summary for Females

Total Animals with Primary Neoplasms (b)	46	46
Total Primary Neoplasms	90	82
Total Animals with Benign Neoplasms	45	43
Total Benign Neoplasms	68	68
Total Animals with Malignant Neoplasms	15	13
Total Malignant Neoplasms	22	14
Total Animals with Metastatic Neoplasms	1	
Total Metastatic Neoplasms	9	
Total Animals with Malignant Neoplasms Uncertain Primary Site		
Total Animals with Neoplasms Uncertain- Benign or Malignant		
Total Uncertain Neoplasms		

*** END OF REPORT ***

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

b - Primary tumors: all tumors except metastatic tumors