

Experiment Number: 20320 - 03

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

Date Report Requested: 01/23/2013

Test Type: CHRONIC

Tetrabromobisphenol A

Time Report Requested: 15:06:23

Route: GAVAGE

CAS Number: 79-94-7

First Dose M/F: 07/25/07 / 07/26/07

Species/Strain: RATS/Wistar Han

Lab: BAT

F1\_Rev.1\_RE

**NTP Study Number:**

C20320

**Lock Date:**

03/24/2011

**Cage Range:**

ALL

**Date Range:**

ALL

**Reasons For Removal:**

25021 TSAC

25020 NATD

25019 MSAC

25018 DACC

**Removal Date Range:**

ALL

**Treatment Groups:**

Include ALL

**Study Gender:**

Both

**TDMSE Version:**

3.0.1.0\_004

**PWG Approval Date:**

NONE

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Species/Strain: RATS/Wistar Han

Lab: BAT

Wistar Han RATS MALE	0 mg/kg	250 mg/kg	500 mg/kg	1000 mg/kg
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**Disposition Summary**

<b>Animals Initially In Study</b>	<b>60</b>	<b>50</b>	<b>50</b>	<b>60</b>
<b>Early Deaths</b>				
<b>Dosing Accident</b>	<b>1</b>			<b>3</b>
<b>Moribund Sacrifice</b>	<b>14</b>	<b>18</b>	<b>8</b>	<b>6</b>
<b>Natural Death</b>	<b>2</b>	<b>4</b>	<b>4</b>	<b>2</b>
<b>Survivors</b>				
<b>Moribund Sacrifice</b>	<b>1</b>			
<b>Terminal Sacrifice</b>	<b>32</b>	<b>28</b>	<b>38</b>	<b>39</b>
<b>Animals Examined Microscopically</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>

## ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(50)
Intestine Large, Cecum	(50)	(50)	(50)	(50)
Intestine Large, Colon	(50)	(50)	(50)	(50)
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Intestine Small, Duodenum	(50)	(50)	(50)	(50)
Intestine Small, Ileum	(50)	(50)	(50)	(50)
Hemangiosarcoma, Metastatic, Blood Vessel	1 (2%)			
Intestine Small, Jejunum	(50)	(50)	(50)	(50)
Liver	(50)	(50)	(50)	(50)
Fibrous Histiocytoma, Metastatic, Skin			1 (2%)	
Hepatocellular Adenoma		1 (2%)		
Mesentery	(3)	(3)	(0)	(2)
Pancreas	(50)	(50)	(50)	(50)
Fibrous Histiocytoma, Metastatic, Skin			1 (2%)	
Acinus, Adenoma	1 (2%)	1 (2%)		
Salivary Glands	(50)	(50)	(50)	(49)
Myoepithelioma	1 (2%)			
Sublingual Gland, Adenoma			1 (2%)	
Stomach, Forestomach	(50)	(50)	(50)	(50)
Fibrous Histiocytoma, Metastatic, Skin			1 (2%)	
Leiomyosarcoma		1 (2%)		
Squamous Cell Papilloma				1 (2%)

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

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Lab: BAT

Wistar Han RATS MALE	0 mg/kg	250 mg/kg	500 mg/kg	1000 mg/kg
Stomach, Glandular Fibrous Histiocytoma, Metastatic, Skin	(50)	(50)	(50) 1 (2%)	(50)
<b>CARDIOVASCULAR SYSTEM</b>				
Blood Vessel Adventitia, Hemangiosarcoma	(50) 1 (2%)	(50)	(50)	(50)
Heart Carcinoma, Metastatic, Kidney Fibrous Histiocytoma, Metastatic, Skin	(50)	(50)	(50) 1 (2%)	(50) 1 (2%)
<b>ENDOCRINE SYSTEM</b>				
Adrenal Cortex Adenoma	(50)	(50) 1 (2%)	(49)	(50) 1 (2%)
Adrenal Medulla Pheochromocytoma Benign Pheochromocytoma Malignant	(49)	(50) 1 (2%)	(49) 1 (2%)	(50)
Islets, Pancreatic Adenoma	(50) 1 (2%)	(50)	(50) 2 (4%)	(50) 2 (4%)
Parathyroid Gland Adenoma	(45)	(48)	(47) 1 (2%)	(49)
Pituitary Gland Pars Distalis, Adenoma Pars Distalis, Adenoma, Multiple Pars Intermedia, Adenoma	(50) 20 (40%) 1 (2%) 2 (4%)	(49) 24 (49%)	(50) 13 (26%) 1 (2%) 3 (6%)	(48) 13 (27%) 3 (6%) 2 (4%)
Thyroid Gland Bilateral, C-cell, Adenoma C-cell, Adenoma C-cell, Adenoma, Multiple C-cell, Carcinoma Follicular Cell, Adenoma Follicular Cell, Carcinoma	(50) 4 (8%) 1 (2%)	(50) 8 (16%) 1 (2%)	(50) 1 (2%) 7 (14%)	(50) 5 (10%)

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## GENERAL BODY SYSTEM

None

## GENITAL SYSTEM

Epididymis	(50)	(50)	(50)	(50)
Preputial Gland	(50)	(50)	(50)	(50)
Prostate	(50)	(50)	(50)	(50)
Adenoma		1 (2%)		
Seminal Vesicle	(50)	(50)	(50)	(50)
Testes	(50)	(50)	(50)	(50)
Fibrous Histiocytoma, Metastatic, Skin			1 (2%)	
Bilateral, Interstitial Cell, Adenoma			1 (2%)	
Interstitial Cell, Adenoma				3 (6%)

## HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(50)
Lymph Node	(3)	(0)	(2)	(1)
Pancreatic, Hemangiosarcoma, Metastatic, Blood Vessel	1 (33%)			
Lymph Node, Mandibular	(49)	(50)	(50)	(48)
Fibrous Histiocytoma, Metastatic, Skin				1 (2%)
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)
Hemangioma	1 (2%)			
Hemangiosarcoma	1 (2%)	2 (4%)	1 (2%)	
Hemangiosarcoma, Metastatic, Blood Vessel	1 (2%)			
Spleen	(50)	(50)	(50)	(50)
Hemangiosarcoma	1 (2%)			
Thymus	(49)	(49)	(49)	(50)
Fibrous Histiocytoma, Metastatic, Skin			1 (2%)	
Schwannoma Malignant			1 (2%)	
Thymoma Benign	1 (2%)	1 (2%)		3 (6%)

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## INTEGUMENTARY SYSTEM

Mammary Gland	(47)	(50)	(50)	(50)
Fibroadenoma	1 (2%)			
Skin	(50)	(50)	(50)	(50)
Basal Cell Adenoma	2 (4%)	1 (2%)		
Basal Cell Carcinoma	1 (2%)			
Fibroma			2 (4%)	
Fibrous Histiocytoma			1 (2%)	
Keratoacanthoma	4 (8%)		1 (2%)	2 (4%)
Schwannoma Malignant				2 (4%)
Squamous Cell Papilloma	1 (2%)		1 (2%)	1 (2%)
Subcutaneous Tissue, Fibroma		1 (2%)		
Subcutaneous Tissue, Fibrous Histiocytoma		1 (2%)		1 (2%)
Subcutaneous Tissue, Schwannoma Malignant	2 (4%)	1 (2%)	1 (2%)	

## MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(50)
Sarcoma, Metastatic, Skeletal Muscle	1 (2%)			
Skeletal Muscle	(1)	(0)	(0)	(1)
Rhabdomyosarcoma				1 (100%)
Sarcoma	1 (100%)			

## NERVOUS SYSTEM

Brain	(50)	(50)	(50)	(50)
Granular Cell Tumor Benign	1 (2%)			1 (2%)
Meningioma Malignant		1 (2%)		
Peripheral Nerve	(0)	(2)	(1)	(0)
Spinal Cord	(0)	(2)	(1)	(0)

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<b>RESPIRATORY SYSTEM</b>				
Lung	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Adenoma				1 (2%)
Carcinoma, Metastatic, Kidney				1 (2%)
Carcinoma, Metastatic, Thyroid Gland		1 (2%)		
Fibrous Histiocytoma, Metastatic, Skin		1 (2%)	1 (2%)	
Mediastinum, Lipoma			1 (2%)	
Nose	(50)	(50)	(50)	(50)
Trachea	(50)	(50)	(50)	(50)
<b>SPECIAL SENSES SYSTEM</b>				
Eye	(50)	(50)	(50)	(50)
Harderian Gland	(49)	(50)	(50)	(50)
<b>URINARY SYSTEM</b>				
Kidney	(50)	(50)	(50)	(50)
Renal Tubule, Carcinoma				1 (2%)
Transitional Epithelium, Carcinoma				1 (2%)
Urethra	(1)	(0)	(0)	(0)
Urinary Bladder	(50)	(50)	(50)	(50)
Transitional Epithelium, Papilloma	1 (2%)			
<b>SYSTEMIC LESIONS</b>				
Multiple Organ	*(50)	*(50)	*(50)	*(50)
Histiocytic Sarcoma			1 (2%)	1 (2%)
Leukemia Mononuclear	1 (2%)			
Lymphoma Malignant				1 (2%)

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\* Number of animals with any tissue examined microscopically

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Lab: BAT

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Wistar Han RATS MALE	0 mg/kg	250 mg/kg	500 mg/kg	1000 mg/kg
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**Tumor Summary for Males**

Total Animals with Primary Neoplasms (b)	34	37	34	33
Total Primary Neoplasms	54	50	44	48
Total Animals with Benign Neoplasms	30	32	29	28
Total Benign Neoplasms	46	41	39	40
Total Animals with Malignant Neoplasms	8	8	5	8
Total Malignant Neoplasms	8	9	5	8
Total Animals with Metastatic Neoplasms	2	2	1	2
Total Metastatic Neoplasms	4	2	8	3
Total Animals with Malignant Neoplasms Uncertain Primary Site				
Total Animals with Neoplasms Uncertain- Benign or Malignant				
Total Uncertain Neoplasms				

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\*\*\* END OF MALE \*\*\*

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b - Primary tumors: all tumors except metastatic tumors

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**Disposition Summary**

<b>Animals Initially In Study</b>	<b>60</b>	<b>50</b>	<b>50</b>	<b>60</b>
<b>Early Deaths</b>				
<b>Dosing Accident</b>	<b>3</b>			<b>4</b>
<b>Moribund Sacrifice</b>	<b>8</b>	<b>14</b>	<b>15</b>	<b>10</b>
<b>Natural Death</b>	<b>4</b>	<b>2</b>	<b>6</b>	<b>3</b>
<b>Survivors</b>				
<b>Moribund Sacrifice</b>	<b>1</b>			<b>1</b>
<b>Terminal Sacrifice</b>	<b>34</b>	<b>34</b>	<b>29</b>	<b>32</b>
<b>Animals Examined Microscopically</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>

## ALIMENTARY SYSTEM

Esophagus	(50)	(49)	(50)	(50)
Intestine Large, Cecum	(50)	(49)	(50)	(50)
Leiomyoma			1 (2%)	
Intestine Large, Colon	(50)	(50)	(50)	(50)
Adenocarcinoma, Metastatic, Uterus		1 (2%)		
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Intestine Small	(0)	(1)	(0)	(0)
Leiomyosarcoma, Metastatic, Uterus		1 (100%)		
Intestine Small, Duodenum	(50)	(50)	(50)	(50)
Leiomyosarcoma	1 (2%)			
Intestine Small, Ileum	(50)	(49)	(50)	(50)
Intestine Small, Jejunum	(50)	(50)	(50)	(50)
Leiomyoma				1 (2%)
Liver	(50)	(50)	(50)	(50)
Adenocarcinoma, Metastatic, Uterus			3 (6%)	2 (4%)
Hepatocellular Adenoma	1 (2%)	2 (4%)		1 (2%)
Malignant Mixed Mullerian Tumor, Metastatic, Uterus		2 (4%)		
Mesentery	(2)	(8)	(5)	(4)
Adenocarcinoma, Metastatic, Uterus		1 (13%)	2 (40%)	2 (50%)
Leiomyosarcoma, Metastatic, Stomach, Glandular			1 (20%)	

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Lab: BAT

Wistar Han RATS FEMALE	0 mg/kg	250 mg/kg	500 mg/kg	1000 mg/kg
Leiomyosarcoma, Metastatic, Uterus		1 (13%)		
Malignant Mixed Mullerian Tumor, Metastatic, Uterus		2 (25%)		
Pancreas	(50)	(50)	(50)	(50)
Adenocarcinoma, Metastatic, Uterus		3 (6%)	1 (2%)	3 (6%)
Granulosa Cell Tumor Malignant, Metastatic, Ovary	1 (2%)			
Leiomyosarcoma, Metastatic, Uterus		1 (2%)		
Malignant Mixed Mullerian Tumor, Metastatic, Uterus		3 (6%)		
Salivary Glands	(50)	(48)	(49)	(49)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Stomach, Glandular	(50)	(50)	(50)	(50)
Leiomyosarcoma	1 (2%)		1 (2%)	
Malignant Mixed Mullerian Tumor, Metastatic, Uterus		1 (2%)		

## CARDIOVASCULAR SYSTEM

Blood Vessel	(50)	(50)	(50)	(50)
Heart	(50)	(50)	(50)	(50)
Endocardium, Schwannoma Benign	1 (2%)			

## ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(50)	(50)	(50)
Adenocarcinoma, Metastatic, Uterus		1 (2%)		
Adenoma	1 (2%)			1 (2%)
Carcinoma	1 (2%)			
Adrenal Medulla	(49)	(50)	(50)	(50)
Pheochromocytoma Benign	2 (4%)			
Pheochromocytoma Malignant				1 (2%)
Islets, Pancreatic	(50)	(50)	(50)	(50)
Adenoma			1 (2%)	
Parathyroid Gland	(48)	(39)	(48)	(49)
Pituitary Gland	(50)	(50)	(50)	(50)

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Lab: BAT

Wistar Han RATS FEMALE	0 mg/kg	250 mg/kg	500 mg/kg	1000 mg/kg
Pars Distalis, Adenoma	20 (40%)	25 (50%)	18 (36%)	16 (32%)
Pars Distalis, Adenoma, Multiple	1 (2%)	2 (4%)		
Pars Distalis, Carcinoma				1 (2%)
Pars Intermedia, Adenoma	4 (8%)	1 (2%)		1 (2%)
Thyroid Gland	(50)	(48)	(50)	(50)
Bilateral, C-cell, Adenoma	1 (2%)			
Bilateral, Follicular Cell, Adenoma	1 (2%)			
C-cell, Adenoma	6 (12%)	9 (19%)	5 (10%)	3 (6%)
Follicular Cell, Adenoma	2 (4%)	3 (6%)	2 (4%)	

## GENERAL BODY SYSTEM

None

## GENITAL SYSTEM

Clitoral Gland	(50)	(50)	(50)	(50)
Ovary	(50)	(49)	(50)	(49)
Adenocarcinoma				1 (2%)
Adenocarcinoma, Metastatic, Uterus		1 (2%)	1 (2%)	1 (2%)
Granulosa Cell Tumor Malignant	1 (2%)			
Malignant Mixed Mullerian Tumor, Metastatic, Uterus		1 (2%)		
Sex Cord Stromal Tumor, Benign, Mixed Cell	2 (4%)			1 (2%)
Uterus	(50)	(50)	(50)	(50)
Adenocarcinoma	2 (4%)	3 (6%)	7 (14%)	9 (18%)
Adenocarcinoma, Multiple	1 (2%)		1 (2%)	
Adenoma			3 (6%)	4 (8%)
Leiomyosarcoma		1 (2%)		
Malignant Mixed Mullerian Tumor		4 (8%)		2 (4%)
Polyp Stromal	2 (4%)	4 (8%)	3 (6%)	1 (2%)
Sarcoma Stromal		2 (4%)		1 (2%)
Cervix, Sarcoma Stromal			1 (2%)	
Cervix, Squamous Cell Carcinoma		1 (2%)		
Vagina	(1)	(1)	(1)	(1)

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Granular Cell Tumor Malignant		1 (100%)		
Leiomyoma	1 (100%)			
Polyp				1 (100%)

## HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(50)
Lymph Node	(0)	(1)	(1)	(0)
Lymph Node, Mandibular	(50)	(48)	(49)	(49)
Lymph Node, Mediastinal	(0)	(0)	(1)	(0)
Adenocarcinoma, Metastatic, Uterus			1 (100%)	
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)
Hemangiosarcoma	1 (2%)			
Spleen	(50)	(50)	(50)	(50)
Adenocarcinoma, Metastatic, Uterus		1 (2%)	1 (2%)	1 (2%)
Malignant Mixed Mullerian Tumor, Metastatic, Uterus		1 (2%)		
Thymus	(50)	(50)	(49)	(50)
Adenocarcinoma, Metastatic, Uterus		1 (2%)		
Sarcoma	1 (2%)			
Thymoma Benign	1 (2%)		2 (4%)	

## INTEGUMENTARY SYSTEM

Mammary Gland	(50)	(50)	(50)	(50)
Adenocarcinoma	1 (2%)			3 (6%)
Adenoma	3 (6%)	5 (10%)	2 (4%)	
Adenoma, Multiple	1 (2%)			
Fibroadenoma	7 (14%)	12 (24%)	6 (12%)	11 (22%)
Fibroadenoma, Multiple	1 (2%)	3 (6%)	2 (4%)	
Skin	(50)	(50)	(50)	(50)
Basal Cell Adenoma		1 (2%)		
Basal Cell Carcinoma		1 (2%)		
Fibroma		1 (2%)		
Squamous Cell Papilloma		1 (2%)	1 (2%)	

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Wistar Han RATS FEMALE	0 mg/kg	250 mg/kg	500 mg/kg	1000 mg/kg
Subcutaneous Tissue, Adenocarcinoma, Metastatic, Uterus		1 (2%)		
Subcutaneous Tissue, Hemangiosarcoma	1 (2%)			
Subcutaneous Tissue, Lipoma			1 (2%)	
Subcutaneous Tissue, Malignant Mixed Mullerian Tumor, Metastatic, Uterus		2 (4%)		
Subcutaneous Tissue, Sarcoma		1 (2%)		

## MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(50)
Skeletal Muscle	(0)	(2)	(1)	(1)
Adenocarcinoma, Metastatic, Uterus		1 (50%)	1 (100%)	
Leiomyosarcoma, Metastatic, Uterus		1 (50%)		

## NERVOUS SYSTEM

Brain	(50)	(50)	(50)	(50)
Ependymoma Malignant			1 (2%)	
Glioma Malignant, Mixed Cell			2 (4%)	
Granular Cell Tumor Benign		1 (2%)		
Peripheral Nerve	(0)	(1)	(0)	(0)
Spinal Cord	(0)	(1)	(0)	(0)

## RESPIRATORY SYSTEM

Lung	(50)	(50)	(50)	(50)
Adenocarcinoma, Metastatic, Uterus	1 (2%)	4 (8%)	1 (2%)	4 (8%)
Alveolar/Bronchiolar Adenoma				2 (4%)
Carcinoma, Metastatic, Adrenal Cortex	1 (2%)			
Granulosa Cell Tumor Malignant, Metastatic, Ovary	1 (2%)			
Malignant Mixed Mullerian Tumor, Metastatic, Uterus		1 (2%)		
Olfactory Neuroblastoma, Metastatic, Nose	1 (2%)			

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Nose	(50)	(50)	(50)	(50)
Olfactory Neuroblastoma	1 (2%)			
Trachea	(50)	(49)	(50)	(50)
<b>SPECIAL SENSES SYSTEM</b>				
Eye	(50)	(48)	(49)	(49)
Harderian Gland	(50)	(48)	(49)	(49)
<b>URINARY SYSTEM</b>				
Kidney	(50)	(50)	(50)	(50)
Adenocarcinoma, Metastatic, Uterus		2 (4%)		1 (2%)
Lipoma			1 (2%)	
Urinary Bladder	(50)	(50)	(50)	(50)
Adenocarcinoma, Metastatic, Uterus		1 (2%)		
Granulosa Cell Tumor Malignant, Metastatic, Ovary	1 (2%)			
Malignant Mixed Mullerian Tumor, Metastatic, Uterus		1 (2%)		
Transitional Epithelium, Papilloma	1 (2%)			
<b>SYSTEMIC LESIONS</b>				
Multiple Organ	*(50)	*(50)	*(50)	*(50)
Leukemia Mononuclear			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

Tetrabromobisphenol A

Time Report Requested: 15:06:23

Route: GAVAGE

CAS Number: 79-94-7

First Dose M/F: 07/25/07 / 07/26/07

Species/Strain: RATS/Wistar Han

Lab: BAT

Wistar Han RATS FEMALE	0 mg/kg	250 mg/kg	500 mg/kg	1000 mg/kg
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**Tumor Summary for Females**

Total Animals with Primary Neoplasms (b)	40	43	39	38
Total Primary Neoplasms	71	84	62	61
Total Animals with Benign Neoplasms	38	38	34	30
Total Benign Neoplasms	59	70	48	43
Total Animals with Malignant Neoplasms	10	13	12	14
Total Malignant Neoplasms	12	14	14	18
Total Animals with Metastatic Neoplasms	4	7	4	4
Total Metastatic Neoplasms	6	36	12	14
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