

TDMS No. 20011 - 05

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

Date Report Requested: 07/09/2008

Test Type: CHRONIC

1-Bromopropane

Time Report Requested: 10:20:06

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 106-94-5

First Dose M/F: 07/14/03 / 07/14/03

Species/Strain: RATS/F 344

Lab: BNW

C Number: C20011
Lock Date: 06/15/2006
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.0.0

Test Type: CHRONIC

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Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 106-94-5

First Dose M/F: 07/14/03 / 07/14/03

Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS MALE	CONTROL	125 PPM	250 PPM	500 PPM
Disposition Summary				
Animals Initially in Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	24	20	28	35
Natural Death	3	4	4	2
Survivors				
Terminal Sacrifice	23	26	18	13
Animals Examined Microscopically	50	50	50	50
ALIMENTARY SYSTEM				
Esophagus	(50)	(50)	(50)	(50)
Intestine Large, Cecum	(47)	(47)	(47)	(48)
Intestine Large, Colon	(48)	(48)	(48)	(48)
Adenoma				1 (2%)
Intestine Large, Rectum	(48)	(48)	(48)	(49)
Adenoma			2 (4%)	
Carcinoid Tumor Malignant		1 (2%)		
Polyp Adenomatous		1 (2%)		
Intestine Small, Duodenum	(48)	(48)	(48)	(48)
Intestine Small, Ileum	(47)	(47)	(46)	(48)
Intestine Small, Jejunum	(47)	(47)	(46)	(48)
Adenoma			1 (2%)	
Liver	(50)	(50)	(50)	(50)
Hepatocellular Carcinoma	2 (4%)	1 (2%)		
Mesentery	(13)	(13)	(8)	(19)
Sarcoma			1 (13%)	
Oral Mucosa	(3)	(0)	(2)	(4)
Squamous Cell Carcinoma	1 (33%)		1 (50%)	2 (50%)
Pancreas	(50)	(50)	(50)	(50)
Salivary Glands	(50)	(50)	(50)	(50)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Stomach, Glandular	(50)	(50)	(50)	(50)
Tongue	(0)	(0)	(1)	(1)
CARDIOVASCULAR SYSTEM				

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

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Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS MALE	CONTROL	125 PPM	250 PPM	500 PPM
Heart	(50)	(50)	(50)	(50)
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(50)	(50)
Adenoma	1 (2%)		1 (2%)	
Adrenal Medulla	(50)	(50)	(50)	(50)
Pheochromocytoma Benign	8 (16%)	8 (16%)	5 (10%)	7 (14%)
Pheochromocytoma Complex	1 (2%)			1 (2%)
Pheochromocytoma Malignant		1 (2%)	1 (2%)	1 (2%)
Bilateral, Pheochromocytoma Benign	2 (4%)	1 (2%)	2 (4%)	1 (2%)
Islets, Pancreatic	(50)	(50)	(50)	(50)
Adenoma		5 (10%)	4 (8%)	5 (10%)
Carcinoma	3 (6%)	7 (14%)	5 (10%)	3 (6%)
Parathyroid Gland	(46)	(48)	(47)	(46)
Pituitary Gland	(50)	(50)	(50)	(49)
Pars Distalis, Adenoma	37 (74%)	36 (72%)	33 (66%)	31 (63%)
Thyroid Gland	(50)	(50)	(50)	(49)
C-cell, Adenoma	5 (10%)	4 (8%)	3 (6%)	3 (6%)
C-cell, Carcinoma	4 (8%)	3 (6%)	2 (4%)	
Follicular Cell, Adenoma				2 (4%)
Follicular Cell, Carcinoma		2 (4%)	2 (4%)	1 (2%)
GENERAL BODY SYSTEM				
Peritoneum	(0)	(0)	(0)	(2)
GENITAL SYSTEM				
Coagulating Gland	(3)	(0)	(1)	(2)
Epididymis	(50)	(50)	(50)	(50)
Penis	(0)	(3)	(1)	(1)
Preputial Gland	(50)	(50)	(49)	(50)
Adenoma	4 (8%)	1 (2%)	1 (2%)	1 (2%)
Carcinoma	2 (4%)	2 (4%)	3 (6%)	
Prostate	(50)	(50)	(50)	(50)
Adenoma		1 (2%)		
Seminal Vesicle	(50)	(49)	(49)	(50)
Testes	(50)	(50)	(50)	(50)

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Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS MALE	CONTROL	125 PPM	250 PPM	500 PPM
Bilateral, Interstitial Cell, Adenoma	22 (44%)	20 (40%)	16 (32%)	17 (34%)
Interstitial Cell, Adenoma	12 (24%)	18 (36%)	16 (32%)	12 (24%)
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(50)	(50)
Lymph Node	(5)	(5)	(5)	(4)
Deep Cervical, Carcinoma, Metastatic, Thyroid Gland			1 (20%)	
Lymph Node, Bronchial	(3)	(6)	(5)	(8)
Lymph Node, Mandibular	(3)	(1)	(0)	(6)
Lymph Node, Mediastinal	(30)	(25)	(23)	(32)
Carcinoma, Metastatic, Thyroid Gland	1 (3%)			
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)
Spleen	(50)	(50)	(49)	(50)
Thymus	(43)	(41)	(47)	(46)
INTEGUMENTARY SYSTEM				
Mammary Gland	(40)	(36)	(39)	(36)
Fibroadenoma	2 (5%)	2 (6%)	1 (3%)	1 (3%)
Skin	(50)	(50)	(50)	(50)
Basal Cell Adenoma		1 (2%)	2 (4%)	1 (2%)
Basal Cell Carcinoma		2 (4%)	1 (2%)	2 (4%)
Fibrous Histiocytoma			1 (2%)	
Hemangiosarcoma			1 (2%)	
Keratoacanthoma		3 (6%)	4 (8%)	5 (10%)
Keratoacanthoma, Multiple			2 (4%)	1 (2%)
Squamous Cell Carcinoma	1 (2%)	1 (2%)		2 (4%)
Pinna, Neural Crest Tumor	1 (2%)			
Sebaceous Gland, Adenoma			2 (4%)	1 (2%)
Sebaceous Gland, Carcinoma		1 (2%)		
Subcutaneous Tissue, Fibroma	3 (6%)	5 (10%)	1 (2%)	
Subcutaneous Tissue, Lipoma	2 (4%)		1 (2%)	1 (2%)
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)
Chordoma	1 (2%)			

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Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS MALE	CONTROL	125 PPM	250 PPM	500 PPM
Osteosarcoma	1 (2%)			
Skeletal Muscle	(1)	(1)	(3)	(3)
Chordoma, Metastatic, Bone	1 (100%)			
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Oligodendroglioma Malignant		1 (2%)		
Osteosarcoma	1 (2%)			
Spinal Cord	(1)	(1)	(2)	(1)
RESPIRATORY SYSTEM				
Larynx	(50)	(50)	(50)	(50)
Carcinoma, Metastatic, Thyroid Gland			1 (2%)	
Lung	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Adenoma	2 (4%)	3 (6%)	1 (2%)	5 (10%)
Alveolar/Bronchiolar Adenoma, Multiple		1 (2%)		
Alveolar/Bronchiolar Carcinoma	1 (2%)	1 (2%)	2 (4%)	1 (2%)
Carcinoma, Metastatic, Preputial Gland	1 (2%)			
Carcinoma, Metastatic, Thyroid Gland			1 (2%)	
Chordoma, Metastatic, Bone	1 (2%)			
Nose	(50)	(48)	(48)	(50)
Trachea	(50)	(50)	(50)	(50)
Carcinoma, Metastatic, Thyroid Gland			1 (2%)	
SPECIAL SENSES SYSTEM				
Eye	(49)	(49)	(50)	(50)
Melanoma Malignant		1 (2%)		
Harderian Gland	(50)	(50)	(50)	(50)
Lacrimal Gland	(1)	(0)	(0)	(0)
Zymbal's Gland	(0)	(1)	(2)	(2)
Adenoma				1 (50%)
Carcinoma		1 (100%)	2 (100%)	1 (50%)
URINARY SYSTEM				

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Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS MALE	CONTROL	125 PPM	250 PPM	500 PPM
Kidney	(50)	(50)	(50)	(49)
Liposarcoma				1 (2%)
Stromal Nephroma				1 (2%)
Cortex, Renal Tubule, Adenoma	1 (2%)			
Pelvis, Papilloma	1 (2%)			
Urinary Bladder	(50)	(50)	(50)	(50)
Transitional Epithelium, Carcinoma		1 (2%)		
SYSTEMIC LESIONS				
Multiple Organs	*(50)	*(50)	*(50)	*(50)
Histiocytic Sarcoma			1 (2%)	2 (4%)
Leukemia Mononuclear	29 (58%)	22 (44%)	16 (32%)	24 (48%)
Lymphoma Malignant				1 (2%)
Mesothelioma Malignant		2 (4%)	2 (4%)	4 (8%)

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

* Number of animals with any tissue examined microscopically

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Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS MALE	CONTROL	125 PPM	250 PPM	500 PPM
Tumor Summary for Males				
Total Animals with Primary Neoplasms (b)	50	50	48	49
Total Primary Neoplasms	150	160	139	143
Total Animals with Benign Neoplasms	48	49	47	48
Total Benign Neoplasms	102	110	98	96
Total Animals with Malignant Neoplasms	38	33	32	32
Total Malignant Neoplasms	47	50	41	47
Total Animals with Metastatic Neoplasms	3		1	
Total Metastatic Neoplasms	4		4	
Total Animals with Malignant Neoplasms Uncertain Primary Site				
Total Animals with Neoplasms Uncertain-Benign or Malignant	1			
Total Uncertain Neoplasms	1			

*** 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

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Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS FEMALE	CONTROL	125 PPM	250 PPM	500 PPM
Disposition Summary				
Animals Initially in Study	50	50	50	50
Early Deaths				
Accidently Killed				2
Moribund Sacrifice	13	17	17	23
Natural Death	3		3	1
Survivors				
Terminal Sacrifice	34	33	30	24
Animals Examined Microscopically	50	50	50	50
ALIMENTARY SYSTEM				
Intestine Large, Colon	(47)	(50)	(48)	(49)
Adenoma		1 (2%)	1 (2%)	1 (2%)
Carcinoid Tumor Malignant			1 (2%)	
Intestine Large, Rectum	(47)	(50)	(48)	(49)
Adenoma			1 (2%)	4 (8%)
Intestine Small, Ileum	(46)	(50)	(47)	(48)
Carcinoma		1 (2%)		
Intestine Small, Jejunum	(47)	(50)	(47)	(48)
Liver	(50)	(50)	(50)	(50)
Hepatocellular Carcinoma	1 (2%)			
Mesentery	(13)	(26)	(17)	(23)
Sarcoma			1 (6%)	
Sarcoma, Metastatic, Stomach, Forestomach				1 (4%)
Oral Mucosa	(2)	(0)	(1)	(1)
Pancreas	(50)	(50)	(50)	(50)
Sarcoma, Metastatic, Mesentery			1 (2%)	
Salivary Glands	(50)	(50)	(50)	(50)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Sarcoma				1 (2%)
Stomach, Glandular	(50)	(50)	(50)	(50)
Sarcoma				1 (2%)
Tongue	(0)	(1)	(0)	(1)
Tooth	(0)	(0)	(1)	(0)

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Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS FEMALE	CONTROL	125 PPM	250 PPM	500 PPM
CARDIOVASCULAR SYSTEM				
Heart	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung			1 (2%)	
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(50)	(50)
Adenoma	3 (6%)	3 (6%)		
Adrenal Medulla	(50)	(50)	(50)	(50)
Pheochromocytoma Benign	2 (4%)	4 (8%)	1 (2%)	
Pheochromocytoma Complex	1 (2%)			
Islets, Pancreatic	(50)	(50)	(50)	(50)
Adenoma		2 (4%)	1 (2%)	
Carcinoma	1 (2%)	1 (2%)	1 (2%)	
Pituitary Gland	(50)	(50)	(50)	(50)
Pars Distalis, Adenoma	35 (70%)	33 (66%)	28 (56%)	30 (60%)
Pars Distalis, Carcinoma		1 (2%)	1 (2%)	
Thyroid Gland	(50)	(50)	(50)	(50)
C-cell, Adenoma	3 (6%)	3 (6%)	3 (6%)	4 (8%)
C-cell, Carcinoma	1 (2%)	2 (4%)	2 (4%)	2 (4%)
Follicular Cell, Adenoma		1 (2%)	1 (2%)	
Follicular Cell, Carcinoma				1 (2%)
GENERAL BODY SYSTEM				
None				
GENITAL SYSTEM				
Clitoral Gland	(49)	(50)	(49)	(49)
Adenoma	3 (6%)	9 (18%)	3 (6%)	3 (6%)
Carcinoma	1 (2%)	3 (6%)	2 (4%)	1 (2%)
Ovary	(50)	(50)	(50)	(50)
Cystadenoma			1 (2%)	
Granulosa Cell Tumor Malignant			1 (2%)	
Granulosa-Theca Tumor Malignant	2 (4%)			
Uterus	(50)	(50)	(50)	(50)

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Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS FEMALE	CONTROL	125 PPM	250 PPM	500 PPM
Adenoma				1 (2%)
Polyp Stromal	8 (16%)	8 (16%)	8 (16%)	7 (14%)
Sarcoma Stromal	2 (4%)		1 (2%)	1 (2%)
Vagina	(3)	(0)	(0)	(0)
Sarcoma	1 (33%)			
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(50)	(50)
Lymph Node	(1)	(3)	(2)	(2)
Lymph Node, Bronchial	(1)	(4)	(5)	(7)
Squamous Cell Carcinoma, Metastatic, Lung		1 (25%)		
Lymph Node, Mediastinal	(34)	(30)	(31)	(28)
Carcinoma, Metastatic, Thyroid Gland			1 (3%)	
Lymph Node, Mesenteric	(49)	(49)	(50)	(50)
Spleen	(50)	(50)	(50)	(50)
Thymus	(46)	(45)	(45)	(43)
Thymoma Benign	1 (2%)			
INTEGUMENTARY SYSTEM				
Mammary Gland	(50)	(50)	(50)	(50)
Carcinoma	4 (8%)	3 (6%)	3 (6%)	1 (2%)
Fibroadenoma	19 (38%)	14 (28%)	15 (30%)	15 (30%)
Fibroadenoma, Multiple	6 (12%)	6 (12%)	6 (12%)	1 (2%)
Skin	(50)	(50)	(50)	(50)
Basal Cell Adenoma		1 (2%)		1 (2%)
Basal Cell Carcinoma				1 (2%)
Keratoacanthoma	1 (2%)		1 (2%)	1 (2%)
Squamous Cell Papilloma				1 (2%)
Pinna, Neural Crest Tumor	1 (2%)	1 (2%)		
Sebaceous Gland, Adenoma		1 (2%)		
Subcutaneous Tissue, Fibroma	2 (4%)			
Subcutaneous Tissue, Lipoma			1 (2%)	
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)

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Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS FEMALE	CONTROL	125 PPM	250 PPM	500 PPM
Skeletal Muscle	(0)	(0)	(1)	(4)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung			1 (100%)	
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Carcinoma, Metastatic, Pituitary Gland		1 (2%)	1 (2%)	
Glioma Malignant	1 (2%)			
Spinal Cord	(0)	(1)	(0)	(3)
RESPIRATORY SYSTEM				
Larynx	(50)	(50)	(50)	(50)
Lung	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Adenoma	1 (2%)	4 (8%)		2 (4%)
Alveolar/Bronchiolar Adenoma, Multiple			1 (2%)	
Alveolar/Bronchiolar Carcinoma	1 (2%)	1 (2%)	2 (4%)	
Squamous Cell Carcinoma		1 (2%)		
Nose	(50)	(50)	(49)	(50)
Fibroma				1 (2%)
Pleura	(0)	(0)	(1)	(0)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung			1 (100%)	
Trachea	(50)	(50)	(50)	(50)
SPECIAL SENSES SYSTEM				
Ear	(0)	(0)	(1)	(1)
Eye	(50)	(50)	(50)	(50)
Harderian Gland	(50)	(50)	(50)	(50)
Zymbal's Gland	(1)	(1)	(2)	(0)
Carcinoma	1 (100%)	1 (100%)	2 (100%)	
URINARY SYSTEM				
Kidney	(49)	(50)	(50)	(50)
Sarcoma, Metastatic, Stomach,				1 (2%)

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Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS FEMALE	CONTROL	125 PPM	250 PPM	500 PPM
Forestomach Renal Tubule, Carcinoma	1 (2%)			
SYSTEMIC LESIONS				
Multiple Organs	*(50)	*(50)	*(50)	*(50)
Histiocytic Sarcoma		1 (2%)		
Leukemia Mononuclear	16 (32%)	13 (26%)	17 (34%)	15 (30%)
Lymphoma Malignant		1 (2%)		

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* Number of animals with any tissue examined microscopically

Test Type: CHRONIC

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Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS FEMALE	CONTROL	125 PPM	250 PPM	500 PPM
Tumor Summary for Females				
Total Animals with Primary Neoplasms (b)	49	48	46	43
Total Primary Neoplasms	119	120	106	96
Total Animals with Benign Neoplasms	45	46	36	41
Total Benign Neoplasms	84	90	72	72
Total Animals with Malignant Neoplasms	26	23	28	20
Total Malignant Neoplasms	34	29	34	24
Total Animals with Metastatic Neoplasms		2	4	1
Total Metastatic Neoplasms		2	6	2
Total Animals with Malignant Neoplasms Uncertain Primary Site				
Total Animals with Neoplasms Uncertain-Benign or Malignant	1	1		
Total Uncertain Neoplasms	1	1		

*** 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