Test Type: CHRONIC

## P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

1-Bromopropane

**CAS Number:** 106-94-5

Species/Strain: RATS/F 344

C Number: C20011

Route: RESPIRATORY EXPOSURE WHOLE BODY

**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

Date Report Requested: 07/09/2008

Time Report Requested: 10:20:06 First Dose M/F: 07/14/03 / 07/14/03

Species/Strain: RATS/F 344

Route: RESPIRATORY EXPOSURE WHOLE BODY

### P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

1-Bromopropane

**CAS Number:** 106-94-5

Date Report Requested: 07/09/2008

Time Report Requested: 10:20:06 First Dose M/F: 07/14/03 / 07/14/03

FISCHER 344 RATS MALE	CONTROL	125 PPM	250 PPM	500 PPM
Disposition Summary				
Animals Initially in Study	50	50	50	50
Early Deaths	0.4	00	00	05
Moribund Sacrifice Natural Death	24 3	20 4	28 4	35 2
Survivors	3	4	4	2
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)
Edema	1 [2.0]			
Inflammation, Chronic Active			1 [2.0]	
Necrosis	1 [2.0]			
Artery, Inflammation	1 [2.0]			
Intestine Large, Colon	(48)	(48)	(48)	(48)
Artery, Inflammation	1 [2.0]	(40)	(40)	(40)
Intestine Large, Rectum	(48)	(48)	(48)	(49)
Necrosis Intestine Small, Duodenum	(40)	(40)	1 [1.0] (48)	1 [1.0]
Fibrosis	(48) 1 [3.0]	(48)	(40)	(48)
Intestine Small, Ileum	(47)	(47)	(46)	(48)
Inflammation, Chronic Active	(77)	(77)	1 [2.0]	(40)
Necrosis	1 [1.0]		1 [1.0]	
Intestine Small, Jejunum	(47)	(47)	(46)	(48)
Liver	(50)	(50)	(50)	(50)
Angiectasis	` '	2 [3.0]	1 [2.0]	` '
Basophilic Focus	9 [3.0]	9 [3.0]	8 [3.0]	8 [3.0]
Clear Cell Focus	16 [2.1]	25 [2.0]	17 [2.2]	15 [2.0]
Degeneration, Cystic	2 [2.5]	2 [2.0]	1 [2.0]	4 [2.3]
Eosinophilic Focus		1 [2.0]	1 [2.0]	1 [3.0]
Hemorrhage	4 (0.01	4.54.01		1 [3.0]
Hepatodiaphragmatic Nodule	4 [3.8]	1 [4.0]	0.10.01	2 [3.5]
Mixed Cell Focus	2 [2.5]	1 [2.0]	3 [2.0]	1 [2 0]
Necrosis	2 [2.5]	1 [1.0]	1 [3.0]	1 [3.0]

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

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

# P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

1-Bromopropane

**CAS Number:** 106-94-5

Time Report Requested: 10:20:06 First Dose M/F: 07/14/03 / 07/14/03

Date Report Requested: 07/09/2008

Lab: BNW

Species/Strain: RATS/F 344

Route: RESPIRATORY EXPOSURE WHOLE BODY

FISCHER 344 RATS MALE	CONTROL	125 PPM	250 PPM	500 PPM	
Thrombosis	1 [2.0]		1 [2.0]		
Vacuolization Cytoplasmic	31 [2.1]	38 [1.8]	32 [1.9]	37 [2.3]	
Serosa, Fibrosis	1 [2.0]				
Mesentery	(13)	(13)	(8)	(19)	
Necrosis	13 [3.0]	13 [3.0]	7 [3.0]	17 [3.0]	
Oral Mucosa	(3)	(0)	(2)	(4)	
Foreign Body	1		1	2	
Hyperplasia, Squamous	1 [2.0]		1 [2.0]		
Inflammation, Chronic Active	1 [3.0]			2 [2.0]	
Pancreas	(50)	(50)	(50)	(50)	
Basophilic Focus	1 [1.0]			1 [1.0]	
Cyst				1 [3.0]	
Fibrosis				1 [4.0]	
Necrosis				1 [2.0]	
Acinus, Atrophy	23 [1.4]	13 [2.0]	20 [1.9]	23 [1.9]	
Artery, Inflammation	1 [3.0]			1 [3.0]	
Salivary Glands	(50)	(50)	(50)	(50)	
Hyperplasia	1 [1.0]				
Inflammation, Chronic Active		1 [1.0]	3 [1.7]	2 [2.0]	
Stomach, Forestomach	(50)	(50)	(50)	(50)	
Erosion	1 [1.0]				
Hyperplasia, Squamous	1 [2.0]	1 [1.0]	1 [2.0]	1 [2.0]	
Ulcer	7 [2.6]	3 [2.0]	5 [2.2]	4 [2.0]	
Stomach, Glandular	(50)	(50)	(50)	(50)	
Erosion	1 [1.0]		1 [2.0]		
Ulcer	1 [2.0]	2 [2.5]	1 [2.0]		
Artery, Inflammation	1 [2.0]				
Epithelium, Hyperplasia				1 [2.0]	
Tongue	(0)	(0)	(1)	(1)	
Hyperplasia, Squamous			1 [1.0]	1 [3.0]	
ARDIOVASCULAR SYSTEM					
Heart	(50)	(50)	(50)	(50)	
Cardiomyopathy	26 [1.5]	23 [1.8]	23 [1.7]	15 [1.7]	
Atrium, Thrombosis	4 [3.3]			2 [3.0]	
Ventricle, Thrombosis				1 [3.0]	

#### **ENDOCRINE SYSTEM**

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

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Species/Strain: RATS/F 344

Route: RESPIRATORY EXPOSURE WHOLE BODY

# P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

1-Bromopropane

**CAS Number:** 106-94-5

Time Report Requested: 10:20:06

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

Date Report Requested: 07/09/2008

FISCHER 344 RATS MALE	CONTROL	125 PPM	250 PPM	500 PPM
Adrenal Cortex	(50)	(50)	(50)	(50)
Hyperplasia	27 [1.8]	21 [1.8]	22 [1.8]	20 [1.6]
Vacuolization Cytoplasmic	9 [1.2]	16 [1.6]	9 [2.0]	12 [1.7]
Adrenal Medulla	(50)	(50)	(50)	(50)
Hemorrhage	1 [4.0]	(00)	(33)	(55)
Hyperplasia	23 [1.7]	18 [1.9]	23 [1.8]	19 [1.6]
Islets, Pancreatic	(50)	(50)	(50)	(50)
Hyperplasia	10 [1.7]	7 [1.9]	6 [1.3]	9 [1.8]
Parathyroid Gland	(46)	(48)	(47)	(46)
Hyperplasia	2 [1.5]	( - /	,	( - /
Pituitary Gland	(50)	(50)	(50)	(49)
Cyst	1 [2.0]	2 [3.5]	1 [3.0]	,
Hemorrhage	4 [3.0]	2 [3.5]	5 [2.8]	
Pars Distalis, Hyperplasia	8 [1.9]	5 [2.0]	11 [1.5]	7 [1.7]
Thyroid Gland	(50)	(50)	(50)	(49)
Ultimobranchial Cyst				1 [2.0]
C-cell, Hyperplasia	32 [1.7]	31 [1.8]	29 [1.7]	34 [1.5]
Follicular Cell, Hyperplasia		1 [2.0]		
SENERAL BODY SYSTEM  Peritoneum Inflammation, Suppurative, Chronic	(0)	(0)	(0)	(2) 1 [4.0]
GENITAL SYSTEM				
Coagulating Gland	(3)	(0)	(1)	(2)
Hyperplasia	1 [3.0]	(3)	( · /	( <del>-</del> /
Inflammation, Suppurative	2 [3.0]			
Epididymis	(50)	(50)	(50)	(50)
Penis	(0)	(3)	(1)	`(1) <sup>'</sup>
Concretion	• •		1 [2.0]	
Hyperplasia, Squamous		1 [1.0]		
Preputial Gland	(50)	(50)	(49)	(50)
Ectasia			1 [2.0]	1 [3.0]
Hyperplasia	3 [3.3]			1 [2.0]
Inflammation, Suppurative, Chronic		1 [4.0]		
Inflammation, Chronic Active	30 [1.5]	33 [2.1]	31 [1.8]	37 [1.8]
Prostate	(50)	(50)	(50)	(50)

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

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Species/Strain: RATS/F 344

Route: RESPIRATORY EXPOSURE WHOLE BODY

## P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

1-Bromopropane

**CAS Number:** 106-94-5

Time Report Requested: 10:20:06 First Dose M/F: 07/14/03 / 07/14/03

Date Report Requested: 07/09/2008

FISCHER 344 RATS MALE	CONTROL	125 PPM	250 PPM	500 PPM	
Hyperplasia	12 [1.3]	13 [1.4]	10 [1.6]	17 [1.4]	
Inflammation, Suppurative, Chronic				1 [4.0]	
Inflammation, Suppurative	38 [1.6]	42 [1.8]	40 [1.5]	36 [1.4]	
Seminal Vesicle	(50)	(49)	(49)	(50)	
Congestion			1 [3.0]	4.50.03	
Dilatation				1 [3.0]	
Hyperplasia	0.10.51	4 [0 0]		1 [2.0]	
Inflammation, Suppurative Testes	2 [2.5]	1 [3.0]	<i>(E</i> 0)	2 [4.0]	
Mineralization	(50)	(50)	(50) 1 [1.0]	(50)	
Germinal Epithelium, Atrophy	12 [2.7]	1 [2.0] 8 [3.3]	7 [2.6]	6 [2.8]	
Interstitial Cell, Hyperplasia	1 [2.0]	ပ [၁.၁]	7 [2.6] 2 [1.5]	1 [1.0]	
	. [=.0]		_[0]	. [0]	
EMATOPOIETIC SYSTEM					
Bone Marrow	(50)	(50)	(50)	(50)	
Thrombosis	1 [2.0]				
Lymph Node	(5)	(5)	(5)	(4)	
Deep Cervical, Angiectasis			1 [3.0]		
Pancreatic, Angiectasis		2 [3.0]		4.50.03	
Pancreatic, Hemorrhage	(0)	(0)	<b>(F)</b>	1 [2.0]	
Lymph Node, Bronchial	(3)	(6)	(5)	(8)	
Angiectasis Fibrosis	1 [3.0]	2 [3.0]	2 [3.5]		
Hemorrhage	1 [2 0]	1 [2.0]	1 [3.0]	1 [2 0]	
Hyperplasia, Lymphoid	1 [2.0]	1 [2.0]	ا [٥.٥]	1 [2.0] 4 [2.5]	
Lymph Node, Mandibular	(3)	(1)	(0)	(6)	
Angiectasis	(0)	(1)	(0)	1 [3.0]	
Lymph Node, Mediastinal	(30)	(25)	(23)	(32)	
Angiectasis	(55)	(==)	1 [3.0]	3 [3.0]	
Hyperplasia, Lymphoid		1 [3.0]	1 [2.0]	2 [2.5]	
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)	
Angiectasis	, ,	1 [3.0]	1 [3.0]	2 [2.5]	
Hyperplasia, Lymphoid				1 [2.0]	
Infiltration Cellular, Histiocyte			1 [3.0]		
Artery, Necrosis		1 [3.0]			
Spleen	(50)	(50)	(49)	(50)	
Accessory Spleen	1		1		
Fibrosis	1 [2.0]	2 [3.0]	1 [2.0]		

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

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Species/Strain: RATS/F 344

Route: RESPIRATORY EXPOSURE WHOLE BODY

## P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

1-Bromopropane

**CAS Number:** 106-94-5

Date Report Requested: 07/09/2008

Time Report Requested: 10:20:06 First Dose M/F: 07/14/03 / 07/14/03

FISCHER 344 RATS MALE	CONTROL	125 PPM	250 PPM	500 PPM	
Hematopoietic Cell Proliferation Hemorrhage, Chronic	10 [1.2] 4 [3.5]	17 [1.8]	13 [1.8] 1 [4.0]	6 [2.2] 3 [3.7]	
Hyperplasia, Lymphoid Infarct, Chronic Infiltration Cellular, Mononuclear Cell		1 [2.0] 1 [3.0]	2 [3.0] 1 [3.0]	3 [3.3]	
Thymus Cyst	(43)	(41)	(47) 1 [4.0]	(46)	
TEGUMENTARY SYSTEM					
Mammary Gland Galactocele Hyperplasia	(40) 1 [3.0]	(36) 1 [4.0] 1 [4.0]	(39)	(36)	
Epithelium, Hyperplasia Skin Cyst Epithelial Inclusion	1 [1.0] (50)	1 [2.0] (50) 1 [4.0]	(50) 1 [3.0]	1 [1.0] (50)	
Foreign Body Hyperkeratosis Hyperplasia, Squamous	3 [2.7]	1	2 [3.0]	1 [1.0]	
Inflammation, Suppurative, Chronic Inflammation, Chronic Active Thrombosis	1 [2.0]	1 [4.0] 3 [3.3] 1 [3.0]	2 [4.0] 3 [3.0]	1 [1.0] 10 [4.0] 4 [2.5]	
USCULOSKELETAL SYSTEM					
Bone Fibrosis Hyperostosis	(50)	(50)	(50)	(50) 1 [4.0] 1 [1.0]	
Inflammation, Suppurative, Chronic Skeletal Muscle Inflammation, Suppurative, Chronic	(1)	(1)	(3)	2 [4.0] (3) 1 [4.0]	
ERVOUS SYSTEM					
Brain Hemorrhage Spinal Cord	(50) 1 [2.0] (1)	(50) 1 [2.0] (1)	(50) 2 [2.0] (2)	(50) 2 [2.0] (1)	

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

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

# P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

1-Bromopropane

**CAS Number:** 106-94-5

Time Report Requested: 10:20:06 First Dose M/F: 07/14/03 / 07/14/03

Date Report Requested: 07/09/2008

Lab: BNW

Route: RESPIRATORY EXPOSURE WHOLE BODY

FISCHER 344 RATS MALE	CONTROL	125 PPM	250 PPM	500 PPM
RESPIRATORY SYSTEM				
Larynx	(50)	(50)	(50)	(50)
Foreign Body	6	1	5	1
Inflammation, Suppurative, Chronic				1 [4.0]
Inflammation, Chronic Active	21 [1.4]	28 [1.3]	31 [1.4]	26 [1.3]
Metaplasia, Squamous	4 [1.0]	6 [1.0]	8 [1.1]	5 [1.2]
Respiratory Epithelium, Hyperplasia	1 [1.0]		1 [1.0]	1 [2.0]
Lung	(50)	(50)	(50)	(50)
Foreign Body			1	
Hemorrhage	2 [2.0]	5 [2.0]	1 [2.0]	1 [2.0]
Inflammation, Suppurative, Chronic			1 [4.0]	3 [4.0]
Inflammation, Chronic Active	5 [2.0]			3 [1.7]
Metaplasia, Osseous		1 [2.0]		
Alveolar Epithelium, Hyperplasia	15 [1.6]	11 [1.8]	13 [1.8]	11 [1.1]
Alveolar Epithelium, Metaplasia,			1 [1.0]	
Squamous				
Alveolus, Infiltration Cellular, Histiocyte	16 [1.8]	14 [1.3]	13 [1.5]	11 [1.8]
Artery, Inflammation				1 [2.0]
Nose	(50)	(48)	(48)	(50)
Degeneration, Hyaline		1 [2.0]		
Foreign Body	11	10	15	11
Inflammation, Suppurative, Chronic		1 [4.0]	2 [4.0]	7 [4.0]
Inflammation, Chronic Active	29 [1.6]	33 [1.4]	34 [1.5]	35 [1.5]
Epithelium, Accumulation, Hyaline	44 [1.0]	39 [1.5]	36 [1.3]	44 [1.3]
Droplet				
Glands, Hyperplasia	5 [2.0]	14 [2.0]	14 [2.0]	15 [2.0]
Olfactory Epithelium, Atrophy			1 [1.0]	
Olfactory Epithelium, Metaplasia,	7 [1.4]	10 [1.5]	12 [1.6]	12 [1.8]
Respiratory				
Respiratory Epithelium, Hyperplasia	14 [1.6]	15 [1.8]	20 [1.7]	17 [1.9]
Respiratory Epithelium, Metaplasia,	1 [1.0]	1 [1.0]		2 [1.5]
Squamous	(==)	(==)	(==)	(==)
Trachea	(50)	(50)	(50)	(50)
Inflammation, Chronic Active	1 [2.0]	1 [1.0]	1 [1.0]	4 [1.5]
Epithelium, Hyperplasia	1 [2.0]			1 [2.0]

#### SPECIAL SENSES SYSTEM

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

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Test Type: CHRONIC

Species/Strain: RATS/F 344

Route: RESPIRATORY EXPOSURE WHOLE BODY

# P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

1-Bromopropane

**CAS Number:** 106-94-5

Date Report Requested: 07/09/2008

Time Report Requested: 10:20:06 First Dose M/F: 07/14/03 / 07/14/03

FISCHER 344 RATS MALE	CONTROL	125 PPM	250 PPM	500 PPM	
Eye	(49)	(49)	(50)	(50)	
Inflammation, Chronic Active			1 [1.0]	2 [1.5]	
Lens, Cataract	2 [3.0]		3 [3.0]	2 [3.0]	
Retina, Degeneration		1 [1.0]			
Harderian Gland	(50)	(50)	(50)	(50)	
Inflammation, Suppurative, Chronic				2 [4.0]	
Lacrimal Gland	(1)	(0)	(0)	(0)	
Inflammation, Chronic Active	1 [3.0]				
Zymbal's Gland	(0)	(1)	(2)	(2)	
RINARY SYSTEM  Kidney  Cyst	(50)	(50)	(50) 1 [3.0]	(49) 1 [3.0]	
Inflammation, Suppurative	1 [3.0]				
Nephropathy, Chronic	44 [2.0]	45 [2.6]	39 [2.3]	44 [2.3]	
Cortex, Infarct	1 [2.0]		0.14.01		
Cortex, Renal Tubule, Casts Granular			2 [1.0]	2 [2 0]	
Pelvis, Inflammation, Chronic Active	<i>(E</i> 0)	(FO)	(FO)	2 [2.0]	
Urinary Bladder	(50)	(50)	(50)	(50)	
Hemorrhage	1 [2 0]		1 [3.0]	1 [2 0]	
Inflammation, Chronic Active Transitional Epithelium, Hyperplasia	1 [2.0]			1 [2.0] 1 [4.0]	

<sup>\*\*\*</sup> END OF MALE \*\*\*

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

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Species/Strain: RATS/F 344

Route: RESPIRATORY EXPOSURE WHOLE BODY

### P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

1-Bromopropane

**CAS Number:** 106-94-5

Time Report Requested: 10:20:06

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

Date Report Requested: 07/09/2008

FISCHER 344 RATS FEMALE	CONTROL	125 PPM	250 PPM	500 PPM
Disposition Summary				
Animals Initially in Study	50	50	50	50
Early Deaths				2
Accidently Killed Moribund Sacrifice	13	17	17	2 23
Natural Death	3	17	3	1
Survivors	J		J	'
Terminal Sacrifice	34	33	30	24
Animals Examined Microscopically	50	50	50	50
ALIMENTARY SYSTEM				
Intestine Large, Colon	(47)	(50)	(48)	(49)
Intestine Large, Rectum	(47)	(50)	(48)	(49)
Inflammation, Suppurative				1 [1.0]
Necrosis				1 [1.0]
Intestine Small, Ileum	(46)	(50)	(47)	(48)
Intestine Small, Jejunum	(47)	(50)	(47)	(48)
Liver	(50)	(50)	(50)	(50)
Angiectasis	3 [2.7]	2 [3.5]	2 [2.5]	1 [3.0]
Basophilic Focus	40 [3.0]	43 [3.0]	42 [3.0]	39 [3.0]
Clear Cell Focus Cyst	30 [2.4] 1 [2.0]	34 [2.1]	35 [2.4]	35 [2.5]
Degeneration, Cystic	۱ [۷.۵]			1 [2.0]
Eosinophilic Focus	1 [2.0]		1 [3.0]	1 [2.0]
Hepatodiaphragmatic Nodule	4 [4.0]	9 [4.0]	5 [4.0]	5 [4.0]
Mixed Cell Focus	2 [3.0]	2 [3.0]	3 [3.0]	3 [2.3]
Necrosis	1 [3.0]	- [2.0]	1 [2.0]	- []
Vacuolization Cytoplasmic	40 [2.1]	41 [1.9]	39 [2.1]	47 [2.5]
Bile Duct, Cyst			• •	1 [3.0]
Serosa, Fibrosis	1 [2.0]			
Mesentery	(13)	(26)	(17)	(23)
Necrosis	13 [3.0]	26 [3.0]	16 [3.0]	22 [3.0]
Oral Mucosa	(2)	(0)	(1)	(1)
Foreign Body	0 [0 5]		1	1
Hyperplasia, Squamous	2 [2.5]		1 [3.0]	1 [2.0]
Inflammation, Chronic Active				1 [2.0]

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

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Species/Strain: RATS/F 344

Route: RESPIRATORY EXPOSURE WHOLE BODY

## P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

1-Bromopropane

**CAS Number:** 106-94-5

Date Report Requested: 07/09/2008

Time Report Requested: 10:20:06 First Dose M/F: 07/14/03 / 07/14/03

FISCHER 344 RATS FEMALE	CONTROL	125 PPM	250 PPM	500 PPM	
Pancreas	(50)	(50)	(50)	(50)	
Acinus, Atrophy	9 [1.6]	12 [1.5]	7 [1.6]	7 [1.7]	
Salivary Glands	(50)	(50)	(50)	(50)	
Hyperplasia			1 [1.0]		
Inflammation, Chronic Active				1 [1.0]	
Necrosis			1 [4.0]		
Stomach, Forestomach	(50)	(50)	(50)	(50)	
Hyperplasia, Basal Cell	1 [2.0]			1 [2.0]	
Hyperplasia, Squamous	4 [2.0]		2 [2.0]	2 [2.0]	
Ulcer	2 [2.5]	3 [1.7]	3 [2.0]	6 [1.8]	
Stomach, Glandular	(50)	(50)	(50)	(50)	
Erosion	,	1 [1.0]	` ,	,	
Ulcer	3 [1.7]	1 [1.0]	1 [2.0]	1 [2.0]	
Tongue	(0)	(1)	(0)	(1)	
Hyperplasia, Squamous	( )	1 [2.0]	,	( )	
Tooth	(0)	(0)	(1)	(0)	
Inflammation, Chronic Active	( )	( )	1 [3.0]	( )	
ARDIOVASCULAR SYSTEM  Heart Cardiomyopathy Atrium, Thrombosis	(50) 35 [1.4] 1 [3.0]	(50) 32 [1.4]	(50) 34 [1.4]	(50) 21 [1.4]	
NDOCRINE SYSTEM					
Adrenal Cortex	(50)	(50)	(50)	(50)	
Degeneration, Cystic	1 [4.0]		1 [4.0]		
Hyperplasia	27 [1.8]	30 [1.7]	24 [1.8]	26 [2.0]	
Necrosis				1 [2.0]	
Vacuolization Cytoplasmic	12 [2.1]	16 [2.3]	16 [2.1]	11 [1.8]	
Adrenal Medulla	(50)	(50)	(50)	(50)	
Hyperplasia	4 [2.5]	9 [1.7]	7 [1.4]	6 [1.7]	
Matanlasia Ossasus	1 [3.0]				
Metaplasia, Osseous	(FO)	(50)	(50)	(50)	
Islets, Pancreatic	(50)				
Islets, Pancreatic Hyperplasia	(50)	3 [3.0]	4 [2.0]	4 [2.5]	
Islets, Pancreatic Hyperplasia Metaplasia, Hepatocyte	, ,	3 [3.0]	2 [1.0]	1 [1.0]	
Islets, Pancreatic Hyperplasia	(50) (50) 2 [3.0]				

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

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Test Type: CHRONIC

Species/Strain: RATS/F 344

Route: RESPIRATORY EXPOSURE WHOLE BODY

# P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

1-Bromopropane

**CAS Number:** 106-94-5

Date Report Requested: 07/09/2008

Time Report Requested: 10:20:06 First Dose M/F: 07/14/03 / 07/14/03

Lab: BNW

FISCHER 344 RATS FEMALE	CONTROL	125 PPM	250 PPM	500 PPM	
Hemorrhage Pars Distalis, Hyperplasia	2 [2.5] 7 [2.6]	4 [2.8] 11 [2.4]	5 [2.8] 7 [2.6]	3 [2.7] 7 [2.0]	
Thyroid Gland	(50)	(50)	(50)	(50)	
Ültimobranchial Cyst C-cell, Hyperplasia	1 [2.0] 39 [2.2]	1 [2.0] 36 [1.9]	37 [1.8]	37 [1.8]	
Follicular Cell, Hyperplasia	00 [2.2]	1 [2.0]	2 [2.0]	<i>57</i> [1.6]	
GENERAL BODY SYSTEM					
None					
GENITAL SYSTEM					
Clitoral Gland	(49)	(50)	(49)	(49)	
Hyperplasia Inflammation, Chronic Active	3 [3.0] 22 [1.5]	5 [3.0] 26 [1.8]	9 [2.8] 26 [1.9]	4 [4.0] 18 [2.1]	
Ovary	(50)	(50)	(50)	(50)	
Cyst	3 [3.3]	1 [4.0]	7 [3.9]	3 [4.0]	
Interstitial Cell, Hyperplasia Uterus	(50)	(50)	1 [4.0] (50)	(50)	
Congestion	(00)	(00)	1 [2.0]		
Cyst Decidual Reaction				1 [3.0]	
Hemorrhage		2 [3.5]		2 [3.5] 1 [4.0]	
Hydrometra		1 [3.0]			
Inflammation, Chronic Active Endometrium, Hyperplasia			1 [2.0]	1 [2.0]	
Vagina	(3)	(0)	(0)	(0)	
Muscularis, Hypertrophy	2 [3.0]				
HEMATOPOIETIC SYSTEM					
Bone Marrow	(50)	(50)	(50)	(50)	
Hyperplasia, Histiocytic Lymph Node	1 [4.0] (1)	1 [4.0] (3)	1 [4.0] (2)	1 [4.0] (2)	
Inflammation, Chronic Active	1 [3.0]		(2)	(2)	
Deep Cervical, Ectasia		1 [3.0]			

Deep Cervical, Hyperplasia, Lymphoid

1 [3.0]

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

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Species/Strain: RATS/F 344

Route: RESPIRATORY EXPOSURE WHOLE BODY

## P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

1-Bromopropane

**CAS Number:** 106-94-5

Time Report Requested: 10:20:06 First Dose M/F: 07/14/03 / 07/14/03

Date Report Requested: 07/09/2008

FISCHER 344 RATS FEMALE	CONTROL	125 PPM	250 PPM	500 PPM	
Denouatie Hamawhana				4 [2 0]	
Pancreatic, Hemorrhage	(4)	(4)	(5)	1 [3.0]	
Lymph Node, Bronchial	(1) 1 [2.0]	(4)	(5) 2 [3.0]	(7) 1 [3.0]	
Angiectasis	1 [2.0]				
Hemorrhage	(2.4)	(20)	1 [2.0]	1 [2.0]	
Lymph Node, Mediastinal	(34)	(30)	(31)	(28)	
Angiectasis			2 [3.5]	2 [3.0]	
Hemorrhage	(40)	(40)	(50)	2 [2.5]	
Lymph Node, Mesenteric	(49)	(49)	(50)	(50)	
Hemorrhage	4 [0.0]		1 [4.0]		
Hyperplasia, Lymphoid	1 [2.0]			4 [0 0]	
Infiltration Cellular, Histiocyte	1 [2.0]	(50)	(50)	1 [2.0]	
Spleen	(50)	(50)	(50)	(50)	
Hematopoietic Cell Proliferation	33 [1.8]	32 [1.9]	29 [1.8]	21 [1.7]	
Hemorrhage, Chronic	1 [3.0]		1 [3.0]	2 [3.5]	
Infarct, Chronic	1 [3.0]	1 [4.0]	1 [3.0]	1 [3.0]	
Inflammation, Granulomatous		2 [4.0]			
Lymphoid Follicle, Atrophy	4.5	1 [2.0]	4	4>	
Thymus	(46)	(45)	(45)	(43)	
Cyst	1 [2.0]				
EGUMENTARY SYSTEM					
Mammary Gland	(50)	(50)	(50)	(50)	
Galactocele	1 [4.0]	(30)	3 [4.0]	1 [3.0]	
Hyperplasia	1 [4.0]		3 [4.0]	1 [5.0]	
Inflammation, Chronic Active	1 [4.0]		1 [2.0]	1 [3.0]	
Skin	(50)	(50)	(50)	(50)	
Hyperkeratosis	1 [2.0]	2 [2.0]	2 [2.5]	(00)	
Hyperplasia, Squamous	ر د. ۱	1 [2.0]	رد.ن]		
Inflammation, Suppurative, Chronic		1 [4.0]		1 [4.0]	
Inflammation, Chronic Active	1 [2.0]	2 [2.5]	1 [2.0]	۱ [۲.۵]	
Ulcer	1 [2.0]	1 [2.0]	1 [2.0]		
older		1 [2.0]	1 [2.0]		
SCULOSKELETAL SYSTEM					
Bone	(50)	(50)	(50)	(50)	
	(33)	(55)	(55)	1 [4.0]	
Fracture				1 14 ())	
Fracture Inflammation, Suppurative, Chronic				1 [4.0] 1 [4.0]	

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

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Species/Strain: RATS/F 344

Route: RESPIRATORY EXPOSURE WHOLE BODY

## P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

1-Bromopropane

**CAS Number:** 106-94-5

Date Report Requested: 07/09/2008

Time Report Requested: 10:20:06 First Dose M/F: 07/14/03 / 07/14/03

US SYSTEM  (50) (50) (50) (50) (50) (50) (50) (50)					
(50) (50) (50) (50) (50) (50) (50) (50)	FISCHER 344 RATS FEMALE	CONTROL	125 PPM	250 PPM	500 PPM
(50) (50) (50) (50) (50) (50) (50) (50)					
iectasis norrhage   1 [3.0]   1 [2.0]   1 [2.0]   1 [2.0]   1 [2.0]   1 [2.0]   1 [2.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0]   1 [3.0	NERVOUS SYSTEM				
1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   1   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0	Brain	(50)		(50)	(50)
ATORY SYSTEM  x (50) (50) (50) (50) (50) sign Body 8 6 3 4 summation, Chronic Active 18 [1.1] 25 [1.5] 30 [1.4] 32 [1.5] spiratory Epithelium, Hyperplasia 11 [1.3] 10 [1.6] 16 [1.9] 8 [1.5] sign Body 50 (50) (50) (50) (50) (50) sign Body 6 6 6 9 summation, Chronic Active 18 [1.1] 25 [1.5] 30 [1.4] 32 [1.5] sign Body 6 6 6 9 summation, Suppurative, Chronic 4 [4.0] sign Body 6 6 6 9 summation, Suppurative, Chronic 4 [4.0] sign Body 6 6 6 6 9 summation, Suppurative, Chronic 4 [4.0] sign Body 6 6 6 6 9 summation, Suppurative, Chronic 4 [4.0] sign Body 6 6 6 6 9 summation, Suppurative, Chronic 4 [4.0] sign Body 6 6 6 6 9 summation, Suppurative, Chronic 4 [4.0] sign Body 6 6 6 6 9 summation, Suppurative, Chronic 4 [4.0] sign Body 6 6 6 6 9 summation, Suppurative, Chronic 4 [4.0] sign Body 6 6 6 6 9 summation, Suppurative, Chronic 4 [4.0] sign Body 6 6 6 6 9 summation, Chronic Active 24 [1.3] 37 [1.5] 37 [1.5] 36 [1.3] sign Body 6 6 6 6 9 summation, Chronic Active 24 [1.3] 37 [1.5] 37 [1.5] 36 [1.3] sign Body 6 6 6 6 9 summation, Chronic Active 24 [1.3] 37 [1.5] 37 [1.5] 36 [1.3] sign Body 6 6 6 6 9 summation, Chronic Active 24 [1.3] 37 [1.5] 37 [1.5] 36 [1.3] sign Body 6 6 6 6 9 summation, Chronic Active 24 [1.3] 37 [1.5] 37 [1.5] 36 [1.3] sign Body 6 6 6 6 9 summation, Chronic Active 24 [1.3] 37 [1.5] 37 [1.5] 36 [1.3] sign Body 6 6 6 6 9 summation, Chronic Active 24 [1.3] 37 [1.5] 37 [1.5] 36 [1.3] sign Body 6 6 6 6 9 summation, Chronic Active 24 [1.3] 37 [1.5] 37 [1.5] 36 [1.3] sign Body 6 6 6 6 9 summation, Chronic Active 14 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1.0] 15 [1	Angiectasis		1 [3.0]		
ATORY SYSTEM  x	Hemorrhage	(2)	(4)		(5)
ATORY SYSTEM  x	Spinal Cord	(0)	(1)	(0)	(3)
X   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50)   (50	Cyst Epithelial Inclusion				1 [3.0]
Sign Body	RESPIRATORY SYSTEM				
Sign Body	Larynx	(50)	(50)	(50)	(50)
Immation, Chronic Active     18 [1.1]     25 [1.5]     30 [1.4]     32 [1.5]       aplasia, Squamous     3 [1.3]     2 [1.5]     6 [1.3]     21 [1.7]       rosis     1 [1.0]       piratory Epithelium, Hyperplasia     1 [1.0]       nonrhage     4 [2.3]     6 [2.3]     4 [2.5]     4 [2.0]       Immation, Suppurative, Chronic     4 [4.0]     4 [4.0]       Immation, Chronic Active     6 [2.2]     10 [2.0]     12 [1.7]     2 [2.0]       Poolar Epithelium, Hyperplasia     11 [1.3]     10 [1.6]     16 [1.9]     8 [1.5]       Poolar Epithelium, Hyperplasia     11 [1.3]     30 [1.8]     29 [1.8]     26 [1.5]       Poolar Epithelium, Hyperplasia     11 [1.3]     30 [1.8]     29 [1.8]     26 [1.5]       Palas Body     6     6     6     6     9       Immation, Suppurative, Chronic     1 [4.0]     3 [4.0]     7 [4.0]       Immation, Chronic Active     24 [1.3]     37 [1.5]     37 [1.5]     36 [1.3]       Helium, Accumulation, Hyaline     48 [1.1]     48 [1.8]     48 [1.7]     47 [1.9]       Poplet     7 [2.0]     23 [2.0]     28 [2.0]     30 [2.0]       Interpretation of Epithelium, Hyperplasia     1 [1.0]     1 [2.0]     1 [2.0]     1 [2.0]       Paperiatory Epitheli	Foreign Body	8			· · · · · · · · · · · · · · · · · · ·
aplasia, Squamous 3 [1.3] 2 [1.5] 6 [1.3] 21 [1.7] 10 10 10 10 10 10 10 10 10 10 10 10 10	Inflammation, Suppurative, Chronic				
piratory Epithelium, Hyperplasia    1 [1.0]	Inflammation, Chronic Active				
piratory Epithelium, Hyperplasia  (50) (50) (50) (50) (50) (50) (50) (50	Metaplasia, Squamous	3 [1.3]	2 [1.5]	6 [1.3]	
(50) (50) (50) (50) (50) (50) (50) (50)	Necrosis				1 [1.0]
norrhage 4 [2.3] 6 [2.3] 4 [2.5] 4 [2.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.0] 4 [4.		<i>(</i> =-)		<b>/</b>	4
Ammation, Suppurative, Chronic ammation, Chronic Active 6 [2.2] 10 [2.0] 12 [1.7] 2 [2.0] 20 and Epithelium, Hyperplasia 11 [1.3] 10 [1.6] 16 [1.9] 8 [1.5] 20 and Epithelium, Hyperplasia 11 [1.3] 30 [1.8] 29 [1.8] 26 [1.5] 26 [1.5] 26 [1.5] 27 [1.8] 26 [1.5] 27 [1.8] 26 [1.5] 27 [1.8] 27 [1.8] 28 [1.5] 29 [1.8] 29 [1.8] 26 [1.5] 27 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1.8] 29 [1	Lung				
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colar Epithelium, Hyperplasia       11 [1.3]       10 [1.6]       16 [1.9]       8 [1.5]         colus, Infiltration Cellular, Histiocyte       30 [1.4]       30 [1.8]       29 [1.8]       26 [1.5]         cign Body       6       6       6       6       9         ammation, Suppurative, Chronic       1 [4.0]       3 [4.0]       7 [4.0]         ammation, Chronic Active       24 [1.3]       37 [1.5]       37 [1.5]       36 [1.3]         helium, Accumulation, Hyaline       48 [1.1]       48 [1.8]       48 [1.7]       47 [1.9]         roplet       48 [1.1]       23 [2.0]       28 [2.0]       30 [2.0]         rods, Hyperplasia       6 [2.0]       23 [2.0]       28 [2.0]       30 [2.0]         rotory Epithelium, Hyperplasia       1 [1.0]       4 [1.8]       6 [1.8]       9 [2.2]         respiratory Epithelium, Hyperplasia       5 [1.2]       13 [1.3]       9 [1.7]       18 [1.5]         right piratory Epithelium, Metaplasia,       1 [2.0]       1 [2.0]       5 [1.0]       1 [2.0]         quamous       (0)       (0)       (1)       (0)		0.00.01	40 [0 0]	40 [4 7]	4 [4.0]
Polus, Infiltration Cellular, Histiocyte 30 [1.4] 30 [1.8] 29 [1.8] 26 [1.5] (50) (50) (50) (49) (50) (50) (50) (49) (50) (50) (49) (50) (50) (50) (49) (50) (50) (50) (49) (50) (50) (50) (49) (50) (50) (50) (49) (50) (50) (50) (49) (50) (50) (50) (49) (50) (50) (49) (50) (50) (50) (49) (50) (50) (49) (50) (50) (49) (50) (50) (49) (50) (50) (49) (50) (50) (49) (50) (50) (49) (50) (50) (49) (50) (50) (49) (50) (50) (49) (50) (50) (49) (50) (50) (49) (50) (50) (49) (50) (49) (50) (50) (49) (50) (49) (50) (50) (49) (50) (49) (50) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (50) (49) (50) (49) (50) (50) (49) (50) (49) (50) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (40) (40) (40) (40) (40) (40) (40) (4					
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helium, Accumulation, Hyaline  48 [1.1]  48 [1.8]  48 [1.7]  47 [1.9]  roplet  nds, Hyperplasia  6 [2.0]  23 [2.0]  28 [2.0]  30 [2.0]  30 [2.0]  actory Epithelium, Hyperplasia  1 [1.0]  actory Epithelium, Metaplasia,  3 [1.7]  4 [1.8]  6 [1.8]  9 [2.2]  espiratory  piratory Epithelium, Hyperplasia  5 [1.2]  13 [1.3]  9 [1.7]  18 [1.5]  piratory Epithelium, Metaplasia,  1 [2.0]  1 [2.0]  1 [2.0]  1 [2.0]		24 [1 3]			
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actory Epithelium, Metaplasia, 3 [1.7] 4 [1.8] 6 [1.8] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2] 9 [2.2]	Olfactory Epithelium, Hyperplasia	1 [1.0]	- []	1	[1
espiratory piratory Epithelium, Hyperplasia 5 [1.2] 13 [1.3] 9 [1.7] 18 [1.5] piratory Epithelium, Metaplasia, 1 [2.0] 1 [2.0] 5 [1.0] 1 [2.0] quamous a (0) (0) (1) (0)	Olfactory Epithelium, Metaplasia,		4 [1.8]	6 [1.8]	9 [2.2]
piratory Epithelium, Hyperplasia 5 [1.2] 13 [1.3] 9 [1.7] 18 [1.5] piratory Epithelium, Metaplasia, 1 [2.0] 1 [2.0] 5 [1.0] 1 [2.0] quamous (0) (0) (1) (0)	Respiratory				• •
piratory Epithelium, Metaplasia, 1 [2.0] 1 [2.0] 5 [1.0] 1 [2.0] 1 [2.0] 1 [2.0] 1 [2.0]	Respiratory Epithelium, Hyperplasia				
(0) (0) (1) (0)	Respiratory Epithelium, Metaplasia,	1 [2.0]	1 [2.0]	5 [1.0]	1 [2.0]
	Squamous				
	Pleura				
ea (50) (50) (50)	Trachea	(50)	(50)	(50)	(50)

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

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Test Type: CHRONIC

Species/Strain: RATS/F 344

Route: RESPIRATORY EXPOSURE WHOLE BODY

# P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

1-Bromopropane

**CAS Number:** 106-94-5

Date Report Requested: 07/09/2008

Time Report Requested: 10:20:06 First Dose M/F: 07/14/03 / 07/14/03

Lab: BNW

FISCHER 344 RATS FEMALE	CONTROL	125 PPM	250 PPM	500 PPM	
Inflammation, Chronic Active Epithelium, Hyperplasia Epithelium, Metaplasia, Squamous Epithelium, Necrosis		4 [1.0]	1 [1.0]	6 [1.7] 4 [1.8] 1 [2.0] 1 [2.0]	
SPECIAL SENSES SYSTEM					
Ear	(0)	(0)	(1)	(1)	
Inflammation, Suppurative, Chronic Eye	(50)	(50)	(50)	1 [4.0] (50)	
Cornea, Inflammation, Chronic Active Lens, Cataract	4 [3.0]	3 [3.0]	1 [1.0] 5 [3.0]	2 [3.0]	
Harderian Gland Inflammation, Suppurative, Chronic	(50)	(50)	(50)	(50) 1 [4.0]	
Inflammation, Chronic Active Zymbal's Gland	(1)	(1)	1 [2.0] (2)	1 [2.0] (0)	
Zymbara Gland	(1)	(1)	(2)	(0)	
JRINARY SYSTEM					
Kidney Cyst	(49) 1 [3.0]	(50) 1 [4.0]	(50)	(50)	
Nephropathy, Chronic	35 [1.7]	35 [2.0]	31 [1.9]	29 [1.9]	
Cortex, Infarct Cortex, Renal Tubule, Accumulation,			1 [2.0] 1 [4.0]		
Hyaline Droplet Pelvis, Inflammation, Suppurative			1 [1.0]		
Pelvis, Inflammation, Chronic Active			1 [1.0]		

\*\*\* END OF REPORT \*\*\*

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

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)