TDMS No. 88105 - 03	P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]	Date Report Reqsted: 09/28/2006
Test Type: CHRONIC	ISOEUGENOL	Time Report Reqsted: 17:46:24
Route: GAVAGE	CAS Number: 97-54-1	First Dose M/F: 04/22/02 / 04/23/02
Species/Strain: RATS/F 344	Pathologist: Blackshear, P GRUMBEIN, S.	Lab: BNW
	F1_R2	
C Number:	C88105	
Lock Date:	01/21/2005	
Cage Range:	ALL	

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)

ALL

ALL

ALL

Include ALL

Date Range:

**Reasons For Removal:** 

Removal Date Range:

**Treatment Groups:** 

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

Date Report Regsted: 09/28/2006

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

**ISOEUGENOL** CAS Number: 97-54-1

Pathologist: Blackshear, P. - GRUMBEIN, S.

Time Report Reqsted: 17:46:24 First Dose M/F: 04/22/02 / 04/23/02 Lab: BNW

FISCHER 344 RATS MALE	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG	
Disposition Summary					
Animals Initially in Study	50	50	50	50	
Early Deaths					
Dosing Accident		1		2	
Moribund Sacrifice	14	9	14	11	
Natural Death	1	6	3	7	
Survivors					
Terminal Sacrifice	35	34	33	30	
Animals Examined Microscopically	50	50	50	50	
ALIMENTARY SYSTEM					
Esophagus	(50)	(50)	(50)	(50)	
Perforation				2 [3.5]	
Intestine Large, Cecum	(49)	(46)	(50)	(45)	
Inflammation, Acute		1 [2.0]			
Intestine Large, Colon	(50)	(46)	(50)	(47)	
Parasite Metazoan	1	1	2		
Intestine Large, Rectum	(50)	(46)	(50)	(48)	
Parasite Metazoan	4	1			
Intestine Small, Duodenum	(50)	(46)	(50)	(45)	
Inflammation, Acute	<i>i</i> – – )	( )		1 [1.0]	
Intestine Small, Ileum	(50)	(46)	(50)	(45)	
Intestine Small, Jejunum	(50)	(46)	(50)	(45)	
Inflammation, Chronic	(50)	(50)	1 [4.0]	(40)	
Liver	(50)	(50)	(50)	(48)	
Angiectasis Basophilic Focus	1 [2.0]	34	26	2 [2.5] 18	
Clear Cell Focus	43 27	34 20	26 19	18	
Degeneration, Cystic	4 [2.0]	1 [2.0]	2 [2.0]	4 [1.3]	
Eosinophilic Focus	4 [2.0] 8	2	۲ [۲.0]	4 [1.3] 2	
Fatty Change	° 2 [3.0]	1 [2.0]	2 [3.0]	2 [3.0]	
Hematopoietic Cell Proliferation	2 [0.0]	1 [2.0]	2 [J.0]	2 [0.0]	
Hepatodiaphragmatic Nodule	5	3	3	3	
Infarct	Ŭ	0	v	1 [2.0]	
Malformation		1		. [=:0]	
Mixed Cell Focus	6	4	6	2	

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

Date Report Regsted: 09/28/2006

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

# ISOEUGENOL

CAS Number: 97-54-1

Pathologist: Blackshear, P. - GRUMBEIN, S.

Time Report Reqsted: 17:46:24 First Dose M/F: 04/22/02 / 04/23/02 Lab: BNW

FISCHER 344 RATS MALE	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG	
Necrosis Bile Duct, Hyperplasia	1 [2.0] 39 [1.5]	39 [1.5]	32 [1.4]	24 [1.2]	
Centrilobular, Necrosis Hepatocyte, Vacuolization Cytoplasmic	2 [2.0]	1 [3.0]		1 [2.0] 1 [1.0]	
Mesentery Fat, Hemorrhage	(12) 1 [3.0]	(18)	(7)	(11)	
Fat, Necrosis Oral Mucosa	10 [2.1] (1)	17 [2.1] (0)	7 [2.0] (1)	9 [2.0] (3)	
Pancreas Basophilic Focus Metaplasia, Hepatocyte	(50) 1 [2.0] 1 [1.0]	(50) 1 [4.0]	(50)	(49)	
Acinus, Atrophy Acinus, Hyperplasia Salivary Glands Hyperplasia	22 [1.5] 21 [2.5] (50) 1 [2.0]	21 [1.3] 12 [2.6] (50)	17 [1.4] 13 [2.5] (49)	10 [1.1] 19 [2.6] (50)	
Stomach, Forestomach Hyperplasia, Squamous Inflammation	(50) 2 [2.5] 1 [2.0]	(49) 1 [1.0]	(50) 3 [2.3]	(49) 5 [2.2]	
Ulcer Stomach, Glandular Atrophy Inflammation, Chronic Active	3 [2.3] (50) 2 [2.0]	1 [2.0] (46) 3 [2.3]	4 [2.5] (50) 2 [1.5] 1 [4.0]	2 [2.5] (45) 3 [1.7]	
Mineralization Necrosis		1 [2.0]	1 [2.0]	1 [1.0]	
CARDIOVASCULAR SYSTEM					
Heart Cardiomyopathy	(50) 48 [1.4]	(50) 44 [1.6]	(50) 47 [1.6]	(50) 46 [1.7]	
Thrombosis Pericardium, Inflammation, Acute	1 [2.0]	2 [2.5]		1 [3.0]	
ENDOCRINE SYSTEM					
Adrenal Cortex Degeneration, Cystic	(50) 2 [2.0]	(50)	(50)	(49)	
Hyperplasia Hypertrophy Vacuolization Cytoplasmic	31 [1.9] 5 [1.6]	22 [2.0] 1 [2.0] 2 [2.0]	21 [2.0] 4 [1.8]	31 [2.0] 1 [2.0]	

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

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

Date Report Regsted: 09/28/2006

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

ISOEUGENOL

CAS Number: 97-54-1

Pathologist: Blackshear, P. - GRUMBEIN, S.

Time Report Reqsted: 17:46:24 First Dose M/F: 04/22/02 / 04/23/02 Lab: BNW

FISCHER 344 RATS MALE	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG	
Adrenal Medulla Hyperplasia Islets, Pancreatic Hyperplasia Pituitary Gland Hemorrhage Pars Distalis, Angiectasis Pars Distalis, Hyperplasia Thyroid Gland C-cell, Hyperplasia Follicular Cell, Hyperplasia	(50) 24 [2.0] (50) 1 [2.0] (50) 6 [2.8] 18 [2.4] (50) 9 [2.2] 3 [1.3]	(50) 18 [2.5] (49) (48) 20 [2.3] (49) 5 [2.0] 3 [2.0]	(50) 16 [2.4] (50) 1 [2.0] (47) 3 [2.7] 15 [2.3] (50) 7 [2.3]	(49) 15 [2.2] (49) (47) 1 [2.0] 2 [3.0] 16 [2.4] (47) 9 [2.2] 5 [1.4]	
GENERAL BODY SYSTEM					
None					
GENITAL SYSTEM					
Epididymis Granuloma Sperm	(50)	(50) 1 [1.0]	(50)	(50)	
Preputial Gland	(50)	(49) 1	(50)	(50)	
Cyst Hyperplasia Inflammation, Chronic Active	1 [2.0]	2 [3.0] 1 [4.0]	1 [2.0]	4 [1.8]	
Prostate Hyperplasia	(50) 10 [2.0]	(49) 9 [2.2]	(50) 15 [2.8]	(50) 11 [2.2]	
Inflammation, Chronic Active	3 [1.7]	1 [2.0]		3 [2.7]	
Seminal Vesicle Hyperplasia	(50)	(49)	(50)	(49) 1 [3.0]	
Testes Atrophy	(50) 1 [3.0]	(50) 4 [3.0]	(50) 3 [2.7]	(50)	
Interstitial Cell, Hyperplasia	7 [1.9]	2 [2.5]	4 [1.5]	1 [1.0]	
HEMATOPOIETIC SYSTEM					
Bone Marrow Hyperplasia, Reticulum Cell	(50)	(49)	(50) 1 [3.0]	(50)	
Lymph Node	(3)	(4)	(4)	(4)	

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Date Report Regsted: 09/28/2006

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

ISOEUGENOL

CAS Number: 97-54-1

Pathologist: Blackshear, P. - GRUMBEIN, S.

Time Report Reqsted: 17:46:24 First Dose M/F: 04/22/02 / 04/23/02 Lab: BNW

FISCHER 344 RATS MALE	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG	
Deep Cervical, Hyperplasia, Lymphoid Mediastinal, Ectasia Pancreatic, Inflammation, Chronic Active Lymph Node, Mesenteric	1 [2.0] (50)	(48)	1 [1.0] 1 [4.0] (50)	(47)	
Spleen Fibrosis	(50) 2 [2.0]	(46)	(50) 2 [2.5]	(47)	
Hematopoietic Cell Proliferation Hemorrhage Hyperplasia, Lymphoid	3 [2.7] 1 [4.0]	3 [3.3] 1 [3.0]	1 [3.0]	2 [3.0]	
Inflammation, Acute Necrosis Thymus	2 [2.0] (47)	1 [2.0] 1 [3.0] (43)	1 [4.0] (49)	(48)	
INTEGUMENTARY SYSTEM					
Mammary Gland Skin Cyst Epithelial Inclusion	(50) (50)	(49) (50) 2	(50) (50)	(50) (50) 2	
MUSCULOSKELETAL SYSTEM					
Bone Skeletal Muscle	(50) (0)	(50) (2)	(50) (0)	(50) (1)	
NERVOUS SYSTEM					
Brain Hydrocephalus Thrombosis	(50) 2 [2.5]	(50) 1 [2.0]	(50)	(50)	
Meninges, Hemorrhage Peripheral Nerve Spinal Cord Hemorrhage	(0) (0)	(1) (1)	1 [3.0] (1) (1) 1 [3.0]	(0) (0)	
RESPIRATORY SYSTEM					
Lung Foreign Body	(50)	(50)	(50) 3	(50) 1	

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

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

Date Report Regsted: 09/28/2006

# Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

ISOEUGENOL CAS Number: 97-54-1

Pathologist: Blackshear, P. - GRUMBEIN, S.

Time Report Reqsted: 17:46:24 First Dose M/F: 04/22/02 / 04/23/02 Lab: BNW

FISCHER 344 RATS MALE	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG	
Inflammation, Chronic Active		1 [3.0]	1 [2.0]		
Metaplasia, Squamous	1 [2.0]	2 [3.0]			
Thrombosis	07 [4 6]	1 [3.0]	16 [1 7]	25 [4 7]	
Alveolar Epithelium, Hyperplasia Alveolus, Infiltration Cellular, Histiocyte	27 [1.6]	20 [1.6]	16 [1.7]	25 [1.7] 1 [2.0]	
Bronchiole, Hyperplasia		1 [2.0]	1 [1.0]	1 [1.0]	
Perivascular, Inflammation, Chronic		1 [4.0]	1[1.0]	1[1:0]	
Active		.[]			
Nose	(50)	(48)	(49)	(49)	
Foreign Body	3		3	4	
Inflammation, Suppurative	12 [1.3]	11 [1.3]	13 [1.4]	12 [1.5]	
Inflammation, Chronic	2 [1.0]	1 [2.0]	2 [1.5]	2 [2.0]	
Thrombosis			1 [3.0]	0.10.01	
Glands, Dilatation		2 [1.5]	1 [2.0]	2 [2.0]	
Nasolacrimal Duct, Cyst Nasolacrimal Duct, Inflammation			1	1 [2 0]	
Olfactory Epithelium, Accumulation,	50 [1.4]	37 [1.2]	42 [1.2]	1 [2.0] 42 [1.2]	
Hyaline Droplet	50[1.4]	57 [1.2]	42 [1.2]	42 [1.2]	
Olfactory Epithelium, Atrophy	1 [1.0]	5 [1.2]	9 [1.0]	13 [1.0]	
Olfactory Epithelium, Degeneration	1 [1.0]	0[]	2 [1.0]	6 [1.2]	
Olfactory Epithelium, Hyperplasia				1 [2.0]	
Olfactory Epithelium, Hyperplasia, Basal			1 [1.0]		
Cell					
Olfactory Epithelium, Metaplasia,	4 [1.0]	6 [1.3]	10 [1.7]	15 [1.9]	
Respiratory	4 [4 0]	4 [0, 0]			
Olfactory Epithelium, Metaplasia,	1 [1.0]	1 [2.0]			
Squamous Respiratory Epithelium, Accumulation,	3 [2.0]	5 [1.6]	1 [1.0]	2 [1.0]	
Hyaline Droplet	3 [2.0]	5[1.0]	1[1.0]	2 [1.0]	
Respiratory Epithelium, Hyperplasia	12 [1.6]	3 [1.7]	14 [1.6]	8 [1.8]	
Respiratory Epithelium, Metaplasia,	1 [1.0]	4 [2.0]	3 [1.3]	5 [2.0]	
Squamous	. [ ]	. []	- []	- []	
Pleura	(0)	(0)	(0)	(2)	
Inflammation, Acute				2 [4.0]	
Trachea	(50)	(49)	(50)	(48)	
Epithelium, Necrosis		1 [3.0]			

SPECIAL SENSES SYSTEM

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

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

Date Report Reqsted: 09/28/2006

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

# ISOEUGENOL CAS Number: 97-54-1

Pathologist: Blackshear, P. - GRUMBEIN, S.

Time Report Reqsted: 17:46:24 First Dose M/F: 04/22/02 / 04/23/02 Lab: BNW

FISCHER 344 RATS MALE	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG	
Eye	(50)	(46)	(50)	(45)	
Cataract		1 [4.0]		2 [3.0]	
Retina, Atrophy	(50)	1 [4.0]	1 [3.0]	2 [3.0]	
Harderian Gland	(50)	(47)	(50)	(45)	
Hyperplasia Inflammation, Chronic Active	1 [2.0]	5 [2.4]	5 [1.6]	1 [2.0]	
Zymbal's Gland	1 [3.0] (2)	(1)	(0)	(0)	
IRINARY SYSTEM					
Kidney	(50)	(48)	(50)	(49)	
Cyst	()	( - )	()	1 [3.0]	
Cycl					
Degeneration, Mucoid, Focal				1 [3.0]	
Degeneration, Mucoid, Focal Hyperplasia, Oncocytic				1 [3.0] 1 [1.0]	
Degeneration, Mucoid, Focal Hyperplasia, Oncocytic Inflammation, Suppurative	40.44.01			1 [3.0] 1 [1.0] 1 [2.0]	
Degeneration, Mucoid, Focal Hyperplasia, Oncocytic Inflammation, Suppurative Nephropathy	49 [1.6]	46 [1.4]	47 [1.6]	1 [3.0] 1 [1.0] 1 [2.0] 47 [2.1]	
Degeneration, Mucoid, Focal Hyperplasia, Oncocytic Inflammation, Suppurative	49 [1.6]	46 [1.4] 1 [2.0]	47 [1.6]	1 [3.0] 1 [1.0] 1 [2.0]	

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

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

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

Date Report Regsted: 09/28/2006

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

ISOEUGENOL CAS Number: 97-54-1

Pathologist: Blackshear, P. - GRUMBEIN, S.

Time Report Reqsted: 17:46:24 First Dose M/F: 04/22/02 / 04/23/02 Lab: BNW

FISCHER 344 RATS FEMALE	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG	
Disposition Summary					
Animals Initially in Study	50	50	50	50	
Early Deaths					
Dosing Accident Moribund Sacrifice	15	1 8	9	9	
Natural Death	2	6	5 7	10	
Survivors					
Moribund Sacrifice	00		0.4	1	
Terminal Sacrifice Animals Examined Microscopically	33 50	35 50	34 50	30 50	
	50	50	50	30	
LIMENTARY SYSTEM					
Esophagus	(50)	(50)	(50)	(50)	
Perforation	(50)	1 [4.0]	(47)	(40)	
Intestine Large, Colon Parasite Metazoan	(50) 2	(48) 1	(47) 1	(48)	
Intestine Large, Rectum	(49)	(48)	(47)	(48)	
Parasite Metazoan	1	1	1	2	
Intestine Small, Ileum	(49)	(47)	(45)	(45)	
Parasite Metazoan Liver	(50)	(50)	1		
Angiectasis	(50)	(50)	(50) 2 [2.0]	(50) 3 [2.3]	
Basophilic Focus	50	49	48	46	
Clear Cell Focus	12	9	9	10	
Degeneration, Cystic	1 [2.0]				
Eosinophilic Focus	2	2	5	5	
Fatty Change	2 [2.5]		1 [2.0]		
Hepatodiaphragmatic Nodule	8	11	7	4	
Mixed Cell Focus Necrosis	5	7 1 [4.0]	3	3	
Bile Duct, Hyperplasia	3 [1.7]	4 [2.0]	4 [1.3]	4 [1.5]	
Hepatocyte, Mitotic Alteration	5[1.7]	4 [2.0]	4 [1.3]	4 [1.5] 1 [3.0]	
Mesentery	(11)	(11)	(11)	(14)	
Fat, Hemorrhage	1 [2.0]	()	()	( ,	
Fat, Necrosis	11 [2.0]	10 [2.0]	11 [2.1]	13 [2.0]	
Oral Mucosa	(0)	(1)	(0)	(1)	

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

Date Report Regsted: 09/28/2006

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

# ISOEUGENOL CAS Number: 97-54-1

Pathologist: Blackshear, P. - GRUMBEIN, S.

Time Report Reqsted: 17:46:24 First Dose M/F: 04/22/02 / 04/23/02 Lab: BNW

FISCHER 344 RATS FEMALE	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG	
Pancreas	(50)	(49)	(48)	(50)	
Basophilic Focus Acinus, Atrophy	1 [2.0] 9 [1.1]	4 [1.3]	2 [1.0]	4 [1.3]	
Acinus, Hyperplasia	5 [2.0]	2 [2.0]	2 []	5 [2.6]	
Salivary Glands	(49)	(50)	(50)	(50)	
Stomach, Forestomach	(50)	(50)	(49)	(50)	
Hyperplasia, Squamous Inflammation	2 [1.0] 1 [2.0]		1 [2.0]	2 [2.0] 1 [2.0]	
Ulcer	1 [3.0]		2 [2.0]	2 [1.5]	
Stomach, Glandular	(50)	(47)	(46)	(47)	
Atrophy	1 [1.0]	3 [1.7]	0 (4 0)	3 [2.0]	
Mineralization Tongue	3 [1.0] (0)	1 [1.0] (0)	2 [1.0] (1)	1 [2.0] (0)	
Tooth	(0)	(1)	(1) (0)	(0)	
CARDIOVASCULAR SYSTEM					
Heart	(50)	(50)	(50)	(50)	
Cardiomyopathy	41 [1.1]	42 [1.1]	38 [1.1]	39 [1.2]	
Pericardium, Inflammation, Granulomatous				1 [4.0]	
Pericardium, Inflammation, Acute		1 [3.0]		1 [2.0]	
· · · · · ·					
ENDOCRINE SYSTEM					
Adrenal Cortex	(50)	(50)	(47)	(49)	
Degeneration, Cystic		2 [2.5]	4 [2.3]	3 [2.3]	
Hyperplasia Hypertrophy	25 [2.0] 4 [1.8]	17 [2.1] 3 [2.0]	18 [2.0] 2 [2.0]	18 [2.0] 2 [2.0]	
Necrosis	1 [3.0]	2 [2.0]	1 [3.0]	2 [2.0]	
Vacuolization Cytoplasmic				1 [4.0]	
Adrenal Medulla	(50)	(50)	(46)	(49)	
Hyperplasia Islets, Pancreatic	5 [2.4] (50)	6 [2.0] (49)	5 [1.6] (47)	5 [1.8] (49)	
Parathyroid Gland	(47)	(44)	(47)	(43)	
Hyperplasia	1 [2.0]				
Pituitary Gland	(50)	(48)	(49)	(49)	
Cyst Pars Distalis, Angiectasis	1 [2.0] 3 [2.0]	2 [2.5]	2 [2.0]	3 [2.0]	
	0 [2.0]	2 [2.0]	2 [۲.0]	0 [2.0]	

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

TDMS No. 8	8105 - 03
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# P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

Date Report Regsted: 09/28/2006

#### Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

# ISOEUGENOL

CAS Number: 97-54-1

Pathologist: Blackshear, P. - GRUMBEIN, S.

Time Report Regsted: 17:46:24 First Dose M/F: 04/22/02 / 04/23/02 Lab: BNW

FISCHER 344 RATS FEMALE	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG	
Pars Distalis, Hyperplasia Thyroid Gland C-cell, Hyperplasia Follicular Cell, Hyperplasia	17 [2.6] (50) 9 [2.6] 2 [1.5]	21 [2.4] (46) 4 [2.0] 2 [3.0]	21 [2.6] (46) 7 [2.1]	20 [2.5] (48) 6 [2.2]	
GENERAL BODY SYSTEM					
None					
GENITAL SYSTEM					
Clitoral Gland Hyperplasia Inflammation, Chronic Active Ovary Cyst Uterus Inflammation, Acute Necrosis Endometrium, Hyperplasia, Cystic Vagina Inflammation, Suppurative	(48) 7 [1.7] (50) 1 [2.0] (50) 1 [3.0] 2 [2.5] (1)	(50) 5 [1.8] 1 [1.0] (50) 6 [3.0] (50)	(49) 5 [2.0] (49) 1 [2.0] (49) 1 [2.0] 1 [3.0] (1) 1 [2.0]	(50) 4 [1.8] 1 [3.0] (50) 4 [3.0] (50) (0)	
HEMATOPOIETIC SYSTEM					
Bone Marrow Hyperplasia, Reticulum Cell Lymph Node Deep Cervical, Ectasia Deep Cervical, Hemorrhage Lymph Node, Mesenteric Spleen	(50) 1 [4.0] (0) (50) (50)	(49) 1 [1.0] (3) 1 [3.0] (49) (49)	(49) 1 [2.0] (3) (48) (49)	(49) (3) 1 [3.0] 1 [2.0] (49) (49)	
Hematopoietic Cell Proliferation Inflammation, Granulomatous Necrosis Thymus Inflammation, Acute	(47)	1 [3.0] (47)	2 [3.0] 1 [3.0] (46)	3 [3.0] 1 [4.0] 1 [3.0] (49) 1 [3.0]	

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

Date Report Regsted: 09/28/2006

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

**ISOEUGENOL** 

CAS Number: 97-54-1

Pathologist: Blackshear, P. - GRUMBEIN, S.

Time Report Reqsted: 17:46:24 First Dose M/F: 04/22/02 / 04/23/02 Lab: BNW

FISCHER 344 RATS FEMALE	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG	
INTEGUMENTARY SYSTEM					
Mammary Gland Galactocele	(49)	(50)	(50)	(49) 1	
Hyperplasia Skin	1 [3.0] (50)	(50)	(50)	(50)	
MUSCULOSKELETAL SYSTEM					
Bone Hyperostosis	(50)	(50)	(50) 1 [3.0]	(50)	
NERVOUS SYSTEM					
Brain	(50)	(50)	(50)	(50)	
Hemorrhage Hydrocephalus	1 [2.0]		1 [3.0]		
RESPIRATORY SYSTEM					
Lung	(50)	(50)	(50)	(50)	
Cyst Inflammation, Acute Inflammation, Chronic Active Alveolar Epithelium, Hyperplasia	1 [2.0] 2 [1.0] 17 [1.2]	4 [2.0] 11 [1.3]	3 [1.3] 16 [1.4]	1 [4.0] 3 [1.7] 2 [1.5] 14 [1.0]	
Alveolus, Infiltration Cellular, Histiocyte Bronchiole, Hyperplasia Nose Foreign Body	1 [1.0] (50) 1	(49)	1 [2.0] (49)	1 [3.0] 1 [1.0] (49)	
Inflammation, Suppurative Inflammation, Chronic	3 [1.3] 5 [1.6]	5 [1.6] 4 [1.5]	2 [2.5]	3 [1.3] 2 [2.0]	
Thrombosis	1 [2.0]	1 [2.0]	1 [3.0]		
Glands, Dilatation Glands, Hyperplasia Olfactory Epithelium, Accumulation,	2 [1.5] 48 [1.2]	1 [2.0] 36 [1.5]	1 [1.0] 37 [1.2]	2 [2.0] 1 [2.0] 33 [1.2]	
Hyaline Droplet Olfactory Epithelium, Atrophy Olfactory Epithelium, Degeneration			1 [1.0]	4 [1.0]	

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

Date Report Regsted: 09/28/2006

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

**ISOEUGENOL** CAS Number: 97-54-1

Pathologist: Blackshear, P. - GRUMBEIN, S.

Time Report Regsted: 17:46:24 First Dose M/F: 04/22/02 / 04/23/02 Lab: BNW

FISCHER 344 RATS FEMALE	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG	
Olfactory Epithelium, Metaplasia,	5 [1.6]	5 [1.8]	9 [1.8]	12 [1.3]	
Respiratory Olfactory Epithelium, Metaplasia, Squamous	3 [1.7]			1 [2.0]	
Respiratory Epithelium, Accumulation, Hyaline Droplet	4 [1.3]	3 [1.7]	2 [1.5]		
Respiratory Epithelium, Hyperplasia Respiratory Epithelium, Metaplasia, Squamous	6 [1.7] 2 [1.5]	9 [1.7] 2 [2.0]	4 [2.0]	6 [2.0] 2 [1.5]	
Respiratory Epithelium, Necrosis Pleura Inflammation, Suppurative	(0)	1 [1.0] (0)	(0)	(1) 1 [3.0]	
Trachea Inflammation, Suppurative	(50)	(49)	(48)	(49) 1 [2.0]	
SPECIAL SENSES SYSTEM					
Eye Cataract	(49)	(46)	(47) 3 [3.7]	(48)	
Cornea, Inflammation, Acute Cornea, Mineralization	1 [2.0]	1 [3.0]	0[011]		
Retina, Atrophy Zymbal's Gland	1 [2.0] (0)	(1)	3 [4.0] (0)	1 [2.0] (1)	
URINARY SYSTEM					
Kidney Infarct	(50)	(49) 1 [2.0]	(47)	(50) 1 [4.0] 2 [2 5]	
Inflammation, Suppurative Nephropathy Renal Tubule, Necrosis	41 [1.1] 1 [4.0]	39 [1.0]	40 [1.2]	2 [3.5] 40 [1.2]	
Transitional Epithelium, Hyperplasia Urinary Bladder Inflammation, Chronic Active	1 [4.0] 1 [4.0] (50)	(50)	1 [3.0] (48)	2 [3.5] (49) 1 [2.0]	

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