TDMS No. 05174 - 05	P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]	Date Report Reqsted: 04/10/2006
Test Type: CHRONIC	CRESOLS	Time Report Reqsted: 08:44:01
Route: DOSED FEED	CAS Number: 1319-77-3	First Dose M/F: 08/05/02 / NA
Species/Strain: RATS/F 344	Pathologist: BOYCE, J JOKINEN, M RYAN, M.	Lab: BAT
	F1_R2Males	
C Number:	C62260B	
Lock Date:	02/09/2005	
Cage Range:	ALL	

ALL

ALL

ALL

Include ALL

Date Range:

Reasons For Removal:

Removal Date Range:

Treatment Groups:

Route: DOSED FEED

Species/Strain: RATS/F 344

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

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CRESOLS

CAS Number: 1319-77-3

Pathologist: BOYCE, J. - JOKINEN, M. - RYAN, M.

Time Report Reqsted: 08:44:01 First Dose M/F: 08/05/02 / NA Lab: BAT

FISCHER 344 RATS MALE	0 PPM	1500 PPM	5000 PPM	15000 PPM	
Disposition Summary					
Animals Initially in Study	50	50	50	50	
Early Deaths					
Moribund Sacrifice	12	10	9	14	
Natural Death	5	6	8	5	
Survivors Terminal Sacrifice	33	34	33	31	
Animals Examined Microscopically	50	34 50	50	50	
	50	50	50	30	
ALIMENTARY SYSTEM					
Esophagus	(50)	(50)	(50)	(49)	
Intestine Large, Cecum	(50)	(50)	(50)	(49)	
Parasite Metazoan		1 [2.0]			
Intestine Large, Colon	(50)	(50)	(50)	(50)	
Parasite Metazoan	4 [1.3]	3 [1.7]	3 [2.0]	2 [1.0]	
Intestine Large, Rectum	(50)	(50)	(50)	(50)	
Edema Parasite Metazoan	1 [3.0]		4 [4 0]	0.10.01	
Intestine Small, Duodenum	4 [1.3] (49)	5 [1.4] (50)	4 [1.8] (50)	2 [2.0] (49)	
Intestine Small, Ileum	(50)	(50)	(50)	(49)	
Intestine Small, Jejunum	(50)	(50)	(50)	(49)	
Liver	(50)	(50)	(50)	(50)	
Angiectasis	5 [1.4]	5 [1.2]	7 [1.3]	14 [1.1]	
Basophilic Focus	24	18	17	7	
Clear Cell Focus	25	20	25	27	
Degeneration, Cystic	7 [1.1]	9 [1.1]	12 [1.3]	9 [1.1]	
Eosinophilic Focus	14	14	13	23	
Fatty Change	17 [1.8]	20 [1.4]	9 [1.7]	8 [1.4]	
Fibrosis	29 [1.1]	30 [1.1]	29 [1.1]	34 [1.0]	
Hematopoietic Cell Proliferation	2 [2.0]	1 [2.0]			
Hepatodiaphragmatic Nodule	2	5	3	3	
Inflammation	35 [1.0]	29 [1.1]	37 [1.1]	38 [1.1]	
Mixed Cell Focus	5	3	3	2	
Necrosis	1 [1.0]	3 [2.3]	1 [2.0]	2 [2.0]	
Regeneration		2 [3.0]	4		
Tension Lipidosis			1		

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

Route: DOSED FEED

Species/Strain: RATS/F 344

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

Date Report Reqsted: 04/10/2006

CRESOLS

CAS Number: 1319-77-3

Pathologist: BOYCE, J. - JOKINEN, M. - RYAN, M.

Time Report Reqsted: 08:44:01 First Dose M/F: 08/05/02 / NA Lab: BAT

Bite Duct, Cyst 1 [1.0] 2 [1.0] 4 [1.0] 4 [2.0] 4 [2.0] 4 [2.0] 4 [2.1]	FISCHER 344 RATS MALE	0 PPM	1500 PPM	5000 PPM	15000 PPM	
Bile Duct, Hyperplasia 47 [1,9] 46 [2,0] 45 [1,7] Centrilobular, Degeneration 3 [2,3] 5 [2,4] 3 [1,3] 4 [2,8] Centrilobular, Necrosis 2 [2,5] 1 [2,0] 1 [3,0] Mesentery (5) (7) (9) (8) Accessory Spleen 1 1 1 Fat, Necrosis 4 [2,0] 6 [2,0] 8 [1,9] 7 [1,9] Oral Muccas (0) (1) (0) (2) Inflammation 1 [1,0] 1 [1,0] 1 [1,0] Accessory Spleen 1 [2,0] 3 [1,3] 1 2 [1,7] Acinus, Atrophy 18 [1,5] 18 [1,7] 16 [1,3] 1 2 [1,7] Acinus, Hyperplasia 2 [2,0] 3 [1,3] 1 2 [1,7] Actery, Inflammation 1 [2,0] 3 [1,3] 1 [1,0] Submach/Bular Clands (49) (50) (50) (50) Submach/Bular Clands (49) (50) (50) (50) Ucer 2 [3,0] 2 [3,0] 1 [3,0] 1	Bile Duct, Cyst	1 [1.0]	2 [1.0]	1 [1.0]		
Centrilobular, Necrosis 2 [2,5] 1 [2.0] 1 [3.0] Mesentery (5) (7) (9) (8) Accessory Spleen 1 1 1 1 Fat, Necrosis (2,0) 6 [2.0] 8 [1.9] 7 [1.9] Oral Mucosa (0) (1) (0) (2) Inflammation 1 [1.0] 1 [1.0] 1 [1.0] Pancreas (49) (50) (50) (49) Acinus, Hyperplasia 2 [2.0] 3 [1.3] 1 [2.1] Acinus, Hyperplasia 2 [2.0] 1 [1.0] 3 [1.3] Duct, Cyst 10 [1.3] 10 [1.7] 8 [1.6] 7 [1.6] Salivary Glands (49) (50) (50) (49) Submandibular Cland, Hyperplasia 1 [2.0] 1 [3.0] 2 [2.5] Ucloar 2 [3.0] 2 [3.0] 2 [3.0] 1 [3.0] Submandibular, Netrophy 1 [1.0] 1 [1.0] 1 [2.0] Ucloar 2 [3.0] 1 [3.0] 1 [3.0] U	Bile Duct, Hyperplasia				45 [1.7]	
Hepatocyte, Hypertrophy 1 [3.0] 1 Mesentery (5) (7) (8) Accessory Splen 1 1 1 Fat, Necrosis 4 [2.0] 6 [2.0] 8 [1.9] 7 [1.9] Oral Mucosa (0) 11 10 11 (10) 11 (10) Inflammation 11 10 11 (10) 11 (10) 11 (10) Pancreas (49) (50) (50) (49) 3 [2.0] 3 [1.3] Acinus, Hyperplasia 2 [2.0] 12 [0] 3 [2.0] 3 [1.3] 12 [1.7] Acinus, Hyperplasia 12 [2.0] 12 [0] 3 [2.0] 3 [1.3] 12 [1.7] Acinus, Hyperplasia 12 [2.0] 13 [2.0] 3 [1.3] 12 [1.7] Acinus, Hyperplasia 12 [2.0] 13 [2.0] 3 [1.3] 14 [1.5] Stomach, Forestomach (49) (50) (50) (50) Stomach, Glanduar 14 [2.0] 13 [2.0] 11 [2.0] 11 [2.0] Ucer 2 [3.0] 2 [3.0] 1 [3.0] 11 [2.0] Ucer 1 [3.0] 1 [2.0] 11 [1.0]		3 [2.3]	5 [2.4]			
Messentery (5) (7) (9) (6) Accessory Spleen 1 1 1 1 Fat. Necrosis 4 [2.0] 6 [2.0] 8 [1.9] 7 [1.9] Oral Mucosa (0) 11 0 1 (10) 1 (10) Inflammation 1 [1.0] 1 [1.0] 1 [1.0] 1 (10) Pancreas (49) (50) (50) (49) Acinus, Hypepplasia 2 [2.0] 3 [2.0] 3 [1.3] Artery, Inflammation 1 [2.0] 3 [2.0] 3 [1.3] Duct, Cyst 10 [1.3] 10 [1.7] 8 [1.6] 7 [1.6] Salivary Glands (49) (50) (50) (49) Stomach, Forestomach (49) (50) (50) (49) Stomach, Glandular (49) (50) (50) (50) Inflammation 3 [2.7] 1 [3.0] 1 [2.0] 1 [1.0] Ulcer 2 [3.0] 2 [3.0] 1 [3.0] 1 [2.0] 1 [2.0] Ulcer 0				1 [2.0]	1 [3.0]	
Accessory Spleen i i i i Fat, Necrosis 4 [2.0] 6 [2.0] 8 [1.9] 7 [1.9] Oral Mucosa (0) 1 [1.0] (0) 1 [1.0] Inflammation (49) (50) (49) Actnus, Atrophy 18 [1.5] 18 [1.7] 16 [1.3] 12 [1.7] Actnus, Hyperplasia 2 [2.0] 3 [2.0] 3 [1.3] 12 [1.7] Active, Inflammation 1 [2.0] 3 [2.0] 3 [1.3] 10 [1.3] Duct, Cyst 10 [1.3] 10 [1.7] 8 [1.6] 7 [1.6] Submandholuar Gland, Hyperplasia 1 [2.0] (50) (50) (60) Submandholuar Gland, Hyperplasia 1 [2.0] 1 [3.0] 2 [2.5] 1 [1.0] Ulcer 2 [3.0] 2 [3.0] 2 [3.0] 2 [3.0] 1 [2.0] Ulcer 1 [3.0] 1 [2.0] 1 [2.0] 1 [2.0] 1 [2.0] Ulcer 1 [3.0] 1 [3.0] 1 [2.0] 1 [2.0] 1 [2.0] Ulcer 0 (0)						
Fat, Necrosis 4 [2.0] 6 [2.0] 8 [1.9] 7 [1.9] Oral Mucosa (0) (1) (0) (2) Inflammation 1[1.0] 1[1.0] 1[1.0] Pancreas (49) (50) (50) (49) Acnus, Atrophy 18 [1.5] 18 [1.7] 16 [1.3] 12 [1.7] Acnus, Hyperplasia 2 [2.0] 3 [2.0] 3 [1.3] Atrey, Inflammation 1 12.0] 3 [2.0] 3 [1.3] Duct, Cyst 10 [1.3] 10 [1.7] 8 [1.6] 7 [1.6] Salivary (Slands (49) (50) (50) (49) Submach, Forestomach (49) (50) (50) (49) Submach, Glandular (49) (50) (50) (50) Ulcer 2 [3.0] 2 [3.0] 1 [2.0] 1 [2.0] Ulcer 1 [2.0] 1 [3.0] 1 [2.0] 1 [2.0] Ulcer 0) 1 [1.0] 1 [1.0] 1 [2.0] Ulcer (0) (10)		(5)	(7)	(9)	(8)	
Orai Mucosa (n) (1) (n) (2) Inflammation 11101 11101 11101 Pancreas (49) (50) (50) (49) Acinus, Atrophy 18[1.5] 18[1.7] 16[1.3] 12[1.7] Acinus, Hyperplasia 2[2.0] 3[2.0] 3[1.3] 12[1.7] Artery, Inflammation 1[2.0] 3[2.0] 7[1.6] 3[2.0] 7[1.6] Submandibular Cland, Hyperplasia 1[2.0] 650 (50) (49) 500 (50) (49) Submach, Forestomach (49) (50) (50) (50) (50) (50) (50) (10) 113.0] 2[2.5] 110 112.0] 112.0] 112.0] 112.0] 112.0] 112.0] 112.0] 112.0] 110 110 112.0] 112.0] 112.0] 112.0] 112.0] 112.0] 112.0] 112.0] 112.0] 112.0] 112.0] 112.0] 112.0] 112.0] 112.0] 113.0] 122.0] 122.0] <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td>			1			
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Acinus, Atrophy 18 [1.5] 18 [1.7] 16 [1.3] 12 [1.7] Acinus, Hyperplasia 2 [2.0] 3 [2.0] 3 [1.3] Actrus, Inflarmation 1 12.0] 3 [1.3] Duct, Cyst 10 [1.3] 10 [1.7] 8 [1.6] 7 [1.6] Salivary Glands (49) (50) (50) (49) Stomach, Forestomach (49) (50) (50) (50) Ucer 2 [3.0] 2 [3.0] 2 [2.5] 11 [1.0] Ucer 2 [3.0] 2 [3.0] 1 [2.0] 1 [2.0] Ucer 2 [3.0] 2 [3.0] 1 [2.0] 1 [2.0] Ucer 2 [3.0] 1 [1.0] 1 [2.0] 1 [2.0] Ucer 0 (50) (50) (50) Inflammation 1 [2.0] 1 [3.0] 1 [2.0] 1 [2.0] Ucer 2 [3.0] 1 [1.0] 1 [3.0] 1 [2.0] 1 [3.0] Tongue (0) (1) (1) (0) 0 1 [3.0] A		(()		
Acinus, Hyperplasia 2 [2.0] 1 [2.0] 3 [2.0] 3 [1.3] Artery, Inflammation 1 [2.0] 3 [2.0] 3 [1.3] Artery, Inflammation 10 [1.3] 10 [1.7] 8 [1.6] 7 [1.6] Salivary Glands (49) (50) (50) (49) Submach, Forestomach (49) (50) (50) (50) Inflammation 3 [2.0] 2 [3.0] 2 [2.5] (10.0) Stomach, Glandular (49) (50) (50) (50) Ulcer 2 [3.0] 2 [3.0] 2 [2.5] (11.0] Stomach, Glandular (49) (50) (50) (50) Inflammation 1 [2.0] 1 [3.0] 1 [2.0] (10.0) Ulcer 1 [3.0] 1 [3.0] 1 [2.0] (0) (11) (0) Ulcer 1 [3.0] 1 [1.0] 1 [3.0] (0) (0) (0) (0) CARDIOVASCULAR SYSTEM 2 [3.0] 1 [3.0] 42 [1.6] 42 [1.6] 42 [1.6]						
Artery, Inflammation 1			18 [1.7]			
Duct, Cyst 10 [1.3] 10 [1.7] 8 [1.6] 7 [1.6] Salivary Glands (49) (50) (50) (49) Submandibular Gland, Hyperplasia 1 [2.0] (49) (50) (50) (50) Stomach, Forestomach (49) (50) (50) (50) (50) Inflammation 3 [2.7] 1 [3.0] 1 [3.0] 2 [2.5] 11.0] Stomach, Glandular (49) (50) (50) (50) (50) Inflammation 1 [2.0] 1 [3.0] 1 [2.0] 1 [2.0] 1 [2.0] Ulcer 1 [3.0] 1 [3.0] 1 [2.0] 1 [3.0] 1 [2.0] Ulcer 1 [3.0] 1 [1.0] 1 [1.0] 1 [3.0] 1 [3.0] Ulcer 1 [3.0] 1 [3.0] 1 [3.0] 42 [1.6] 42 [1.6] 42 [1.6] Heart (50) (50) (50) (50) 42 [1.6] 42 [1.6] Myocardium, Minearization 1 [3.0] 1 [3.0] 1 [3.0] 1 [3.0] 42 [1.6]	Acinus, Hyperplasia	2 [2.0]	4 [0 0]	3 [2.0]	3 [1.3]	
Salivary Ĝlands (49) (50) (50) (49) Submandibular Gland, Hyperplasia 1 [2.0] (50) (50) (50) (50) Stomach, Forestomach (49) (50) (50) (50) (50) Inflammation 3 [2.7] 1 [3.0] 1 [3.0] 2 [2.5] (50) Ulcer 2 [3.0] 2 [3.0] 1 [1.0] (50) (50) (50) Stomach, Glandular (49) (50) (50) (50) (50) (50) Ulcer 1 [2.0] 1 [2.0] 1 [2.0] 1 [2.0] 1 [2.0] Ulcer 1 [3.0] 1 [1.0] 1 [1.0] 1 [2.0] 1 [2.0] Ulcer 1 [3.0] 1 [3.0] 1 [3.0] 1 [3.0] 1 [3.0] CARDIOVASCULAR SYSTEM 42 [1.9] 46 [1.6] 42 [1.6] 42 [1.6] 42 [1.6] Myocardium, Fibrosis 1 [3.0] 1 [2.0] 1 [3.0] 1 [3.0] 1 [3.0] 1 [3.0] Myocardium, Fibrosis 1 [3.0] 1 [3.0] 1 [3.0] </td <td>Artery, Inflammation</td> <td>40 [4 0]</td> <td></td> <td>0.14.01</td> <td>7 (4, 0)</td> <td></td>	Artery, Inflammation	40 [4 0]		0.14.01	7 (4, 0)	
Submandibular Gland, Hyperplasia 1 [2.0] Stomach, Forestomach (49) (50) (50) (50) Inflammation 3 [2.7] 1 [3.0] 1 [3.0] 2 [2.5] Ulcer 2 [3.0] 2 [3.0] 1 [1.0] Stomach, Glandular (49) (50) (50) 1 [1.0] Inflammation 1 [2.0] 1 [3.0] 1 [2.0] 1 [2.0] Ulcer 1 [3.0] 1 [1.0] 1 [2.0] 1 [2.0] Ulcer 1 [3.0] 1 [1.0] 1 [1.0] Tongue (0) (1) (1) (0)				8 [1.6]		
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Inflammation 3 [2,7] 1 [3,0] 2 [2,5] Ulcer 2 [3,0] 2 [3,0] 1 [1,0] Stomach, Glandular (49) (50) (50) (50) Inflammation 1 [2,0] 1 [3,0] 1 [2,0] 1 [2,0] Ucer 1 [3,0] 1 [1,0] 1 [2,0] 1 [2,0] Epithelium, Hyperplasia 1 [1,0] 1 [1,0] 1 [2,0] Tongue (0) (1) (1) (0) CARDIOVASCULAR SYSTEM Heart (50) (50) (50) Cardiomyopathy 42 [1,9] 46 [1,6] 42 [1,6] 42 [1,6] Myocardium, Fibrosis 2 [3,0] 1 [3,0] 1 [2,0] 42 [1,6] Myocardium, Fibrosis 1 [3,0] 1 [3,0] 1 [3,0] 1 [3,0] ENDOCRINE SYSTEM		1 [2.0]	(50)	(50)	(50)	
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Stomach, Glandular Inflammation (49) (50) (50) (50) Ucer Epithelium, Hyperplasia Tongue 1 [2.0] 1 [2.0] 1 [2.0] CARDIOVASCULAR SYSTEM (0) (1) (1) (0) Heart (50) (50) (50) (50) Cardiomyopathy 42 [1.9] 46 [1.6] 42 [1.6] 42 [1.6] Myocardium, Fibrosis 1 [3.0] 1 [3.0] 1 1 ENDOCRINE SYSTEM 1 [3.0] 1 [3.0] 1 1		2 [3.0]	2 [3.0]		1 [1 0]	
Inflammation 1 [2.0] 1 [2.0] Ulcer 1 [3.0] Epithelium, Hyperplasia 1 [1.0] Tongue (0) (0) (1) (1	Stomach Glandular	(49)	(50)	(50)	(50)	
Ulcer 1 [3.0] 1 [1.0] 1 [1.0] Epithelium, Hyperplasia 0 1 [1.0] 1 [1.0] Tongue 0 1 0 CARDIOVASCULAR SYSTEM Heart (50) (50) (50) Cardiomyopathy 42 [1.9] 46 [1.6] 42 [1.6] Atrium, Thrombosis 2 [3.0] 1 [3.0] Myocardium, Fibrosis 1 [3.0] 1 [3.0] Myocardium, Mineralization 1 [3.0] 1 [3.0] ENDOCRINE SYSTEM			(30)	(50)		
Epithelium, Hyperplasia Tongue 1 [1.0] (1) 1 [1.0] (1) 1 [1.0] (1) 0) CARDIOVASCULAR SYSTEM Heart Cardiomyopathy Atrium, Thrombosis (50) (50) (50) (50) Ventricle, Thrombosis 2 [3.0] 1 [3.0] 1 [3.0] 42 [1.6] 42 [1.6] ENDOCRINE SYSTEM 1 1 1 1 1 1		1 [2.0]		1 [3 0]	1 [2.0]	
Tongue (0) (1) (1) (0) CARDIOVASCULAR SYSTEM Heart (50) (50) (50) (50) Cardiomyopathy 42 [1.9] 46 [1.6] 42 [1.6] 42 [1.6] 42 [1.6] Myocardium, Fibrosis 2 [3.0] 1 [3.0] 1 [2.0] 1 [3.0] ENDOCRINE SYSTEM			1 [1 0]			
CARDIOVASCULAR SYSTEM Heart (50) (50) (50) Cardiomyopathy 42 [1.9] 46 [1.6] 42 [1.6] 42 [1.6] Atrium, Thrombosis 2 [3.0] 1 [3.0] 1 [2.0] 1 [3.0] Myocardium, Mineralization 1 [3.0] 1 [3.0] 1 [3.0] 1 [3.0] ENDOCRINE SYSTEM		(0)		(1)	(0)	
Heart (50) (50) (50) (50) Cardiomyopathy 42 [1.9] 46 [1.6] 42 [1.6] 42 [1.6] Atrium, Thrombosis 2 [3.0] 1 [3.0] 1 [2.0] 1 [3.0] Myocardium, Mineralization 1 [3.0] 1 [3.0] 1 [3.0] Ventricle, Thrombosis 1 [3.0] 1 [3.0] 1 [3.0]		(0)	(1)	(')	(0)	
Cardiomyopathy42 [1.9]46 [1.6]42 [1.6]Atrium, Thrombosis2 [3.0]1 [3.0]Myocardium, Fibrosis1 [2.0]Myocardium, Mineralization1 [3.0]Ventricle, Thrombosis1 [3.0]ENDOCRINE SYSTEM	CARDIOVASCULAR SYSTEM					
Cardiomyopathy42 [1.9]46 [1.6]42 [1.6]Atrium, Thrombosis2 [3.0]1 [3.0]Myocardium, Fibrosis1 [2.0]Myocardium, Mineralization1 [3.0]Ventricle, Thrombosis1 [3.0]ENDOCRINE SYSTEM	Heart	(50)	(50)	(50)	(50)	
Atrium, Thrombosis 2 [3.0] 1 [3.0] Myocardium, Fibrosis 1 [2.0] Myocardium, Mineralization 1 [3.0] Ventricle, Thrombosis 1 [3.0] I [3.0]						
Myocardium, Fibrosis 1 [2.0] Myocardium, Mineralization 1 [3.0] Ventricle, Thrombosis 1 [3.0]				[]	[]	
Myocardium, Mineralization 1 [3.0] Ventricle, Thrombosis 1 [3.0]		[]	1 [2.0]			
Ventricle, Thrombosis 1 [3.0] ENDOCRINE SYSTEM		1 [3.0]	L - J			
			1 [3.0]			
Adrenal Cortex (50) (50) (50)	ENDOCRINE SYSTEM					
Adrenal Cortex (50) (50) (50) (50)		(50)	(50)		(50)	
	Adrenal Coffex	(50)	(50)	(50)	(50)	

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

Route: DOSED FEED

Species/Strain: RATS/F 344

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

Date Report Regsted: 04/10/2006

CRESOLS

CAS Number: 1319-77-3

Pathologist: BOYCE, J. - JOKINEN, M. - RYAN, M.

Time Report Reqsted: 08:44:01 First Dose M/F: 08/05/02 / NA Lab: BAT

FISCHER 344 RATS MALE	0 PPM	1500 PPM	5000 PPM	15000 PPM	
Angiectasis		1 [3.0]			
Hyperplasia	12 [1.7]	11 [1.2]	10 [1.2]	7 [1.6]	
Necrosis	1 [2.0]		4 [2.3]		
Vacuolization Cytoplasmic	25 [1.4]	22 [1.3]	21 [1.2]	19 [1.3]	
Adrenal Medulla	(50)	(50)	(50)	(50)	
Angiectasis Hyperplasia	2 [3.5] 10 [2.3]	12 [1.9]	11 [1.4]	8 [1.5]	
Infiltration Cellular, Lymphoid	10 [2.3]	1 [3.0]	11[1.4]	0[1.0]	
Necrosis	1 [4.0]	1 [0:0]			
Islets, Pancreatic	(49)	(50)	(50)	(49)	
Hyperplasia	2 [1.5]	2 [1.5]	1 [1.0]	4 [1.5]	
Parathyroid Gland	(46)	(50)	(49)	(46)	
Hyperplasia				1 [2.0]	
Pituitary Gland	(50)	(50)	(49)	(50)	
Angiectasis	19 [1.9]	9 [2.4]	12 [2.3]	8 [2.3]	
Cyst Pars Distalis, Hyperplasia	5 [1.6] 14 [1.6]	5 [1.2]	7 [1.3]	6 [1.7] 12 [1.4]	
Pars Intermedia, Hyperplasia	14 [1.0]	13 [2.0]	14 [1.8]	1 [1.0]	
Thyroid Gland	(50)	(50)	(50)	(49)	
Cyst	2 [1.0]	2 [1.0]	(00)	(10)	
C-cell, Hyperplasia	25 [1.4]	21 [1.6]	17 [1.6]	6 [1.2]	
Follicular Cell, Cyst			4 [2.0]		
Follicular Cell, Hyperplasia	1 [1.0]	1 [1.0]	1 [1.0]	4 [1.8]	
GENERAL BODY SYSTEM					
Tissue NOS	(0)	(0)	(0)	(1)	
GENITAL SYSTEM					
Epididymis	(50)	(50)	(50)	(50)	
Granuloma Sperm	1 [2.0]	1 [1.0]	1 [2.0]	(30)	
Inflammation	. [2:0]	. [0]	2 [1.5]	1 [2.0]	
Preputial Gland	(50)	(50)	(50)	(49)	
Cyst			1 [3.0]		
Hyperplasia		3 [2.3]	4 [1.8]		
Inflammation	47 [1.7]	49 [1.8]	45 [1.7]	44 [1.5]	
Prostate	(50)	(50)	(50) 2 [1.5]	(50)	
Atrophy			2 [1.0]		

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]

Date Report Reqsted: 04/10/2006

CRESOLS

CAS Number: 1319-77-3

Route: DOSED FEED Species/Strain: RATS/F 344

Pathologist: BOYCE, J. - JOKINEN, M. - RYAN, M.

Time Report Reqsted: 08:44:01 First Dose M/F: 08/05/02 / NA Lab: BAT

FISCHER 344 RATS MALE	0 PPM	1500 PPM	5000 PPM	15000 PPM	
Cyst Hyperplasia	20 [1.6]	1 [4.0] 20 [1.4]	16 [1.2]	22 [1.3]	
Inflammation	25 [1.6]	19 [1.5]	26 [1.4]	19 [1.5]	
Seminal Vesicle	(50)	(50)	(50)	(50)	
Atrophy		1 [2.0]	1 [3.0]		
Hyperplasia				1 [2.0]	
Inflammation	()	()	()	1 [2.0]	
Testes	(50)	(50)	(50)	(50)	
Arteriole, Inflammation	1 [2.0]	4 [4 0]			
Germinal Epithelium, Atrophy Interstitial Cell, Hyperplasia	1 [4.0]	1 [4.0]		2 [2.0]	
interstitiar Cell, Hyperplasia				2 [2.0]	
HEMATOPOIETIC SYSTEM					
Bone Marrow	(50)	(50)	(50)	(50)	
Fibrosis	1 [2.0]			1 [3.0]	
Hyperplasia	5 [1.6]	2 [2.0]	6 [2.7]	7 [2.1]	
Necrosis	1 [3.0]		(-)		
Lymph Node	(4)	(5)	(5)	(4)	
Mediastinal, Ectasia Mediastinal, Hyperplasia, Lymphoid		1 [2.0]		1 [2.0]	
Pancreatic, Hyperplasia, Lymphoid		1 [2.0]	1 [1.0]		
Pancreatic, Pigmentation, Hemosiderin			1[1.0]	1 [2.0]	
Lymph Node, Mesenteric	(49)	(50)	(50)	(50)	
Hyperplasia, Lymphoid	()	()	()	1 [2.0]	
Spleen	(49)	(50)	(50)	(49)	
Atrophy	1 [1.0]	2 [2.5]	3 [3.0]	2 [2.0]	
Fibrosis	1 [2.0]		1 [1.0]	1 [1.0]	
Hematopoietic Cell Proliferation	17 [1.3]	16 [1.3]	23 [1.5]	18 [1.3]	
Infiltration Cellular, Histiocyte				1 [2.0]	
Artery, Hyperplasia			1 [3.0]		
Artery, Inflammation	(47)	(43)	1 [4.0] (47)	(49)	
Thymus Atrophy	(47) 44 [3.8]	(4 <i>3)</i> 39 [3.8]	(47) 43 [3.8]	(48) 47 [3.7]	
Cyst	44 [3.0]	3 8 [3.0]	43 [3.6] 1 [1.0]	47 [5.7] 1 [1.0]	
Ectopic Parathyroid Gland			1 [1.0]	1 [1.0]	
				. []	

INTEGUMENTARY SYSTEM

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

Route: DOSED FEED

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

Date Report Reqsted: 04/10/2006

CRESOLS

CAS Number: 1319-77-3

Species/Strain: RATS/F 344

Pathologist: BOYCE, J. - JOKINEN, M. - RYAN, M.

Time Report Reqsted: 08:44:01 First Dose M/F: 08/05/02 / NA Lab: BAT

FISCHER 344 RATS MALE	0 PPM	1500 PPM	5000 PPM	15000 PPM	
Mammary Gland Hyperplasia Skin Cyst Epithelial Inclusion Hyperkeratosis Inflammation Epidermis, Hyperplasia Hair Follicle, Atrophy Subcutaneous Tissue, Metaplasia, Osseous Subcutaneous Tissue, Necrosis	(49) 6 [1.7] (50) 1 1 [2.0]	(50) 10 [1.6] (50) 1 [1.0] 1 [3.0] 1 [2.0]	(50) 6 [1.2] (50) 1 [4.0] 2 [2.0] 1 [3.0] 1 [2.0]	(49) 8 [1.4] (50)	
MUSCULOSKELETAL SYSTEM					
Bone Hyperostosis Joint, Inflammation	(50) 1 [1.0]	(50)	(50)	(50) 1 [2.0] 3 [1.7]	
NERVOUS SYSTEM					
Brain Hydrocephalus Hypothalamus, Compression	(50) 7 [2.3] 6 [2.8]	(50) 4 [2.5] 4 [3.0]	(50) 4 [3.3] 4 [3.0]	(50) 4 [2.8] 4 [3.0]	
RESPIRATORY SYSTEM					
Lung Congestion Fibrosis	(50)	(50) 1 [2.0]	(50) 1 [3.0]	(50) 1 [2.0]	
Inflammation Metaplasia, Osseous Metaplasia, Squamous	26 [1.2]	25 [1.0] 2 [1.0]	23 [1.0] 1 [1.0] 1 [2.0]	24 [1.3] 1 [1.0]	
Alveolar Epithelium, Hyperplasia Nose Hyperplasia	7 [1.7] (50)	5 [1.2] (50)	8 [1.6] (50)	4 [1.5] (50) 1 [2.0]	
Inflammation Goblet Cell, Hyperplasia Respiratory Epithelium, Hyperplasia	17 [1.5] 23 [1.1] 3 [1.0]	19 [1.6] 40 [1.1] 17 [1.0]	19 [1.3] 42 [1.2] 31 [1.0]	28 [1.4] 47 [1.6] 47 [1.2]	

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

TDMS No. 05174 - 05

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

Date Report Reqsted: 04/10/2006

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/F 344

CAS Number: 1319-77-3

Pathologist: BOYCE, J. - JOKINEN, M. - RYAN, M.

CRESOLS

Time Report Reqsted: 08:44:01 First Dose M/F: 08/05/02 / NA Lab: BAT

FISCHER 344 RATS MALE	0 PPM	1500 PPM	5000 PPM	15000 PPM	
Respiratory Epithelium, Metaplasia, Squamous		1 [1.0]	8 [1.0]	40 [1.5]	
Vein, Thrombosis Trachea Inflammation	(50)	(50)	2 [3.0] (50) 1 [1.0]	2 [2.0] (49)	
SPECIAL SENSES SYSTEM					
Eye Cataract Inflammation Choroid, Inflammation	(49) 1 [3.0] 1 [3.0]	(50) 3 [3.0] 1 [3.0]	(50)	(50) 1 [3.0]	
Optic Nerve, Atrophy Retina, Atrophy Sclera, Metaplasia, Osseous Harderian Gland Atrophy Cyst	1 [4.0] 16 [1.4] (49)	2 [3.0] 4 [2.5] 29 [1.4] (50) 1 [2.0]	28 [1.4] (50) 2 [1.0]	1 [3.0] 15 [1.5] (50) 2 [1.5]	
Hyperplasia Inflammation Zymbal's Gland	1 [1.0] 1 [1.0] (1)	6 [1.0] (2)	5 [1.0] (0)	3 [1.0] (2)	
URINARY SYSTEM					
Kidney Accumulation, Hyaline Droplet	(50) 1 [1.0]	(50)	(50)	(50)	
Hydronephrosis Infarct Necrosis Nephropathy Capsule, Lymphangiectasis	1 [1.0] 2 [2.5] 47 [1.4]	1 [3.0] 48 [1.4] 1 [4.0]	1 [4.0] 1 [3.0] 1 [3.0] 46 [1.7]	4 [2.3] 49 [2.1]	
Renal Tubule, Cyst Renal Tubule, Hyperplasia Renal Tubule, Inflammation Renal Tubule, Mineralization	2 [1.0]	2 [2.5]	1 [1.0]	1 [2.0] 3 [1.0] 1 [2.0]	
Transitional Épithelium, Hyperplasia Ureter Cyst	(1)	(0)	2 [2.0] (1) 1 [4.0]	8 [1.9] (0)	
Inflammation	1 [2.0]		, [4 .0]		

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

TDMS No. 05174 - 05 Test Type: CHRONIC Route: DOSED FEED Species/Strain: RATS/F 344	P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b] CRESOLS CAS Number: 1319-77-3 Pathologist: BOYCE, J JOKINEN, M RYAN, M.			C		Date Report Reqsted: 04/10/2006 Time Report Reqsted: 08:44:01 First Dose M/F: 08/05/02 / NA Lab: BAT
FISCHER 344 RATS MALE	0 PPM	1500 PPM	5000 PPM	15000 PPM		
Urinary Bladder Inflammation	(49) 1 [2.0]	(50)	(50) 1 [2.0]	(50)		

*** END OF MALE ***

*** 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)