TDMS No. 20304 - 01 Test Type: CHRONIC Route: GAVAGE Species/Strain: RATS/SD	-	NON-NEOPLASTIC LESIONS BY ANATOMIC SIT TEF evaluation (PCB 118) CAS Number: 31508-00-6 F1_R8	E(a)	Date Report Requested: 06/26/2008 Time Report Requested: 12:05:16 First Dose M/F: NA / 03/26/04 Lab: BAT
C Number:	C20304			
Lock Date:	10/12/2006			
Cage Range:	ALL			
Date Range:	ALL			
Reasons For Removal:	25022 ACCK	25021 TSAC	2502) NATD
	25019 MSAC	25018 DACC		
Removal Date Range:	ALL			
Treatment Groups:	Include 001 0 UG/KG	Include 004 100 UG/KG	Includ	de 005 220 UG/KG
	Include 006 460 UG/KG	Include 007 1000 UG/KG	Includ	de 008 4600 UG/KG
	Include 009 4600 UG/KG STOP			
Study Gender:	Female			
TDMSE Version:	2.0.0			

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008 Time Report Requested: 12:05:16 First Dose M/F: NA / 03/26/04 Lab: BAT

SPRAGUE-DAWLEY RATS FEMALE	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KC
Disposition Summary						
Animals Initially in Study Early Deaths Accidently Killed	80	80	80	80	80	80
Dosing Accident Moribund Sacrifice Natural Death	27 4	1 22 9	22 5	17 5	16 8	16 11
Survivors Moribund Sacrifice Terminal Sacrifice Animals Examined Microscopically	21 52	20 52	25 52	30 52	28 52	25 52
ALIMENTARY SYSTEM						
Esophagus Ulcer	(51)	(52)	(52)	(52) 1 (2%)	(52)	(52)
Muscularis, Degeneration					1 (2%)	
Muscularis, Inflammation Intestine Large, Cecum	(52)	3 (6%) (51)	(51)	1 (2%) (52)	(52)	(48)
Degeneration, Fatty	(0-)				1 (2%)	(10)
Inflammation Ulcer			1 (2%) 1 (2%)	1 (2%)		
Artery, Inflammation, Chronic Active			1 (270)	1 (2%)	3 (6%)	1 (2%)
Intestine Large, Colon	(52)	(52)	(52)	(52)	(52)	(48)
Parasite Metazoan Artery, Inflammation, Chronic Active	1 (2%)			1 (2%)	1 (2%) 3 (6%)	1 (2%) 1 (2%)
Intestine Large, Rectum	(52)	(52)	(52)	(52)	(52)	(50)
Inflammation	0 (40()	1 (2%)	2 (00()	0 (40/)	4 (00/)	2 (00()
Parasite Metazoan Artery, Inflammation, Chronic Active	2 (4%) 1 (2%)	2 (4%)	3 (6%)	2 (4%) 2 (4%)	1 (2%) 5 (10%)	3 (6%) 1 (2%)
Intestine Small, Duodenum Inflammation Ulcer	(52)	(52)	(52)	(52)	(52) 1 (2%) 1 (2%)	(48)
Intestine Small, Ileum	(52)	(51)	(50)	(52)	(52)	(47)
Artery, Inflammation, Chronic Active			(EQ)		1 (2%)	(40)
Intestine Small, Jejunum Inflammation, Chronic Active Artery, Inflammation, Chronic Active	(52)	(52)	(50)	(52)	(52) 1 (2%) 1 (2%)	(48)
Liver	(52)	(51)	(52)	(52)	(52)	(49)
Angiectasis	11 (010/)	1 (2%)	1 (2%)	2 (4%)	0 (150()	2 (4%)
Basophilic Focus Basophilic Focus, Multiple	11 (21%) 4 (8%)	5 (10%) 2 (4%)	8 (15%) 3 (6%)	4 (8%) 2 (4%)	8 (15%) 1 (2%)	1 (2%)

Test Type: CHRONIC

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P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

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SPRAGUE-DAWLEY RATS FEMALE	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG
Cholangiofibrosis		2 (4%)	2 (4%)	3 (6%)	2 (4%)	22 (45%)
Clear Cell Focus	6 (12%)	3 (6%)	4 (8%)	5 (10%)	2 (4%)	
Clear Cell Focus, Multiple	9 (17%)	7 (14%)	3 (6%)	9 (17%)	3 (6%)	
Degeneration, Cystic	1 (2%)		1 (2%)		1 (2%)	2 (4%)
Eosinophilic Focus	5 (10%)	5 (10%)	4 (8%)	4 (8%)	5 (10%)	
Eosinophilic Focus, Multiple		3 (6%)	5 (10%)	11 (21%)	20 (38%)	41 (84%)
Fatty Change, Focal	2 (4%)	1 (2%)	6 (12%)	4 (8%)	3 (6%)	
Fatty Change, Diffuse	1 (2%)	2 (4%)	1 (2%)	9 (17%)	39 (75%)	48 (98%)
Hematopoietic Cell Proliferation	19 (37%)	20 (39%)	21 (40%)	28 (54%)	19 (37%)	21 (43%)
Hepatodiaphragmatic Nodule	()	1 (2%)	2 (4%)	1 (2%)	· · · ·	()
Hyperplasia, Nodular		()	()	~ /	12 (23%)	43 (88%)
Inflammation	21 (40%)	30 (59%)	35 (67%)	36 (69%)	43 (83%)	44 (90%)
Mixed Cell Focus	6 (12%)	5 (10%)	7 (13%)	6 (12%)	1 (2%)	1 (2%)
Mixed Cell Focus, Multiple	15 (29%)	14 (27%)	22 (42%)	30 (58%)	30 (58%)	6 (12%)
Necrosis	1 (2%)	2 (4%)	1 (2%)	2 (4%)	20 (38%)	22 (45%)
Pigmentation	1 (2%)	5 (10%)	12 (23%)	41 (79%)	50 (96%)	48 (98%)
Toxic Hepatopathy	1 (270)	5 (10%)	3 (6%)	14 (27%)	33 (63%)	46 (94%)
Bile Duct, Cyst	2 (4%)	3 (6%)	5 (10%)	6 (12%)	6 (12%)	21 (43%)
Bile Duct, Fibrosis	2 (4%)	1 (2%)	5 (1078)	3 (6%)	2 (4%)	21 (4376)
			7 (120/)			40 (000/)
Bile Duct, Hyperplasia	5 (10%)	6 (12%)	7 (13%)	8 (15%)	21 (40%)	40 (82%)
Capsule, Inflammation	1 (2%)	0 (40()	4 (00/)	2 (6%()	C (400()	4 (00()
Centrilobular, Degeneration	1 (2%)	2 (4%)	4 (8%)	3 (6%)	6 (12%)	1 (2%)
Hepatocyte, Hypertrophy		12 (24%)	15 (29%)	20 (38%)	44 (85%)	48 (98%)
Hepatocyte, Multinucleated		1 (2%)	3 (6%)	21 (40%)	40 (77%)	43 (88%)
Oval Cell, Hyperplasia	(-)	12 (24%)	9 (17%)	29 (56%)	40 (77%)	46 (94%)
Mesentery	(2)	(1)	(3)	(3)	(9)	(9)
Hemorrhage				1 (33%)		
Artery, Inflammation, Chronic Active	1 (50%)			2 (67%)	5 (56%)	8 (89%)
Artery, Thrombosis						1 (11%)
Fat, Necrosis					1 (11%)	1 (11%)
Oral Mucosa	(1)	(0)	(1)	(1)	(1)	(3)
Gingival, Cyst						1 (33%)
Gingival, Hyperplasia, Squamous				1 (100%)	1 (100%)	
Pancreas	(52)	(52)	(52)	(52)	(52)	(47)
Amyloid Deposition						
Degeneration	1 (2%)					
Inflammation, Chronic Active	()	1 (2%)	2 (4%)	2 (4%)	3 (6%)	2 (4%)
Acinus, Atrophy, Focal	4 (8%)	2 (4%)	3 (6%)	4 (8%)	3 (6%)	1 (2%)
Acinus, Atrophy, Diffuse	. (070)	= ()	0 (0,0)			1 (2%)
Acinus, Hyperplasia		2 (4%)			1 (2%)	1 (270)
Acinus, Vacuolization Cytoplasmic		2 (170)			4 (8%)	42 (89%)
Artery, Inflammation, Chronic Active	1 (2%)	2 (4%)	1 (2%)	7 (13%)	7 (13%)	12 (26%)
Duct. Dilatation	1 (270)	2 (470)	1 (270)	7 (1376)	7 (1376)	3 (6%)
Duct. Inflammation						2 (4%)
Duct, Necrosis						2 (4%) 1 (2%)
Salivary Glands	(51)	(51)	(52)	(51)	(52)	(51)
Salivary Glarius	(51)	(31)	(32)	(31)	(32)	(51)

Test Type: CHRONIC

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Species/Strain: RATS/SD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

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SPRAGUE-DAWLEY RATS FEMALE	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG
Degeneration Stomach, Forestomach	(52)	(52)	(52)	(52)	1 (2%) (52)	(51)
Hyperplasia, Squamous Inflammation Ulcer	2 (4%) 2 (4%)	3 (6%) 1 (2%)	(/	()	2 (4%)	3 (6%) 1 (2%)
Artery, Inflammation, Chronic Active Stomach, Glandular Cyst	(52) 1 (2%)	(52)	(52)	(52)	1 (2%) (52)	1 (2%) (51)
Erosion Mineralization Artery, Inflammation, Chronic Active		1 (2%)		1 (2%)	1 (2%)	1 (2%)
Artery, Mineralization Glands, Cyst Tongue Degeneration	(0)	1 (2%) (0)	1 (2%) (0)	(0)	(0)	(0)
Tooth Peridontal Tissue, Inflammation	(10) 7 (70%)	(5) 5 (100%)	(5) 5 (100%)	(5) 5 (100%)	(4) 4 (100%)	(7) 6 (86%)
CARDIOVASCULAR SYSTEM						
Blood Vessel Aorta, Mineralization	(52)	(52) 1 (2%)	(52)	(52)	(52)	(51)
Heart Cardiomyopathy Inflammation Artery, Inflammation, Chronic Active	(52) 13 (25%)	(52) 19 (37%)	(52) 14 (27%)	(52) 16 (31%)	(52) 19 (37%) 1 (2%) 1 (2%)	(50) 16 (32%) 1 (2%) 1 (2%)
Artery, Mineralization Coronary Artery, Thrombosis Endocardium, Hyperplasia		1 (2%) 1 (2%) 1 (2%)	1 (2%)	1 (2%)	1 (2%)	1 (2%) 2 (4%)
Endocardium, Infiltration Cellular Epicardium, Fibrosis Epicardium, Inflammation Myocardium, Mineralization		1 (2%) 1 (2%) 1 (2%)				1 (2%)
ENDOCRINE SYSTEM						
Adrenal Cortex Angiectasis	(52)	(52)	(52)	(51) 1 (2%)	(52)	(49)
Atrophy Degeneration, Cystic Fibrosis	1 (2%) 9 (17%)	8 (15%)	9 (17%)	2 (4%) 12 (24%)	9 (17%) 6 (12%)	35 (71%) 8 (16%)
Hematopoietic Cell Proliferation Hyperplasia Hypertrophy	1 (2%) 14 (27%) 37 (71%)	18 (35%) 37 (71%)	13 (25%) 39 (75%)	16 (31%) 43 (84%)	1 (2%) 13 (25%) 44 (85%)	13 (27%) 34 (69%)

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SPRAGUE-DAWLEY RATS FEMALE	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG
Inflammation			1 (2%)			
Necrosis		1 (2%)	2 (4%)		3 (6%)	
Vacuolization Cytoplasmic	10 (19%)	12 (23%)	13 (25%)	12 (24%)	12 (23%)	18 (37%)
Adrenal Medulla	(52)	(52)	(52)	(52)	(52)	(49)
Hyperplasia	11 (21%)	12 (23%)	14 (27%)	16 (31%)	10 (19%)	1 (2%)
Necrosis					1 (2%)	
Islets, Pancreatic	(52)	(52)	(52)	(52)	(52)	(47)
Hyperplasia		1 (2%)				
Parathyroid Gland	(47)	(46)	(47)	(50)	(50)	(47)
Hyperplasia		1 (2%)				
Pituitary Gland	(52)	(52)	(52)	(52)	(52)	(52)
Angiectasis	1 (2%)	1 (2%)			1 (2%)	
Cyst		1 (2%)				
Vacuolization Cytoplasmic						
Pars Distalis, Cyst					1 (2%)	
Pars Distalis, Hyperplasia	10 (19%)	6 (12%)	13 (25%)	13 (25%)	16 (31%)	10 (19%)
Thyroid Gland	(51)	(51)	(51)	(51)	(52)	(49)
Infiltration Cellular, Lymphocyte					1 (2%)	1 (2%)
Inflammation	1 (2%)					
C-cell, Hyperplasia	10 (20%)	14 (27%)	10 (20%)	6 (12%)	12 (23%)	11 (22%)
Follicular Cell, Hyperplasia					1 (2%)	
Follicular Cell, Hypertrophy	6 (12%)	7 (14%)	13 (25%)	18 (35%)	21 (40%)	23 (47%)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

OEMIN E OTOTEM						
Clitoral Gland Hyperplasia, Squamous	(52)	(52)	(51) 1 (2%)	(52)	(51)	(49)
Inflammation	41 (79%)	38 (73%)	39 (76%)	40 (77%)	35 (69%)	13 (27%)
Duct, Cyst	26 (50%)	39 (75%)	31 (61%)	35 (67%)	37 (73%)	30 (61%)
Ovary	(52)	(52)	(52)	(52)	(52)	(48)
Cyst	8 (15%)	10 (19%)	13 (25%)	14 (27%)	14 (27%)	7 (15%)
Fibrosis	х ,			1 (2%)	· · · ·	()
Inflammation				2 (4%)	1 (2%)	2 (4%)
Pigmentation				1 (2%)		
Bilateral, Cyst			1 (2%)			
Uterus	(52)	(52)	(52)	(52)	(52)	(49)
Adenomyosis				1 (2%)		1 (2%)
Cyst			1 (2%)	1 (2%)		1 (2%)
Hemorrhage					1 (2%)	1 (2%)
Inflammation	4 (8%)	6 (12%)	6 (12%)	8 (15%)	8 (15%)	4 (8%)

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P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

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SPRAGUE-DAWLEY RATS FEMALE	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG
Metaplasia, Squamous	29 (56%)	26 (50%)	27 (52%)	34 (65%)	35 (67%)	5 (10%)
Thrombosis Ulcer	1 (2%)			2 (4%)	1 (2%) 2 (4%)	
Artery, Inflammation, Chronic Active				1 (2%)	2 (470)	
Cervix, Cyst					1 (2%)	
Endometrium, Hyperplasia, Cystic	28 (54%)	27 (52%)	22 (42%)	23 (44%)	13 (25%)	9 (18%)
Epithelium, Hyperplasia Vagina	(7)	(0)	(0)	(1)	1 (2%) (1)	(0)
vagina	(7)	(0)	(0)	(1)	(1)	(0)
IEMATOPOIETIC SYSTEM						
Bone Marrow	(52)	(52)	(52)	(52)	(52)	(52)
Atrophy Hyperplasia	4 (8%) 31 (60%)	1 (2%) 30 (58%)	1 (2%) 30 (58%)	32 (62%)	1 (2%) 34 (65%)	47 (90%)
Myelofibrosis	31 (60%)	30 (38%)	30 (58%) 1 (2%)	32 (62%)	34 (05%)	47 (90%)
Necrosis			(270)			1 (2%)
Lymph Node	(0)	(2)	(1)	(1)	(0)	(2)
Bronchial, Ectasia						1 (50%)
Bronchial, Hemorrhage		4 (500()				1 (50%)
Mediastinal, Hemorrhage	(51)	1 (50%)	(50)	(51)	(52)	(54)
Lymph Node, Mandibular Atrophy	(51)	(51)	(52)	(51)	(52) 1 (2%)	(51) 1 (2%)
Hyperplasia, Lymphoid			1 (2%)	1 (2%)	1 (2%)	1 (2%)
Hyperplasia, Plasma Cell	24 (47%)	34 (67%)	36 (69%)	33 (65%)	30 (58%)	19 (37%)
Lymph Node, Mesenteric	(52)	(51)	(52)	(52)	(52)	(47)
Atrophy	1 (2%)	1 (2%)			1 (2%)	
Ectasia						1 (2%)
Hemorrhage	4 (22())				1 (2%)	
Hyperplasia, Plasma Cell	1 (2%) (52)	(50)	(50)	(52)	(52)	(47)
Spleen Hematopoietic Cell Proliferation	42 (81%)	(52) 39 (75%)	(52) 39 (75%)	(52) 39 (75%)	(52) 32 (62%)	(47) 34 (72%)
Hemorrhage	1 (2%)	33 (1378)	33 (1370)	33 (1370)	52 (6270)	54 (1270)
Necrosis	1 (2%)			1 (2%)		
Pigmentation	39 (75%)	35 (67%)	31 (60%)	36 (69%)	40 (77%)	28 (60%)
Capsule, Hemorrhage				1 (2%)		
Lymphoid Follicle, Atrophy	3 (6%)	4 (8%)	2 (4%)	2 (4%)	3 (6%)	3 (6%)
Red Pulp, Atrophy	(= 1)	2 (4%)	2 (4%)	1 (2%)	1 (2%)	3 (6%)
Thymus	(51)	(51)	(51)	(50)	(50)	(49)
Atrophy Cyst	41 (80%)	38 (75%) 2 (4%)	44 (86%) 1 (2%)	44 (88%)	46 (92%)	44 (90%)
Hemorrhage		2 (4%) 1 (2%)	1 (2%)		1 (2%)	3 (6%)
Inflammation		1 (2%)	1 (270)		· (2/0)	0 (070)
Artery, Inflammation, Chronic Active		. (270)				2 (4%)

Test Type: CHRONIC

Route: GAVAGE

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P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

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SPRAGUE-DAWLEY RATS FEMALE	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG
INTEGUMENTARY SYSTEM						
Mammary Gland Cyst Hyperplasia Inflammation, Granulomatous Inflammation, Chronic Active	(52) 1 (2%) 4 (8%)	(51) 2 (4%) 5 (10%) 1 (2%)	(52) 4 (8%) 2 (4%)	(52) 2 (4%) 5 (10%) 1 (2%)	(52)	(50) 1 (2%)
Skin Cyst Epithelial Inclusion Hyperkeratosis Hyperplasia, Squamous Inflammation	(52)	(51) 1 (2%) 2 (4%) 3 (6%)	(52) 1 (2%)	(52) 1 (2%)	(52)	(51)
MUSCULOSKELETAL SYSTEM						
Bone	(52)	(52)	(52)	(52)	(52)	(52)
Fracture Skeletal Muscle	(0)	(1)	(0)	(0)	(1)	(0)
NERVOUS SYSTEM						
Brain Angiectasis	(52)	(52)	(52) 1 (2%)	(52)	(52)	(52)
Gliosis Hemorrhage Hydrocephalus Necrosis	1 (2%) 3 (6%) 1 (2%) 2 (4%)	2 (4%)	1 (2%)	1 (2%) 1 (2%)		
Vacuolization Cytoplasmic Meninges, Inflammation Spinal Cord Nerve, Degeneration	(0)	1 (2%) (0)	(1)	1 (2%) (0)	(0)	(1) 1 (100%)
RESPIRATORY SYSTEM						
Lung Congestion	(51)	(52)	(52)	(52)	(52) 1 (2%)	(50)
Hemorrhage Inflammation Metaplasia, Squamous	5 (10%) 1 (2%)	3 (6%)	5 (10%)	1 (2%) 3 (6%) 1 (2%)	2 (4%) 1 (2%)	1 (2%) 2 (4%) 13 (26%)
Pigmentation Proteinosis Alveolar Epithelium, Hyperplasia	1 (2%) 4 (8%)	2 (4%)	1 (2%)			1 (2%)
Alveolar Epithelium, Metaplasia, Bronchiolar	6 (12%)	7 (13%)	14 (27%)	18 (35%)	24 (46%)	40 (80%)

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SPRAGUE-DAWLEY RATS FEMALE	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG
Alveolus, Infiltration Cellular, Histiocyte Artery, Mediastinum, Inflammation, Chronic	36 (71%)	35 (67%)	37 (71%)	39 (75%)	34 (65%)	40 (80%) 1 (2%)
Active Serosa, Inflammation		1 (2%)				
Nose	(52)	(52)	(52)	(52)	(52)	(52)
Cyst Inflammation	1 (2%) 1 (2%)	5 (10%)	5 (10%)	3 (6%)	5 (10%)	23 (44%)
Glands, Cyst	(),	(),		((),	
Nasolacrimal Duct, Inflammation, Suppurative Olfactory Epithelium, Degeneration Olfactory Epithelium, Metaplasia	1 (2%)	1 (2%)				1 (2%) 1 (2%) 1 (2%)
Respiratory Epithelium, Degeneration, Focal Respiratory Epithelium, Hyperplasia Respiratory Epithelium, Metaplasia,	1 (2%) 5 (10%)	5 (10%)	7 (13%)	7 (13%)	14 (27%)	27 (52%)
Squamous Respiratory Epithelium, Necrosis Trachea Inflammation	(51)	(52)	(52)	1 (2%) (52)	(52)	(52) 1 (2%)
SPECIAL SENSES SYSTEM						
Eye Cornea, Inflammation	(52) 1 (2%)	(52) 1 (2%)	(52) 1 (2%)	(52) 1 (2%)	(52)	(52)
Retina, Atrophy	1 (2%)	1 (270)	1 (270)	1 (270)	1 (2%)	6 (12%)
Harderian Gland	(52)	(52)	(52)	(52)	(52)	(52)
Hyperplasia Infiltration Cellular, Mononuclear Cell Vacuolization Cytoplasmic	7 (13%)	1 (2%) 10 (19%)	2 (4%) 3 (6%)	10 (19%)	4 (8%) 1 (2%)	13 (25%)
URINARY SYSTEM						
Kidney Accumulation, Hyaline Droplet	(52) 1 (2%)	(52)	(52) 1 (2%)	(52)	(52)	(50)
Amyloid Deposition Calculus Micro Observation Only	3 (6%)	- (2 (4%)	1 (2%)	
Cyst Dilatation		2 (4%)		1 (2%)		1 (2%)
Inflammation				1 (270)	1 (2%)	
Mineralization	25 (48%)	28 (54%)	30 (58%)	18 (35%)	22 (42%)	25 (50%)
Necrosis Nephropathy Pigmentation Artery, Inflammation, Chronic Active Capsule, Inflammation, Chronic Active	42 (81%) 2 (4%) 1 (2%)	40 (77%) 3 (6%)	1 (2%) 46 (88%) 3 (6%)	44 (85%) 4 (8%)	44 (85%) 6 (12%) 1 (2%) 1 (2%)	46 (92%) 42 (84%)

Test Type: CHRONIC

Species/Strain: RATS/SD

Route: GAVAGE

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

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SPRAGUE-DAWLEY RATS FEMALE	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG
Pelvis, Dilatation Pelvis, Inflammation		1 (2%) 1 (2%)		1 (2%)	1 (2%) 2 (4%)	2 (4%)
Renal Tubule, Hyperplasia Transitional Epithelium, Hyperplasia				1 (2%)	3 (6%)	3 (6%)
Ureter Cyst	(0)	(0)	(0)	(0)	(1)	(0)
Urinary Bladder	(52)	(52)	(52)	(52)	(52)	(50)
Hyperplasia Inflammation		1 (2%) 1 (2%)			1 (2%)	

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

TEF evaluation (PCB 118) CAS Number: 31508-00-6

Date Report Requested: 06/26/2008 Time Report Requested: 12:05:16 First Dose M/F: NA / 03/26/04 Lab: BAT

SPRAGUE-DAWLEY RATS FEMALE	4600 UG/KG STOP		
Disposition Summary			
Animals Initially in Study	50		
Early Deaths			
Accidently Killed	1		
Dosing Accident			
Moribund Sacrifice	18		
Natural Death	6		
Survivors			
Moribund Sacrifice	1		
Terminal Sacrifice	24		
Animals Examined Microscopically	50		

ALIMENTARY SYSTEM

Esophagus Ulcer	(50)
Muscularis, Degeneration Muscularis, Inflammation Intestine Large, Cecum Degeneration, Fatty Inflammation Ulcer	1 (2%) (49)
Artery, Inflammation, Chronic Active	2 (4%)
Intestine Large, Colon	(49)
Parasite Metazoan	1 (2%)
Artery, Inflammation, Chronic Active Intestine Large, Rectum	2 (4%) (49)
Inflammation	(43)
Parasite Metazoan	2 (4%)
Artery, Inflammation, Chronic Active	5 (10%)
Intestine Small, Duodenum	(49)
Inflammation Ulcer	
Intestine Small, Ileum	(49)
Artery, Inflammation, Chronic Active	(40)
Intestine Small, Jejunum	(49)
Inflammation, Chronic Active	
Artery, Inflammation, Chronic Active	(40)
	(49)
Angiectasis Basophilic Focus	1 (2%) 5 (10%)
Basophilic Focus, Multiple	4 (8%)
	()

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

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SPRAGUE-DAWLEY RATS FEMALE	4600 UG/KG STOP	
Cholangiofibrosis	10 (20%)	
Clear Cell Focus	3 (6%)	
Clear Cell Focus, Multiple	10 (20%)	
Degeneration, Cystic	4 (8%)	
Eosinophilic Focus	7 (14%)	
Eosinophilic Focus, Multiple	13 (27%)	
Fatty Change, Focal	9 (18%)	
Fatty Change, Diffuse	8 (16%)	
Hematopoietic Cell Proliferation	31 (63%)	
Hepatodiaphragmatic Nodule	1 (2%)	
Hyperplasia, Nodular	4 (8%)	
Inflammation	47 (96%)	
Mixed Cell Focus	2 (4%)	
Mixed Cell Focus, Multiple	34 (69%)	
Necrosis	14 (29%)	
Pigmentation	43 (88%)	
Toxic Hepatopathy	36 (73%)	
Bile Duct, Cyst	14 (29%)	
Bile Duct, Fibrosis	7 (14%)	
Bile Duct, Hyperplasia	25 (51%)	
Capsule, Inflammation		
Centrilobular, Degeneration	2 (4%)	
Hepatocyte, Hypertrophy	30 (61%)	
Hepatocyte, Multinucleated	32 (65%)	
Oval Cell, Hyperplasia	29 (59%)	
Mesentery	(9)	
Hemorrhage		
Artery, Inflammation, Chronic Active	5 (56%)	
Artery, Thrombosis		
Fat, Necrosis		
Oral Mucosa	(0)	
Gingival, Cyst		
Gingival, Hyperplasia, Squamous		
Pancreas	(49)	
Amyloid Deposition	1 (2%)	
Degeneration		
Inflammation, Chronic Active	4 (8%)	
Acinus, Atrophy, Focal	4 (8%)	
Acinus, Atrophy, Diffuse		
Acinus, Hyperplasia		
Acinus, Vacuolization Cytoplasmic	10 (20%)	
Artery, Inflammation, Chronic Active	5 (10%)	
Duct, Dilatation		
Duct, Inflammation		
Duct, Necrosis	()	
Salivary Glands	(50)	

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SPRAGUE-DAWLEY RATS FEMALE	4600 UG/KG STOP		
Degeneration			
Stomach, Forestomach	(49)		
Hyperplasia, Squamous	5 (10%)		
Inflammation	4 (8%)		
Ulcer	3 (6%)		
Artery, Inflammation, Chronic Active	1 (2%)		
Stomach, Glandular	(49)		
Cyst			
Erosion	2 (4%)		
Mineralization	1 (2%)		
Artery, Inflammation, Chronic Active			
Artery, Mineralization			
_ Glands, Cyst			
Tongue	(1)		
Degeneration	1 (100%)		
Tooth	(7)		
Peridontal Tissue, Inflammation	7 (100%)		
ARDIOVASCULAR SYSTEM			
Blood Vessel	(50)		
Aorta, Mineralization			
Heart	(50)		
liedit			
	19 (38%)		
Cardiomyopathy Inflammation	19 (38%)		
Cardiomyopathy Inflammation	19 (38%)		
Cardiomyopathy Inflammation Artery, Inflammation, Chronic Active	19 (38%)		
Cardiomyopathy Inflammation Artery, Inflammation, Chronic Active Artery, Mineralization	19 (38%)		
Cardiomyopathy Inflammation Artery, Inflammation, Chronic Active Artery, Mineralization Coronary Artery, Thrombosis Endocardium, Hyperplasia	19 (38%)		
Cardiomyopathy Inflammation Artery, Inflammation, Chronic Active Artery, Mineralization Coronary Artery, Thrombosis Endocardium, Hyperplasia Endocardium, Infiltration Cellular	19 (38%)		
Cardiomyopathy Inflammation Artery, Inflammation, Chronic Active Artery, Mineralization Coronary Artery, Thrombosis Endocardium, Hyperplasia Endocardium, Infiltration Cellular Epicardium, Fibrosis	19 (38%)		
Cardiomyopathy Inflammation Artery, Inflammation, Chronic Active Artery, Mineralization Coronary Artery, Thrombosis Endocardium, Hyperplasia Endocardium, Infiltration Cellular Epicardium, Fibrosis Epicardium, Inflammation	19 (38%)		
Cardiomyopathy Inflammation Artery, Inflammation, Chronic Active Artery, Mineralization Coronary Artery, Thrombosis Endocardium, Hyperplasia Endocardium, Infiltration Cellular Epicardium, Fibrosis	19 (38%)		

Adrenal Cortex	(49)
Angiectasis	
Atrophy	4 (8%)
Degeneration, Cystic	12 (24%)
Fibrosis	1 (2%)
Hematopoietic Cell Proliferation	
Hyperplasia	21 (43%)
Hypertrophy	38 (78%)

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4600 UG/KG STOP
4 (8%)
21 (43%)
(49)
16 (33%)
(10)
(49)
(49)
(43)
(50)
()
1 (2%)
10 (20%)
(50)
9 (18%)
0 (10/0)
12 (24%)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Clitoral Gland Hyperplasia, Squamous Inflammation	(48) 1 (2%) 29 (60%)
Duct, Cyst	28 (58%) (49)
Ovary Cyst	10 (20%)
Fibrosis Inflammation Pigmentation	1 (2%)
Bilateral, Cyst Uterus	(49)
Adenomyosis Cyst	
Hemorrhage Inflammation	2 (4%) 10 (20%)

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SPRAGUE-DAWLEY RATS FEMALE	4600 UG/KG STOP	
Metaplasia, Squamous Thrombosis Ulcer	23 (47%)	
Artery, Inflammation, Chronic Active Cervix, Cyst		
Endometrium, Hyperplasia, Cystic Epithelium, Hyperplasia	21 (43%)	
Vagina	(0)	
IEMATOPOIETIC SYSTEM		
Bone Marrow	(50)	
Atrophy Hyperplasia Myelofibrosis	43 (86%)	
Necrosis Lymph Node Bronchial, Ectasia Bronchial, Hemorrhage	(1)	
Mediastinal, Hemorrhage Lymph Node, Mandibular Atrophy	(50)	
Hyperplasia, Lymphoid Hyperplasia, Plasma Cell Lymph Node, Mesenteric	22 (44%) (49)	
Atrophy Ectasia	1 (2%)	
Hemorrhage Hyperplasia, Plasma Cell	2 (4%)	
Spleen	(49)	
Hematopoietic Cell Proliferation Hemorrhage Necrosis	43 (88%)	
Pigmentation Capsule, Hemorrhage	31 (63%)	
Lymphoid Follicle, Atrophy Red Pulp, Atrophy	1 (2%)	
Thymus Atrophy Cyst Hemorrhage	(50) 46 (92%)	
Inflammation Artery, Inflammation, Chronic Active		

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SPRAGUE-DAWLEY RATS FEMALE	4600 UG/KG STOP	
INTEGUMENTARY SYSTEM		
Mammary Gland Cyst Hyperplasia Inflammation, Granulomatous Inflammation, Chronic Active Skin Cyst Epithelial Inclusion Hyperkeratosis Hyperplasia, Squamous Inflammation	(50) 5 (10%) 4 (8%) 4 (8%) (50)	
MUSCULOSKELETAL SYSTEM		
Bone Fracture Skeletal Muscle	(50) 1 (2%) (2)	
NERVOUS SYSTEM		
Brain Angiectasis Gliosis	(50)	
Hemorrhage Hydrocephalus Necrosis	1 (2%)	
Vacuolization Cytoplasmic Meninges, Inflammation Spinal Cord Nerve, Degeneration	(0)	
RESPIRATORY SYSTEM		
Lung Congestion Hemorrhage	(50)	
Inflammation Metaplasia, Squamous Pigmentation Proteinosis	2 (4%)	
Alveolar Epithelium, Hyperplasia Alveolar Epithelium, Metaplasia, Bronchiolar	3 (6%) 32 (64%)	

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SPRAGUE-DAWLEY RATS FEMALE	4600 UG/KG STOP
Alveolus, Infiltration Cellular, Histiocyte	40 (80%)
Artery, Mediastinum, Inflammation, Chronic	40 (80 %)
Active	
Serosa, Inflammation	
Nose	(50)
Cyst	
Inflammation	8 (16%)
Glands, Cyst	1 (2%)
Nasolacrimal Duct, Inflammation, Suppurative	
Olfactory Epithelium, Degeneration Olfactory Epithelium, Metaplasia	1 (2%)
Respiratory Epithelium, Degeneration, Focal	T (276)
Respiratory Epithelium, Hyperplasia	11 (22%)
Respiratory Epithelium, Metaplasia,	1 (2%)
Squamous	. (_,,)
Respiratory Epithelium, Necrosis	
Trachea	(50)
Inflammation	
SPECIAL SENSES SYSTEM	
Eye	(50)
Cornea, Inflammation	(00)
Retina, Atrophy	
Harderian Gland	(50)
Hyperplasia	
Infiltration Cellular, Mononuclear Cell	11 (22%)
Vacuolization Cytoplasmic	
URINARY SYSTEM	
Kidney	(49)
Accumulation, Hyaline Droplet	2 (4%)
Amyloid Deposition	1 (2%)
Calculus Micro Observation Only	
Cyst	1 (2%)
Dilatation	
Inflammation	
Mineralization	28 (57%)
Necrosis Nephropathy	48 (98%)
Pigmentation	6 (12%)
Artery, Inflammation, Chronic Active	1 (2%)
Concula Inflormation, Chronic Active	(())

- Artery, Inflammation, Chronic Active Capsule, Inflammation, Chronic Active

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SPRAGUE-DAWLEY RATS FEMALE	4600 UG/KG STOP	
Pelvis, Dilatation	3 (6%)	
Pelvis, Inflammation	2 (4%)	
Renal Tubule, Hyperplasia	2 (478)	
Transitional Epithelium, Hyperplasia		
Ureter	(2)	
Cyst	2 (100%)	
Urinary Bladder		
	(49)	
Hyperplasia	1 (20/)	
Inflammation	1 (2%)	

*** END OF REPORT ***