TDMS No. 20304 - 01 Test Type: CHRONIC Route: GAVAGE Species/Strain: RATS/SD	AVE	N-NEOPLASTIC LESIONS BY ANATOMIC SITE (a RAGE SEVERITY GRADES[b] TEF evaluation (PCB 118) CAS Number: 31508-00-6 F1_R8	a) WITH	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	25020	) NATD
	25019 MSAC	25018 DACC		
Removal Date Range:	ALL			
Treatment Groups:	Include 001 0 UG/KG	Include 004 100 UG/KG	Incluc	le 005 220 UG/KG
	Include 006 460 UG/KG	Include 007 1000 UG/KG	Incluc	le 008 4600 UG/KG
	Include 009 4600 UG/KG STOP			
Study Gender:	Female			
TDMSE Version:	2.0.0			

IS No. 20304 - 01 : Type: CHRONIC te: GAVAGE cies/Strain: RATS/SD	P18: INCIDENCE RA	8: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b] TEF evaluation (PCB 118) CAS Number: 31508-00-6				Date Report Requested: 06/26/200 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/K0		
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		c .	Ŭ	C C	0			
Terminal Sacrifice Animals Examined Microscopically	21 52	20 52	25 52	30 52	28 52	25 52		
LIMENTARY SYSTEM Esophagus Ulcer	(51)	(52)	(52)	(52) 1 [2.0]	(52)	(52)		
Muscularis, Degeneration Muscularis, Inflammation Intestine Large, Cecum Degeneration, Fatty	(52)	3 [1.7] (51)	(51)	1 [3.0] (52)	1 [2.0] (52) 1 [3.0]	(48)		
Inflammation Ulcer			1 [2.0] 1 [2.0]	1 [3.0]				
Artery, Inflammation, Chronic Active Intestine Large, Colon Parasite Metazoan	(52) 1	(52)	(52)	1 [3.0] (52)	3 [2.3] (52) 1	1 [3.0] (48) 1		
Artery, Inflammation, Chronic Active Intestine Large, Rectum Inflammation	(52)	(52) 1 [2.0]	(52)	1 [3.0] (52)	3 [2.7] (52)	1 [2.0] (50)		
Parasite Metazoan Artery, Inflammation, Chronic Active	2 1 [3.0]	2	3	2 2 [2.5]	1 5 [2.8]	3 1 [3.0]		
Intestine Small, Duodenum Inflammation	(52)	(52)	(52)	(52)	(52) 1 [3.0]	(48)		
Ulcer Intestine Small, Ileum Artery, Inflammation, Chronic Active	(52)	(51)	(50)	(52)	1 [3.0] (52) 1 [2.0]	(47)		
Intestine Small, Jejunum Inflammation, Chronic Active	(52)	(52)	(50)	(52)	(52) 1 [3.0]	(48)		

# PLASTIC LESIONS BY ANATOMIC SITE (a) WITH

Date Report Requested: 06/26/2008

**SEVERITY GRADES[b]** valuation (PCB 118)

umber: 31508-00-6

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

TDMS No. 20304 - 01	P18: INCIDENCE RATES OF NON-NEOF
	AVERAGE S
Test Type: CHRONIC	TEF eva
Route: GAVAGE	CAS Nu

Species/Strain: RATS/SD

SPRAGUE-DAWLEY RATS FEMALE	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG
Artery, Inflammation, Chronic Active					1 [2.0]	
Liver	(52)	(51)	(52)	(52)	(52)	(49)
Angiectasis		1 [3.0]	1 [2.0]	2 [2.5]		2 [2.0]
Basophilic Focus	11	5	8	4	8	1
Basophilic Focus, Multiple	4	2	3	2	1	
Cholangiofibrosis		2 [1.0]	2 [1.5]	3 [1.7]	2 [1.5]	22 [2.5]
Clear Cell Focus	6	3	4	5	2	
Clear Cell Focus, Multiple	9	7	3	9	3	
Degeneration, Cystic	1 [1.0]		1 [1.0]		1 [1.0]	2 [1.0]
Eosinophilic Focus	5	5	4	4	5	
Eosinophilic Focus, Multiple		3	5	11	20	41
Fatty Change, Focal	2 [1.0]	1 [1.0]	6 [1.0]	4 [1.0]	3 [1.7]	
Fatty Change, Diffuse	1 [1.0]	2 [1.5]	1 [1.0]	9 [1.7]	39 [2.0]	48 [2.5]
Hematopoietic Cell Proliferation	19 [1.0]	20 [1.0]	21 [1.0]	28 [1.0]	19 [1.1]	21 [1.0]
Hepatodiaphragmatic Nodule		1	2	1		r - 1
Hyperplasia, Nodular					12	43
Inflammation	21 [1.0]	30 [1.0]	35 [1.1]	36 [1.1]	43 [1.3]	44 [1.3]
Mixed Cell Focus	6	5	7	6	1	1
Mixed Cell Focus, Multiple	15	14	22	30	30	6
Necrosis	1 [1.0]	2 [3.0]	1 [1.0]	2 [2.5]	20 [1.5]	22 [1.7]
Pigmentation	1 [1.0]	5 [1.2]	12 [1.3]	41 [1.4]	50 [2.2]	48 [1.7]
Toxic Hepatopathy	. []	0 []	3 [1.0]	14 [1.0]	33 [1.4]	46 [3.4]
Bile Duct, Cyst	2 [2.5]	3 [2.3]	5 [2.8]	6 [2.3]	6 [2.2]	21 [2.1]
Bile Duct, Fibrosis	2 [1.5]	1 [2.0]	0 [2:0]	3 [1.0]	2 [1.0]	[]
Bile Duct, Hyperplasia	5 [1.0]	6 [1.2]	7 [1.3]	8 [1.4]	21 [1.5]	40 [1.9]
Capsule, Inflammation	1 [2.0]	0[112]	, []	0[11]	21[110]	10 [ 110]
Centrilobular, Degeneration	1 [2.0]	2 [1.5]	4 [1.3]	3 [1.0]	6 [1.7]	1 [3.0]
Hepatocyte, Hypertrophy	· [=:0]	12 [1.3]	15 [1.6]	20 [1.6]	44 [2.0]	48 [3.5]
Hepatocyte, Multinucleated		1 [1.0]	3 [1.0]	21 [1.2]	40 [1.3]	43 [1.7]
Oval Cell, Hyperplasia		12 [1.1]	9 [1.2]	29 [1.2]	40 [1.6]	46 [3.0]
Vesentery	(2)	(1)	(3)	(3)	(9)	(9)
Hemorrhage	(2)	(1)	(0)	1 [3.0]	(3)	(5)
Artery, Inflammation, Chronic Active	1 [3.0]			2 [3.0]	5 [3.4]	8 [3.0]
Artery, Thrombosis	1 [0:0]			2 [0:0]	0 [0]	1 [3.0]
Fat, Necrosis					1 [3.0]	1 [3.0]
Oral Mucosa	(1)	(0)	(1)	(1)	(1)	(3)
Gingival, Cyst	(1)	(0)	(1)	(1)	(1)	1 [3.0]
Gingival, Hyperplasia, Squamous				1 [3.0]	1 [3.0]	1 [0.0]
Pancreas	(52)	(52)	(52)	(52)	(52)	(47)
Amyloid Deposition	(32)	(52)	(32)	(32)	(32)	(47)

TDMS No. 20304 - 01 Test Type: CHRONIC

Species/Strain: RATS/SD

Route: GAVAGE

## P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH

Date Report Requested: 06/26/2008

AVERAGE SEVERITY GRADES[b] TEF evaluation (PCB 118)

**CAS Number:** 31508-00-6

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/KG
Degeneration	1 [2.0]	4 (2, 2)	0.14.01			0 10 01
Inflammation, Chronic Active Acinus, Atrophy, Focal Acinus, Atrophy, Diffuse	4 [1.3]	1 [2.0] 2 [1.5]	2 [1.0] 3 [1.3]	2 [1.0] 4 [1.3]	3 [1.0] 3 [2.0]	2 [2.0] 1 [1.0] 1 [3.0]
Acinus, Hyperplasia Acinus, Vacuolization Cytoplasmic		2 [2.0]			1 [2.0] 4 [1.0]	42 [2.2]
Artery, Inflammation, Chronic Active Duct, Dilatation Duct, Inflammation	1 [3.0]	2 [2.0]	1 [2.0]	7 [2.4]	4 [1.0] 7 [2.4]	12 [2.1] 3 [4.0] 2 [3.0]
Duct, Necrosis Salivary Glands	(51)	(51)	(52)	(51)	(52)	1 [3.0] (51)
Degeneration Stomach, Forestomach Hyperplasia, Squamous Inflammation	(52) 2 [2.5]	(52) 3 [2.7] 1 [2.0]	(52)	(52)	1 [2.0] (52) 2 [1.5]	(51) 3 [1.7] 1 [2.0]
Ulcer Artery, Inflammation, Chronic Active Stomach, Glandular	2 [2.5] (52)	(52)	(52)	(52)	1 [2.0] (52)	1 [3.0] (51)
Cyst Erosion Mineralization	1 [2.0]	1 [2.0]	()	1 [1.0]	1 [1.0]	()
Artery, Inflammation, Chronic Active Artery, Mineralization Glands, Cyst		1 [1.0]	1 [1.0]		. []	1 [2.0]
Tongue Degeneration	(0)	(0)	(0)	(0)	(0)	(0)
Tooth Peridontal Tissue, Inflammation	(10) 7 [2.1]	(5) 5 [2.2]	(5) 5 [2.6]	(5) 5 [2.0]	(4) 4 [2.5]	(7) 6 [1.8]
CARDIOVASCULAR SYSTEM						
Blood Vessel	(52)	(52)	(52)	(52)	(52)	(51)
Aorta, Mineralization Heart Cardiomyopathy Inflammation	(52) 13 [1.0]	1 [1.0] (52) 19 [1.2]	(52) 14 [1.1]	(52) 16 [1.2]	(52) 19 [1.2] 1 [2.0]	(50) 16 [1.1] 1 [1.0]
Artery, Inflammation, Chronic Active Artery, Mineralization Coronary Artery, Thrombosis		1 [1.0] 1 [2.0]	1 [1.0]	1 [1.0]	1 [2.0]	1 [2.0] 1 [2.0]

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

### Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

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/KG
Endocardium, Hyperplasia		1 [2.0]			1 [1.0]	2 [1.5]
Endocardium, Infiltration Cellular Epicardium, Fibrosis		1 [1.0]				1 [3.0]
Epicardium, Inflammation Myocardium, Mineralization		1 [3.0] 1 [1.0]				1 [3.0]
ENDOCRINE SYSTEM						
Adrenal Cortex Angiectasis	(52)	(52)	(52)	(51) 1 [3.0]	(52)	(49)
Atrophy Degeneration, Cystic Fibrosis	1 [2.0] 9 [2.1]	8 [2.1]	9 [2.1]	2 [2.0] 12 [2.4]	9 [2.3] 6 [2.3]	35 [2.5] 8 [2.5]
Hematopoietic Cell Proliferation Hyperplasia Hypertrophy Inflammation	1 [1.0] 14 [2.1] 37 [1.7]	18 [2.2] 37 [1.8]	13 [2.3] 39 [1.8] 1 [2.0]	16 [2.4] 43 [1.7]	1 [1.0] 13 [2.0] 44 [1.6]	13 [2.5] 34 [1.7]
Necrosis Vacuolization Cytoplasmic Adrenal Medulla Hyperplasia	10 [1.4] (52) 11 [1.7]	1 [2.0] 12 [1.4] (52) 12 [1.8]	2 [3.0] 13 [1.5] (52) 14 [1.4]	12 [1.6] (52) 16 [1.8]	3 [2.7] 12 [1.4] (52) 10 [1.4]	18 [1.8] (49) 1 [1.0]
Necrosis Islets, Pancreatic	(52)	(52)	(52)	(52)	1 [3.0] (52)	(47)
Hyperplasia Parathyroid Gland Hyperplasia	(47)	1 [3.0] (46) 1 [3.0]	(47)	(50)	(50)	(47)
Pituitary Gland Angiectasis Cyst	(52) 1 [3.0]	(52) 1 [1.0] 1 [2.0]	(52)	(52)	(52) 1 [3.0]	(52)
Vacuolization Cytoplasmic Pars Distalis, Cyst Pars Distalis, Hyperplasia Thyroid Gland Infiltration Cellular, Lymphocyte	10 [2.0] (51)	6 [2.2] (51)	13 [2.1] (51)	13 [1.9] (51)	1 [2.0] 16 [2.5] (52)	10 [2.0] (49)
Inflammation C-cell, Hyperplasia	1 [1.0] 10 [1.6]	14 [2.0]	10 [1.8]	6 [2.3]	1 [2.0] 12 [2.0]	1 [3.0] 11 [2.5]
Follicular Cell, Hyperplasia Follicular Cell, Hypertrophy	6 [1.5]	7 [1.9]	13 [1.6]	18 [1.4]	1 [3.0] 21 [1.8]	23 [2.0]

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

DMS No. 20304 - 01 est Type: CHRONIC bute: GAVAGE becies/Strain: RATS/SD	P18: INCIDENCE RA	Date Report Requested: 06/26/ Time Report Requested: 12:05 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/KG
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Clitoral Gland	(52)	(52)	(51)	(52)	(51)	(49)
Hyperplasia, Squamous Inflammation Duct, Cyst Ovary Cyst Fibrosis	41 [1.6] 26 [2.0] (52) 8 [2.5]	38 [1.8] 39 [2.0] (52) 10 [2.0]	1 [3.0] 39 [1.7] 31 [1.9] (52) 13 [2.3]	40 [1.5] 35 [2.2] (52) 14 [2.2] 1 [3.0]	35 [1.2] 37 [2.2] (52) 14 [2.4]	13 [1.2] 30 [1.9] (48) 7 [2.3]
Inflammation Pigmentation Bilateral, Cyst			1 [4.0]	2 [3.5] 1 [3.0]	1 [3.0]	2 [3.5]
Uterus Adenomyosis Cyst	(52)	(52)	(52) 1 [3.0]	(52) 1 [2.0] 1 [3.0]	(52)	(49) 1 [4.0] 1 [3.0]
Hemorrhage Inflammation Metaplasia, Squamous Thrombosis Ulcer	4 [1.8] 29 [1.9] 1 [1.0]	6 [2.0] 26 [1.7]	6 [2.3] 27 [2.0]	8 [2.3] 34 [1.8] 2 [2.5]	1 [2.0] 8 [2.1] 35 [2.3] 1 [3.0] 2 [2.0]	1 [2.0] 4 [2.8] 5 [1.4]
Artery, Inflammation, Chronic Active Cervix, Cyst Endometrium, Hyperplasia, Cystic	28 [1.6]	27 [1.7]	22 [1.5]	1 [3.0] 23 [2.0]	1 [2.0] 13 [1.6]	9 [2.0]
Epithelium, Hyperplasia Vagina	(7)	(0)	(0)	(1)	1 [2.0] (1)	(0)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(52)	(52)	(52)	(52)	(52)	(52)
Atrophy Hyperplasia Myelofibrosis	4 [2.5] 31 [3.0]	1 [2.0] 30 [2.8]	1 [2.0] 30 [3.1] 1 [1.0]	32 [2.7]	1 [2.0] 34 [2.6]	47 [3.0]
Necrosis Lymph Node Bronchial, Ectasia	(0)	(2)	(1)	(1)	(0)	1 [3.0] (2) 1 [2.0]

## N-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH

Date Report Requested: 06/26/2008

RAGE SEVERITY GRADES[b] TEF evaluation (PCB 118)

CAS Number: 31508-00-6

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

TDMS No. 20304 - 01	P18: INCIDENCE RATES OF NON
	AVER
Test Type: CHRONIC	TE

Route: GAVAGE

Species/Strain: RATS/SD

SPRAGUE-DAWLEY RATS FEMALE	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG
Bronchial, Hemorrhage						1 [1.0]
Mediastinal, Hemorrhage		1 [2.0]				
Lymph Node, Mandibular	(51)	(51)	(52)	(51)	(52)	(51)
Atrophy			( [0, 0]		1 [3.0]	1 [4.0]
Hyperplasia, Lymphoid		0 4 5 4 01	1 [2.0]	1 [2.0]	1 [2.0]	1 [3.0]
Hyperplasia, Plasma Cell	24 [2.0]	34 [1.8]	36 [1.6]	33 [1.7]	30 [1.9]	19 [1.7]
Lymph Node, Mesenteric	(52)	(51)	(52)	(52)	(52)	(47)
Atrophy	1 [3.0]	1 [2.0]			1 [3.0]	4 [0 0]
Ectasia					4 [0, 0]	1 [2.0]
Hemorrhage	4 [0, 0]				1 [3.0]	
Hyperplasia, Plasma Cell	1 [2.0]	(50)	(50)	(50)	(50)	(47)
Spleen	(52)	(52)	(52)	(52)	(52)	(47)
Hematopoietic Cell Proliferation	42 [2.0]	39 [2.0]	39 [1.9]	39 [1.7]	32 [1.7]	34 [1.6]
Hemorrhage	1 [3.0]			4 10 01		
Necrosis	1 [3.0]		04 [4 0]	1 [2.0]	40 (0.0)	00 [4 0]
Pigmentation	39 [1.8]	35 [1.7]	31 [1.6]	36 [1.5]	40 [2.0]	28 [1.6]
Capsule, Hemorrhage	0.10.01			1 [3.0]	0 (0 7)	0 10 01
Lymphoid Follicle, Atrophy	3 [2.0]	4 [2.5]	2 [1.5]	2 [2.0]	3 [2.7]	3 [2.0]
Red Pulp, Atrophy	(54)	2 [3.0]	2 [1.5]	1 [2.0]	1 [2.0]	3 [2.0]
Thymus	(51)	(51)	(51)	(50)	(50)	(49)
Atrophy	41 [2.6]	38 [2.7]	44 [2.6]	44 [2.8]	46 [3.0]	44 [3.3]
Cyst		2 [3.0]	1 [2.0]		1 [2 0]	2 [0 0]
Hemorrhage Inflammation		1 [3.0]	1 [3.0]		1 [2.0]	3 [2.0]
		1 [2.0]				2 [0 2] 2
Artery, Inflammation, Chronic Active						2 [3.0]
INTEGUMENTARY SYSTEM						
Mammary Gland	(52)	(51)	(52)	(52)	(52)	(50)
Cyst	1 [2.0]	2 [3.0]		2 [3.0]		
Hyperplasia	4 [2.0]	5 [1.6]	4 [1.3]	5 [1.4]		1 [2.0]
Inflammation, Granulomatous			2 [3.0]	1 [3.0]		
Inflammation, Chronic Active		1 [3.0]				
Skin	(52)	(51)	(52)	(52)	(52)	(51)
Cyst Epithelial Inclusion			1	1		
Hyperkeratosis		1 [2.0]				
Hyperplasia, Squamous		2 [2.0]				
Inflammation		3 [2.7]				

DMS No. 20304 - 01 est Type: CHRONIC bute: GAVAGE becies/Strain: RATS/SD	P18: INCIDENCE RA	ITH Date Report Requested: 06/26 Time Report Requested: 12:03 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/KG
MUSCULOSKELETAL SYSTEM						
Bone	(52)	(52)	(52)	(52)	(52)	(52)
Fracture Skeletal Muscle	(0)	(1)	(0)	(0)	(1)	(0)
NERVOUS SYSTEM						
Brain Angiectasis Gliosis	(52) 1 [2.0]	(52)	(52) 1 [1.0]	(52) 1 [3.0]	(52)	(52)
Hemorrhage Hydrocephalus Necrosis	3 [2.0] 1 [2.0] 2 [3.0]	2 [1.5]	1 [1.0]	1 [2.0]		
Vacuolization Cytoplasmic Meninges, Inflammation Spinal Cord		1 [3.0]	(1)	1 [2.0]	(0)	(1)
Nerve, Degeneration	(0)	(0)	(1)	(0)	(0)	(1) 1 [3.0]
RESPIRATORY SYSTEM						
Lung Congestion	(51)	(52)	(52)	(52)	(52) 1 [3.0]	(50)
Hemorrhage Inflammation Metaplasia, Squamous	5 [1.0] 1 [1.0]	3 [1.7]	5 [1.4]	1 [2.0] 3 [1.0] 1 [1.0]	2 [3.0] 1 [1.0]	1 [2.0] 2 [1.5] 13 [2.2]
Pigmentation Proteinosis	1 [1.0]	0.14.01	1 [1.0]			1 [1.0]
Alveolar Epithelium, Hyperplasia Alveolar Epithelium, Metaplasia, Bronchiolar	4 [1.5] 6 [1.2]	2 [1.0] 7 [1.4]	14 [1.3]	18 [1.4]	24 [1.4]	40 [2.0]
Alveolus, Infiltration Cellular, Histiocyte Artery, Mediastinum, Inflammation, Chronic Active	36 [1.8]	35 [1.7]	37 [1.6]	39 [1.6]	34 [1.6]	40 [1.5] 1 [2.0]
Serosa, Inflammation Nose	(52)	1 [3.0] (52)	(52)	(52)	(52)	(52)
Cyst Inflammation Glands, Cyst	1 [2.0] 1 [2.0]	5 [2.0]	5 [1.8]	3 [1.7]	5 [1.6]	23 [1.7]

### P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH

Date Report Requested: 06/26/2008

AVERAGE SEVERITY GRADES[b] TEF evaluation (PCB 118)

**CAS Number:** 31508-00-6

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

TDMS No. 20304 - 01	P18: INCI

# Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

SPRAGUE-DAWLEY RATS FEMALE	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG
Nasolacrimal Duct, Inflammation,						1 [3.0]
Suppurative Olfactory Epithelium, Degeneration Olfactory Epithelium, Metaplasia	1 [2.0]	1 [3.0]				1 [2.0] 1 [2.0]
Respiratory Epithelium, Degeneration, Focal	1 [2.0]					
Respiratory Epithelium, Hyperplasia Respiratory Epithelium, Metaplasia, Squamous	5 [1.2]	5 [1.4]	7 [1.4]	7 [1.3]	14 [1.1]	27 [1.3]
Respiratory Epithelium, Necrosis Trachea Inflammation	(51)	(52)	(52)	1 [2.0] (52)	(52)	(52) 1 [1.0]
SPECIAL SENSES SYSTEM						
Eye Cornea, Inflammation	(52) 1 [3.0]	(52) 1 [1.0]	(52) 1 [3.0]	(52) 1 [3.0]	(52)	(52)
Retina, Atrophy Harderian Gland	1 [2.0] (52)	(52)	(52)	(52)	1 [2.0] (52)	6 [2.0] (52)
Hyperplasia		1 [1.0]	2 [2.0]			
Infiltration Cellular, Mononuclear Cell Vacuolization Cytoplasmic	7 [1.0]	10 [1.0]	3 [1.3]	10 [1.0]	4 [1.0] 1 [2.0]	13 [1.0]
URINARY SYSTEM						
Kidney Accumulation, Hyaline Droplet Amyloid Deposition	(52) 1 [2.0]	(52)	(52) 1 [1.0]	(52)	(52)	(50)
Calculus Micro Observation Only Cyst	3	2 [2.5]		2	1	1 [3.0]
Dilatation		2 [2.5]		1 [3.0]		1 [3.0]
Inflammation Mineralization	25 [1.0]	28 [1.1]	30 [1.1]	18 [1.1]	1 [2.0] 22 [1.0]	25 [1.0]
Necrosis Nephropathy	42 [1.5]	40 [1.6]	1 [3.0] 46 [1.3]	44 [1.6]	44 [1.7]	46 [2.2]
Pigmentation Artery, Inflammation, Chronic Active	2 [1.0] 1 [2.0]	3 [1.0]	3 [1.3]	4 [1.3]	6 [1.0] 1 [2.0]	42 [2.2]
Capsule, Inflammation, Chronic Active Pelvis, Dilatation		1 [2.0]		1 [3.0]	1 [2.0] 1 [2.0]	

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

<b>DMS No.</b> 20304 - 01 <b>est Type:</b> CHRONIC	P18: INCIDENCE RA	AVERAGE SEVE	STIC LESIONS BY AN ERITY GRADES[b] ion (PCB 118)	ATOMIC SITE (a) WITH	Date Report Req Time Report Req	uested: 06/26/2008
oute: GAVAGE pecies/Strain: RATS/SD			er: 31508-00-6		First Dose M/F: N Lab: BAT	
SPRAGUE-DAWLEY RATS FEMALE	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG
Pelvis, Inflammation Renal Tubule, Hyperplasia		1 [1.0]		1 [2.0]	2 [1.5]	2 [1.5]
Transitional Epithelium, Hyperplasia Ureter Cyst	(0)	(0)	(0)	(0)	3 [1.7] (1)	3 [2.3] (0)
Urinary Bladder Hyperplasia Inflammation	(52)	(52) 1 [2.0] 1 [2.0]	(52)	(52)	(52) 1 [3.0]	(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 Route: GAVAGE Species/Strain: RATS/SD

#### P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b] 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 Early Deaths	50		
Accidently Killed Dosing Accident	1		
Moribund Sacrifice	18		
Natural Death Survivors	6		
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 [2.0] (49)
Artery, Inflammation, Chronic Active Intestine Large, Colon Parasite Metazoan Artery, Inflammation, Chronic Active	2 [1.5] (49) 1 2 [3.0]
Intestine Large, Rectum Inflammation Parasite Metazoan Artery, Inflammation, Chronic Active	(49) 2 5 [2.8]
Intestine Small, Duodenum Inflammation Ulcer	(49)
Intestine Small, Ileum Artery, Inflammation, Chronic Active Intestine Small, Jejunum Inflammation, Chronic Active	(49) (49)

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

### Test Type: CHRONIC Route: GAVAGE Species/Strain: RATS/SD

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

PRAGUE-DAWLEY RATS FEMALE	4600 UG/KG STOP
Artery, Inflammation, Chronic Active	
iver	(49)
Angiectasis	1 [3.0]
Basophilic Focus	5
Basophilic Focus, Multiple	4
Cholangiofibrosis	10 [2.0]
Clear Cell Focus	3
Clear Cell Focus, Multiple	10
Degeneration, Cystic	4 [2.3]
Eosinophilic Focus	7
Eosinophilic Focus, Multiple	13
Fatty Change, Focal	9 [1.2]
Fatty Change, Diffuse	8 [1.8]
Hematopoietic Cell Proliferation	31 [1.1]
Hepatodiaphragmatic Nodule	1
Hyperplasia, Nodular	4
Inflammation	47 [1.1]
Mixed Cell Focus	2
Mixed Cell Focus, Multiple	34
Necrosis	14 [1.8]
Pigmentation	43 [1.4]
Toxic Hepatopathy	36 [1.7]
Bile Duct, Cyst	14 [2.3]
Bile Duct, Fibrosis	7 [1.1]
Bile Duct, Hyperplasia	25 [1.9]
Capsule, Inflammation	
Centrilobular, Degeneration	2 [2.5]
Hepatocyte, Hypertrophy	30 [2.0]
Hepatocyte, Multinucleated	32 [1.3]
Oval Cell, Hyperplasia	29 [1.7]
lesentery	(9)
Hemorrhage	
Artery, Inflammation, Chronic Active	5 [2.6]
Artery, Thrombosis	
Fat, Necrosis	
oral Mucosa	(0)
Gingival, Cyst	
Gingival, Hyperplasia, Squamous	
ancreas	(49)
Amyloid Deposition	1 [2.0]

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

Test Type: CHRONIC Route: GAVAGE Species/Strain: RATS/SD

#### P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b] TEF evaluation (PCB 118) CAS Number: 31508-00-6

First Dose M/F: NA / 03/26/04 Lab: BAT

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

SPRAGUE-DAWLEY RATS FEMALE	4600 UG/KG STOP
Degeneration	
Inflammation, Chronic Active	4 [1.3]
Acinus, Atrophy, Focal	4 [2.0]
Acinus, Atrophy, Diffuse	.[]
Acinus, Hyperplasia	
Acinus, Vacuolization Cytoplasmic	10 [1.0]
Artery, Inflammation, Chronic Active	5 [1.8]
Duct, Dilatation	
Duct, Inflammation	
Duct, Necrosis	
Salivary Glands	(50)
Degeneration	
Stomach, Forestomach	(49)
Hyperplasia, Squamous	5 [2.2]
Inflammation	4 [2.3]
Ulcer	3 [2.3]
Artery, Inflammation, Chronic Active	1 [3.0]
Stomach, Glandular	(49)
Cyst	2 [2 0]
Erosion	2 [2.0]
Mineralization	1 [1.0]
Artery, Inflammation, Chronic Active Artery, Mineralization	
Glands, Cyst	
Tongue	(1)
Degeneration	1 [2.0]
Tooth	(7)
Peridontal Tissue, Inflammation	7 [2.0]
	, [2:0]
ARDIOVASCULAR SYSTEM	
Blood Vessel	(50)

Blood Vessel	(50)
Aorta, Mineralization	
Heart	(50)
Cardiomyopathy	19 [1.1]
Inflammation	
Artery, Inflammation, Chronic Active	
Artery, Mineralization	
Coronary Artery, Thrombosis	

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

Test Type: CHRONIC Route: GAVAGE Species/Strain: RATS/SD

## P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b] 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	
Endocardium, Hyperplasia Endocardium, Infiltration Cellular Epicardium, Fibrosis Epicardium, Inflammation Myocardium, Mineralization		
NDOCRINE SYSTEM		
Adrenal Cortex	(49)	
Angiectasis		
Atrophy	4 [2.0]	
Degeneration, Cystic	12 [2.0]	
Fibrosis	1 [2.0]	
Hematopoietic Cell Proliferation	L - J	
Hyperplasia	21 [2.3]	
Hypertrophy	38 [1.7]	
Inflammation	00[11]	
Necrosis	4 [2.3]	
Vacuolization Cytoplasmic	21 [1.4]	
Adrenal Medulla	(49)	
Hyperplasia	16 [1.5]	
Necrosis	10[1.5]	
Islets, Pancreatic	(40)	
	(49)	
Hyperplasia Brasthursish Claud	(40)	
Parathyroid Gland	(49)	
Hyperplasia	(50)	
Pituitary Gland	(50)	
Angiectasis		
Cyst		
Vacuolization Cytoplasmic	1 [2.0]	
Pars Distalis, Cyst		
Pars Distalis, Hyperplasia	10 [2.2]	
Thyroid Gland	(50)	
Infiltration Cellular, Lymphocyte		
Inflammation		
C-cell, Hyperplasia	9 [1.8]	
Follicular Cell, Hyperplasia		

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

MS No. 20304 - 01 at Type: CHRONIC ute: GAVAGE ecies/Strain: RATS/SD	P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE AVERAGE SEVERITY GRADES[b] TEF evaluation (PCB 118) CAS Number: 31508-00-6	E (a) WITH Date Report Requested: 06/26/200 Time Report Requested: 12:05:16 First Dose M/F: NA / 03/26/04 Lab: BAT
SPRAGUE-DAWLEY RATS FEMALE	4600 UG/KG STOP	
GENERAL BODY SYSTEM		
None		
GENITAL SYSTEM		
Clitoral Gland Hyperplasia, Squamous Inflammation Duct, Cyst Ovary Cyst Fibrosis Inflammation Pigmentation Bilateral, Cyst Uterus Adenomyosis Cyst Hemorrhage Inflammation Metaplasia, Squamous Thrombosis Ulcer Artery, Inflammation, Chronic Active Cervix, Cyst Endometrium, Hyperplasia, Cystic Epithelium, Hyperplasia	(48) 1 [2.0] 29 [1.3] 28 [1.8] (49) 10 [2.5] 1 [3.0] (49) 2 [2.5] 10 [2.1] 23 [1.6] 21 [2.7]	
Vagina 	(0)	
HEMATOPOIETIC SYSTEM Bone Marrow	(50)	
Atrophy Hyperplasia Myelofibrosis Necrosis	43 [2.9]	
Lymph Node Bronchial, Ectasia	(1)	

Test Type: CHRONIC Route: GAVAGE Species/Strain: RATS/SD

# P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b] 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	
Bronchial, Hemorrhage		
Mediastinal, Hemorrhage		
Lymph Node, Mandibular	(50)	
Atrophy	(00)	
Hyperplasia, Lymphoid		
Hyperplasia, Plasma Cell	22 [1.7]	
Lymph Node, Mesenteric	(49)	
Atrophy	1 [3.0]	
Ectasia		
Hemorrhage	2 [2.0]	
Hyperplasia, Plasma Cell		
Spleen	(49)	
Hematopoietic Cell Proliferation	43 [2.1]	
Hemorrhage		
Necrosis		
Pigmentation	31 [1.9]	
Capsule, Hemorrhage	4 [0.0]	
Lymphoid Follicle, Atrophy	1 [2.0]	
Red Pulp, Atrophy	(50)	
Thymus Atrophy	(50) 46 [3.0]	
Cyst	40 [3:0]	
Hemorrhage		
Inflammation		
Artery, Inflammation, Chronic Active		
· · · · · · · · · · · · · · · · · · ·		
TEGUMENTARY SYSTEM		
Mammary Gland	(50)	

Mammary Gland	(50)
Cyst	5 [2.8]
Hyperplasia	4 [1.5]
Inflammation, Granulomatous	4 [2.0]
Inflammation, Chronic Active	
Skin	(50)
Cyst Epithelial Inclusion	
Hyperkeratosis	
Hyperplasia, Squamous	
Inflammation	

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

<b>TDMS No.</b> 20304 - 01	P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]		Date Report Requested: 06/26/2008	
Test Type: CHRONIC Route: GAVAGE Species/Strain: RATS/SD		TEF evaluation (PCB 118) CAS Number: 31508-00-6	Time Report Requested: 12:05:16 First Dose M/F: NA / 03/26/04 Lab: BAT	
SPRAGUE-DAWLEY RATS FEMALE	4600 UG/KG STOP			
MUSCULOSKELETAL SYSTEM				
Bone Fracture Skeletal Muscle	(50) 1 (2)			
NERVOUS SYSTEM				
Brain Angiectasis Gliosis	(50)			
Hemorrhage Hydrocephalus Necrosis Vacuolization Cytoplasmic Meninges, Inflammation	1 [2.0]			
Spinal Cord Nerve, Degeneration	(0)			
RESPIRATORY SYSTEM				
Lung Congestion	(50)			
Hemorrhage Inflammation Metaplasia, Squamous Pigmentation Proteinosis	2 [3.0]			
Alveolar Epithelium, Hyperplasia Alveolar Epithelium, Metaplasia, Bronchiolar	3 [1.7] 32 [1.8]			
Alveolus, Infiltration Cellular, Histiocyte Artery, Mediastinum, Inflammation, Chronic Active Serosa, Inflammation	40 [1.7]			
Nose	(50)			
Cyst Inflammation Glands, Cyst	8 [1.5] 1 [2.0]			

Test Type: CHRONIC Route: GAVAGE Species/Strain: RATS/SD

# P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b] 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		
Nasolacrimal Duct, Inflammation,			
Suppurative			
Olfactory Epithelium, Degeneration			
Olfactory Epithelium, Metaplasia	1 [3.0]		
Respiratory Epithelium, Degeneration,			
Focal			
Respiratory Epithelium, Hyperplasia	11 [1.2]		
Respiratory Epithelium, Metaplasia,	1 [2.0]		
Squamous			
Respiratory Epithelium, Necrosis	()		
Trachea	(50)		
Inflammation			
SPECIAL SENSES SYSTEM			
Eye	(50)		
Cornea, Inflammation	(30)		
Retina, Atrophy			
Harderian Gland	(50)		
Hyperplasia	(50)		
Infiltration Cellular, Mononuclear Cell	11 [1.0]		
Vacuolization Cytoplasmic	11 [1.0]		
JRINARY SYSTEM			
Kidney	(49)		
Accumulation, Hyaline Droplet	2 [2.5]		
Amyloid Deposition	1 [2.0]		
Calculus Micro Observation Only			
Cyst	1 [3.0]		
Dilatation			
Inflammation			
Mineralization	28 [1.0]		
Necrosis			
	48 [2.0]		
Nephropathy	[=]		
Pigmentation	6 [1.2]		
Pigmentation Artery, Inflammation, Chronic Active	6 [1.2] 1 [3.0]		
Pigmentation	6 [1.2]		

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

Test Type: CHRONIC Route: GAVAGE Species/Strain: RATS/SD

#### P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b] 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	
Pelvis, Inflammation Renal Tubule, Hyperplasia Transitional Epithelium, Hyperplasia	2 [1.0]	
Ureter	(2)	
Cyst	2 [2.0]	
Urinary Bladder Hyperplasia	(49)	
Inflammation	1 [2.0]	

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

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