Experiment Number: 20712 - 03	P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]	Date Report Requested: 09/18/2020
Test Type: Chronic PN	Tris(Chloropropyl)phosphate	Time Report Requested: 11:04:53
Route: DOSED FEED	CAS Number: 13674-84-5	First Dose M/F: 12/12/11 / 12/13/11
Species/Strain: RATS/HSD		Lab: BAT
	Final 3_Rats	

NTP Study Number:	C20712
Lock Date:	04/09/2018
Cage Range:	ALL
Date Range:	ALL
Reasons For Removal:	ALL
Removal Date Range:	ALL
Treatment Groups:	Include ALL
Study Gender:	Both
TDMSE Version:	3.0.2.3_002
PWG Approval Date:	NONE

Experiment Number: 20712 - 03	P18: INCIDENCE RAT	Date Report Requested: 09/18/202			
Test Type: Chronic PN		Tris(Chloropro	pyl)phosphate		Time Report Requested: 11:04:53
Route: DOSED FEED		CAS Numbe	r: 13674-84-5		First Dose M/F: 12/12/11 / 12/13/11
Species/Strain: RATS/HSD					Lab: BAT
Harlan Sprague Dawley RATS MALE	0 ppm males	2500 ppm males	5000 ppm males	10000 ppm males	20000 ppm males
Disposition Summary					
Animals Initially In Study	50	50	50	50	50
Early Deaths					
Moribund Sacrifice	15	8	8	5	8
Natural Death	10	8	8	8	11
Survivors					
Terminal Sacrifice	25	34	34	37	31
Animals Examined Microscopically	50	50	50	50	50
ALIMENTARY SYSTEM					
Esophagus	(50)	(50)	(50)	(50)	(50)
Intestine Large, Cecum	(49)	(50)	(50)	(48)	(49)
Erosion	1 [3.0]		1 [3.0]		
Infiltration Cellular, Lymphocyte					1 [2.0]
Inflammation, Suppurative	1 [2.0]				
Inflammation, Acute		1 [2.0]	1 [1.0]		
Inflammation, Chronic Active	1 [1.0]				
Mineral	1 [4.0]	2 [2.0]			
Polyarteritis Nodosa		2 [2.5]		1 [2.0]	
Lymphoid Tissue, Hyperplasia		1 [2.0]			
Intestine Large, Colon	(49)	(50)	(50)	(48)	(50)
Diverticulum			1		
Parasite Metazoan	3	1	1	2	1
Lymphoid Tissue, Hyperplasia	2 [2.5]	1 [3.0]	1 [3.0]	1 [2.0]	
Intestine Large, Rectum	(50)	(50)	(50)	(50)	(50)
Parasite Metazoan	7	5	6	7	2
Polyarteritis Nodosa	()	()	()	()	1 [3.0]
Intestine Small, Duodenum	(50)	(49)	(50)	(49)	(50)
Polyarteritis Nodosa	1 [3.0]		(==)		1 [3.0]
Intestine Small, Ileum	(49)	(50)	(50)	(48)	(49)
Intestine Small, Jejunum	(48)	(49)	(49)	(48)	(50)
Hyperplasia	2 [2.5]		(50)		(40)
	(50)	(50)	(50)	(50)	(49)
Angiectasis					1 [2.0]

Test Type: Chronic PN		Time Report Requested: 11:04:53			
Route: DOSED FEED		CAS Numbe	r: 13674-84-5		First Dose M/F: 12/12/11 / 12/13/17
Species/Strain: RATS/HSD					Lab: BAT
Harlan Sprague Dawley RATS MALE	0 ppm males	2500 ppm males	5000 ppm males	10000 ppm males	20000 ppm males
Basophilic Focus	1	1	2	9	11
Clear Cell Focus	26	31	33	36	35
Degeneration, Cystic		1 [1.0]		1 [1.0]	2 [1.0]
Eosinophilic Focus	3	5	3	5	13
Fatty Change	2 [1.5]		1 [1.0]	1 [1.0]	
Hepatodiaphragmatic Nodule			1	2	1
Inclusion Body Intracytoplasmic					1 [1.0]
Inflammation, Focal				1 [1.0]	
Mixed Cell Focus	1	2	4	1	8
Necrosis	3 [1.7]	4 [1.8]	5 [2.4]		1 [2.0]
Pigment				1 [1.0]	22 [1.1]
Polyarteritis Nodosa		1 [3.0]			
Regeneration					1 [2.0]
Thrombus					1
Bile Duct, Cyst	3		3	6	6
Bile Duct, Dilation	1 [3.0]	1 [4.0]	1 [2.0]		1 [4.0]
Bile Duct, Hyperplasia	12 [1.2]	23 [1.0]	17 [1.0]	19 [1.0]	29 [1.0]
Hepatocyte, Cytoplasmic Alteration			1 [1.0]	1 [3.0]	2 [2.5]
Hepatocyte, Pigment				2 [1.0]	
Oval Cell, Hyperplasia			1 [2.0]		
Mesentery	(4)	(0)	(3)	(0)	(1)
Hemorrhage	1 [3.0]				
Polyarteritis Nodosa	1 [3.0]		1 [3.0]		
Fat, Necrosis	1 [1.0]		1 [1.0]		
Pancreas	(50)	(50)	(50)	(50)	(50)
Cyst			1		
Inflammation, Chronic Active		1 [2.0]			
Polyarteritis Nodosa	5 [1.8]	4 [2.3]	1 [3.0]		
Acinus, Atrophy	5 [1.4]	2 [1.5]	3 [1.7]	3 [1.0]	
Acinus, Cytoplasmic Alteration					1 [3.0]
Acinus, Hyperplasia	8 [3.4]	12 [3.0]	8 [3.3]	11 [2.6]	12 [2.6]
Acinus, Inflammation, Chronic Active			1 [4.0]		
Duct, Degeneration			-		1 [2.0]
Salivary Glands	(50)	(50)	(50)	(50)	(49)
Inflammation, Suppurative		. ,	1 [4.0]	. *	1 [4.0]
Stomach, Forestomach	(50)	(50)	(50)	(50)	(50)

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 09/18/2020

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)

Experiment Number: 20712 - 03

Experiment Number: 20712 - 03	P18: INCIDENCE RAT	Date Report Requested: 09/18/2020			
Test Type: Chronic PN		Time Report Requested: 11:04:53			
Route: DOSED FEED		CAS Numbe	r: 13674-84-5		First Dose M/F: 12/12/11 / 12/13/11
Species/Strain: RATS/HSD					Lab: BAT
Harlan Sprague Dawley RATS MALE	0 ppm males	2500 ppm males	5000 ppm males	10000 ppm males	20000 ppm males
Dysplasia			1 [3.0]		
Erosion		1 [1.0]			
Inflammation, Granulomatous		1 [2.0]			
Inflammation, Acute	1 [1.0]		2 [1.5]		
Inflammation, Chronic	1 [2.0]				
Inflammation, Chronic Active	4 [2.0]	3 [1.3]	3 [1.7]	2 [2.5]	2 [2.5]
Necrosis					1 [1.0]
Ulcer	3 [1.7]		1 [2.0]	1 [2.0]	1 [2.0]
Epithelium, Hyperplasia	6 [2.3]	2 [2.0]	5 [2.0]	2 [2.5]	2 [1.5]
Stomach, Glandular	(50)	(50)	(50)	(50)	(50)
Erosion	1 [2.0]				
Inflammation, Suppurative	1 [1.0]				
Inflammation, Acute			1 [1.0]		
Inflammation, Chronic Active	1 [1.0]			1 [1.0]	1 [1.0]
Mineral	7 [2.7]	5 [2.2]	3 [1.7]	2 [1.5]	5 [1.0]
Polyarteritis Nodosa		1 [3.0]			
CARDIOVASCULAR SYSTEM					
Blood Vessel	(50)	(50)	(50)	(50)	(50)
Aneurysm			1 [2.0]		
Degeneration	1 [1.0]				
Degeneration, Hyaline	2 [2.0]				
Inflammation, Chronic Active	1 [1.0]		2 [1.0]	2 [1.5]	
Mineral	6 [2.3]	8 [1.6]	5 [1.4]	2 [1.0]	2 [1.0]
Necrosis, Fibrinoid	1 [1.0]				
Carotid Artery, Polyarteritis Nodosa	1 [3.0]				
Heart	(50)	(50)	(50)	(50)	(50)
Cardiomyopathy	30 [1.5]	30 [1.2]	27 [1.6]	26 [1.3]	27 [1.1]
Inflammation, Acute	1 [1.0]				
Inflammation, Chronic Active				1 [1.0]	
Mineral	3 [2.3]	3 [1.0]	2 [1.5]	-	
Polyarteritis Nodosa		2 [2.0]	1 [3.0]	2 [2.5]	
Atrium, Thrombus				1	
Endocardium, Hyperplasia		1 [2.0]			2 [1.5]

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

Experiment Number: 20712 - 03	P18: INCIDENCE RAT	Date Report Requested: 09/18/2020					
Test Type: Chronic PN		AVERAGE SEVERITY GRADES[b] Tris(Chloropropyl)phosphate					
Route: DOSED FEED		CAS Numbe	r: 13674-84-5		First Dose M/F: 12/12/11 / 12/13/11		
Species/Strain: RATS/HSD					Lab: BAT		
Harlan Sprague Dawley RATS MALE	0 ppm males	2500 ppm males	5000 ppm males	10000 ppm males	20000 ppm males		
Pericardium, Hyperplasia					1 [3.0]		
Valve, Fibrosis				1 [1.0]	1 [2.0]		
Ventricle, Dilation					1 [2.0]		
ENDOCRINE SYSTEM							
Adrenal Cortex	(50)	(50)	(50)	(50)	(50)		
Angiectasis		1 [2.0]					
Atrophy			1 [3.0]				
Degeneration, Cystic	4 [1.0]	7 [1.0]	4 [1.0]	5 [1.0]	3 [1.0]		
Hyperplasia, Focal	5 [1.2]	12 [1.5]	11 [1.6]	8 [1.3]	8 [1.3]		
Hypertrophy, Focal	15 [1.1]	14 [1.2]	19 [1.2]	11 [1.0]	13 [1.1]		
Metaplasia, Osseous				1 [2.0]			
Necrosis	1 [4.0]	1 [2.0]	1 [2.0]		1 [1.0]		
Thrombus			1	1			
Adrenal Medulla	(50)	(50)	(50)	(50)	(50)		
Hyperplasia, Focal	15 [1.7]	25 [1.6]	19 [1.5]	14 [1.5]	7 [1.6]		
Necrosis	1 [3.0]						
Islets, Pancreatic	(50)	(50)	(50)	(50)	(50)		
Hyperplasia	1 [2.0]	5 [1.8]	3 [1.3]	3 [2.0]	2 [1.5]		
Parathyroid Gland	(49)	(46)	(46)	(44)	(45)		
Hyperplasia	5 [2.8]	4 [3.0]	2 [2.0]	5 [1.4]	1 [1.0]		
Infiltration Cellular, Lymphocyte	1 [2.0]						
Pituitary Gland	(50)	(50)	(50)	(50)	(49)		
Pars Distalis, Hyperplasia	18 [2.1]	17 [2.0]	22 [1.9]	18 [2.0]	12 [2.0]		
Rathke's Cleft, Hyperplasia	1 [2.0]						
Thyroid Gland	(50)	(50)	(50)	(50)	(49)		
Infiltration Cellular, Lymphocyte	1 [3.0]						
Polyarteritis Nodosa			1 [3.0]				
C-cell, Hyperplasia	12 [2.3]	6 [1.8]	5 [1.8]	9 [2.4]	12 [2.2]		
Follicle, Hyperplasia				1 [2.0]			

GENERAL BODY SYSTEM

None

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

Experiment Number: 20712 - 03	P18: INCIDENCE RAT	Date Report Requested: 09/18/202			
Test Type: Chronic PN			RITY GRADES[b] pyl)phosphate		Time Report Requested: 11:04:53
Route: DOSED FEED		· ·	r: 13674-84-5		First Dose M/F: 12/12/11 / 12/13/11
Species/Strain: RATS/HSD					Lab: BAT
Harlan Sprague Dawley RATS MALE	0 ppm males	2500 ppm males	5000 ppm males	10000 ppm males	20000 ppm males
GENITAL SYSTEM					
Coagulating Gland	(2)	(1)	(0)	(0)	(0)
Hyperplasia	1 [1.0]				
Inflammation, Suppurative		1 [3.0]			
Inflammation, Chronic Active	1 [2.0]				
Epididymis	(50)	(50)	(50)	(50)	(50)
Polyarteritis Nodosa	x /	x 7	1 [3.0]	1 [1.0]	1 [3.0]
Epithelium, Degeneration	1 [2.0]			r .1	1 [2.0]
Penis	(1)	(0)	(0)	(0)	(0)
Preputial Gland	(50)	(50)	(50)	(50)	(50)
Hyperplasia	1 [1.0]	()	()	()	()
Inflammation, Suppurative	2 [4.0]				1 [4.0]
Duct, Hyperplasia	_[]	1 [1.0]			. []
Prostate	(50)	(50)	(50)	(50)	(50)
Inflammation, Suppurative	(00)	1 [4.0]	1 [1.0]	(00)	1 [2.0]
Inflammation, Chronic Active	4 [1.3]	3 [1.0]	5 [1.2]	8 [1.1]	5 [1.2]
Polyarteritis Nodosa	1[1:0]	0[1:0]	1 [3.0]	1 [1.0]	1 [3.0]
Epithelium, Hyperplasia			5 [1.4]	1 [1:0]	3 [1.0]
Seminal Vesicle	(50)	(50)	(50)	(50)	(50)
Atrophy	(50)	1 [3.0]	(50)	(00)	(00)
Inflammation, Chronic Active		1 [2.0]	1 [1.0]	1 [2.0]	
Polyarteritis Nodosa		1 [2.0]	1 [1.0]	1 [2.0] 1 [1.0]	
Testis	(50)	(50)	(50)	(50)	(50)
Mineral	(50)	1 [1.0]	2 [1.5]	(50) 1 [1.0]	1 [2.0]
Polyarteritis Nodosa	13 [1.5]	13 [1.7]	2 [1.3] 9 [1.3]	9 [1.7]	3 [2.0]
Germinal Epithelium, Degeneration					
Germinal Epithelium, Polyarteritis Nodosa	21 [2.1] 1 [1.0]	15 [2.2] 1 [1.0]	14 [1.9]	13 [2.0]	8 [2.0]
Interstitial Cell, Hyperplasia	3 [1.3]	1 [1.0]		2 [2.0]	3 [1 7]
mersuuai Ceii, riypelpiasia	5 [1.5]	1 [1.0]		۷ الک الک	3 [1.7]
HEMATOPOIETIC SYSTEM					
Bone Marrow	(50)	(50)	(50)	(50)	(50)
Hemorrhage	6 [3.3]	6 [2.8]	2 [2.0]	6 [2.0]	1 [3.0]

Experiment Number: 20712 - 03	P18: INCIDENCE RAT	Date Report Requested: 09/18/2020 Time Report Requested: 11:04:53			
Test Type: Chronic PN					
Route: DOSED FEED		CAS Numbe	r: 13674-84-5		First Dose M/F: 12/12/11 / 12/13/11
Species/Strain: RATS/HSD					Lab: BAT
Harlan Sprague Dawley RATS MALE	0 ppm males	2500 ppm males	5000 ppm males	10000 ppm males	20000 ppm males
Hypercellularity	21 [2.0]	15 [2.1]	15 [2.3]	12 [1.8]	16 [2.3]
Hypocellularity	1 [2.0]				
Necrosis		1 [1.0]		1 [4.0]	1 [3.0]
Lymph Node	(2)	(4)	(2)	(1)	(4)
Mediastinal, Infiltration Cellular, Histiocyte			1 [3.0]		
Mediastinal, Pigment			1 [2.0]		
Pancreatic, Hemorrhage		1 [4.0]	1 [3.0]		
Pancreatic, Hyperplasia		1 [3.0]			
Pancreatic, Infiltration Cellular, Histiocyte		F 3	1 [2.0]		
Renal, Infiltration Cellular, Histiocyte		1 [2.0]	. []		
Lymph Node, Mandibular	(50)	(50)	(49)	(50)	(50)
Atrophy	2 [2.5]	()	(,	1 [3.0]	()
Hyperplasia, Lymphocyte	= [=:0]	1 [3.0]		. [0.0]	
Hyperplasia, Plasma Cell		1 [0.0]		1 [3.0]	
Inflammation, Suppurative				1 [2.0]	
Lymphatic Sinus, Dilation		2 [2.5]		1 [2.0]	
Lymph Node, Mesenteric	(50)	(49)	(49)	(49)	(50)
Atrophy	2 [2.5]	(43)	(43)	(49)	(30)
	2 [2.0]	2 [2 5]	1 [2 0]		
Hyperplasia, Lymphocyte	(EO)	2 [2.5]	1 [3.0]	(50)	(40)
Spleen	(50)	(50)	(50)	(50)	(49)
Extramedullary Hematopoiesis	39 [1.9]	38 [2.1]	41 [2.0]	43 [2.0]	43 [2.1]
Hemorrhage		1 [4.0]	1 [4.0]		2 [3.0]
Pigment	46 [1.5]	45 [1.5]	42 [1.2]	44 [1.5]	42 [1.3]
White Pulp, Atrophy	15 [2.7]	10 [2.4]	13 [2.7]	9 [2.6]	8 [2.5]
Thymus	(49)	(45)	(47)	(50)	(48)
Atrophy	44 [2.5]	43 [2.4]	45 [2.4]	47 [2.3]	43 [2.2]
Ectopic Tissue, Parathyroid Gland	2 [2.5]				
Hyperplasia, Lymphocyte	2 [4.0]			_	1 [1.0]
Polyarteritis Nodosa	1 [1.0]			2 [2.0]	1 [3.0]
INTEGUMENTARY SYSTEM					
Mammary Gland	(45)	(50)	(50)	(50)	(49)
Hyperplasia		2 [1.5]		3 [1.0]	1 [1.0]
Skin	(50)	(50)	(50)	(50)	(50)

Experiment Number: 20712 - 03	P18: INCIDENCE RAT	Date Report Requested: 09/18/2020			
Test Type: Chronic PN Route: DOSED FEED Species/Strain: RATS/HSD		Time Report Requested: 11:04:53 First Dose M/F: 12/12/11 / 12/13/11 Lab: BAT			
Harlan Sprague Dawley RATS MALE	0 ppm males	2500 ppm males	5000 ppm males	10000 ppm males	20000 ppm males
Cyst Epithelial Inclusion		3	1	1	1
Inflammation, Suppurative		1 [4.0]	I	I	I
Inflammation, Chronic Active		1 [4.0]	1 [4.0]		
Ulcer			1 [3.0]		
Epithelium, Hyperplasia			1 [0:0]		1 [2.0]
MUSCULOSKELETAL SYSTEM					
Bone	(50)	(50)	(50)	(50)	(50)
Fracture, Chronic	1				
Increased Bone					2
Cartilage, Vertebra, Hyperplasia	1 [2.0]				
Joint, Degeneration	1 [2.0]				
Skeletal Muscle	(3)	(0)	(3)	(1)	(4)
Degeneration	2 [2.5]		1 [1.0]		
Hemorrhage					1 [2.0]
Inflammation, Chronic Active					1 [3.0]
Mineral	1 [3.0]				
NERVOUS SYSTEM					
Brain	(50)	(50)	(50)	(50)	(50)
Gliosis	1 [1.0]	2 [3.0]		1 [3.0]	2 [1.5]
Hemorrhage	2 [2.5]	2 [2.0]	1 [3.0]		2 [3.0]
Infiltration Cellular, Histiocyte			1 [1.0]		
Necrosis	4 [3.3]	1 [4.0]	3 [3.0]	1 [3.0]	3 [2.7]
Thrombus		1			
Brain Trigeminal Ganglion	(1)	(0)	(0)	(0)	(0)
Nerve Trigeminal	(2)	(2)	(1)	(1)	(1)
Peripheral Nerve	(3)	(2)	(4)	(1)	(4)
Axon, Sciatic, Degeneration		1 [2.0]	2 [1.5]		
Axon, Tibial, Degeneration	1 [2.0]	1 [1.0]	2 [1.5]		
Ganglion, Infiltration Cellular, Histiocyte					1 [1.0]
Ganglion, Vacuolation, Cytoplasmic			1 [1.0]		1 [1.0]
Spinal, Hyperplasia	1 [2.0]				

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Test Type: Chronic PN					
Route: DOSED FEED		CAS Numbe	r: 13674-84-5		First Dose M/F: 12/12/11 / 12/13/11
Species/Strain: RATS/HSD					Lab: BAT
Harlan Sprague Dawley RATS MALE	0 ppm males	2500 ppm males	5000 ppm males	10000 ppm males	20000 ppm males
Trigeminal, Degeneration			1 [1.0]		
Spinal Cord	(2)	(2)	(2)	(1)	(1)
Hemorrhage		1 [3.0]			
RESPIRATORY SYSTEM					
Lung	(50)	(50)	(50)	(50)	(50)
Foreign Body	1				
Hemorrhage				1 [2.0]	
Infiltration Cellular, Histiocyte	31 [1.5]	36 [1.7]	32 [1.3]	37 [1.8]	40 [1.9]
Inflammation, Granulomatous, Focal	7 [1.4]	14 [1.0]	11 [1.0]	19 [1.0]	24 [1.0]
Inflammation, Acute	1 [1.0]	3 [1.7]	1 [1.0]		
Inflammation, Chronic Active	3 [1.7]		1 [1.0]	2 [2.5]	
Mineral	1 [3.0]	2 [1.5]			
Alveolar Epithelium, Hyperplasia	2 [1.0]	6 [1.5]	3 [1.7]	1 [2.0]	2 [2.5]
Bronchiole, Cyst	1				
Bronchiole, Fibrosis	1 [2.0]				
Nose	(50)	(50)	(50)	(50)	(50)
Foreign Body	2	2	2		1
Fungus			1		
Inflammation, Suppurative	1 [3.0]	2 [3.5]	2 [2.0]		2 [2.5]
Inflammation, Acute	6 [1.0]	6 [1.0]	4 [1.0]	5 [1.0]	3 [1.0]
Inflammation, Chronic Active			1 [1.0]		1 [2.0]
Polyarteritis Nodosa		1 [2.0]	-		
Epithelium, Accumulation, Hyaline Droplet	37 [1.8]	42 [2.5]	45 [2.0]	43 [2.2]	45 [2.2]
Olfactory Epithelium, Metaplasia, Respiratory	1 [1.0]	1 [1.0]	1 [1.0]	-	
Olfactory Epithelium, Necrosis	1 [2.0]				1 [1.0]
Respiratory Epithelium, Dilation, Glands	1 [2.0]				-
Respiratory Epithelium, Hyperplasia	1 [1.0]	1 [2.0]	1 [1.0]	1 [1.0]	3 [1.0]
Respiratory Epithelium, Metaplasia, Squamous			2 [1.0]	- •	
Respiratory Epithelium, Necrosis	2 [1.5]				
Squamous Epithelium, Metaplasia, Respirator			1 [1.0]		
Trachea	(50)	(50)	(50)	(50)	(50)

Experiment Number: 20712 - 03	P18: INCIDENCE RAT	Date Report Requested: 09/18/2020			
Test Type: Chronic PN Route: DOSED FEED Species/Strain: RATS/HSD		Time Report Requested: 11:04:53 First Dose M/F: 12/12/11 / 12/13/11 Lab: BAT			
Harlan Sprague Dawley RATS MALE	0 ppm males	2500 ppm males	5000 ppm males	10000 ppm males	20000 ppm males
SPECIAL SENSES SYSTEM					
Eye Choroid, Hyperplasia Cornea, Inflammation, Suppurative	(50) 1 [2.0] 1 [2.0]	(50)	(50)	(50)	(50)
Cornea, Inflammation, Acute Lens, Cataract	4 [1.5]	1 [1.0]	3 [1.0] 1 [2.0]		
Retina, Degeneration Harderian Gland Atrophy	(50)	2 [2.5] (50)	1 [1.0] (50)	1 [1.0] (50)	1 [1.0] (50) 1 [1.0]
Hyperplasia Polyarteritis Nodosa		1 [3.0]		1 [1.0]	1 [3.0]
JRINARY SYSTEM					
Kidney Calculus Micro Observation Only	(50) 1	(50)	(50)	(50)	(50)
Hemorrhage	·		1 [4.0]	0.44.03	
Infarct Nephropathy, Chronic Progressive Polyarteritis Nodosa	2 [1.0] 49 [2.8]	4 [1.0] 50 [2.6]	4 [1.0] 49 [2.4]	2 [1.0] 48 [2.4] 1 [3.0]	1 [1.0] 48 [1.6]
Papilla, Necrosis Pelvis, Dilation Pelvis, Inflammation, Suppurative	1 [1.0]	1 [1.0]		1 [3.0] 1 [4.0]	
Pelvis, Inflammation, Chronic Active Renal Tubule, Accumulation, Hyaline Droplet	1 [2.0]	1 [3.0] 2 [1.0]	2 [2.0]		2 [3.5]
Renal Tubule, Cyst Renal Tubule, Hyperplasia Renal Tubule, Hyperplasia, Atypical		1 1 [3.0]	1 2 [1.0] 1 [1.0]	1	1 2 [1.0]
Renal Tubule, Hyperplasia, Oncocytic Ureter Degeneration	(0)	1 [2.0] (0)	(0)	(1) 1 [4.0]	(0)
Urinary Bladder Inflammation, Chronic Active Polyarteritis Nodosa	(50)	(50) 1 [3.0] 1 [3.0]	(50)	(50) 1 [2.0]	(50) 1 [2.0]

Experiment Number: 20712 - 03	P18: INCIDENCE RAT	Date Report Requested: 09/18/2020			
Test Type: Chronic PN		Time Report Requested: 11:04:53			
Route: DOSED FEED Species/Strain: RATS/HSD		First Dose M/F: 12/12/11 / 12/13/11 Lab: BAT			
Harlan Sprague Dawley RATS MALE	0 ppm males	2500 ppm males	5000 ppm males	10000 ppm males	20000 ppm males
Urothelium, Hyperplasia Urothelium, Infiltration Cellular, Mast Cell	1 [1.0]	1 [2.0]			
	1[1.0]				

*** 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)

Experiment Number: 20712 - 03	P18: INCIDENCE RAT	AVERAGE SEVE	STIC LESIONS BY ANA RITY GRADES[b]	IC LESIONS BY ANATOMIC SITE (a) WITH Date Report Reques ITY GRADES[b]			
Test Type: Chronic PN		Tris(Chloropro	pyl)phosphate		Time Report Requested: 11:04:53		
Route: DOSED FEED		CAS Number: 13674-84-5					
Species/Strain: RATS/HSD					Lab: BAT		
Harlan Sprague Dawley RATS FEMALE	0 ppm females	2500 ppm females	5000 ppm females	10000 ppm female	20000 ppm female		
Disposition Summary							
Animals Initially In Study	50	50	50	50	50		
Early Deaths							
Moribund Sacrifice	15	10	8	7	6		
Natural Death	13	8	8	8	11		
Survivors							
Moribund Sacrifice		1					
Natural Death			1	1			
Terminal Sacrifice	22	31	33	34	33		
Animals Examined Microscopically	50	50	50	50	50		
ALIMENTARY SYSTEM							
Esophagus	(50)	(50)	(50)	(50)	(50)		
Dilation				1 [4.0]			
Inflammation, Suppurative					1 [4.0]		
Necrosis					1 [3.0]		
Intestine Large, Cecum	(49)	(49)	(49)	(48)	(49)		
Intestine Large, Colon	(49)	(50)	(49)	(49)	(50)		
Erosion			1 [2.0]				
Inflammation, Chronic Active			1 [1.0]				
Parasite Metazoan	2	1		2			
Lymphoid Tissue, Hyperplasia				1 [3.0]			
Intestine Large, Rectum	(50)	(50)	(50)	(49)	(50)		
Mineral					1 [1.0]		
Parasite Metazoan	4	7	8	6	3		
Intestine Small, Duodenum	(49)	(49)	(50)	(49)	(50)		
Intestine Small, Ileum	(49)	(49)	(49)	(48)	(50)		
Intestine Small, Jejunum	(49)	(49)	(49)	(49)	(50)		
Liver	(50)	(50)	(50)	(50)	(50)		
Angiectasis	1 [1.0]		2 [1.5]				
Basophilic Focus	5	7	9	8	10		
Clear Cell Focus	11	14	10	9	13		
Degeneration, Cystic	1 [1.0]		1 [1.0]				
Eosinophilic Focus	5	2	13	18	25		

Experiment Number:	20712 - 03
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P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 09/18/2020 AVERAGE SEVERITY GRADES[b]

Test Type: Chronic PN Route: DOSED FEED

Species/Strain: RATS/HSD

Tris(Chloropropyl)phosphate CAS Number: 13674-84-5 Time Report Requested: 11:04:53 First Dose M/F: 12/12/11 / 12/13/11 Lab: BAT

arlan Sprague Dawley RATS FEMALE	0 ppm females	2500 ppm females	5000 ppm females	10000 ppm female	20000 ppm female	
Extramedullary Hematopoiesis		1 [1.0]		1 [1.0]		
Hepatodiaphragmatic Nodule		2	1		1	
Inflammation, Focal	1 [1.0]					
Mixed Cell Focus	2		1	1	7	
Necrosis	6 [2.0]	2 [1.5]	3 [1.3]	5 [2.6]	3 [2.7]	
Pigment				3 [1.3]	23 [1.0]	
Thrombus				1		
Bile Duct, Cyst	1	6	12	19	21	
Bile Duct, Dilation		1 [4.0]		1 [3.0]		
Bile Duct, Hyperplasia	7 [1.0]	21 [1.0]	24 [1.0]	29 [1.1]	11 [1.0]	
Hepatocyte, Cytoplasmic Alteration	2 [1.0]			3 [1.3]	4 [1.0]	
Hepatocyte, Hypertrophy	1 [2.0]	1 [1.0]		2 [1.5]	1 [2.0]	
Hepatocyte, Regeneration			1 [2.0]		1 [1.0]	
Oval Cell, Hyperplasia				1 [2.0]		
Mesentery	(3)	(3)	(1)	(1)	(4)	
Hemorrhage	1 [4.0]		. ,			
Inflammation, Chronic Active		1 [3.0]				
Necrosis	1 [1.0]					
Fat, Necrosis			1 [2.0]			
Pancreas	(49)	(50)	(50)	(50)	(50)	
Inflammation, Chronic Active			2 [1.0]	, , ,		
Acinus, Atrophy	2 [2.0]	5 [1.2]	3 [1.3]	1 [1.0]		
Salivary Glands	(50)	(50)	(49)	(50)	(49)	
Hyperplasia			(),	()	1 [2.0]	
Inflammation, Chronic Active			1 [1.0]			
Necrosis				1 [2.0]		
Stomach, Forestomach	(50)	(50)	(50)	(50)	(50)	
Foreign Body	()	x /	x - /	1	· · /	
Inflammation, Chronic Active	1 [1.0]	1 [2.0]	1 [2.0]	3 [1.3]	1 [2.0]	
Ulcer	1 - 1	1 [2.0]	L - J	1 [1.0]	L - J	
Epithelium, Hyperplasia	1 [1.0]	1 [2.0]	1 [2.0]	3 [1.7]	1 [2.0]	
Stomach, Glandular	(50)	(50)	(50)	(50)	(50)	
Inflammation, Chronic Active	(00)		(-•)	(20)	1 [1.0]	
Mineral	2 [2.0]	3 [1.7]	1 [2.0]		2 [1.5]	

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

Experiment Number: 20712 - 03	P18: INCIDENCE RAT	P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]				
Test Type: Chronic PN		Tris(Chloropro	Time Report Requested: 11:04:53			
Route: DOSED FEED		CAS Numbe	r: 13674-84-5		First Dose M/F: 12/12/11 / 12/13/11	
Species/Strain: RATS/HSD				Lab: BAT		
Harlan Sprague Dawley RATS FEMALE	0 ppm females	2500 ppm females	5000 ppm females	10000 ppm female	20000 ppm female	
CARDIOVASCULAR SYSTEM						
Blood Vessel	(50)	(50)	(50)	(50)	(50)	
Aneurysm	(),		1 [4.0]		(),	
Inflammation, Chronic Active	1 [1.0]		2 [3.0]	1 [1.0]		
Mineral	1 [1.0]					
Thrombus			1			
Heart	(50)	(50)	(50)	(50)	(50)	
Cardiomyopathy	7 [1.1]	8 [1.1]	4 [1.0]	7 [1.3]	6 [1.0]	
Mineral					1 [1.0]	
ENDOCRINE SYSTEM						
Adrenal Cortex	(50)	(50)	(50)	(50)	(50)	
Angiectasis	5 [2.0]	6 [2.5]		1 [3.0]	2 [2.0]	
Degeneration, Cystic	8 [1.0]	8 [1.1]	4 [1.3]	10 [1.0]	5 [1.0]	
Fibrosis	1 [2.0]					
Hemorrhage			1 [4.0]			
Hyperplasia, Focal	2 [1.0]	7 [1.1]	2 [1.5]	3 [1.3]	2 [1.0]	
Hypertrophy, Focal	5 [1.2]	3 [1.3]	6 [1.3]	3 [1.0]	9 [1.2]	
Inflammation, Chronic				1 [1.0]		
Necrosis	1 [1.0]		1 [3.0]		1 [4.0]	
Thrombus	1	1	1			
Vacuolization Cytoplasmic	1 [1.0]					
Bilateral, Hypertrophy, Focal	3 [1.3]					
Bilateral, Necrosis	1 [4.0]					
Adrenal Medulla	(50)	(50)	(50)	(50)	(48)	
Hyperplasia, Focal	9 [1.4]	11 [1.4]	8 [1.1]	6 [1.3]	1 [4.0]	
Necrosis					1 [4.0]	
Islets, Pancreatic	(49)	(50)	(50)	(50)	(50)	
Hyperplasia	3 [1.3]	4 [1.3]	2 [1.0]	1 [2.0]	1 [1.0]	
Metaplasia, Hepatocyte		1 [2.0]			1 [1.0]	
Parathyroid Gland	(44)	(39)	(45)	(44)	(46)	
Hyperplasia		1 [1.0]	1 [1.0]	1 [1.0]		
Pituitary Gland	(50)	(50)	(50)	(50)	(49)	

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)

Experiment Number: 20712 - 03	P18: INCIDENCE RAT	ES OF NON-NEOPLAS AVERAGE SEVE	TIC LESIONS BY ANA RITY GRADES[b]	H Date Report Requested: 09/18/202 Time Report Requested: 11:04:53	
Test Type: Chronic PN		Tris(Chloropro	pyl)phosphate		
Route: DOSED FEED		CAS Numbe	r: 13674-84-5		First Dose M/F: 12/12/11 / 12/13/11
Species/Strain: RATS/HSD					Lab: BAT
Harlan Sprague Dawley RATS FEMALE	0 ppm females	2500 ppm females	5000 ppm females	10000 ppm female	20000 ppm female
Angiectasis	1 [2.0]				
Cyst			1		
Pars Distalis, Hyperplasia	17 [1.9]	15 [2.5]	18 [2.2]	16 [2.4]	20 [2.3]
Pars Distalis, Hyperplasia, Atypical				1 [3.0]	
Pars Distalis, Necrosis				2 [2.0]	
Pars Intermedia, Hyperplasia		1 [2.0]			
Rathke's Cleft, Hyperplasia			1 [2.0]		
Thyroid Gland	(50)	(50)	(50)	(50)	(49)
C-cell, Hyperplasia	9 [1.8]	11 [2.8]	11 [1.9]	3 [1.3]	10 [2.9]
GENERAL BODY SYSTEM					
Peritoneum	(0)	(1)	(0)	(0)	(0)
Inflammation, Chronic Active		1 [2.0]			
GENITAL SYSTEM					
Clitoral Gland	(46)	(49)	(50)	(47)	(49)
Hyperplasia, Squamous		1 [3.0]			
Inflammation, Chronic Active	1 [1.0]				
Ovary	(50)	(50)	(50)	(49)	(50)
Atrophy	32 [2.4]	38 [2.3]	32 [2.4]	40 [2.3]	28 [2.4]
Dilation				1 [3.0]	
Fibrosis	1 [3.0]				
Inflammation, Chronic		1 [2.0]			
Pigment	1 [3.0]				
Bursa, Cyst	1	1	4		
Follicle, Cyst	12	8	7	14	11
Germinal Epithelium, Cyst		2			
Germinal Epithelium, Hyperplasia					1 [1.0]
Granulosa Cell, Hyperplasia	2 [3.0]		2 [2.0]		1 [2.0]
Interstitial Cell, Hyperplasia				1 [2.0]	
Paraovarian Tissue, Cyst	3	2	3		2
Oviduct	(1)	(0)	(0)	(1)	(0)
Inflammation, Chronic Active	1 [3.0]				

Experiment Number: 20712 - 03	P18: INCIDENCE RAT	ES OF NON-NEOPLAS AVERAGE SEVE	F NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requ AVERAGE SEVERITY GRADES[b]			
Test Type: Chronic PN		Tris(Chloropro		Time Report Requested: 11:04:53		
Route: DOSED FEED		CAS Numbe	r: 13674-84-5		First Dose M/F: 12/12/11 / 12/13/11	
Species/Strain: RATS/HSD					Lab: BAT	
Harlan Sprague Dawley RATS FEMALE	0 ppm females	2500 ppm females	5000 ppm females	10000 ppm female	20000 ppm female	
Uterus	(50)	(50)	(50)	(49)	(50)	
Adenomyosis		1 [1.0]	2 [1.0]			
Angiectasis	1 [1.0]	1 [1.0]				
Cyst, Squamous					2	
Dilation	4 [3.3]	4 [3.5]	3 [4.0]	6 [3.7]	3 [3.3]	
Hemorrhage		3 [1.3]	-	3 [3.7]		
Hyperplasia, Atypical	5 [1.8]	10 [1.5]	6 [2.0]	13 [1.9]	8 [2.0]	
Inflammation, Suppurative	5 [3.4]	5 [1.6]	7 [2.7]	11 [3.0]	7 [2.4]	
Inflammation, Chronic Active			1 [4.0]	1 [2.0]	1 [1.0]	
Metaplasia, Cartilagenous				1 [1.0]		
Squamous Metaplasia	23 [1.5]	32 [1.5]	26 [2.0]	26 [2.5]	24 [1.6]	
Thrombus		2	1			
Ulcer		1 [3.0]		2 [1.5]		
Cervix, Cyst, Squamous					1	
Cervix, Hyperplasia, Atypical	1 [2.0]					
Cervix, Hyperplasia, Squamous					1 [3.0]	
Cervix, Inflammation, Suppurative					3 [2.3]	
Cervix, Necrosis					1 [2.0]	
Endometrium, Hyperplasia, Cystic	18 [1.8]	27 [1.9]	23 [1.8]	27 [2.0]	19 [2.2]	
Lymphatic, Angiectasis			1 [3.0]	L - J		
Myometrium, Cyst	1		.[]			
Vagina	(50)	(49)	(48)	(44)	(48)	
Hypertrophy, Stromal	(00)	1 [4.0]	()	\·'/	()	
Inflammation, Suppurative	2 [2.0]	. []	1 [2.0]			
	- [v]		. [0]			
HEMATOPOIETIC SYSTEM						
Bone Marrow	(50)	(50)	(50)	(50)	(50)	
Hemorrhage			1 [3.0]	1 [2.0]		
Hypercellularity	37 [3.2]	32 [2.8]	39 [2.8]	42 [2.9]	40 [2.6]	
Hypocellularity		1 [2.0]				
Necrosis					1 [2.0]	
Lymph Node	(8)	(4)	(3)	(5)	(7)	
Axillary, Hyperplasia, Plasma Cell	3 [2.7]				2 [2.0]	
Lumbar, Hemorrhage		1 [2.0]				

Experiment Number: 207	12 -	03
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P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 09/18/2020 AVERAGE SEVERITY GRADES[b]

Test Type: Chronic PN Route: DOSED FEED

Species/Strain: RATS/HSD

Tris(Chloropropyl)phosphate CAS Number: 13674-84-5 Time Report Requested: 11:04:53 First Dose M/F: 12/12/11 / 12/13/11 Lab: BAT

Harlan Sprague Dawley RATS FEMALE	0 ppm females	2500 ppm females	5000 ppm females	10000 ppm female	20000 ppm female	
Lumbar, Hyperplasia, Plasma Cell	3 [2.0]	1 [3.0]		1 [3.0]		
Lumbar, Infiltration Cellular, Histiocyte	1 [2.0]					
Lumbar, Pigment	1 [3.0]					
Mediastinal, Hyperplasia, Plasma Cell			1 [2.0]			
Mediastinal, Infiltration Cellular, Histiocyte			1 [2.0]			
Lymph Node, Mandibular	(50)	(50)	(49)	(50)	(49)	
Atrophy	1 [3.0]	1 [3.0]	. ,	. ,	2 [2.5]	
Hyperplasia, Plasma Cell				1 [2.0]		
Lymph Node, Mesenteric	(49)	(49)	(49)	(50)	(49)	
Hemorrhage			()	1 [2.0]		
Spleen	(49)	(50)	(50)	(50)	(50)	
Extramedullary Hematopoiesis	46 [2.5]	44 [2.1]	48 [2.4]	45 [2.3]	46 [2.1]	
Hemorrhage	1 [2.0]			1 [4.0]		
Infarct					1 [1.0]	
Inflammation, Chronic Active			1 [3.0]			
Pigment	35 [1.3]	39 [1.6]	35 [1.4]	33 [1.5]	39 [1.5]	
White Pulp, Atrophy	9 [2.4]	7 [3.0]	8 [2.3]	7 [2.9]	8 [3.0]	
Thymus	(50)	(48)	(49)	(48)	(48)	
Atrophy	45 [2.2]	45 [2.3]	46 [2.0]	38 [2.3]	45 [2.3]	
Ectopic Thyroid					1 [2.0]	
Ectopic Tissue, Parathyroid Gland				1 [2.0]	2 [1.5]	
Hyperplasia, Epithelial	1 [3.0]					
NTEGUMENTARY SYSTEM						
Mammary Gland	(50)	(50)	(50)	(50)	(50)	
Galactocele	2 [3.0]	1 [3.0]	<u>\/</u>	(/)	<u> </u>	
Hyperplasia	14 [2.3]	10 [1.5]	12 [2.1]	9 [2.0]	15 [2.1]	
Hyperplasia, Adenomatous	[]	1 [4.0]	r1	. []		
Skin	(50)	(50)	(50)	(50)	(50)	
-	()	()	(/	()	()	
MUSCULOSKELETAL SYSTEM						
Bone	(50)	(50)	(50)	(50)	(50)	
Joint, Degeneration			2 [1.0]			

Experiment Number: 20712 - 03	P18: INCIDENCE RAT	ES OF NON-NEOPLAS AVERAGE SEVE	S OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report I AVERAGE SEVERITY GRADES[b]			
Test Type: Chronic PN		Tris(Chloropro		Time Report Requested: 11:04:53		
Route: DOSED FEED		CAS Numbe		First Dose M/F: 12/12/11 / 12/13/11		
Species/Strain: RATS/HSD			Lab: BAT			
Harlan Sprague Dawley RATS FEMALE	0 ppm females	2500 ppm females	5000 ppm females	10000 ppm female	20000 ppm female	
Skeletal Muscle	(1)	(1)	(0)	(1)	(2)	
NERVOUS SYSTEM						
Brain	(50)	(50)	(50)	(50)	(49)	
Gliosis	· · /		· /	1 [2.0]	· · ·	
Hemorrhage	1 [2.0]	1 [2.0]		3 [1.7]		
Necrosis	1 [4.0]	2 [3.0]		1 [3.0]		
Cranial Nerve, Gliosis	L - J	r	1 [2.0]	r 1		
Peripheral Nerve	(0)	(0)	(0)	(1)	(0)	
RESPIRATORY SYSTEM				· · · · · · · · · · · · · · · · · · ·		
Lung	(50)	(50)	(50)	(50)	(50)	
Cyst, Squamous, Multiple				1		
Cyst, Squamous	1			1		
Infiltration Cellular, Histiocyte	46 [2.0]	50 [2.4]	47 [2.2]	48 [2.7]	50 [2.7]	
Inflammation, Granulomatous, Focal	7 [1.0]	3 [1.3]	6 [1.0]	6 [1.3]	5 [1.0]	
Inflammation, Acute		1 [1.0]			1 [3.0]	
Inflammation, Chronic Active				1 [2.0]		
Squamous Metaplasia			1 [2.0]			
Alveolus, Epithelium, Hyperplasia		2 [2.0]	1 [1.0]	1 [2.0]	1 [1.0]	
Nose	(49)	(50)	(50)	(50)	(50)	
Inflammation, Suppurative	· · /	1 [4.0]	· · /		. ,	
Inflammation, Acute	2 [1.0]	1 [1.0]	6 [1.0]	4 [1.3]	6 [1.0]	
Inflammation, Chronic Active		1 [1.0]				
Epithelium, Accumulation, Hyaline Droplet	48 [2.8]	50 [3.1]	49 [2.8]	47 [3.0]	46 [2.9]	
Glands, Hyperplasia			1 [1.0]			
Olfactory Epithelium, Metaplasia, Respiratory		1 [2.0]	1 [2.0]			
Olfactory Epithelium, Metaplasia, Squamous					1 [2.0]	
Respiratory Epithelium, Metaplasia, Squamou	S		1 [1.0]			
Sinus, Metaplasia, Squamous		1 [3.0]	r - 1			
Trachea	(50)	(50)	(50)	(50)	(50)	

Experiment Number: 20712 - 03	P18: INCIDENCE RAT	ES OF NON-NEOPLAS AVERAGE SEVE	ATOMIC SITE (a) WITH	Date Report Requested: 09/18/202	
Test Type: Chronic PN		Tris(Chloropro		Time Report Requested: 11:04:53	
Route: DOSED FEED		CAS Numbe	First Dose M/F: 12/12/11 / 12/13/11		
Species/Strain: RATS/HSD			Lab: BAT		
Harlan Sprague Dawley RATS FEMALE	0 ppm females	2500 ppm females	5000 ppm females	10000 ppm female	20000 ppm female
SPECIAL SENSES SYSTEM					
Eye Atrophy	(50)	(50) 1 [2.0]	(49)	(50)	(49)
Inflammation, Chronic Active		1 [2:0]	1 [2.0]		
Lens, Cataract		1 [1.0]	. []		
Retina, Degeneration	3 [1.7]	1 [2.0]	2 [1.5]	2 [2.0]	1 [2.0]
Retina, Detachment		1 [4.0]			
Harderian Gland	(50)	(50)	(49)	(50)	(50)
URINARY SYSTEM					
Kidney	(50)	(50)	(50)	(50)	(50)
Developmental Malformation	1				
Ectopic Tissue, Adrenal Cortex	1				
Infarct	3 [1.0]	1 [1.0]			3 [1.3]
Inflammation, Suppurative	3 [1.7]				8 [1.4]
Inflammation, Chronic Active		1 [2.0]			
Nephropathy, Chronic Progressive	41 [1.1]	37 [1.1]	33 [1.1]	34 [1.1]	36 [1.0]
Pigment					1 [1.0]
Pelvis, Dilation		1 [1.0]	1 [4.0]		
Pelvis, Inflammation, Chronic Active		2 [2.5]	1 [2.0]		1 [2.0]
Renal Tubule, Accumulation, Hyaline Droplet	1 [2.0]			1 [1.0]	
Renal Tubule, Hyperplasia			1 [1.0]	1 [1.0]	1 [2.0]
Renal Tubule, Hyperplasia, Atypical				2 [1.0]	
Urinary Bladder	(50)	(50)	(50)	(49)	(50)
Inflammation, Suppurative		1 [3.0]			
Inflammation, Chronic Active		2 [1.5]			
Urothelium, Hyperplasia		1 [2.0]			1 [4.0]

*** END OF REPORT ***

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