

Experiment Number: 20712 - 04
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: MICE/B6C3F1/N

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

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/14/2020

Time Report Requested: 10:18:26

First Dose M/F: 10/25/11 / 10/24/11

Lab: BAT

Final 2_Mice

NTP Study Number: C20712
Lock Date: 02/26/2018
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

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B6C3F1/N MICE MALE	0 ppm males	1250 ppm males	2500 ppm males	5000 ppm males
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Disposition Summary

Animals Initially In Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	1	1	1	3
Natural Death	10	5	7	3
Survivors				
Natural Death	1			1
Terminal Sacrifice	38	44	42	43
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(50)
Gallbladder	(50)	(50)	(46)	(50)
Intestine Large, Cecum	(50)	(49)	(50)	(50)
Intestine Large, Colon	(50)	(50)	(50)	(50)
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Intestine Small, Duodenum	(50)	(50)	(50)	(50)
Intestine Small, Ileum	(50)	(50)	(50)	(50)
Diverticulum				1 (2%)
Intestine Small, Jejunum	(50)	(50)	(50)	(50)
Liver	(50)	(50)	(50)	(50)
Basophilic Focus	4 (8%)	4 (8%)	3 (6%)	2 (4%)
Clear Cell Focus	13 (26%)	18 (36%)	12 (24%)	8 (16%)
Eosinophilic Focus	13 (26%)	16 (32%)	9 (18%)	15 (30%)
Fatty Change, Focal	3 (6%)	4 (8%)	1 (2%)	
Mixed Cell Focus		2 (4%)	1 (2%)	1 (2%)
Necrosis	10 (20%)	8 (16%)	9 (18%)	8 (16%)
Hepatocyte, Cytoplasmic Alteration	1 (2%)		2 (4%)	
Hepatocyte, Vacuolation, Cytoplasmic			1 (2%)	
Mesentery	(1)	(1)	(1)	(2)
Fat, Necrosis	1 (100%)			
Pancreas	(50)	(50)	(50)	(50)
Salivary Glands	(50)	(50)	(50)	(50)
Stomach, Forestomach	(50)	(50)	(50)	(50)

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

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B6C3F1/N MICE MALE	0 ppm males	1250 ppm males	2500 ppm males	5000 ppm males
Cyst, Squamous Inflammation, Suppurative Ulcer Epithelium, Hyperplasia, Focal Stomach, Glandular	1 (2%) (50)	(50)	1 (2%) 1 (2%) 1 (2%) 1 (2%) (50)	1 (2%) (50)
CARDIOVASCULAR SYSTEM				
Blood Vessel Heart Cardiomyopathy Polyarteritis Nodosa	(50) (50) 1 (2%) 1 (2%)	(49) (50)	(49) (50)	(49) (50)
ENDOCRINE SYSTEM				
Adrenal Cortex Hyperplasia, Focal Hypertrophy, Focal Inflammation, Suppurative Necrosis Bilateral, Hypertrophy, Focal Adrenal Medulla Necrosis Islets, Pancreatic Parathyroid Gland Pituitary Gland Pars Distalis, Hyperplasia Pars Intermedia, Hyperplasia Thyroid Gland	(50) 1 (2%) 14 (28%) (50) (50) (42) (50) 1 (2%) (50)	(50) 1 (2%) 20 (40%) 1 (2%) 2 (4%) (50) 1 (2%) (50) (45) (46) 1 (2%) (50)	(50) (50) 11 (22%) 1 (2%) (50) (50) (46) (48) (50)	(49) 3 (6%) 6 (12%) (49) (50) (46) (50) (50)
GENERAL BODY SYSTEM				
None				

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GENITAL SYSTEM				
Epididymis	(50)	(50)	(50)	(50)
Preputial Gland	(50)	(50)	(50)	(50)
Duct, Dilation				1 (2%)
Prostate	(50)	(50)	(50)	(50)
Inflammation, Suppurative	1 (2%)		2 (4%)	
Seminal Vesicle	(50)	(50)	(50)	(50)
Atrophy			1 (2%)	1 (2%)
Inflammation, Suppurative			1 (2%)	
Testis	(50)	(50)	(50)	(50)
Germinal Epithelium, Atrophy	1 (2%)		2 (4%)	1 (2%)
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(50)	(50)
Hypocellularity			1 (2%)	
Lymph Node	(4)	(3)	(4)	(3)
Mediastinal, Hyperplasia, Lymphocyte		1 (33%)		
Lymph Node, Mandibular	(47)	(50)	(50)	(50)
Lymph Node, Mesenteric	(49)	(49)	(50)	(49)
Congestion	1 (2%)			1 (2%)
Extramedullary Hematopoiesis	1 (2%)		1 (2%)	
Spleen	(50)	(50)	(50)	(50)
Erythrophagocytosis			1 (2%)	
Extramedullary Hematopoiesis	23 (46%)	21 (42%)	18 (36%)	20 (40%)
Hyperplasia, Lymphocyte			1 (2%)	1 (2%)
Thymus	(46)	(47)	(49)	(46)
Atrophy	1 (2%)	1 (2%)	2 (4%)	1 (2%)
Inflammation, Granulomatous			1 (2%)	
INTEGUMENTARY SYSTEM				
Skin	(50)	(50)	(50)	(50)

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B6C3F1/N MICE MALE	0 ppm males	1250 ppm males	2500 ppm males	5000 ppm males
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(49)
Femur, Increased Bone				1 (2%)
Skeletal Muscle	(1)	(0)	(1)	(0)
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Meninges, Polyarteritis Nodosa	1 (2%)			
RESPIRATORY SYSTEM				
Lung	(50)	(50)	(50)	(50)
Infiltration Cellular, Histiocyte	1 (2%)	1 (2%)	1 (2%)	
Inflammation, Granulomatous		1 (2%)		
Alveolus, Epithelium, Hyperplasia	1 (2%)		3 (6%)	1 (2%)
Nose	(50)	(50)	(50)	(50)
Trachea	(50)	(50)	(49)	(50)
SPECIAL SENSES SYSTEM				
Eye	(50)	(50)	(50)	(50)
Phthisis Bulbi			1 (2%)	
Harderian Gland	(50)	(50)	(50)	(50)
Hyperplasia	2 (4%)	1 (2%)	3 (6%)	1 (2%)
URINARY SYSTEM				
Kidney	(49)	(50)	(50)	(50)
Infarct			1 (2%)	
Metaplasia, Osseous	1 (2%)	1 (2%)	1 (2%)	1 (2%)

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Nephropathy, Chronic Progressive Pigment	40 (82%)	45 (90%)	43 (86%)	45 (90%)
Capsule, Inflammation, Suppurative Papilla, Cyst			1 (2%)	1 (2%)
Renal Tubule, Cyst	1 (2%)		1 (2%)	
Renal Tubule, Cytoplasmic Alteration		28 (56%)	40 (80%)	48 (96%)
Urinary Bladder	(49)	(48)	(50)	(50)

*** END OF MALE ***

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B6C3F1/N MICE FEMALE	0 ppm females	2500 ppm females	5000ppm females	10000ppm females
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Disposition Summary

Animals Initially In Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	1	2	1	1
Natural Death	3	5	4	3
Survivors				
Terminal Sacrifice	46	43	45	46
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(49)
Gallbladder	(48)	(48)	(50)	(50)
Intestine Large, Cecum	(50)	(50)	(50)	(50)
Intestine Large, Colon	(50)	(50)	(50)	(50)
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Intestine Small, Duodenum	(50)	(50)	(50)	(50)
Intestine Small, Ileum	(50)	(50)	(50)	(50)
Intestine Small, Jejunum	(50)	(50)	(50)	(50)
Hyperplasia, Lymphocyte		1 (2%)		
Liver	(50)	(50)	(50)	(50)
Basophilic Focus	2 (4%)	1 (2%)	5 (10%)	2 (4%)
Clear Cell Focus	3 (6%)	2 (4%)	3 (6%)	8 (16%)
Eosinophilic Focus	1 (2%)	7 (14%)	13 (26%)	16 (32%)
Fatty Change, Focal	1 (2%)		1 (2%)	
Inflammation, Chronic Active		1 (2%)		
Mixed Cell Focus				1 (2%)
Necrosis	11 (22%)	8 (16%)	5 (10%)	3 (6%)
Pigment	1 (2%)			
Bile Duct, Cyst		1 (2%)		1 (2%)
Bile Duct, Cyst, Multiple			1 (2%)	
Hepatocyte, Cytoplasmic Alteration			2 (4%)	48 (96%)
Hepatocyte, Vacuolation, Cytoplasmic	2 (4%)			
Stellate Cell, Hyperplasia		1 (2%)		
Mesentery	(4)	(3)	(3)	(0)

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Fat, Necrosis	4 (100%)	3 (100%)	3 (100%)	
Pancreas	(50)	(50)	(50)	(50)
Cyst		2 (4%)	1 (2%)	1 (2%)
Acinus, Atrophy	1 (2%)			
Acinus, Hyperplasia				1 (2%)
Salivary Glands	(50)	(49)	(49)	(48)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Epithelium, Hyperplasia				1 (2%)
Stomach, Glandular	(50)	(50)	(50)	(50)
Epithelium, Hyperplasia	1 (2%)			
CARDIOVASCULAR SYSTEM				
Blood Vessel	(50)	(50)	(50)	(50)
Heart	(50)	(50)	(50)	(50)
Fibrosis				1 (2%)
Infiltration Cellular, Mixed Cell				1 (2%)
Polyarteritis Nodosa	2 (4%)	1 (2%)		
Epicardium, Inflammation, Suppurative		1 (2%)		
Myocardium, Mineral	1 (2%)			
Myocardium, Necrosis			1 (2%)	
Valve, Degeneration		1 (2%)	1 (2%)	
Valve, Mineral		1 (2%)		
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(50)	(50)
Degeneration, Cystic	1 (2%)			
Hyperplasia, Focal		1 (2%)	1 (2%)	
Hypertrophy, Focal	1 (2%)		1 (2%)	1 (2%)
Vacuolation, Cytoplasmic		1 (2%)		
Adrenal Medulla	(50)	(50)	(50)	(49)
Hyperplasia, Focal	1 (2%)		1 (2%)	
Islets, Pancreatic	(50)	(50)	(50)	(50)
Parathyroid Gland	(43)	(42)	(41)	(43)

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Hyperplasia			1 (2%)	
Pituitary Gland	(50)	(50)	(50)	(49)
Pars Distalis, Hyperplasia	17 (34%)	5 (10%)	4 (8%)	4 (8%)
Pars Intermedia, Hyperplasia	1 (2%)			
Thyroid Gland	(49)	(50)	(50)	(48)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Clitoral Gland	(50)	(50)	(49)	(49)
Ovary	(49)	(50)	(50)	(49)
Hemorrhage			1 (2%)	
Follicle, Cyst	8 (16%)	9 (18%)	6 (12%)	11 (22%)
Rete Ovarii, Cyst		2 (4%)		
Uterus	(50)	(50)	(50)	(50)
Adenomyosis				1 (2%)
Dilation	13 (26%)	18 (36%)	10 (20%)	8 (16%)
Inflammation, Suppurative	3 (6%)	1 (2%)		1 (2%)
Cervix, Inflammation, Suppurative		1 (2%)		1 (2%)
Cervix, Metaplasia, Mucous Cell	1 (2%)			
Endometrium, Hyperplasia, Cystic	45 (90%)	41 (82%)	41 (82%)	40 (80%)
Vagina	(0)	(0)	(1)	(0)

HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(50)
Fibrosis		2 (4%)		1 (2%)
Lymph Node	(4)	(5)	(5)	(3)
Hyperplasia, Lymphocyte		1 (20%)		
Lumbar, Hemorrhage	1 (25%)			
Lymph Node, Mandibular	(50)	(50)	(48)	(48)

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Hyperplasia, Lymphocyte Lymph Node, Mesenteric	25 (50%) (49)	22 (44%) (49)	25 (52%) (50)	33 (69%) (49)
Hemorrhage	1 (2%)			
Hyperplasia, Lymphocyte	35 (71%)	26 (53%)	27 (54%)	35 (71%)
Hyperplasia, Plasma Cell				1 (2%)
Spleen	(49)	(49)	(50)	(50)
Extramedullary Hematopoiesis	10 (20%)	11 (22%)	20 (40%)	13 (26%)
Hyperplasia, Lymphocyte	38 (78%)	36 (73%)	31 (62%)	39 (78%)
White Pulp, Atrophy				1 (2%)
Thymus	(48)	(48)	(47)	(48)
Atrophy	3 (6%)	5 (10%)	3 (6%)	
Hyperplasia, Lymphocyte	18 (38%)	16 (33%)	17 (36%)	16 (33%)
INTEGUMENTARY SYSTEM				
Mammary Gland	(50)	(49)	(50)	(50)
Skin	(50)	(50)	(50)	(50)
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)
Femur, Fibro-Osseous Lesion		2 (4%)		1 (2%)
Skeletal Muscle	(0)	(1)	(1)	(0)
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Cyst Epithelial Inclusion			1 (2%)	
Inflammation, Suppurative		1 (2%)		
Meninges, Infiltration Cellular, Mononuclear Cell	2 (4%)			1 (2%)
Neuron, Necrosis	1 (2%)	1 (2%)	1 (2%)	
Thalamus, Fibrosis		1 (2%)		

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RESPIRATORY SYSTEM				
Lung	(50)	(50)	(50)	(50)
Infiltration Cellular, Histiocyte	1 (2%)			
Inflammation, Granulomatous		1 (2%)		
Pigment				1 (2%)
Alveolus, Epithelium, Hyperplasia	1 (2%)			
Nose	(50)	(50)	(50)	(50)
Trachea	(50)	(50)	(50)	(49)
SPECIAL SENSES SYSTEM				
Eye	(50)	(50)	(50)	(50)
Posterior Chamber, Inflammation, Chronic Active			1 (2%)	
Harderian Gland	(50)	(50)	(50)	(50)
Atrophy			1 (2%)	
Hyperplasia	2 (4%)		2 (4%)	1 (2%)
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(49)
Metaplasia, Osseous	1 (2%)			
Nephropathy, Chronic Progressive	13 (26%)	13 (26%)	11 (22%)	13 (27%)
Left, Atrophy			1 (2%)	
Papilla, Inflammation, Suppurative			1 (2%)	
Papilla, Necrosis			1 (2%)	
Renal Tubule, Necrosis			1 (2%)	
Urinary Bladder	(49)	(49)	(50)	(49)
Degeneration	1 (2%)			

*** END OF REPORT ***

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