Test Type: CHRONIC

Route: DOSED FEED

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 09/14/2020 AVERAGE SEVERITY GRADES[b]

Tris(Chloropropyl)phosphate CAS Number: 13674-84-5

Time Report Requested: 10:18:26

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

Lab: BAT

Final 2_Mice

Species/Strain: MICE/B6C3F1/N

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

Tris(Chloropropyl)phosphate **CAS Number:** 13674-84-5

Time Report Requested: 10:18:26 First Dose M/F: 10/25/11 / 10/24/11

Lab: BAT

B6C3F1/N MICE MALE	0 ppm males	1250 ppm males	2500 ppm males	5000 ppm males	
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	
Intestine Small, Jejunum	(50)	(50)	(50)	(50)	
Liver	(50)	(50)	(50)	(50)	
Basophilic Focus	4	4	3	2	
Clear Cell Focus	13	18	12	8	
Eosinophilic Focus	13	16	9	15	
Fatty Change, Focal	3 [1.3]	4 [1.0]	1 [2.0]		
Mixed Cell Focus		2	1	1	
Necrosis	10 [1.5]	8 [1.1]	9 [1.1]	8 [2.8]	
Hepatocyte, Cytoplasmic Alteration	1 [1.0]		2 [1.0]	• •	
Hepatocyte, Vacuolation, Cytoplasmic			1 [3.0]		

(1)

1 [2.0]

(50)

(50)

(50)

Experiment Number: 20712 - 04

Species/Strain: MICE/B6C3F1/N

Test Type: CHRONIC

Route: DOSED FEED

Mesentery Fat, Necrosis

Pancreas

Salivary Glands

Stomach, Forestomach

(1)

(50)

(50)

(50)

(1)

(50)

(50)

(50)

(2)

(50)

(50)

(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)

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 09/14/2020 AVERAGE SEVERITY GRADES[b]

Tris(Chloropropyl)phosphate **CAS Number:** 13674-84-5

Time Report Requested: 10:18:26 First Dose M/F: 10/25/11 / 10/24/11

Lab: BAT

Species/Strain: MICE/B6C3F1/N

Test Type: CHRONIC

Route: DOSED FEED

B6C3F1/N MICE MALE	0 ppm males	1250 ppm males	2500 ppm males	5000 ppm males	
Cyst, Squamous				1	
Inflammation, Suppurative			1 [1.0]		
Ulcer			1 [2.0]		
Epithelium, Hyperplasia, Focal	1 [1.0]		1 [2.0]	1 [3.0]	
Stomach, Glandular	(50)	(50)	(50)	(50)	
CARDIOVASCULAR SYSTEM					
Blood Vessel	(50)	(49)	(49)	(49)	
Heart	(50)	(50)	(50)	(50)	
Cardiomyopathy	1 [1.0]	, ,	, ,	, ,	
Polyarteritis Nodosa	1 [2.0]				
ENDOCRINE SYSTEM					
Adrenal Cortex	(50)	(50)	(50)	(49)	
Hyperplasia, Focal	1 [2.0]	1 [2.0]		3 [1.0]	
Hypertrophy, Focal	14 [1.5]	20 [1.2]	11 [1.3]	6 [1.7]	
Inflammation, Suppurative			1 [2.0]		
Necrosis		1 [4.0]			
Bilateral, Hypertrophy, Focal		2 [2.0]			
Adrenal Medulla	(50)	(50)	(50)	(49)	
Necrosis		1 [4.0]			
Islets, Pancreatic	(50)	(50)	(50)	(50)	
Parathyroid Gland	(42)	(45)	(46)	(46)	
Pituitary Gland	(50)	(46)	(48)	(50)	
Pars Distalis, Hyperplasia		1 [1.0]			
Pars Intermedia, Hyperplasia	1 [2.0]				
Thyroid Gland	(50)	(50)	(50)	(50)	

GENERAL BODY SYSTEM

None

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 09/14/2020 AVERAGE SEVERITY GRADES[b]

Tris(Chloropropyl)phosphate **CAS Number:** 13674-84-5

Time Report Requested: 10:18:26

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

Lab: BAT

Species/Strain: MICE/B6C3F1/N

Test Type: CHRONIC

Route: DOSED FEED

B6C3F1/N MICE MALE	0 ppm males	1250 ppm males	2500 ppm males	5000 ppm males	
GENITAL SYSTEM					
Epididymis	(50)	(50)	(50)	(50)	
Preputial Gland	(50)	(50)	(50)	(50)	
Duct, Dilation				1 [3.0]	
Prostate	(50)	(50)	(50)	(50)	
Inflammation, Suppurative	1 [1.0]		2 [3.0]		
Seminal Vesicle	(50)	(50)	(50)	(50)	
Atrophy	, ,	,	1 [4.0]	1 [2.0]	
Inflammation, Suppurative			1 [3.0]		
Testis	(50)	(50)	(50)	(50)	
Germinal Epithelium, Atrophy	1 [1.0]	, ,	2 [3.0]	1 [4.0]	
HEMATOPOIETIC SYSTEM					
Bone Marrow	(50)	(50)	(50)	(50)	
Hypocellularity	, ,	, ,	1 [3.0]	. ,	
Lymph Node	(4)	(3)	(4)	(3)	
Mediastinal, Hyperplasia, Lymphocyte		1 [3.0]	, ,	. ,	
Lymph Node, Mandibular	(47)	(50)	(50)	(50)	
Lymph Node, Mesenteric	(49)	(49)	(50)	(49)	
Congestion	1 [4.0]	,	(/	1 [4.0]	
Extramedullary Hematopoiesis	1 [2.0]		1 [3.0]		
Spleen	(50)	(50)	(50)	(50)	
Erythrophagocytosis	,	,	1 [3.0]		
Extramedullary Hematopoiesis	23 [2.0]	21 [2.0]	18 [2.9]	20 [2.4]	
Hyperplasia, Lymphocyte			1 [2.0]	1 [3.0]	
Thymus	(46)	(47)	(49)	(46)	
Atrophy	1 [3.0]	1 [2.0]	2 [3.5]	1 [4.0]	
Inflammation, Granulomatous	t	r -1	1 [4.0]		
INTEGUMENTARY SYSTEM					
Skin	(50)	(50)	(50)	(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)

Species/Strain: MICE/B6C3F1/N

Test Type: CHRONIC

Route: DOSED FEED

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 09/14/2020 AVERAGE SEVERITY GRADES[b]

Tris(Chloropropyl)phosphate **CAS Number:** 13674-84-5

Time Report Requested: 10:18:26 First Dose M/F: 10/25/11 / 10/24/11

Lab: BAT

B6C3F1/N MICE MALE	0 ppm males	1250 ppm males	2500 ppm males	5000 ppm males	
MUSCULOSKELETAL SYSTEM					
Bone Femur, Increased Bone	(50)	(50)	(50)	(49) 1 [2.0]	
Skeletal Muscle	(1)	(0)	(1)	(0)	
NERVOUS SYSTEM					
Brain Meninges, Polyarteritis Nodosa	(50) 1 [2.0]	(50)	(50)	(50)	
RESPIRATORY SYSTEM					
Lung Infiltration Cellular, Histiocyte Inflammation, Granulomatous	(50) 1 [2.0]	(50) 1 [1.0]	(50) 1 [2.0]	(50)	
Alveolus, Epithelium, Hyperplasia	1 [1.0]	1 [1.0]	3 [2.0]	1 [3.0]	
Nose	(50)	(50)	(50)	(50)	
Trachea	(50)	(50)	(49)	(50)	
SPECIAL SENSES SYSTEM					
Eye Phthisis Bulbi	(50)	(50)	(50) 1 [4.0]	(50)	
Harderian Gland	(50)	(50)	(50)	(50)	
Hyperplasia	2 [2.0]	1 [1.0]	3 [2.0]	1 [1.0]	
URINARY SYSTEM					
Kidney Infarct	(49)	(50)	(50) 1 [1.0]	(50)	
Metaplasia, Osseous	1 [2.0]	1 [1.0]	1 [1.0]	1 [1.0]	

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 09/14/2020 AVERAGE SEVERITY GRADES[b]

Tris(Chloropropyl)phosphate CAS Number: 13674-84-5

Time Report Requested: 10:18:26

First Dose M/F: 10/25/11 / 10/24/11 **Lab:** BAT

Route: DOSED FEED
Species/Strain: MICE/B6C3F1/N

Test Type: CHRONIC

B6C3F1/N MICE MALE	0 ppm males	1250 ppm males	2500 ppm males	5000 ppm males
Nephropathy, Chronic Progressive	40 [1.1]	45 [1.0]	43 [1.2]	45 [1.1]
Pigment			1 [3.0]	
Capsule, Inflammation, Suppurative			1 [2.0]	
Papilla, Cyst			1	
Renal Tubule, Cyst	1			
Renal Tubule, Cytoplasmic Alteration		28 [1.2]	40 [1.2]	48 [2.3]
Urinary Bladder	(49)	(48)	(50)	(50)

*** 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)

Tris(Chloropropyl)phosphate **CAS Number:** 13674-84-5

Time Report Requested: 10:18:26 First Dose M/F: 10/25/11 / 10/24/11

Lab: BAT

Route: DOSED FEED
Species/Strain: MICE/B6C3F1/N

Test Type: CHRONIC

Experiment Number: 20712 - 04

B6C3F1/N MICE FEMALE	0 ppm females	2500 ppm females	5000ppm females	10000ppm females
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 [4.0]		
Liver	(50)	(50)	(50)	(50)
Basophilic Focus	2	1	5	2
Clear Cell Focus	3	2	3	8
Eosinophilic Focus	1	7	13	16
Fatty Change, Focal	1 [1.0]		1 [1.0]	
Inflammation, Chronic Active		1 [3.0]		
Mixed Cell Focus				1
Necrosis	11 [1.2]	8 [1.3]	5 [1.4]	3 [2.0]
Pigment	1 [2.0]			
Bile Duct, Cyst		1		1
Bile Duct, Cyst, Multiple			1	
Hepatocyte, Cytoplasmic Alteration			2 [1.0]	48 [1.8]
Hepatocyte, Vacuolation, Cytoplasmic	2 [3.5]			
Stellate Cell, Hyperplasia		1 [4.0]		
Mesentery	(4)	(3)	(3)	(0)

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Tris(Chloropropyl)phosphate **CAS Number:** 13674-84-5

Time Report Requested: 10:18:26 First Dose M/F: 10/25/11 / 10/24/11

Lab: BAT

Route: DOSED FEED
Species/Strain: MICE/B6C3F1/N

Test Type: CHRONIC

Experiment Number: 20712 - 04

B6C3F1/N MICE FEMALE	0 ppm females	2500 ppm females	5000ppm females	10000ppm females	
Fat, Necrosis	4 [2.8]	3 [3.0]	3 [3.7]		
Pancreas	(50)	(50)	(50)	(50)	
Cyst		2	1	1	
Acinus, Atrophy	1 [1.0]				
Acinus, Hyperplasia				1 [1.0]	
Salivary Glands	(50)	(49)	(49)	(48)	
Stomach, Forestomach	(50)	(50)	(50)	(50)	
Epithelium, Hyperplasia				1 [1.0]	
Stomach, Glandular	(50)	(50)	(50)	(50)	
Epithelium, Hyperplasia	1 [1.0]	, ,	, ,	· ,	
CARDIOVASCULAR SYSTEM					
Blood Vessel	(50)	(50)	(50)	(50)	
Heart	(50)	(50)	(50)	(50)	
Fibrosis	,	(,	1 [1.0]	
Infiltration Cellular, Mixed Cell				1 [1.0]	
Polyarteritis Nodosa	2 [1.5]	1 [1.0]		1 -1	
Epicardium, Inflammation, Suppurative	-[]	1 [1.0]			
Myocardium, Mineral	1 [2.0]	. []			
Myocardium, Necrosis	. []		1 [1.0]		
Valve, Degeneration		1 [3.0]	1 [4.0]		
Valve, Mineral		1 [3.0]	1		
ENDOCRINE SYSTEM					
Adrenal Cortex	(50)	(50)	(50)	(50)	
Degeneration, Cystic	1 [2.0]	` '	` '		
Hyperplasia, Focal	r -1	1 [1.0]	1 [1.0]		
Hypertrophy, Focal	1 [1.0]	r -1	1 [1.0]	1 [1.0]	
Vacuolation, Cytoplasmic	. []	1 [1.0]	. []	[]	
Adrenal Medulla	(50)	(50)	(50)	(49)	
Hyperplasia, Focal	1 [1.0]	(50)	1 [2.0]	(/	
Islets, Pancreatic	(50)	(50)	(50)	(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)

Experiment Number: 20712 - 04 P18: INCIDENCE RATES O

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 09/14/2020 AVERAGE SEVERITY GRADES[b]

Tris(Chloropropyl)phosphate **CAS Number:** 13674-84-5

Time Report Requested: 10:18:26 First Dose M/F: 10/25/11 / 10/24/11

Lab: BAT

Route: DOSED FEED
Species/Strain: MICE/B6C3F1/N

Test Type: CHRONIC

B6C3F1/N MICE FEMALE	0 ppm females	2500 ppm females	5000ppm females	10000ppm females
Hyperplasia			1 [1.0]	
Pituitary Gland	(50)	(50)	(50)	(49)
Pars Distalis, Hyperplasia	17 [2.0]	5 [2.0]	4 [2.0]	4 [2.8]
Pars Intermedia, Hyperplasia	1 [2.0]			
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 [4.0]	(- /
Follicle, Cyst	8	9	6	11
Rete Ovarii, Cyst		2		
Uterus	(50)	(50)	(50)	(50)
Adenomyosis	,	,	,	1 [1.0]
Dilation	13 [3.3]	18 [3.2]	10 [3.4]	8 [3.1]
Inflammation, Suppurative	3 [2.0]	1 [2.0]		1 [2.0]
Cervix, Inflammation, Suppurative		1 [2.0]		1 [2.0]
Cervix, Metaplasia, Mucous Cell	1 [2.0]			
Endometrium, Hyperplasia, Cystic	45 [1.8]	41 [1.9]	41 [1.9]	40 [1.7]
Vagina	(0)	(0)	(1)	(0)
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(50)	(50)
Fibrosis	(/	2 [1.5]	()	1 [1.0]
Lymph Node	(4)	(5)	(5)	(3)
Hyperplasia, Lymphocyte	\ /	1 [3.0]	ν-7	,
Lumbar, Hemorrhage	1 [3.0]			
Lymph Node, Mandibular	(50)	(50)	(48)	(48)

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)

Tris(Chloropropyl)phosphate **CAS Number:** 13674-84-5

Time Report Requested: 10:18:26 First Dose M/F: 10/25/11 / 10/24/11

Lab: BAT

B6C3F1/N MICE FEMALE	0 ppm females	2500 ppm females	5000ppm females	10000ppm females
Hyperplasia, Lymphocyte	25 [1.4]	22 [1.8]	25 [1.8]	33 [1.9]
Lymph Node, Mesenteric	(49)	(49)	(50)	(49)
Hemorrhage	1 [4.0]	,	,	,
Hyperplasia, Lymphocyte	35 [2.1]	26 [2.5]	27 [2.3]	35 [2.3]
Hyperplasia, Plasma Cell				1 [3.0]
Spleen	(49)	(49)	(50)	(50)
Extramedullary Hematopoiesis	10 [1.7]	11 [2.2]	20 [2.1]	13 [2.0]
Hyperplasia, Lymphocyte	38 [2.8]	36 [3.2]	31 [2.8]	39 [2.9]
White Pulp, Atrophy				1 [4.0]
Thymus	(48)	(48)	(47)	(48)
Atrophy	3 [3.3]	5 [3.0]	3 [3.7]	
Hyperplasia, Lymphocyte	18 [1.7]	16 [1.6]	17 [1.9]	16 [1.8]
INTEGUMENTARY SYSTEM				,
Mammary Gland	(50)	(49)	(50)	(50)
Skin	(50)	(50)	(50)	(50)
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)
Femur, Fibro-Osseous Lesion	(00)	2 [2.5]	(00)	1 [2.0]
Skeletal Muscle	(0)	(1)	(1)	(0)
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Cyst Epithelial Inclusion	(00)	(30)	1	(50)
Inflammation, Suppurative		1 [1.0]	·	
Meninges, Infiltration Cellular, Mononuclear	2 [1.5]	. []		1 [2.0]
Cell	- []			. [1
Neuron, Necrosis	1 [4.0]	1 [1.0]	1 [2.0]	
Thalamus, Fibrosis		1 [2.0]		

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Experiment Number: 20712 - 04

Species/Strain: MICE/B6C3F1/N

Test Type: CHRONIC

Route: DOSED FEED

Tris(Chloropropyl)phosphate **CAS Number:** 13674-84-5

Time Report Requested: 10:18:26

First Dose M/F: 10/25/11 / 10/24/11 **Lab:** BAT

Route: DOSED FEED
Species/Strain: MICE/B6C3F1/N

Test Type: CHRONIC

Experiment Number: 20712 - 04

B6C3F1/N MICE FEMALE	0 ppm females	2500 ppm females	5000ppm females	10000ppm females	
RESPIRATORY SYSTEM					
Lung	(50)	(50)	(50)	(50)	
Infiltration Cellular, Histiocyte	1 [3.0]				
Inflammation, Granulomatous		1 [3.0]			
Pigment	4.54.03			1 [2.0]	
Alveolus, Epithelium, Hyperplasia	1 [1.0]	(50)	(50)	(50)	
Nose	(50)	(50)	(50)	(50)	
Trachea	(50)	(50)	(50)	(49)	
SPECIAL SENSES SYSTEM					
Eye	(50)	(50)	(50)	(50)	
Posterior Chamber, Inflammation, Chronic Active	()	()	1 [3.0]	()	
Harderian Gland	(50)	(50)	(50)	(50)	
Atrophy			1 [2.0]		
Hyperplasia	2 [2.0]		2 [1.5]	1 [1.0]	
URINARY SYSTEM					
Kidney	(50)	(50)	(50)	(49)	
Metaplasia, Osseous	1 [1.0]	, ,	, ,	, ,	
Nephropathy, Chronic Progressive	13 [1.0]	13 [1.0]	11 [1.2]	13 [1.0]	
Left, Atrophy			1 [2.0]		
Papilla, Inflammation, Suppurative			1 [2.0]		
Papilla, Necrosis			1 [3.0]		
Renal Tubule, Necrosis			1 [2.0]		
Urinary Bladder	(49)	(49)	(50)	(49)	
Degeneration	1 [4.0]				

*** END OF REPORT ***

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)