**Experiment Number: 20712 - 04 P05: I** 

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

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

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

Date Report Requested: 09/14/2020

Lab: BAT

Species/Strain: MICE/B6C3F1/N

Test Type: CHRONIC

Route: DOSED FEED

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

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

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, Colon Intestine Large, Rectum	(50)	(50)	(50)	(50)
Intestine Large, Rectum  Intestine Small, Duodenum	(50)	(50)	(50)	(50)
Intestine Small, Ileum	(50)	(50)	(50)	(50)
Intestine Small, Jejunum	(50)	(50)	(50)	(50)
Adenocarcinoma	2 (4%)	(30)	(30)	1 (2%)
Hepatocellular Carcinoma, Metastatic, Liver	2 (470)			1 (2%)
Liver	(50)	(50)	(50)	(50)
Cholangioma	(30)	1 (2%)	(50)	(00)
Hemangioma	1 (2%)	1 (270)	1 (2%)	
Hepatoblastoma	1 (2%)		1 (270)	1 (2%)
Hepatocellular Adenoma	11 (22%)	13 (26%)	12 (24%)	14 (28%)
Hepatocellular Adenoma, Multiple	10 (20%)	10 (20%)	6 (12%)	8 (16%)
Hepatocellular Carcinoma	3 (6%)	13 (26%)	14 (28%)	11 (22%)
Hepatocellular Carcinoma, Multiple	2 (4%)	1 (2%)	3 (6%)	3 (6%)
Hepatocholangiocarcinoma	()	()	1 (2%)	1 (2%)
Mesentery	(1)	(1)	(1)	(2)
Hepatocellular Carcinoma, Metastatic, Liver	` '	` '	1 (100%)	( )
Pancreas	(50)	(50)	(50)	(50)
0 11 01 1	(50)	(50)	(50)	(=0)

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

(50)

Experiment Number: 20712 - 04

Species/Strain: MICE/B6C3F1/N

Test Type: CHRONIC

Route: DOSED FEED

Salivary Glands

(50)

(50)

(50)

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

B6C3F1/N MICE MALE	0 ppm males	1250 ppm males	2500 ppm males	5000 ppm males
Stomach, Forestomach	(50)	(50)	(50)	(50)
Stomach, Glandular	(50)	(50)	(50)	(50)
CARDIOVASCULAR SYSTEM				
Blood Vessel	(50)	(49)	(49)	(49)
Hepatoblastoma, Metastatic, Liver	1 (2%)			
Hepatocellular Carcinoma, Metastatic, Liver			1 (2%)	
Heart	(50)	(50)	(50)	(50)
Hepatoblastoma, Metastatic, Liver	1 (2%)			
Hepatocellular Carcinoma, Metastatic, Liver			1 (2%)	1 (2%)
Hepatocholangiocarcinoma, Metastatic, Liver			1 (2%)	
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(50)	(49)
Adenoma			1 (2%)	
Carcinoma			1 (2%)	
Hepatocellular Carcinoma, Metastatic, Liver			1 (2%)	1 (2%)
Subcapsular, Adenoma	1 (2%)		1 (2%)	
Adrenal Medulla	(50)	(50)	(50)	(49)
Hepatocellular Carcinoma, Metastatic, Liver			1 (2%)	
Pheochromocytoma Benign			2 (4%)	
Islets, Pancreatic	(50)	(50)	(50)	(50)
Adenoma	1 (2%)		1 (2%)	
Parathyroid Gland	(42)	(45)	(46)	(46)
Adenocarcinoma	1 (2%)			
Pituitary Gland	(50)	(46)	(48)	(50)
Thyroid Gland	(50)	(50)	(50)	(50)
Follicular Cell, Adenoma				1 (2%)
Follicular Cell, Carcinoma	1 (2%)		1 (2%)	

#### **GENERAL BODY SYSTEM**

Experiment Number: 20712 - 04

Species/Strain: MICE/B6C3F1/N

Test Type: CHRONIC

Route: DOSED FEED

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

Test Type: CHRONIC Tris(Chloropropyl)phosphate

Route: DOSED FEED CAS Number: 13674-84-5

Experiment Number: 20712 - 04

Species/Strain: MICE/B6C3F1/N

Time Report Requested: 10:18:26

Date Report Requested: 09/14/2020

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

B6C3F1/N MICE MALE	0 ppm males	1250 ppm males	2500 ppm males	5000 ppm males	
None					
GENITAL SYSTEM					
Epididymis	(50)	(50)	(50)	(50)	
Preputial Gland	(50)	(50)	(50)	(50)	
Prostate	(50)	(50)	(50)	(50)	
Seminal Vesicle	(50)	(50)	(50)	(50)	
Testis	(50)	(50)	(50)	(50)	
Interstitial Cell, Adenoma		1 (2%)		1 (2%)	
HEMATOPOIETIC SYSTEM					
Bone Marrow	(50)	(50)	(50)	(50)	
Lymph Node	(4)	(3)	(4)	(3)	
Lymph Node, Mandibular	(47)	(50)	(50)	(50)	
Adenocarcinoma, Metastatic, Harderian Gland	1 (2%)				
Lymph Node, Mesenteric	(49)	(49)	(50)	(49)	
Spleen	(50)	(50)	(50)	(50)	
Hemangiosarcoma	2 (4%)		2 (4%)		
Thymus	(46)	(47)	(49)	(46)	
Hepatocellular Carcinoma, Metastatic, Liver				1 (2%)	
INTEGUMENTARY SYSTEM					
Skin	(50)	(50)	(50)	(50)	
Hepatocellular Carcinoma, Metastatic, Liver	(30)	(30)	1 (2%)	(30)	
Subcutaneous Tissue, Fibrosarcoma	2 (4%)		1 (270)		
Subcutaneous Tissue, Fibrous Histiocytoma Malignant	2 (470)	1 (2%)	1 (2%)		
MUSCULOSKELETAL SYSTEM					
Bone	(50)	(50)	(50)	(49)	
a - Number of animals examined microscopically	at site and numbe	r of animals with lesic	n		

#### Experiment Number: 20712 - 04 P05: INCIDENCE RATES OF NEC

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: MICE/B6C3F1/N

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (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

B6C3F1/N MICE MALE	0 ppm males	1250 ppm males	2500 ppm males	5000 ppm males	
Osteosarcoma			1 (2%)		
Skeletal Muscle	(1)	(0)	(1)	(0)	
Hepatoblastoma, Metastatic, Liver	1 (100%)				
NERVOUS SYSTEM					
Brain	(50)	(50)	(50)	(50)	
RESPIRATORY SYSTEM					
Lung	(50)	(50)	(50)	(50)	
Adenocarcinoma, Metastatic, Harderian Gland	1 (2%)	. ,	. ,	· ,	
Alveolar/Bronchiolar Adenoma	7 (14%)	6 (12%)	3 (6%)	5 (10%)	
Alveolar/Bronchiolar Adenoma, Multiple	1 (2%)	1 (2%)	·	•	
Alveolar/Bronchiolar Carcinoma		1 (2%)	4 (8%)		
Alveolar/Bronchiolar Carcinoma, Multiple	1 (2%)				
Hepatoblastoma, Metastatic, Liver	1 (2%)				
Hepatocellular Carcinoma, Metastatic, Liver	2 (4%)	6 (12%)	5 (10%)	4 (8%)	
Hepatocholangiocarcinoma, Metastatic, Liver			1 (2%)		
Nose	(50)	(50)	(50)	(50)	
Trachea	(50)	(50)	(49)	(50)	
SPECIAL SENSES SYSTEM					
Eye	(50)	(50)	(50)	(50)	
Harderian Gland	(50)	(50)	(50)	(50)	
Adenocarcinoma	2 (4%)	(/	()	()	
Adenoma	. ,	2 (4%)	5 (10%)	2 (4%)	
URINARY SYSTEM					
Kidney	(49)	(50)	(50)	(50)	
Hepatoblastoma, Metastatic, Liver	1 (2%)	(00)	(00)	(00)	
paradiana, matadana, Error	. (= /0)				

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

# P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (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

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	
Hepatocellular Carcinoma, Metastatic, Liver			1 (2%)	1 (2%)	
Renal Tubule, Adenoma	1 (2%)				
Urinary Bladder	(49)	(48)	(50)	(50)	
SYSTEMIC LESIONS					
Multiple Organ	*(50)	*(50)	*(50)	*(50)	
Histiocytic Sarcoma	,	, ,	2 (4%)	1 (2%)	
	= (400()	6 (400/)	4 (8%)	3 (6%)	
Lymphoma Malignant	5 (10%)	6 (12%)	<del>-</del> (0 /0)	3 (370)	

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

<sup>\*</sup> Number of animals with any tissue examined microscopically

Species/Strain: MICE/B6C3F1/N

Test Type: CHRONIC

Route: DOSED FEED

# P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (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

B6C3F1/N MICE MALE	0 ppm males	1250 ppm males	2500 ppm males	5000 ppm males	
Tumor Summary for Males					
Total Animals with Primary Neoplasms (b)	34	39	44	38	
Total Primary Neoplasms	55	57	66	53	
Total Animals with Benign Neoplasms	25	29	25	27	
Total Benign Neoplasms	33	34	32	31	
Total Animals with Malignant Neoplasms	20	21	30	22	
Total Malignant Neoplasms	22	23	34	22	
Total Animals with Metastatic Neoplasms	4	6	6	4	
Total Metastatic Neoplasms	9	6	14	9	
Total Animals with Malignant Neoplasms Uncertain Primary Site					
Total Animals with Neoplasms Uncertain- Benign or Malignant					
Total Uncertain Neoplasms					

<sup>\*\*\*</sup> END OF MALE \*\*\*

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

b - Primary tumors: all tumors except metastatic tumors

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

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)
Leiomyoma			1 (2%)	
Intestine Large, Colon	(50)	(50)	(50)	(50)
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Intestine Small, Duodenum	(50)	(50)	(50)	(50)
Adenocarcinoma		1 (2%)		
Intestine Small, Ileum	(50)	(50)	(50)	(50)
Intestine Small, Jejunum	(50)	(50)	(50)	(50)
Liver	(50)	(50)	(50)	(50)
Hemangiosarcoma	1 (2%)			
Hepatocellular Adenoma	9 (18%)	5 (10%)	10 (20%)	16 (32%)
Hepatocellular Adenoma, Multiple	2 (4%)		3 (6%)	7 (14%)
Hepatocellular Carcinoma	1 (2%)	1 (2%)	4 (8%)	10 (20%)
Hepatocellular Carcinoma, Multiple		1 (2%)	1 (2%)	
Mesentery	(4)	(3)	(3)	(0)
Pancreas	(50)	(50)	(50)	(50)
Salivary Glands	(50)	(49)	(49)	(48)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Squamous Cell Papilloma	1 (2%)			
Stomach, Glandular	(50)	(50)	(50)	(50)

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

Experiment Number: 20712 - 04

Species/Strain: MICE/B6C3F1/N

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: MICE/B6C3F1/N

Test Type: CHRONIC

Route: DOSED FEED

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (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

B6C3F1/N MICE FEMALE	0 ppm females	2500 ppm females	5000ppm females	10000ppm females	
CARDIOVASCULAR SYSTEM					
Blood Vessel	(50)	(50)	(50)	(50)	
Heart	(50)	(50)	(50)	(50)	
Hemangiosarcoma			1 (2%)		
ENDOCRINE SYSTEM					
Adrenal Cortex	(50)	(50)	(50)	(50)	
Adrenal Medulla	(50)	(50)	(50)	(49)	
Pheochromocytoma Benign	1 (2%)				
Islets, Pancreatic	(50)	(50)	(50)	(50)	
Adenoma			1 (2%)		
Parathyroid Gland	(43)	(42)	(41)	(43)	
Pituitary Gland	(50)	(50)	(50)	(49)	
Pars Distalis, Adenoma	3 (6%)	2 (4%)	1 (2%)	· ,	
Pars Intermedia, Adenoma		1 (2%)	1 (2%)		
Thyroid Gland	(49)	(50)	(50)	(48)	
Follicular Cell, Adenoma	, ,	,	1 (2%)		
GENERAL BODY SYSTEM					
None					

#### GENITAL SYSTEM

<b>7</b> >	<i>(</i> = -)	4.5	
(50)	(50)	(49)	(49)
(49)	(50)	(50)	(49)
			1 (2%)
1 (2%)		1 (2%)	
(50)	(50)	(50)	(50)
		1 (2%)	
			1 (2%)
		1 (2%)	
	1 (2%)	(49) (50) 1 (2%)	(49)     (50)     (50)       1 (2%)     1 (2%)       (50)     (50)     (50)       1 (2%)     1 (2%)

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

Test Type: CHRONIC Route: DOSED FEED

Species/Strain: MICE/B6C3F1/N

Experiment Number: 20712 - 04

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

B6C3F1/N MICE FEMALE	0 ppm females	2500 ppm females	5000ppm females	10000ppm females
Polyp Stromal	1 (2%)	1 (2%)	1 (2%)	2 (4%)
Endometrium, Adenoma		1 (2%)		
Vagina	(0)	(0)	(1)	(0)
Fibrosarcoma, Metastatic, Skin			1 (100%)	
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(50)	(50)
Lymph Node	(4)	(5)	(5)	(3)
Inguinal, Hemangiosarcoma			1 (20%)	
Lumbar, Hemangiosarcoma	1 (25%)			
Pancreatic, Hepatocellular Carcinoma, Metastatic, Liver				1 (33%)
Lymph Node, Mandibular	(50)	(50)	(48)	(48)
Lymph Node, Mesenteric	(49)	(49)	(50)	(49)
Spleen	(49)	(49)	(50)	(50)
Hemangiosarcoma	1 (2%)		1 (2%)	
Thymus	(48)	(48)	(47)	(48)
INTEGUMENTARY SYSTEM				
Mammary Gland	(50)	(49)	(50)	(50)
Adenocarcinoma	()	1 (2%)	1 (2%)	()
Adenoma	2 (4%)	( 7	(,	
Skin	(50)	(50)	(50)	(50)
Basal Cell Adenoma	,	, ,	,	1 (2%)
Squamous Cell Carcinoma				1 (2%)
Subcutaneous Tissue, Fibrosarcoma			3 (6%)	, ,
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)
Tibia, Osteosarcoma	1 (2%)	(50)	(30)	(00)
		(1)	(1)	(0)
Skeletal Muscle	(0)	(1)	(1)	(0)

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

#### Experiment Number: 20712 - 04 P05: IN

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: MICE/B6C3F1/N

# P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (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

B6C3F1/N MICE FEMALE	0 ppm females	2500 ppm females	5000ppm females	10000ppm females	
Hindlimb, Fibrosarcoma, Metastatic, Skin			1 (100%)		
NERVOUS SYSTEM					
Brain	(50)	(50)	(50)	(50)	
RESPIRATORY SYSTEM					
Lung	(50)	(50)	(50)	(50)	
Adenocarcinoma, Metastatic, Mammary Gland		1 (2%)			
Alveolar/Bronchiolar Adenoma	3 (6%)	2 (4%)	5 (10%)		
Alveolar/Bronchiolar Carcinoma		2 (4%)			
Alveolar/Bronchiolar Carcinoma, Multiple	1 (2%)				
Fibrosarcoma, Metastatic, Skin			2 (4%)		
Hepatocellular Carcinoma, Metastatic, Liver	1 (2%)	1 (2%)	1 (2%)	1 (2%)	
Nose	(50)	(50)	(50)	(50)	
Carcinoma	1 (2%)	(50)	(50)	(10)	
Trachea	(50)	(50)	(50)	(49)	
SPECIAL SENSES SYSTEM					
Eye	(50)	(50)	(50)	(50)	
Harderian Gland	(50)	(50)	(50)	(50)	
Adenocarcinoma	2 (4%)	( )	,	,	
Adenoma	3 (6%)	2 (4%)	1 (2%)		
Bilateral, Adenoma	1 (2%)	` '	, <i>,</i>		
URINARY SYSTEM					
Kidney	(50)	(50)	(50)	(49)	
Urinary Bladder	(49)	(49)	(50)	(49)	

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

<sup>\*</sup> Number of animals with any tissue examined microscopically

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

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

Time Report Requested: 10:18:26

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

Date Report Requested: 09/14/2020

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	
SYSTEMIC LESIONS					
Multiple Organ Histiocytic Sarcoma	*(50)	*(50) 1 (2%)	*(50)	*(50) 1 (2%)	
Lymphoma Malignant Mesothelioma Malignant	8 (16%)	7 (14%) 1 (2%)	7 (14%)	6 (12%)	

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

<sup>\*</sup> Number of animals with any tissue examined microscopically

Species/Strain: MICE/B6C3F1/N

**Total Uncertain Neoplasms** 

Test Type: CHRONIC

Route: DOSED FEED

#### P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (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

B6C3F1/N MICE FEMALE	0 ppm females	2500 ppm females	5000ppm females	10000ppm females	
Tumor Summary for Females					
Total Animals with Primary Neoplasms (b)	27	21	30	37	
Total Primary Neoplasms	44	29	47	46	
Total Animals with Benign Neoplasms	21	12	19	28	
Total Benign Neoplasms	27	14	26	28	
Total Animals with Malignant Neoplasms	12	13	16	18	
Total Malignant Neoplasms	17	15	21	18	
Total Animals with Metastatic Neoplasms	1	1	3	2	
Total Metastatic Neoplasms	1	2	5	2	
Total Animals with Malignant Neoplasms Uncertain Primary Site					
Total Animals with Neoplasms Uncertain- Benign or Malignant					

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

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

b - Primary tumors: all tumors except metastatic tumors