

Experiment Number: 10987 - 02

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

Date Report Requested: 06/04/2018

Test Type: CHRONIC

Dibutyl Phthalate

Time Report Requested: 09:07:59

Route: DOSED FEED

CAS Number: 84-74-2

First Dose M/F: 08/17/10 / 08/16/10

Species/Strain: MICE/B6C3F1/N

Lab: BAT

Mice_Final Version 1

NTP Study Number: C10987
Lock Date: 11/26/2013
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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Species/Strain: MICE/B6C3F1/N

Lab: BAT

B6C3F1/N MICE MALE	0 ppm	1000 ppm	3000 ppm	10000 ppm
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Disposition Summary

Animals Initially In Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	2	2	1	2
Natural Death	4	8	11	5
Survivors				
Moribund Sacrifice			2	
Natural Death		1		
Terminal Sacrifice	44	39	36	43
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(49)
Gallbladder	(50)	(48)	(49)	(49)
Inflammation, Chronic Active		1 [1.0]		
Intestine Large, Cecum	(50)	(49)	(49)	(50)
Intestine Large, Colon	(50)	(49)	(49)	(50)
Intestine Large, Rectum	(50)	(49)	(50)	(50)
Intestine Small, Duodenum	(50)	(49)	(48)	(50)
Intestine Small, Ileum	(49)	(49)	(48)	(50)
Inflammation, Chronic Active			2 [1.5]	
Epithelium, Hyperplasia			1 [1.0]	
Intestine Small, Jejunum	(50)	(49)	(48)	(50)
Inflammation, Chronic Active	1 [2.0]			
Ulcer	1 [4.0]	1 [4.0]		
Epithelium, Hyperplasia		1 [2.0]		
Peyer's Patch, Hyperplasia, Lymphocyte	2 [4.0]		2 [2.5]	4 [3.5]
Liver	(50)	(50)	(50)	(50)
Amyloid		1 [2.0]		
Angiectasis	1 [2.0]	1 [1.0]		
Basophilic Focus	4	4	6	3
Clear Cell Focus	10	15	9	5
Eosinophilic Focus	7	12	8	1
Extramedullary Hematopoiesis		4 [1.3]		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)

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Lab: BAT

B6C3F1/N MICE MALE	0 ppm	1000 ppm	3000 ppm	10000 ppm
Fatty Change	4 [1.3]	2 [1.5]	3 [1.0]	
Fatty Change, Focal		1 [1.0]		
Hemorrhage	1 [2.0]			
Infiltration Cellular, Mononuclear Cell		2 [1.5]		
Inflammation, Granulomatous				1 [4.0]
Inflammation, Chronic Active	1 [1.0]			
Mineral				1 [3.0]
Mixed Cell Focus	10	10	5	3
Necrosis	4 [2.0]	7 [1.3]	6 [1.5]	7 [2.1]
Pigment	1 [1.0]			2 [1.0]
Tension Lipidosis	1		1 [1.0]	2
Thrombus	1 [1.0]			1 [2.0]
Bile Duct, Accumulation, Hyaline Droplet	2 [2.0]			
Bile Duct, Cyst		1		1
Bile Duct, Hyperplasia		1 [2.0]		
Bile Duct, Inflammation, Chronic Active	1 [2.0]			
Hepatocyte, Cytoplasmic Alteration				36 [1.0]
Hepatocyte, Multinucleated	8 [1.0]	11 [1.0]	25 [1.0]	42 [1.0]
Mesentery	(3)	(1)	(0)	(0)
Fat, Necrosis	2 [4.0]	1 [4.0]		
Pancreas	(50)	(50)	(49)	(50)
Fibrosis	1 [1.0]			
Inflammation, Chronic Active				1 [2.0]
Acinus, Atrophy	2 [2.0]			
Salivary Glands	(49)	(50)	(50)	(50)
Atrophy			1 [1.0]	
Infiltration Cellular, Mononuclear Cell	1 [1.0]			
Duct, Hyperplasia			1 [2.0]	
Stomach, Forestomach	(50)	(50)	(50)	(50)
Ulcer	1 [3.0]	1 [2.0]		
Epithelium, Cyst, Squamous		1		
Epithelium, Hyperplasia	3 [2.7]	1 [3.0]		1 [1.0]
Stomach, Glandular	(50)	(50)	(50)	(50)
Metaplasia, Squamous	1 [1.0]			
Mineral				1 [2.0]
Epithelium, Cyst		2		

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B6C3F1/N MICE MALE	0 ppm	1000 ppm	3000 ppm	10000 ppm
Epithelium, Cytoplasmic Alteration		1 [1.0]	1 [1.0]	
Epithelium, Hyperplasia	1 [1.0]			
Epithelium, Ulcer				1 [1.0]
Tooth	(6)	(12)	(7)	(9)
Dysplasia	6 [1.2]	12 [2.5]	7 [2.0]	9 [1.3]
Inflammation, Suppurative		1 [4.0]		1 [4.0]
Necrosis		1 [3.0]		

CARDIOVASCULAR SYSTEM

Blood Vessel	(50)	(50)	(50)	(49)
Mineral			1 [2.0]	
Aorta, Hemorrhage			2 [2.5]	
Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	11 [1.2]	14 [1.3]	8 [1.1]	14 [1.0]
Inflammation	1 [1.0]			
Mineral	1 [1.0]			
Thrombus				1 [2.0]
Valve, Angiectasis				1 [2.0]

ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(50)	(50)	(50)
Hemorrhage			1 [3.0]	
Hypertrophy, Focal	2 [1.5]	1 [2.0]	6 [1.3]	
Bilateral, Hypertrophy, Focal	1 [1.0]	1 [2.0]		
Subcapsular, Hyperplasia	22 [1.1]	26 [1.4]	27 [1.2]	20 [1.1]
Adrenal Medulla	(50)	(50)	(50)	(50)
Hyperplasia	1 [2.0]			
Islets, Pancreatic	(50)	(50)	(49)	(50)
Atrophy		1 [4.0]		
Hyperplasia	11 [1.7]	11 [1.9]	11 [1.4]	7 [1.1]
Parathyroid Gland	(40)	(45)	(36)	(40)
Cyst			1	
Pituitary Gland	(48)	(49)	(48)	(48)

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Lab: BAT

B6C3F1/N MICE MALE	0 ppm	1000 ppm	3000 ppm	10000 ppm
Thyroid Gland	(50)	(50)	(48)	(50)
Follicle, Cyst		2	1	1
Follicle, Degeneration	1 [1.0]			1 [2.0]

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Coagulating Gland	(0)	(1)	(4)	(1)
Bilateral, Atrophy		1 [3.0]	3 [3.0]	1 [3.0]
Epididymis	(50)	(50)	(50)	(50)
Hypospermia		3 [3.7]		1 [4.0]
Infiltration Cellular, Lymphocyte		1 [2.0]		
Inflammation, Chronic	1 [2.0]			1 [3.0]
Sperm Granuloma		2 [1.5]		2 [2.0]
Bilateral, Hypospermia	1 [3.0]	1 [3.0]	3 [3.3]	2 [2.5]
Bilateral, Duct, Atrophy		1 [3.0]	3 [3.0]	1 [3.0]
Bilateral, Duct, Exfoliated Germ Cell	4 [1.3]	7 [1.3]	5 [2.0]	8 [1.9]
Duct, Exfoliated Germ Cell	2 [1.5]	3 [1.3]		5 [1.2]
Preputial Gland	(50)	(50)	(50)	(50)
Cyst		1		
Inflammation, Chronic Active	1 [2.0]			
Prostate	(50)	(50)	(50)	(50)
Infiltration Cellular, Lymphocyte			1 [1.0]	
Seminal Vesicle	(50)	(50)	(50)	(50)
Inflammation, Chronic			1 [3.0]	
Bilateral, Atrophy	1 [3.0]	1 [3.0]	3 [3.0]	1 [3.0]
Testis	(50)	(50)	(50)	(50)
Bilateral, Germinal Epithelium, Degeneration	5 [2.4]	10 [1.9]	6 [2.3]	12 [2.3]
Bilateral, Interstitial Cell, Atrophy	2 [3.0]	1 [3.0]	2 [3.0]	3 [3.0]
Germinal Epithelium, Degeneration	1 [1.0]	5 [1.6]	3 [1.3]	3 [1.7]
Interstitial Cell, Hyperplasia, Focal		1 [1.0]		
Seminiferous Tubule, Mineral		1 [1.0]		

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B6C3F1/N MICE MALE	0 ppm	1000 ppm	3000 ppm	10000 ppm
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(49)	(50)
Hypercellularity	4 [2.3]	3 [3.0]		3 [2.7]
Hypocellularity	1 [1.0]	1 [2.0]	1 [2.0]	1 [2.0]
Pigment			1 [1.0]	
Lymph Node	(2)	(2)	(2)	(1)
Mediastinal, Infiltration Cellular, Plasma Cell		1 [4.0]		
Renal, Hyperplasia, Lymphocyte				1 [3.0]
Renal, Infiltration Cellular, Mixed Cell				1 [3.0]
Lymph Node, Mandibular	(49)	(48)	(49)	(46)
Atrophy		4 [3.3]	2 [2.0]	
Hyperplasia, Lymphoid	5 [2.6]	2 [2.5]	1 [3.0]	1 [2.0]
Infiltration Cellular, Plasma Cell		2 [2.0]	1 [3.0]	
Lymph Node, Mesenteric	(48)	(48)	(47)	(49)
Angiectasis	1 [2.0]			
Extramedullary Hematopoiesis		1 [3.0]	2 [2.5]	6 [2.2]
Hemorrhage	1 [2.0]			1 [3.0]
Hyperplasia, Lymphocyte	10 [2.6]	4 [2.5]	7 [2.7]	7 [2.4]
Infiltration Cellular, Mast Cell				1 [2.0]
Infiltration Cellular, Mixed Cell	2 [2.0]			2 [1.5]
Infiltration Cellular, Plasma Cell			1 [2.0]	1 [2.0]
Inflammation, Chronic		1 [4.0]		
Spleen	(50)	(50)	(50)	(50)
Amyloid		1 [2.0]		
Angiectasis		1 [1.0]		
Extramedullary Hematopoiesis	21 [1.9]	21 [2.1]	23 [2.0]	22 [2.0]
Hyperplasia, Lymphocyte	19 [1.9]	18 [1.6]	15 [2.1]	15 [2.1]
Pigment	1 [2.0]	1 [1.0]		
White Pulp, Atrophy	4 [3.0]	8 [3.3]	7 [3.1]	7 [2.6]
Thymus	(45)	(46)	(46)	(46)
Atrophy	11 [2.5]	18 [3.0]	12 [2.7]	10 [3.4]
Cyst		3	2	3
Hemorrhage			1 [4.0]	

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Hyperplasia, Lymphoid				1 [3.0]

INTEGUMENTARY SYSTEM

Mammary Gland	(2)	(2)	(1)	(3)
Skin	(50)	(50)	(50)	(50)
Edema		1 [2.0]		
Hair Follicle, Inflammation, Chronic Active	1 [2.0]			
Subcutaneous Tissue, Infiltration Cellular, Mononuclear Cell	1 [2.0]			

MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(50)
Osteopetrosis		1 [1.0]		
Intervertebral Disc, Degeneration				2 [2.0]
Joint, Degeneration			1 [2.0]	
Skeletal Muscle	(0)	(1)	(1)	(0)

NERVOUS SYSTEM

Brain	(50)	(50)	(50)	(50)
Bacterium				1
Inflammation, Suppurative				1 [4.0]
Metaplasia, Osseous				1 [1.0]
Neuron, Necrosis	1 [2.0]			
Spinal Cord	(0)	(0)	(0)	(1)
Axon, Degeneration				1 [1.0]

RESPIRATORY SYSTEM

Lung	(50)	(50)	(50)	(50)
Extramedullary Hematopoiesis		1 [2.0]		
Fibrosis	1 [2.0]			

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Hemorrhage	1 [2.0]			
Infiltration Cellular, Histiocyte	1 [2.0]			
Infiltration Cellular, Mononuclear Cell	1 [2.0]			4 [1.8]
Inflammation, Granulomatous			1 [3.0]	
Inflammation, Chronic Active		1 [1.0]		
Mineral			1 [1.0]	
Alveolar Epithelium, Hyperplasia	4 [2.0]	4 [2.0]	4 [1.5]	3 [1.7]
Artery, Inflammation, Suppurative			1 [3.0]	
Nose	(50)	(50)	(50)	(50)
Eosinophilic Material	47 [1.0]	45 [1.0]	42 [1.0]	49 [1.0]
Inflammation	2 [1.0]	1 [2.0]	4 [1.5]	3 [1.0]
Polyp, Inflammatory		1 [3.0]	1 [3.0]	
Olfactory Epithelium, Accumulation, Hyaline Droplet			1 [2.0]	1 [1.0]
Olfactory Epithelium, Atrophy	1 [2.0]			
Olfactory Epithelium, Metaplasia, Respiratory	5 [1.0]	2 [1.0]	1 [1.0]	4 [1.0]
Respiratory Epithelium, Accumulation, Hyaline Droplet	2 [1.0]	1 [2.0]	2 [1.0]	
Respiratory Epithelium, Hyperplasia	17 [1.0]	9 [1.0]	10 [1.2]	18 [1.0]
Trachea	(50)	(50)	(50)	(50)

SPECIAL SENSES SYSTEM

Eye	(50)	(50)	(50)	(50)
Phthisis Bulbi	1			1
Harderian Gland	(50)	(50)	(50)	(50)
Hyperplasia	1 [4.0]	1 [1.0]	1 [2.0]	2 [2.0]
Inflammation, Chronic Active	2 [3.0]		1 [3.0]	

URINARY SYSTEM

Kidney	(50)	(50)	(50)	(50)
Cyst			2	1
Infarct	5 [1.0]	7 [1.4]	1 [1.0]	
Inflammation, Chronic Active			1 [2.0]	

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Metaplasia, Osseous Mineral	3 1 [1.0]	2 [1.0]	6 [1.2]	2 [1.5]
Nephropathy, Chronic Progressive Glomerulus, Cyst	44 [1.2]	45 [1.1]	42 [1.1]	37 [1.3]
Interstitial, Infiltration Cellular, Lymphocyte	1 [2.0]		2	
Interstitial, Infiltration Cellular, Mononuclear Cell		1 [1.0]		
Papilla, Necrosis		1 [1.0]		
Pelvis, Dilation			3 [2.3]	
Pelvis, Inflammation, Suppurative		1 [2.0]	1 [2.0]	
Renal Tubule, Accumulation, Hyaline Droplet		1 [2.0]		
Renal Tubule, Cyst	4	5	1	
Renal Tubule, Hyperplasia	1 [1.0]			
Renal Tubule, Pigment			1 [3.0]	
Urinary Bladder	(50)	(50)	(50)	(50)
Calculus Gross Observation			1	
Infiltration Cellular, Mononuclear Cell				1 [1.0]
Inflammation, Chronic Active			1 [2.0]	

*** END OF MALE ***

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Disposition Summary

Animals Initially In Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	1	1		
Natural Death	7	7	6	3
Survivors				
Terminal Sacrifice	42	42	44	47
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Esophagus	(49)	(50)	(49)	(50)
Gallbladder	(50)	(50)	(49)	(48)
Intestine Large, Cecum	(50)	(50)	(47)	(48)
Hemorrhage			1 [4.0]	
Necrosis			1 [4.0]	
Lymphoid Tissue, Hyperplasia	1 [2.0]			
Intestine Large, Colon	(50)	(50)	(47)	(48)
Intestine Large, Rectum	(50)	(50)	(47)	(49)
Intestine Small, Duodenum	(50)	(50)	(47)	(48)
Intestine Small, Ileum	(50)	(50)	(47)	(48)
Inflammation, Suppurative			1 [4.0]	
Inflammation, Chronic Active	1 [2.0]			
Epithelium, Hyperplasia	2 [2.0]		1 [1.0]	
Goblet Cell, Hyperplasia	1 [2.0]			
Intestine Small, Jejunum	(50)	(50)	(47)	(48)
Hyperplasia, Lymphoid			1 [2.0]	
Inflammation, Suppurative			1 [4.0]	
Inflammation, Chronic			1 [1.0]	
Inflammation, Chronic Active		1 [2.0]	1 [2.0]	
Epithelium, Hyperplasia		2 [3.0]		
Peyer's Patch, Hyperplasia, Lymphocyte	1 [4.0]	2 [2.0]	1 [4.0]	1 [1.0]
Liver	(50)	(50)	(49)	(49)
Angiectasis			1 [1.0]	
Basophilic Focus	6	3	3	1

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Clear Cell Focus		1		
Eosinophilic Focus	1	2		1
Extramedullary Hematopoiesis	2 [2.5]	1 [2.0]		1 [2.0]
Infiltration Cellular, Mononuclear Cell	2 [1.5]	3 [2.0]	1 [1.0]	
Inflammation, Focal	2 [1.5]	2 [1.0]	2 [1.0]	5 [1.0]
Inflammation, Chronic Active	1 [1.0]			
Mixed Cell Focus	2		1	1
Necrosis	4 [1.3]	3 [1.7]	2 [1.5]	
Tension Lipidosis	3 [1.0]	5		
Bile Duct, Accumulation, Hyaline Droplet				1 [2.0]
Endothelium, Hyperplasia	1 [2.0]			
Hepatocyte, Cytoplasmic Alteration				48 [1.0]
Mesentery	(1)	(2)	(2)	(2)
Hemorrhage				1 [4.0]
Fat, Necrosis	1 [3.0]	1 [3.0]	2 [3.5]	
Pancreas	(50)	(49)	(48)	(49)
Infiltration Cellular, Lymphocyte	1 [2.0]			
Duct, Cyst			2	1
Salivary Glands	(50)	(50)	(49)	(50)
Stomach, Forestomach	(50)	(50)	(49)	(49)
Ulcer		1 [2.0]		
Epithelium, Hyperplasia	2 [2.5]		1 [2.0]	
Stomach, Glandular	(50)	(50)	(49)	(49)
Cyst	1		1	
Inflammation, Chronic Active		1 [2.0]		
Metaplasia, Squamous		1 [1.0]		
Mineral	1 [2.0]			
Epithelium, Cyst		1		1
Epithelium, Cytoplasmic Alteration		1 [2.0]		
Epithelium, Hyperplasia	1 [1.0]	1 [1.0]		
Tooth	(2)	(1)	(0)	(0)
Dysplasia	1 [1.0]			
Inflammation, Chronic Active	1 [2.0]			
Necrosis	1 [2.0]	1 [2.0]		

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Lab: BAT

B6C3F1/N MICE FEMALE	0 ppm	1000 ppm	3000 ppm	10000 ppm
CARDIOVASCULAR SYSTEM				
Blood Vessel	(49)	(50)	(49)	(49)
Inflammation, Chronic Active		2 [2.0]	1 [2.0]	4 [1.5]
Mineral	2 [2.0]			
Heart	(50)	(50)	(49)	(50)
Cardiomyopathy	19 [1.1]	7 [1.0]	11 [1.1]	12 [1.2]
Infiltration Cellular, Mixed Cell				1 [2.0]
Thrombus			1 [2.0]	
Endocardium, Hyperplasia			1 [1.0]	
Endothelium, Hyperplasia	1 [2.0]			
Valve, Bacterium	2			
Valve, Inflammation, Chronic	1 [1.0]			
Valve, Inflammation, Chronic Active	1 [1.0]			
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(49)	(49)
Angiectasis	1 [2.0]			
Extramedullary Hematopoiesis		1 [2.0]		1 [2.0]
Hyperplasia, Focal				1 [2.0]
Subcapsular, Hyperplasia	44 [1.4]	38 [1.2]	41 [1.4]	49 [1.7]
Adrenal Medulla	(49)	(50)	(49)	(49)
Hyperplasia			1 [2.0]	1 [4.0]
Islets, Pancreatic	(50)	(50)	(48)	(49)
Hyperplasia	2 [1.5]	1 [2.0]		
Parathyroid Gland	(43)	(47)	(36)	(33)
Cyst	1			
Pituitary Gland	(49)	(49)	(48)	(47)
Angiectasis		1 [3.0]	1 [2.0]	
Pars Distalis, Hyperplasia	2 [1.5]		2 [2.5]	1 [1.0]
Pars Intermedia, Hyperplasia			2 [1.5]	
Thyroid Gland	(50)	(50)	(48)	(49)
Infiltration Cellular, Mononuclear Cell		1 [1.0]		
Follicle, Cyst	2	4	3	

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Test Type: CHRONIC

Dibutyl Phthalate

Time Report Requested: 09:07:59

Route: DOSED FEED

CAS Number: 84-74-2

First Dose M/F: 08/17/10 / 08/16/10

Species/Strain: MICE/B6C3F1/N

Lab: BAT

B6C3F1/N MICE FEMALE	0 ppm	1000 ppm	3000 ppm	10000 ppm
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GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Clitoral Gland	(50)	(49)	(49)	(49)
Ovary	(48)	(50)	(48)	(50)
Angiectasis	2 [2.5]			
Atrophy	24 [2.1]	29 [3.3]	20 [2.8]	25 [2.3]
Cyst	6	10	7	4
Inflammation, Suppurative	1 [4.0]			
Thrombus			1 [2.0]	
Follicle, Cyst	1			1
Granulosa Cell, Hyperplasia	1 [4.0]	1 [4.0]		
Interstitial Cell, Hyperplasia		1 [2.0]		2 [1.5]
Oviduct	(0)	(0)	(1)	(0)
Mineral			1 [1.0]	
Uterus	(50)	(50)	(49)	(50)
Angiectasis	1 [2.0]		1 [3.0]	1 [2.0]
Fibrosis			1 [1.0]	
Inflammation, Suppurative			1 [2.0]	
Inflammation, Chronic Active				1 [2.0]
Metaplasia, Squamous			1 [2.0]	
Thrombus				1 [4.0]
Endometrium, Degeneration, Muroid	1 [1.0]			
Endometrium, Hyperplasia, Cystic	38 [1.9]	29 [2.4]	38 [2.3]	36 [1.9]
Myometrium, Hyperplasia				1 [2.0]
Vagina	(1)	(0)	(0)	(0)

HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(50)
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Test Type: CHRONIC

Dibutyl Phthalate

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Species/Strain: MICE/B6C3F1/N

Lab: BAT

B6C3F1/N MICE FEMALE	0 ppm	1000 ppm	3000 ppm	10000 ppm
Angiectasis	1 [1.0]			
Hypercellularity	2 [2.0]	3 [2.3]	2 [1.5]	4 [3.0]
Hypercellularity, Granulocytic	1			
Hypocellularity	2 [2.5]		1 [2.0]	3 [2.0]
Myelofibrosis				1 [2.0]
Lymph Node	(4)	(4)	(3)	(4)
Lumbar, Hyperplasia, Lymphoid				1 [2.0]
Mediastinal, Infiltration Cellular, Plasma Cell		1 [3.0]		
Lymph Node, Mandibular	(49)	(50)	(49)	(50)
Atrophy		3 [2.7]	2 [2.5]	1 [3.0]
Hyperplasia, Lymphoid	5 [3.2]	2 [3.0]	3 [2.0]	6 [2.5]
Infiltration Cellular, Histiocyte			1 [2.0]	
Lymph Node, Mesenteric	(46)	(48)	(47)	(47)
Angiectasis		1 [3.0]		
Atrophy		3 [2.7]	2 [2.5]	2 [3.0]
Dilation				1 [2.0]
Extramedullary Hematopoiesis		3 [1.7]		2 [2.0]
Hyperplasia, Lymphocyte	15 [2.9]	9 [2.6]	12 [2.3]	9 [2.8]
Infiltration Cellular, Eosinophil, Plasma Cell				1 [2.0]
Infiltration Cellular, Histiocyte		1 [2.0]	1 [2.0]	
Infiltration Cellular, Plasma Cell	2 [4.0]	4 [2.8]	4 [3.0]	3 [3.0]
Spleen	(50)	(50)	(49)	(49)
Angiectasis	1 [2.0]			1 [2.0]
Extramedullary Hematopoiesis	25 [1.7]	35 [1.9]	25 [1.6]	21 [1.6]
Hyperplasia, Lymphocyte	23 [2.6]	24 [2.2]	22 [2.8]	21 [2.3]
Infiltration Cellular, Histiocyte				1 [2.0]
Pigment	6 [1.3]	7 [1.1]	12 [1.0]	12 [1.1]
Thrombus				1 [3.0]
Lymphoid Follicle, Atrophy	1 [2.0]			
Red Pulp, Hyperplasia		1 [2.0]	1 [2.0]	
White Pulp, Atrophy	4 [2.8]	5 [2.6]	1 [3.0]	2 [3.5]
Thymus	(45)	(48)	(47)	(47)
Atrophy	3 [2.3]	6 [3.2]	6 [3.3]	1 [2.0]
Cyst		1	3	
Hyperplasia, Lymphocyte			1 [4.0]	
Hyperplasia, Lymphoid	4 [2.0]	5 [1.8]	2 [1.5]	1 [2.0]

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Dibutyl Phthalate

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Species/Strain: MICE/B6C3F1/N

Lab: BAT

B6C3F1/N MICE FEMALE	0 ppm	1000 ppm	3000 ppm	10000 ppm
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INTEGUMENTARY SYSTEM

Mammary Gland	(50)	(49)	(49)	(50)
Skin	(50)	(50)	(49)	(50)
Hair Follicle, Inflammation	1 [2.0]			

MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(50)
Fibro-Osseous Lesion	11 [1.5]	11 [1.3]	8 [1.5]	6 [1.5]
Fibrosis		1 [4.0]		
Joint, Degeneration	1 [2.0]			
Skeletal Muscle	(2)	(0)	(0)	(1)

NERVOUS SYSTEM

Brain	(50)	(50)	(49)	(50)
Gliosis			1 [1.0]	1 [2.0]
Hemorrhage		1 [1.0]		
Infiltration Cellular, Lymphocyte	1 [1.0]			

RESPIRATORY SYSTEM

Lung	(50)	(50)	(49)	(50)
Hyperplasia, Lymphoid	2 [1.5]		1 [1.0]	
Infiltration Cellular, Histiocyte			1 [4.0]	
Infiltration Cellular, Lymphocyte	2 [2.0]		1 [2.0]	1 [2.0]
Infiltration Cellular, Mononuclear Cell			2 [2.0]	
Inflammation, Granulomatous	1 [2.0]			1 [2.0]
Inflammation, Chronic Active		1 [1.0]	1 [1.0]	
Mineral	1 [1.0]			
Alveolar Epithelium, Hyperplasia	2 [2.0]	3 [1.7]	5 [1.4]	1 [2.0]

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Test Type: CHRONIC

Dibutyl Phthalate

Time Report Requested: 09:07:59

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Species/Strain: MICE/B6C3F1/N

Lab: BAT

B6C3F1/N MICE FEMALE	0 ppm	1000 ppm	3000 ppm	10000 ppm
Artery, Inflammation, Suppurative	1 [3.0]			
Perivascular, Infiltration Cellular, Mononuclear Cell	2 [2.0]		1 [3.0]	
Nose	(50)	(50)	(50)	(50)
Eosinophilic Material	1 [1.0]	1 [1.0]	1 [1.0]	3 [1.0]
Inflammation, Suppurative		1 [1.0]	2 [1.5]	
Glands, Inflammation, Suppurative				1 [1.0]
Olfactory Epithelium, Metaplasia, Respiratory	4 [1.0]	1 [1.0]	1 [1.0]	2 [1.0]
Respiratory Epithelium, Accumulation, Hyaline Droplet		1 [1.0]	1 [1.0]	1 [2.0]
Respiratory Epithelium, Cyst	1			2
Respiratory Epithelium, Hyperplasia			3 [1.0]	2 [1.0]
Respiratory Epithelium, Inflammation, Suppurative				1 [1.0]
Trachea	(50)	(50)	(49)	(50)
SPECIAL SENSES SYSTEM				
Eye	(50)	(50)	(49)	(50)
Inflammation, Chronic Active	1 [3.0]			
Phthisis Bulbi	1	2		
Cornea, Inflammation, Chronic Active		1 [2.0]		
Lens, Cataract	1 [3.0]	2 [2.5]		
Retina, Dysplasia		1 [1.0]		
Harderian Gland	(50)	(50)	(49)	(50)
Fibrosis			1 [2.0]	
Hyperplasia	3 [2.3]	1 [1.0]	1 [3.0]	2 [3.0]
URINARY SYSTEM				
Kidney	(50)	(50)	(49)	(49)
Infarct	6 [1.5]	1 [2.0]	1 [1.0]	
Metaplasia, Osseous	2	1	3	
Mineral	1 [2.0]			
Nephropathy, Chronic Progressive	33 [1.1]	27 [1.0]	36 [1.1]	32 [1.0]

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Experiment Number: 10987 - 02

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

Date Report Requested: 06/04/2018

Test Type: CHRONIC

Dibutyl Phthalate

Time Report Requested: 09:07:59

Route: DOSED FEED

CAS Number: 84-74-2

First Dose M/F: 08/17/10 / 08/16/10

Species/Strain: MICE/B6C3F1/N

Lab: BAT

B6C3F1/N MICE FEMALE	0 ppm	1000 ppm	3000 ppm	10000 ppm
Thrombus			1 [4.0]	
Endothelium, Hyperplasia	1 [2.0]			
Glomerulus, Amyloid	1 [4.0]			
Glomerulus, Inflammation, Chronic Active			1 [4.0]	
Interstitial, Infiltration Cellular, Lymphocyte		1 [2.0]		
Pelvis, Dilation	2 [2.0]	1 [4.0]		
Renal Tubule, Accumulation, Hyaline Droplet	1 [2.0]	3 [2.3]	2 [1.0]	1 [3.0]
Renal Tubule, Cyst				1
Renal Tubule, Hyperplasia				47 [1.0]
Urinary Bladder	(48)	(50)	(49)	(50)
Infiltration Cellular, Lymphocyte	5 [1.0]		2 [3.0]	1 [2.0]
Infiltration Cellular, Mononuclear Cell		1 [1.0]		

*** END OF REPORT ***

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