

Experiment Number: 10987 - 02
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: MICE/B6C3F1/N

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
Dibutyl Phthalate
CAS Number: 84-74-2

Date Report Requested: 06/04/2018
Time Report Requested: 09:07:59
First Dose M/F: 08/17/10 / 08/16/10
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

Experiment Number: 10987 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: MICE/B6C3F1/N

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 06/04/2018
 Time Report Requested: 09:07:59
 First Dose M/F: 08/17/10 / 08/16/10
 Lab: BAT

B6C3F1/N MICE MALE	0 ppm	1000 ppm	3000 ppm	10000 ppm
--------------------	-------	----------	----------	-----------

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 (2%)		
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 (4%)	
Epithelium, Hyperplasia			1 (2%)	
Intestine Small, Jejunum	(50)	(49)	(48)	(50)
Inflammation, Chronic Active	1 (2%)			
Ulcer	1 (2%)	1 (2%)		
Epithelium, Hyperplasia		1 (2%)		
Peyer's Patch, Hyperplasia, Lymphocyte	2 (4%)		2 (4%)	4 (8%)
Liver	(50)	(50)	(50)	(50)
Amyloid		1 (2%)		
Angiectasis	1 (2%)	1 (2%)		
Basophilic Focus	4 (8%)	4 (8%)	6 (12%)	3 (6%)
Clear Cell Focus	10 (20%)	15 (30%)	9 (18%)	5 (10%)
Eosinophilic Focus	7 (14%)	12 (24%)	8 (16%)	1 (2%)
Extramedullary Hematopoiesis		4 (8%)		1 (2%)

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

Experiment Number: 10987 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: MICE/B6C3F1/N

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

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 06/04/2018

Time Report Requested: 09:07:59

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

Lab: BAT

B6C3F1/N MICE MALE	0 ppm	1000 ppm	3000 ppm	10000 ppm
Fatty Change	4 (8%)	2 (4%)	3 (6%)	
Fatty Change, Focal		1 (2%)		
Hemorrhage	1 (2%)			
Infiltration Cellular, Mononuclear Cell		2 (4%)		
Inflammation, Granulomatous				1 (2%)
Inflammation, Chronic Active	1 (2%)			
Mineral				1 (2%)
Mixed Cell Focus	10 (20%)	10 (20%)	5 (10%)	3 (6%)
Necrosis	4 (8%)	7 (14%)	6 (12%)	7 (14%)
Pigment	1 (2%)			2 (4%)
Tension Lipidosis	1 (2%)		1 (2%)	2 (4%)
Thrombus	1 (2%)			1 (2%)
Bile Duct, Accumulation, Hyaline Droplet	2 (4%)			
Bile Duct, Cyst		1 (2%)		1 (2%)
Bile Duct, Hyperplasia		1 (2%)		
Bile Duct, Inflammation, Chronic Active	1 (2%)			
Hepatocyte, Cytoplasmic Alteration				36 (72%)
Hepatocyte, Multinucleated	8 (16%)	11 (22%)	25 (50%)	42 (84%)
Mesentery	(3)	(1)	(0)	(0)
Fat, Necrosis	2 (67%)	1 (100%)		
Pancreas	(50)	(50)	(49)	(50)
Fibrosis	1 (2%)			
Inflammation, Chronic Active				1 (2%)
Acinus, Atrophy	2 (4%)			
Salivary Glands	(49)	(50)	(50)	(50)
Atrophy			1 (2%)	
Infiltration Cellular, Mononuclear Cell	1 (2%)			
Duct, Hyperplasia			1 (2%)	
Stomach, Forestomach	(50)	(50)	(50)	(50)
Ulcer	1 (2%)	1 (2%)		
Epithelium, Cyst, Squamous		1 (2%)		
Epithelium, Hyperplasia	3 (6%)	1 (2%)		1 (2%)
Stomach, Glandular	(50)	(50)	(50)	(50)
Metaplasia, Squamous	1 (2%)			
Mineral				1 (2%)
Epithelium, Cyst		2 (4%)		

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

Experiment Number: 10987 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: MICE/B6C3F1/N

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

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 06/04/2018

Time Report Requested: 09:07:59

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

Lab: BAT

B6C3F1/N MICE MALE	0 ppm	1000 ppm	3000 ppm	10000 ppm
Epithelium, Cytoplasmic Alteration		1 (2%)	1 (2%)	
Epithelium, Hyperplasia	1 (2%)			
Epithelium, Ulcer				1 (2%)
Tooth	(6)	(12)	(7)	(9)
Dysplasia	6 (100%)	12 (100%)	7 (100%)	9 (100%)
Inflammation, Suppurative		1 (8%)		1 (11%)
Necrosis		1 (8%)		
CARDIOVASCULAR SYSTEM				
Blood Vessel	(50)	(50)	(50)	(49)
Mineral			1 (2%)	
Aorta, Hemorrhage			2 (4%)	
Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	11 (22%)	14 (28%)	8 (16%)	14 (28%)
Inflammation	1 (2%)			
Mineral	1 (2%)			
Thrombus				1 (2%)
Valve, Angiectasis				1 (2%)
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(50)	(50)
Hemorrhage			1 (2%)	
Hypertrophy, Focal	2 (4%)	1 (2%)	6 (12%)	
Bilateral, Hypertrophy, Focal	1 (2%)	1 (2%)		
Subcapsular, Hyperplasia	22 (44%)	26 (52%)	27 (54%)	20 (40%)
Adrenal Medulla	(50)	(50)	(50)	(50)
Hyperplasia	1 (2%)			
Islets, Pancreatic	(50)	(50)	(49)	(50)
Atrophy		1 (2%)		
Hyperplasia	11 (22%)	11 (22%)	11 (22%)	7 (14%)
Parathyroid Gland	(40)	(45)	(36)	(40)
Cyst			1 (3%)	
Pituitary Gland	(48)	(49)	(48)	(48)

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

Experiment Number: 10987 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: MICE/B6C3F1/N

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

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 06/04/2018

Time Report Requested: 09:07:59

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

Lab: BAT

B6C3F1/N MICE MALE	0 ppm	1000 ppm	3000 ppm	10000 ppm
Thyroid Gland	(50)	(50)	(48)	(50)
Follicle, Cyst		2 (4%)	1 (2%)	1 (2%)
Follicle, Degeneration	1 (2%)			1 (2%)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Coagulating Gland	(0)	(1)	(4)	(1)
Bilateral, Atrophy		1 (100%)	3 (75%)	1 (100%)
Epididymis	(50)	(50)	(50)	(50)
Hypospermia		3 (6%)		1 (2%)
Infiltration Cellular, Lymphocyte		1 (2%)		
Inflammation, Chronic	1 (2%)			1 (2%)
Sperm Granuloma		2 (4%)		2 (4%)
Bilateral, Hypospermia	1 (2%)	1 (2%)	3 (6%)	2 (4%)
Bilateral, Duct, Atrophy		1 (2%)	3 (6%)	1 (2%)
Bilateral, Duct, Exfoliated Germ Cell	4 (8%)	7 (14%)	5 (10%)	8 (16%)
Duct, Exfoliated Germ Cell	2 (4%)	3 (6%)		5 (10%)
Preputial Gland	(50)	(50)	(50)	(50)
Cyst		1 (2%)		
Inflammation, Chronic Active	1 (2%)			
Prostate	(50)	(50)	(50)	(50)
Infiltration Cellular, Lymphocyte			1 (2%)	
Seminal Vesicle	(50)	(50)	(50)	(50)
Inflammation, Chronic			1 (2%)	
Bilateral, Atrophy	1 (2%)	1 (2%)	3 (6%)	1 (2%)
Testis	(50)	(50)	(50)	(50)
Bilateral, Germinal Epithelium, Degeneration	5 (10%)	10 (20%)	6 (12%)	12 (24%)
Bilateral, Interstitial Cell, Atrophy	2 (4%)	1 (2%)	2 (4%)	3 (6%)
Germinal Epithelium, Degeneration	1 (2%)	5 (10%)	3 (6%)	3 (6%)
Interstitial Cell, Hyperplasia, Focal		1 (2%)		
Seminiferous Tubule, Mineral		1 (2%)		

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

Experiment Number: 10987 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: MICE/B6C3F1/N

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

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 06/04/2018

Time Report Requested: 09:07:59

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

Lab: BAT

B6C3F1/N MICE MALE	0 ppm	1000 ppm	3000 ppm	10000 ppm
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(49)	(50)
Hypercellularity	4 (8%)	3 (6%)		3 (6%)
Hypocellularity	1 (2%)	1 (2%)	1 (2%)	1 (2%)
Pigment			1 (2%)	
Lymph Node	(2)	(2)	(2)	(1)
Mediastinal, Infiltration Cellular, Plasma Cell		1 (50%)		
Renal, Hyperplasia, Lymphocyte				1 (100%)
Renal, Infiltration Cellular, Mixed Cell				1 (100%)
Lymph Node, Mandibular	(49)	(48)	(49)	(46)
Atrophy		4 (8%)	2 (4%)	
Hyperplasia, Lymphoid	5 (10%)	2 (4%)	1 (2%)	1 (2%)
Infiltration Cellular, Plasma Cell		2 (4%)	1 (2%)	
Lymph Node, Mesenteric	(48)	(48)	(47)	(49)
Angiectasis	1 (2%)			
Extramedullary Hematopoiesis		1 (2%)	2 (4%)	6 (12%)
Hemorrhage	1 (2%)			1 (2%)
Hyperplasia, Lymphocyte	10 (21%)	4 (8%)	7 (15%)	7 (14%)
Infiltration Cellular, Mast Cell				1 (2%)
Infiltration Cellular, Mixed Cell	2 (4%)			2 (4%)
Infiltration Cellular, Plasma Cell			1 (2%)	1 (2%)
Inflammation, Chronic		1 (2%)		
Spleen	(50)	(50)	(50)	(50)
Amyloid		1 (2%)		
Angiectasis		1 (2%)		
Extramedullary Hematopoiesis	21 (42%)	21 (42%)	23 (46%)	22 (44%)
Hyperplasia, Lymphocyte	19 (38%)	18 (36%)	15 (30%)	15 (30%)
Pigment	1 (2%)	1 (2%)		
White Pulp, Atrophy	4 (8%)	8 (16%)	7 (14%)	7 (14%)
Thymus	(45)	(46)	(46)	(46)
Atrophy	11 (24%)	18 (39%)	12 (26%)	10 (22%)
Cyst		3 (7%)	2 (4%)	3 (7%)
Hemorrhage			1 (2%)	

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

Experiment Number: 10987 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: MICE/B6C3F1/N

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

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 06/04/2018

Time Report Requested: 09:07:59

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

Lab: BAT

B6C3F1/N MICE MALE	0 ppm	1000 ppm	3000 ppm	10000 ppm
Hyperplasia, Lymphoid				1 (2%)
INTEGUMENTARY SYSTEM				
Mammary Gland	(2)	(2)	(1)	(3)
Skin	(50)	(50)	(50)	(50)
Edema		1 (2%)		
Hair Follicle, Inflammation, Chronic Active	1 (2%)			
Subcutaneous Tissue, Infiltration Cellular, Mononuclear Cell	1 (2%)			
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)
Osteopetrosis		1 (2%)		
Intervertebral Disc, Degeneration				2 (4%)
Joint, Degeneration			1 (2%)	
Skeletal Muscle	(0)	(1)	(1)	(0)
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Bacterium				1 (2%)
Inflammation, Suppurative				1 (2%)
Metaplasia, Osseous				1 (2%)
Neuron, Necrosis	1 (2%)			
Spinal Cord	(0)	(0)	(0)	(1)
Axon, Degeneration				1 (100%)
RESPIRATORY SYSTEM				
Lung	(50)	(50)	(50)	(50)
Extramedullary Hematopoiesis		1 (2%)		
Fibrosis	1 (2%)			

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

Experiment Number: 10987 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: MICE/B6C3F1/N

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

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 06/04/2018

Time Report Requested: 09:07:59

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

Lab: BAT

B6C3F1/N MICE MALE	0 ppm	1000 ppm	3000 ppm	10000 ppm
Hemorrhage	1 (2%)			
Infiltration Cellular, Histiocyte	1 (2%)			
Infiltration Cellular, Mononuclear Cell	1 (2%)			4 (8%)
Inflammation, Granulomatous			1 (2%)	
Inflammation, Chronic Active		1 (2%)		
Mineral			1 (2%)	
Alveolar Epithelium, Hyperplasia	4 (8%)	4 (8%)	4 (8%)	3 (6%)
Artery, Inflammation, Suppurative			1 (2%)	
Nose	(50)	(50)	(50)	(50)
Eosinophilic Material	47 (94%)	45 (90%)	42 (84%)	49 (98%)
Inflammation	2 (4%)	1 (2%)	4 (8%)	3 (6%)
Polyp, Inflammatory		1 (2%)	1 (2%)	
Olfactory Epithelium, Accumulation, Hyaline Droplet			1 (2%)	1 (2%)
Olfactory Epithelium, Atrophy	1 (2%)			
Olfactory Epithelium, Metaplasia, Respiratory	5 (10%)	2 (4%)	1 (2%)	4 (8%)
Respiratory Epithelium, Accumulation, Hyaline Droplet	2 (4%)	1 (2%)	2 (4%)	
Respiratory Epithelium, Hyperplasia	17 (34%)	9 (18%)	10 (20%)	18 (36%)
Trachea	(50)	(50)	(50)	(50)
SPECIAL SENSES SYSTEM				
Eye	(50)	(50)	(50)	(50)
Phthisis Bulbi	1 (2%)			1 (2%)
Harderian Gland	(50)	(50)	(50)	(50)
Hyperplasia	1 (2%)	1 (2%)	1 (2%)	2 (4%)
Inflammation, Chronic Active	2 (4%)		1 (2%)	
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(50)
Cyst			2 (4%)	1 (2%)
Infarct	5 (10%)	7 (14%)	1 (2%)	
Inflammation, Chronic Active			1 (2%)	

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

Experiment Number: 10987 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: MICE/B6C3F1/N

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

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 06/04/2018

Time Report Requested: 09:07:59

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

Lab: BAT

B6C3F1/N MICE MALE	0 ppm	1000 ppm	3000 ppm	10000 ppm
Metaplasia, Osseous	3 (6%)			
Mineral	1 (2%)	2 (4%)	6 (12%)	2 (4%)
Nephropathy, Chronic Progressive	44 (88%)	45 (90%)	42 (84%)	37 (74%)
Glomerulus, Cyst			2 (4%)	
Interstitial, Infiltration Cellular, Lymphocyte	1 (2%)			
Interstitial, Infiltration Cellular, Mononuclear Cell		1 (2%)		
Papilla, Necrosis		1 (2%)		
Pelvis, Dilation			3 (6%)	
Pelvis, Inflammation, Suppurative		1 (2%)	1 (2%)	
Renal Tubule, Accumulation, Hyaline Droplet		1 (2%)		
Renal Tubule, Cyst	4 (8%)	5 (10%)	1 (2%)	
Renal Tubule, Hyperplasia	1 (2%)			
Renal Tubule, Pigment			1 (2%)	
Urinary Bladder	(50)	(50)	(50)	(50)
Calculus Gross Observation			1 (2%)	
Infiltration Cellular, Mononuclear Cell				1 (2%)
Inflammation, Chronic Active			1 (2%)	

*** END OF MALE ***

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

Experiment Number: 10987 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: MICE/B6C3F1/N

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 06/04/2018
 Time Report Requested: 09:07:59
 First Dose M/F: 08/17/10 / 08/16/10
 Lab: BAT

B6C3F1/N MICE FEMALE	0 ppm	1000 ppm	3000 ppm	10000 ppm
----------------------	-------	----------	----------	-----------

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 (2%)	
Necrosis			1 (2%)	
Lymphoid Tissue, Hyperplasia	1 (2%)			
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 (2%)	
Inflammation, Chronic Active	1 (2%)			
Epithelium, Hyperplasia	2 (4%)		1 (2%)	
Goblet Cell, Hyperplasia	1 (2%)			
Intestine Small, Jejunum	(50)	(50)	(47)	(48)
Hyperplasia, Lymphoid			1 (2%)	
Inflammation, Suppurative			1 (2%)	
Inflammation, Chronic			1 (2%)	
Inflammation, Chronic Active		1 (2%)	1 (2%)	
Epithelium, Hyperplasia		2 (4%)		
Peyer's Patch, Hyperplasia, Lymphocyte	1 (2%)	2 (4%)	1 (2%)	1 (2%)
Liver	(50)	(50)	(49)	(49)
Angiectasis			1 (2%)	
Basophilic Focus	6 (12%)	3 (6%)	3 (6%)	1 (2%)

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

Experiment Number: 10987 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: MICE/B6C3F1/N

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

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 06/04/2018

Time Report Requested: 09:07:59

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

Lab: BAT

B6C3F1/N MICE FEMALE	0 ppm	1000 ppm	3000 ppm	10000 ppm
Clear Cell Focus		1 (2%)		
Eosinophilic Focus	1 (2%)	2 (4%)		1 (2%)
Extramedullary Hematopoiesis	2 (4%)	1 (2%)		1 (2%)
Infiltration Cellular, Mononuclear Cell	2 (4%)	3 (6%)	1 (2%)	
Inflammation, Focal	2 (4%)	2 (4%)	2 (4%)	5 (10%)
Inflammation, Chronic Active	1 (2%)			
Mixed Cell Focus	2 (4%)		1 (2%)	1 (2%)
Necrosis	4 (8%)	3 (6%)	2 (4%)	
Tension Lipidosis	3 (6%)	5 (10%)		
Bile Duct, Accumulation, Hyaline Droplet				1 (2%)
Endothelium, Hyperplasia	1 (2%)			
Hepatocyte, Cytoplasmic Alteration				48 (98%)
Mesentery	(1)	(2)	(2)	(2)
Hemorrhage				1 (50%)
Fat, Necrosis	1 (100%)	1 (50%)	2 (100%)	
Pancreas	(50)	(49)	(48)	(49)
Infiltration Cellular, Lymphocyte	1 (2%)			
Duct, Cyst			2 (4%)	1 (2%)
Salivary Glands	(50)	(50)	(49)	(50)
Stomach, Forestomach	(50)	(50)	(49)	(49)
Ulcer		1 (2%)		
Epithelium, Hyperplasia	2 (4%)		1 (2%)	
Stomach, Glandular	(50)	(50)	(49)	(49)
Cyst	1 (2%)		1 (2%)	
Inflammation, Chronic Active		1 (2%)		
Metaplasia, Squamous		1 (2%)		
Mineral	1 (2%)			
Epithelium, Cyst		1 (2%)		1 (2%)
Epithelium, Cytoplasmic Alteration		1 (2%)		
Epithelium, Hyperplasia	1 (2%)	1 (2%)		
Tooth	(2)	(1)	(0)	(0)
Dysplasia	1 (50%)			
Inflammation, Chronic Active	1 (50%)			
Necrosis	1 (50%)	1 (100%)		

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

Experiment Number: 10987 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: MICE/B6C3F1/N

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 06/04/2018
 Time Report Requested: 09:07:59
 First Dose M/F: 08/17/10 / 08/16/10
 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 (4%)	1 (2%)	4 (8%)
Mineral	2 (4%)			
Heart	(50)	(50)	(49)	(50)
Cardiomyopathy	19 (38%)	7 (14%)	11 (22%)	12 (24%)
Infiltration Cellular, Mixed Cell				1 (2%)
Thrombus			1 (2%)	
Endocardium, Hyperplasia			1 (2%)	
Endothelium, Hyperplasia	1 (2%)			
Valve, Bacterium	2 (4%)			
Valve, Inflammation, Chronic	1 (2%)			
Valve, Inflammation, Chronic Active	1 (2%)			
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(49)	(49)
Angiectasis	1 (2%)			
Extramedullary Hematopoiesis		1 (2%)		1 (2%)
Hyperplasia, Focal				1 (2%)
Subcapsular, Hyperplasia	44 (88%)	38 (76%)	41 (84%)	49 (100%)
Adrenal Medulla	(49)	(50)	(49)	(49)
Hyperplasia			1 (2%)	1 (2%)
Islets, Pancreatic	(50)	(50)	(48)	(49)
Hyperplasia	2 (4%)	1 (2%)		
Parathyroid Gland	(43)	(47)	(36)	(33)
Cyst	1 (2%)			
Pituitary Gland	(49)	(49)	(48)	(47)
Angiectasis		1 (2%)	1 (2%)	
Pars Distalis, Hyperplasia	2 (4%)		2 (4%)	1 (2%)
Pars Intermedia, Hyperplasia			2 (4%)	
Thyroid Gland	(50)	(50)	(48)	(49)
Infiltration Cellular, Mononuclear Cell		1 (2%)		
Follicle, Cyst	2 (4%)	4 (8%)	3 (6%)	

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

Experiment Number: 10987 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: MICE/B6C3F1/N

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 06/04/2018
 Time Report Requested: 09:07:59
 First Dose M/F: 08/17/10 / 08/16/10
 Lab: BAT

B6C3F1/N MICE FEMALE	0 ppm	1000 ppm	3000 ppm	10000 ppm
GENERAL BODY SYSTEM				
None				
GENITAL SYSTEM				
Clitoral Gland	(50)	(49)	(49)	(49)
Ovary	(48)	(50)	(48)	(50)
Angiectasis	2 (4%)			
Atrophy	24 (50%)	29 (58%)	20 (42%)	25 (50%)
Cyst	6 (13%)	10 (20%)	7 (15%)	4 (8%)
Inflammation, Suppurative	1 (2%)			
Thrombus			1 (2%)	
Follicle, Cyst	1 (2%)			1 (2%)
Granulosa Cell, Hyperplasia	1 (2%)	1 (2%)		
Interstitial Cell, Hyperplasia		1 (2%)		2 (4%)
Oviduct	(0)	(0)	(1)	(0)
Mineral			1 (100%)	
Uterus	(50)	(50)	(49)	(50)
Angiectasis	1 (2%)		1 (2%)	1 (2%)
Fibrosis			1 (2%)	
Inflammation, Suppurative			1 (2%)	
Inflammation, Chronic Active				1 (2%)
Metaplasia, Squamous			1 (2%)	
Thrombus				1 (2%)
Endometrium, Degeneration, Muroid	1 (2%)			
Endometrium, Hyperplasia, Cystic	38 (76%)	29 (58%)	38 (78%)	36 (72%)
Myometrium, Hyperplasia				1 (2%)
Vagina	(1)	(0)	(0)	(0)
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(50)	(50)

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

Experiment Number: 10987 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: MICE/B6C3F1/N

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

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 06/04/2018

Time Report Requested: 09:07:59

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

Lab: BAT

B6C3F1/N MICE FEMALE	0 ppm	1000 ppm	3000 ppm	10000 ppm
Angiectasis	1 (2%)			
Hypercellularity	2 (4%)	3 (6%)	2 (4%)	4 (8%)
Hypercellularity, Granulocytic	1 (2%)			
Hypocellularity	2 (4%)		1 (2%)	3 (6%)
Myelofibrosis				1 (2%)
Lymph Node	(4)	(4)	(3)	(4)
Lumbar, Hyperplasia, Lymphoid				1 (25%)
Mediastinal, Infiltration Cellular, Plasma Cell		1 (25%)		
Lymph Node, Mandibular	(49)	(50)	(49)	(50)
Atrophy		3 (6%)	2 (4%)	1 (2%)
Hyperplasia, Lymphoid	5 (10%)	2 (4%)	3 (6%)	6 (12%)
Infiltration Cellular, Histiocyte			1 (2%)	
Lymph Node, Mesenteric	(46)	(48)	(47)	(47)
Angiectasis		1 (2%)		
Atrophy		3 (6%)	2 (4%)	2 (4%)
Dilation				1 (2%)
Extramedullary Hematopoiesis		3 (6%)		2 (4%)
Hyperplasia, Lymphocyte	15 (33%)	9 (19%)	12 (26%)	9 (19%)
Infiltration Cellular, Eosinophil, Plasma Cell				1 (2%)
Infiltration Cellular, Histiocyte		1 (2%)	1 (2%)	
Infiltration Cellular, Plasma Cell	2 (4%)	4 (8%)	4 (9%)	3 (6%)
Spleen	(50)	(50)	(49)	(49)
Angiectasis	1 (2%)			1 (2%)
Extramedullary Hematopoiesis	25 (50%)	35 (70%)	25 (51%)	21 (43%)
Hyperplasia, Lymphocyte	23 (46%)	24 (48%)	22 (45%)	21 (43%)
Infiltration Cellular, Histiocyte				1 (2%)
Pigment	6 (12%)	7 (14%)	12 (24%)	12 (24%)
Thrombus				1 (2%)
Lymphoid Follicle, Atrophy	1 (2%)			
Red Pulp, Hyperplasia		1 (2%)	1 (2%)	
White Pulp, Atrophy	4 (8%)	5 (10%)	1 (2%)	2 (4%)
Thymus	(45)	(48)	(47)	(47)
Atrophy	3 (7%)	6 (13%)	6 (13%)	1 (2%)
Cyst		1 (2%)	3 (6%)	
Hyperplasia, Lymphocyte			1 (2%)	
Hyperplasia, Lymphoid	4 (9%)	5 (10%)	2 (4%)	1 (2%)

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

Experiment Number: 10987 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: MICE/B6C3F1/N

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 06/04/2018
 Time Report Requested: 09:07:59
 First Dose M/F: 08/17/10 / 08/16/10
 Lab: BAT

B6C3F1/N MICE FEMALE	0 ppm	1000 ppm	3000 ppm	10000 ppm
INTEGUMENTARY SYSTEM				
Mammary Gland	(50)	(49)	(49)	(50)
Skin	(50)	(50)	(49)	(50)
Hair Follicle, Inflammation	1 (2%)			
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)
Fibro-Osseous Lesion	11 (22%)	11 (22%)	8 (16%)	6 (12%)
Fibrosis		1 (2%)		
Joint, Degeneration	1 (2%)			
Skeletal Muscle	(2)	(0)	(0)	(1)
NERVOUS SYSTEM				
Brain	(50)	(50)	(49)	(50)
Gliosis			1 (2%)	1 (2%)
Hemorrhage		1 (2%)		
Infiltration Cellular, Lymphocyte	1 (2%)			
RESPIRATORY SYSTEM				
Lung	(50)	(50)	(49)	(50)
Hyperplasia, Lymphoid	2 (4%)		1 (2%)	
Infiltration Cellular, Histiocyte			1 (2%)	
Infiltration Cellular, Lymphocyte	2 (4%)		1 (2%)	1 (2%)
Infiltration Cellular, Mononuclear Cell			2 (4%)	
Inflammation, Granulomatous	1 (2%)			1 (2%)
Inflammation, Chronic Active		1 (2%)	1 (2%)	
Mineral	1 (2%)			
Alveolar Epithelium, Hyperplasia	2 (4%)	3 (6%)	5 (10%)	1 (2%)

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

Experiment Number: 10987 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: MICE/B6C3F1/N

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

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 06/04/2018

Time Report Requested: 09:07:59

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

Lab: BAT

B6C3F1/N MICE FEMALE	0 ppm	1000 ppm	3000 ppm	10000 ppm
Artery, Inflammation, Suppurative	1 (2%)			
Perivascular, Infiltration Cellular, Mononuclear Cell	2 (4%)		1 (2%)	
Nose	(50)	(50)	(50)	(50)
Eosinophilic Material	1 (2%)	1 (2%)	1 (2%)	3 (6%)
Inflammation, Suppurative		1 (2%)	2 (4%)	
Glands, Inflammation, Suppurative				1 (2%)
Olfactory Epithelium, Metaplasia, Respiratory	4 (8%)	1 (2%)	1 (2%)	2 (4%)
Respiratory Epithelium, Accumulation, Hyaline Droplet		1 (2%)	1 (2%)	1 (2%)
Respiratory Epithelium, Cyst	1 (2%)			2 (4%)
Respiratory Epithelium, Hyperplasia			3 (6%)	2 (4%)
Respiratory Epithelium, Inflammation, Suppurative				1 (2%)
Trachea	(50)	(50)	(49)	(50)

SPECIAL SENSES SYSTEM

Eye	(50)	(50)	(49)	(50)
Inflammation, Chronic Active	1 (2%)			
Phthisis Bulbi	1 (2%)	2 (4%)		
Cornea, Inflammation, Chronic Active		1 (2%)		
Lens, Cataract	1 (2%)	2 (4%)		
Retina, Dysplasia		1 (2%)		
Harderian Gland	(50)	(50)	(49)	(50)
Fibrosis			1 (2%)	
Hyperplasia	3 (6%)	1 (2%)	1 (2%)	2 (4%)

URINARY SYSTEM

Kidney	(50)	(50)	(49)	(49)
Infarct	6 (12%)	1 (2%)	1 (2%)	
Metaplasia, Osseous	2 (4%)	1 (2%)	3 (6%)	
Mineral	1 (2%)			
Nephropathy, Chronic Progressive	33 (66%)	27 (54%)	36 (73%)	32 (65%)

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

Experiment Number: 10987 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: MICE/B6C3F1/N

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

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 06/04/2018

Time Report Requested: 09:07:59

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

Lab: BAT

B6C3F1/N MICE FEMALE	0 ppm	1000 ppm	3000 ppm	10000 ppm
Thrombus			1 (2%)	
Endothelium, Hyperplasia	1 (2%)			
Glomerulus, Amyloid	1 (2%)			
Glomerulus, Inflammation, Chronic Active			1 (2%)	
Interstitial, Infiltration Cellular, Lymphocyte		1 (2%)		
Pelvis, Dilation	2 (4%)	1 (2%)		
Renal Tubule, Accumulation, Hyaline Droplet	1 (2%)	3 (6%)	2 (4%)	1 (2%)
Renal Tubule, Cyst				1 (2%)
Renal Tubule, Hyperplasia				47 (96%)
Urinary Bladder	(48)	(50)	(49)	(50)
Infiltration Cellular, Lymphocyte	5 (10%)		2 (4%)	1 (2%)
Infiltration Cellular, Mononuclear Cell		1 (2%)		

*** END OF REPORT ***

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