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	

Experiment Number: 10987 - 02	P18: INCIDENCE RATI	Date Report Requested: 06/04/2018			
Test Type: CHRONIC		Time Report Requested: 09:07:59			
Route: DOSED FEED		•	Phthalate Der: 84-74-2		First Dose M/F: 08/17/10 / 08/16/10
Species/Strain: MICE/B6C3F1/N					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	n	2	4	2	
Natural Death	2 4	2 8	1 11	2 5	
Survivors	4	o	11	5	
Moribund Sacrifice			2		
Natural Death		1	2		
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]	

Experiment Number: 10987 - 02	P18: INCIDENCE RAT	TES OF NON-NEOPLAS AVERAGE SEVE	Date Report Requested: 06/04/2018		
Fest Type: CHRONIC		Dibutyl F	Time Report Requested: 09:07:59		
Route: DOSED FEED			ber: 84-74-2		First Dose M/F: 08/17/10 / 08/16/10
Species/Strain: MICE/B6C3F1/N					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	4 [2.0] 1 [1.0]	7 [1.0]	0[1.0]	2 [1.0]	
Tension Lipidosis	1 [1.0]		1 [1.0]	2 [1.0] 2	
Thrombus	1 [1.0]		1[1.0]	2 1 [2.0]	
Bile Duct, Accumulation, Hyaline Droplet				ו נב.טן	
	2 [2.0]	1		4	
Bile Duct, Cyst		•		1	
Bile Duct, Hyperplasia	4 [0 0]	1 [2.0]			
Bile Duct, Inflammation, Chronic Active	1 [2.0]			2014 01	
Hepatocyte, Cytoplasmic Alteration	0.14.01		25.14.01	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	(50) 1 [1.0]	(50)	(30)	(50)	
Mineral	ונייזי			1 [2 0]	
		n		1 [2.0]	
Epithelium, Cyst a - Number of animals examined microscopi		2			

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Experiment Number: 10987 - 02	P18: INCIDENCE RAT	Date Report Requested: 06/04/2018					
Test Type: CHRONIC		AVERAGE SEVERITY GRADES[b] Dibutyl Phthalate					
Route: DOSED FEED		CAS Numb	ber: 84-74-2		First Dose M/F: 08/17/10 / 08/16/10		
Species/Strain: MICE/B6C3F1/N					Lab: BAT		
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		x - /	1	x - /			
Pituitary Gland	(48)	(49)	(48)	(48)			
a - Number of animals examined micros							

Experiment Number: 10987 - 02	P18: INCIDENCE RAT	Date Report Requested: 06/04/2018			
Test Type: CHRONIC		Dibutyl F	Phthalate		Time Report Requested: 09:07:59
Route: DOSED FEED		CAS Numb	ber: 84-74-2		First Dose M/F: 08/17/10 / 08/16/10
Species/Strain: MICE/B6C3F1/N					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	(00)	1	(20)	()	
Inflammation, Chronic Active	1 [2.0]	·			
Prostate	(50)	(50)	(50)	(50)	
Infiltration Cellular, Lymphocyte	(00)	(30)	1 [1.0]	(
Seminal Vesicle	(50)	(50)	(50)	(50)	
Inflammation, Chronic	(00)	(00)	1 [3.0]	(00)	
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 a - Number of animals examined microscopic		1 [1.0]			

Experiment Number: 10987 - 02	P18: INCIDENCE RATI	Date Report Requested: 06/04/2018 Time Report Requested: 09:07:59			
Test Type: CHRONIC					
Route: DOSED FEED		CAS Numb	ber: 84-74-2		First Dose M/F: 08/17/10 / 08/16/10
Species/Strain: MICE/B6C3F1/N					Lab: BAT
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	(40)	4 [3.3]	2 [2.0]	(40)	
Hyperplasia, Lymphoid	5 [2.6]	2 [2.5]	1 [3.0]	1 [2.0]	
Infiltration Cellular, Plasma Cell	0 [2.0]	2 [2.0]	1 [3.0]	1 [2.0]	
Lymph Node, Mesenteric	(48)	(48)	(47)	(49)	
Angiectasis	1 [2.0]	(40)	(47)	(43)	
Extramedullary Hematopoiesis	1 [2.0]	1 [3.0]	2 [2 5]	6 [2.2]	
Hemorrhage	4 [2 0]	1 [3.0]	2 [2.5]		
	1 [2.0]	4 [2 5]	7 [0 7]	1 [3.0]	
Hyperplasia, Lymphocyte	10 [2.6]	4 [2.5]	7 [2.7]	7 [2.4]	
Infiltration Cellular, Mast Cell	0 [0 0]			1 [2.0]	
Infiltration Cellular, Mixed Cell	2 [2.0]		4 [0 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]		

Experiment Number: 10987 - 02	P18: INCIDENCE RAT	Date Report Requested: 06/04/2018 Time Report Requested: 09:07:59			
Test Type: CHRONIC					
Route: DOSED FEED		CAS Numb	ber: 84-74-2		First Dose M/F: 08/17/10 / 08/16/10
Species/Strain: MICE/B6C3F1/N					Lab: BAT
B6C3F1/N MICE MALE	0 ppm	1000 ppm	3000 ppm	10000 ppm	
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		L - J		2 [2.0]	
Joint, Degeneration			1 [2.0]	L - J	
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	、 <i>,</i>	1 [2.0]	. ,		
Fibrosis	1 [2.0]	-			

Experiment Number: 10987 - 02

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 06/04/2018 AVERAGE SEVERITY GRADES[b]

Test Type: CHRONIC Route: DOSED FEED

Species/Strain: MICE/B6C3F1/N

Dibutyl Phthalate

CAS Number: 84-74-2

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

Hemorrhage 1 [2.0] Infitization Cellular, Honouclear Cell 1 [2.0] Infitization Calular, Monouclear Cell 1 [2.0] Infitization Chronic Active 1 [1.0] Artery, Infitization, Chronic Active 1 [1.0] Artery, Infitization, Supurative 1 [3.0] Nose (50) (50) (50) Eosinophilic Material 47 [1.0] 4 [1.5] 3 [1.0] Polyb, Infitammator, Supurative 1 [3.0] 1 [3.0] 1 Nose (50) (50) (50) (50) Polyb, Infitammator, Supurative 1 [2.0] 1 [3.0] 1 Olfactory Epithelium, Accumulation, Hyaline 1 [2.0] 1 [1.0] 1 Olfactory Epithelium, Accumulation, Hyaline 2 [1.0] 1 [1.0] 1 Olfactory Epithelium, Accumulation, Hyaline 2 [1.0] 1 [1.0] 1 Respiratory Epithelium, Hyalpesisia, Respiratory 5 [1.0]	B6C3F1/N MICE MALE	0 ppm	1000 ppm	3000 ppm	10000 ppm	
Infilitation Cellular, Histocyte 1 [2,0] Infiliamanto, Granulomatous 1 [3,0] Infiliamanton, Granulomatous 1 [1,0] Mineral 1 [1,0] Avoclar Epithelium, Hyperplasia 4 [2,0] 4 [1,5] Artery, Infiliamantation, Supportative 1 [3,0] Rose (50) (50) Eosinophilic Material 47 [1,0] 4 [1,5] Nose (50) (50) (50) Offsactory Epithelium, Accumulation, Hyaline 1 [2,0] 4 [1,5] 3 [1,0] Dipplet 1 [2,0] 1 [1,0] 1 [3,0] 1 [3,0] Offactory Epithelium, Accumulation, Hyaline 1 [2,0] 1 [1,0] 1 [1,0] Dipplet 1 [2,0] 1 [1,0] 1 [1,0] Offactory Epithelium, Accumulation, Hyaline 1 [2,0] 2 [1,0] 1 [1,0] Dipplet 1 [2,0] 1 [1,0] 4 [1,0] Respiratory Epithelium, Accumulation, Hyaline 2 [1,0] 1 [1,0] 1 [1,0] Droplet 1 [2,0] 2 [1,0] 1 [1,0] 1 [2,0] 2 [1,0]	Hemorrhage	1 [2.0]				
Infituration Cellular, Monouclear Cell 1 [2.0] 4 [1.8] Inflammation, Granubanstous 1 [3.0] Inflammation, Chronic Active 1 [1.0] Mineral 1 [1.0] Atveolar Epithelium, Hyperplasia 4 [2.0] 4 [1.5] 3 [1.7] Artery, Inflammation, Suppurative 1 [3.0] 1 3 [1.7] Artery, Inflammation, Suppurative 1 [3.0] 1 3 [1.7] Nose (50) (50) (50) (50) Poly, Inflammation, Suppurative 1 [3.0] 1 3 [1.0] Inflammation 2 [1.0] 1 [2.0] 4 [1.1] 3 [1.0] Poly, Inflammatory 1 [2.0] 1 [1.0] 1 [2.0] 1 [1.0] Olfactory Epithelium, Accumulation, Hyaline 1 [2.0] 1 [1.0] 1 [2.0] 1 [1.0] Olfactory Epithelium, Atophy 1 [2.0] 2 [1.0] 1 [1.0] 4 [1.0] Respiratory Epithelium, Atophy 1 [2.0] 2 [1.0] 1 [1.0] 1 [1.0] Trachea (50) (50) (50) (50) 1 [1.0] 1 [1.0]<	Infiltration Cellular, Histiocyte					
Inflammation, Granulomatous 1 [3.0] Inflammation, Chronic Active 1 [1.0] Mineral 1 [1.0] Alveolar Epithelium, Hyperplasia 4 [2.0] 4 [1.5] Artery, Inflammation, Suppurative 1 [3.0] Nose (50) (50) Escinophilic Material 4 7 [1.0] 4 5 [1.0] 4 2 [1.0] Inflammation 2 [1.0] 1 [3.0] 1 [3.0] Nose (50) (50) (50) Eosinophilic Material 4 7 [1.0] 4 [1.5] 3 [1.0] Inflammation 2 [1.0] 1 [3.0] 1 [3.0] Olfactory Epithelium, Accumulation, Hyaline 1 [2.0] 1 [1.0] 1 [1.0] Olfactory Epithelium, Accumulation, Hyaline 2 [1.0] 1 [1.0] 4 [1.0] Respiratory Epithelium, Accumulation, Hyaline 2 [1.0] 1 [1.0] 1 [1.0] Olfactory Epithelium, Accumulation, Hyaline 2 [1.0] 1 [1.0] 1 [1.0] Trachea (50) (50) (50) 5 [50) SPECIAL SENSES SYSTEM 1 1 [3.0] 1 [3.0]<					4 [1.8]	
Mineral Alveolar Epithelium, Hyperplasia 4 [2.0] 4 [2.0] 4 [1.5] 3 [1.7] Artery, Inflammation, Suppurative 1 [3.0] 1 [3.0] 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] 1 [3.0] Offactory Epithelium, Accumulation, Hyaline 1 [2.0] 1 [1.0] 4 [1.0] Offactory Epithelium, Accumulation, Hyaline 2 [1.0] 1 [2.0] 1 [1.0] Offactory Epithelium, Accumulation, Hyaline 2 [1.0] 1 [2.0] 2 [1.0] Offactory Epithelium, Accumulation, Hyaline 2 [1.0] 1 [2.0] 2 [1.0] Droplet 500 500 500 500 SPECIAL SENSES SYSTEM 1 1 1 Harderian Gland (50) (50) (50) (50) Hyperplasia 1 [4.0] 1 [1.0] 1 [3.0] 1 <t< td=""><td>Inflammation, Granulomatous</td><td></td><td></td><td>1 [3.0]</td><td></td><td></td></t<>	Inflammation, Granulomatous			1 [3.0]		
Alveolar Epithelium, Hyperplasia 4 [2.0] 4 [1.5] 3 [1.7] Antery, Inflammation, Suppurative 1 [3.0] 1 [3.0] Nose (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] Poly, Inflammatory 1 [3.0] 1 [3.0] 1 [3.0] Olfactory Epithelium, Accumulation, Hyaline 1 [2.0] 1 [1.0] 1 [1.0] Olfactory Epithelium, Atrophy 1 [2.0] 1 [1.0] 1 [1.0] Olfactory Epithelium, Metaplasia, Respiratory 5 [1.0] 2 [1.0] 1 [1.0] Olfactory Epithelium, Metaplasia 17 [1.0] 9 [1.0] 10 [1.2] 18 [1.0] Trachea (50) (50) (50) (50) (50) SPECIAL SENSES SYSTEM Eye (50) (50) (50) (50) Harderian Gland (50) (50) (50) (50) Hyperplasia 1 [4.0] 1 [1.0] 1 [2.0] 2 [2.0] Inflarmatior, Chronic Active 2 [3.0] <td< td=""><td>Inflammation, Chronic Active</td><td></td><td>1 [1.0]</td><td></td><td></td><td></td></td<>	Inflammation, Chronic Active		1 [1.0]			
Artery, Inflammation, Suppurative 13.01 Nose (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] 1 [3.0] Olfactory Epithelium, Accumulation, Hyaline 1 [2.0] 1 [1.0] 4 [1.0] Difactory Epithelium, Atrophy 1 [2.0] 1 [1.0] 4 [1.0] Respiratory Epithelium, Atrophy 1 [2.0] 1 [1.0] 4 [1.0] Respiratory Epithelium, Accumulation, Hyaline 2 [1.0] 1 [2.0] 2 [1.0] Difactory Epithelium, Accumulation, Hyaline 2 [1.0] 1 [2.0] 1 [1.0] Proplet (50) (50) (50) (50) Respiratory Epithelium, Hyperplasia 17 [1.0] 9 [1.0] 10 [1.2] 18 [1.0] Trachea (50) (50) (50) (50) (50) FPECIAL SENSES SYSTEM Eye (50) (50) (50) (50) Hyperplasia 1 [4.0] 1 [1.0] 1 [2.0] 2 [2.0] Inflarmation, Chronic Active 2 [3.0] 1 [3.0] 1 [3.0]	Mineral			1 [1.0]		
Nose (50) (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] 1 [3.0] Offactory Epithelium, Accumulation, Hyaline 1 [2.0] 1 [1.0] 4 [1.0] Olfactory Epithelium, Atrophy 1 [2.0] 2 [1.0] 1 [1.0] 4 [1.0] Olfactory Epithelium, Atrophy 1 [2.0] 2 [1.0] 1 [1.0] 4 [1.0] Respiratory Epithelium, Atrophy 5 [1.0] 2 [1.0] 1 [1.0] 4 [1.0] Respiratory Epithelium, Hyperplasia 17 [1.0] 9 [1.0] 10 [1.2] 18 [1.0] Trachea (50) (50) (50) (50) (50) SPECIAL SENSES SYSTEM E E 9 1 [1.0] 1 [2.0] 2 [2.0] Harderian Gland (50) (50) (50) (50) (50) 1 [3.0] URINARY SYSTEM URINARY SYSTEM 2 [1.	Alveolar Epithelium, Hyperplasia	4 [2.0]	4 [2.0]	4 [1.5]	3 [1.7]	
Ecsinophilic 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] Poly, Inflammatory 1 [3.0] 1 [3.0] 1 [3.0] 0 Olfactory Epithelium, Accumulation, Hyaline 1 [2.0] 1 [1.0] 1 [1.0] Olfactory Epithelium, Accumulation, Hyaline 2 [1.0] 1 [1.0] 4 [1.0] Olfactory Epithelium, Accumulation, Hyaline 2 [1.0] 1 [2.0] 4 [1.0] Respiratory Epithelium, Accumulation, Hyaline 2 [1.0] 1 [2.0] 2 [1.0] Proplet 0 1 [2.0] 2 [1.0] 4 [1.0] Respiratory Epithelium, Accumulation, Hyaline 2 [1.0] 1 [2.0] 2 [1.0] Droplet 5 [50) (50) 5 [50) 5 [50] Respiratory Epithelium, Hyperplasia 17 [1.0] 9 [1.0] 10 [1.2] 18 [1.0] Trachea 5 [50) (50) (50) (50) 1 Harderian Gland 1 1 1 1 1 Harderian Gland	Artery, Inflammation, Suppurative			1 [3.0]		
Inflammation 2 [1.0] 1 [2.0] 4 [1.5] 3 [1.0] Polyp, Inflammatory 1 [3.0] 1 [3.0] 1 0 Olfactory Epithelium, Accumulation, Hyaline 1 [2.0] 1 [1.0] 4 [1.1] 0 Olfactory Epithelium, Atrophy 1 [2.0] 1 [1.0] 4 [1.0] 1 0 Olfactory Epithelium, Accumulation, Hyaline 2 [1.0] 1 [1.0] 4 [1.0] 4 [1.0] Respiratory Epithelium, Accumulation, Hyaline 2 [1.0] 1 [2.0] 2 [1.0] 1 Olfactory Epithelium, Accumulation, Hyaline 2 [1.0] 1 [2.0] 2 [1.0] 4 [1.0] Respiratory Epithelium, Accumulation, Hyaline 2 [1.0] 1 [2.0] 2 [1.0] 10 Trachea (50) (50) (50) (50) (50) (50) Trachea (50) (50) (50) (50) (50) Propiet Phithsis Bulbi 1 1 1 1 1 1 1 1 1 1 1 1 1	Nose	(50)	(50)	(50)	(50)	
Polyp, Inflammatory 1	Eosinophilic Material	47 [1.0]	45 [1.0]	42 [1.0]	49 [1.0]	
Olfactory Epithelium, Accumulation, Hyaline 1 [2.0] 1 [1.0] Droplet Olfactory Epithelium, Atrophy 1 [2.0] 1 [1.0] Olfactory Epithelium, Metaplasia, Respiratory 5 [1.0] 2 [1.0] 1 [1.0] Olfactory Epithelium, Metaplasia, Respiratory 5 [1.0] 2 [1.0] 1 [1.0] Proplet 12.0] 2 [1.0] 4 [1.0] Respiratory Epithelium, Accumulation, Hyaline 2 [1.0] 1 [2.0] 2 [1.0] Droplet Respiratory Epithelium, Hyperplasia 17 [1.0] 9 [1.0] 10 [1.2] 18 [1.0] Trachea (50) (50) (50) (50) (50) SPECIAL SENSES SYSTEM Eye (50) (50) (50) (50) Phthisis Bulbi 1 1 1 1 Harderian Gland (50) (50) (50) (50) Hiftmention, Chronic Active 2 [3.0] 1 [3.0] 1 1 URINARY SYSTEM Kidney (50) (50) (50) 2 1	Inflammation	2 [1.0]	1 [2.0]	4 [1.5]	3 [1.0]	
Olfactory Epithelium, Accumulation, Hyaline Droplet 1 [2.0] 1 [1.0] Olfactory Epithelium, Atrophy 1 [2.0] 1 [1.0] 4 [1.0] Olfactory Epithelium, Metaplasia, Respiratory 5 [1.0] 2 [1.0] 1 [1.0] 4 [1.0] Respiratory Epithelium, Accumulation, Hyaline 2 [1.0] 1 [2.0] 2 [1.0] 4 [1.0] Respiratory Epithelium, Accumulation, Hyaline 2 [1.0] 1 [2.0] 2 [1.0] 1 [1.0] Trachea (50) (50) (50) (50) (50) SPECIAL SENSES SYSTEM 5 5 5 5 5 SPECIAL SENSES SYSTEM 1 1 1 1 Harderian Gland 1 1 1 1 Harderian Gland (50) (50) (50) (50) 1 Inflammation, Chronic Active 2 [3.0] 1 [3.0] 1 1 1 URINARY SYSTEM 5 [1.0] 7 [1.4] 1 [1.0] 1 1 1	Polyp, Inflammatory		1 [3.0]	1 [3.0]		
Olfactory Epithelium, Metaplasia, Respiratory 5 [1.0] 2 [1.0] 1 [1.0] 4 [1.0] Respiratory Epithelium, Accumulation, Hyaline 2 [1.0] 1 [2.0] 2 [1.0] 10 [1.2] 18 [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) 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] 1 [3.0] URINARY SYSTEM Kidney (50) (50) (50) (50) Cyst 2 1 1 1	Olfactory Epithelium, Accumulation, Hyaline Droplet				1 [1.0]	
Olfactory Epithelium, Metaplasia, Respiratory 5 [1.0] 2 [1.0] 1 [1.0] 4 [1.0] Respiratory Epithelium, Accumulation, Hyaline 2 [1.0] 1 [2.0] 2 [1.0] 10 [1.2] 18 [1.0] Respiratory Epithelium, Hyperplasia 17 [1.0] 9 [1.0] 10 [1.2] 18 [1.0] Trachea (50) (50) (50) (50) (50) SPECIAL SENSES SYSTEM Eye (50) (50) (50) (50) Phthisis Bulbi 1 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] 1 [3.0]		1 [2.0]				
Respiratory Epithelium, Accumulation, Hyaline 2 [1.0] 1 [2.0] 2 [1.0] Droplet Prophet 17 [1.0] 9 [1.0] 10 [1.2] 18 [1.0] Trachea (50) (50) (50) (50) SPECIAL SENSES SYSTEM Eye (50) (50) (50) Phthisis Bulbi 1 1 Harderian Gland (50) (50) (50) Hyperplasia 1 [4.0] 1 [1.0] 1 [2.0] 2 [2.0] URINARY SYSTEM V 1 [3.0] 1 [3.0] 1 [3.0]	Olfactory Epithelium, Metaplasia, Respiratory		2 [1.0]	1 [1.0]	4 [1.0]	
Trachea (50) (50) (50) (50) SPECIAL SENSES SYSTEM Eye (50) (50) (50) Phthisis Bulbi 1 1 Harderian Gland (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] 1 URINARY SYSTEM Kidney (50) (50) (50) Kidney (50) (50) (50) (50) Infarct 5 [1.0] 7 [1.4] 1 [1.0] 1	Respiratory Epithelium, Accumulation, Hyaline Droplet			2 [1.0]		
Trachea (50) (50) (50) (50) SPECIAL SENSES SYSTEM 5 5 5 5 Eye (50) (50) (50) (50) Phthisis Bulbi 1 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] 1 URINARY SYSTEM 5 5 5 5 Kidney (50) (50) (50) (50) Cyst 2 1 1 1 Infarct 5 [1.0] 7 [1.4] 1 [1.0] 1	Respiratory Epithelium, Hyperplasia	17 [1.0]	9 [1.0]	10 [1.2]	18 [1.0]	
Eye (50) (50) (50) (50) (50) Phthisis Bulbi 1 1 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] 1 URINARY SYSTEM (50) (50) (50) (50) Cyst 2 1 1 1 1 Infarct 5 [1.0] 7 [1.4] 1 [1.0] 1 1	Trachea	(50)	(50)	(50)	(50)	
Phthisis Bulbi 1 1 Harderian Gland (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] 2 [2.0] URINARY SYSTEM (50) (50) (50) Kidney (50) (50) (50) (50) Cyst 2 1 1 1 Infarct 5 [1.0] 7 [1.4] 1 [1.0] 1	SPECIAL SENSES SYSTEM					
Phthisis Bulbi 1 1 Harderian Gland (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] 2 [2.0] URINARY SYSTEM (50) (50) (50) Kidney (50) (50) (50) (50) Cyst 2 1 2 1 Infarct 5 [1.0] 7 [1.4] 1 [1.0] 1	Eve	(50)	(50)	(50)	(50)	
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] 1 [3.0] URINARY SYSTEM Kidney (50) (50) (50) Cyst 2 1 Infarct 5 [1.0] 7 [1.4] 1 [1.0]			(00)	(00)		
Hyperplasia 1 [4.0] 1 [1.0] 1 [2.0] 2 [2.0] Inflammation, Chronic Active 2 [3.0] 1 [3.0] 2 [2.0] URINARY SYSTEM (50) (50) (50) (50) Kidney (50) (50) (50) 2 1 Inflarmation 5 [1.0] 7 [1.4] 1 [1.0] 1 [1.0] 1		-	(50)	(50)		
Inflammation, Chronic Active 2 [3.0] 1 [3.0] URINARY SYSTEM (50) (50) (50) Kidney (50) (50) (50) Cyst 2 1 Infarct 5 [1.0] 7 [1.4] 1 [1.0]						
Kidney(50)(50)(50)Cyst21Infarct5 [1.0]7 [1.4]1 [1.0]					- []	
Cyst 2 1 Infarct 5 [1.0] 7 [1.4] 1 [1.0]	URINARY SYSTEM					
Cyst 2 1 Infarct 5 [1.0] 7 [1.4] 1 [1.0]	Kidney	(50)	(50)	(50)	(50)	
Infarct 5 [1.0] 7 [1.4] 1 [1.0]		(00)	(00)			
		5 [1 0]	7 [1 4]			
	Inflammation, Chronic Active	0[1.0]	, [1-1]	1 [2.0]		

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

Experiment Number: 10987 - 02	P18: INCIDENCE RAT	Date Report Requested: 06/04/2018			
Test Type: CHRONIC		Time Report Requested: 09:07:59			
Route: DOSED FEED		CAS Numb	er: 84-74-2		First Dose M/F: 08/17/10 / 08/16/10
Species/Strain: MICE/B6C3F1/N		Lab: BAT			
B6C3F1/N MICE MALE	0 ppm	1000 ppm	3000 ppm	10000 ppm	
Metaplasia, Osseous	3				
Mineral	1 [1.0]	2 [1.0]	6 [1.2]	2 [1.5]	
Nephropathy, Chronic Progressive	44 [1.2]	45 [1.1]	42 [1.1]	37 [1.3]	
Glomerulus, Cyst			2		
Interstitium, Infiltration Cellular, Lymphocyte	1 [2.0]				
Interstitium, 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 ***

Experiment Number: 10987 - 02	P18: INCIDENCE RAT	Date Report Requested: 06/04/2018 Time Report Requested: 09:07:59			
Test Type: CHRONIC					
Route: DOSED FEED		•	Phthalate Der: 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	
Disposition Summary					
Animals Initially In Study Early Deaths	50	50	50	50	
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		4 [0 0]	1 [1.0]		
Inflammation, Chronic Active		1 [2.0]	1 [2.0]		
Epithelium, Hyperplasia	4 [4 0]	2 [3.0]	4 [4 0]	4 [4 0]	
Peyer's Patch, Hyperplasia, Lymphocyte	1 [4.0]	2 [2.0]	1 [4.0]	1 [1.0]	
Liver	(50)	(50)	(49)	(49)	
Angiectasis Receptilie Ecour	G	0	1 [1.0]	1	
Basophilic Focus	6	3	3	1	

Experiment Numbe	r: 10987 - 02
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P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 06/04/2018 AVERAGE SEVERITY GRADES[b]

Test Type: CHRONIC Route: DOSED FEED

Species/Strain: MICE/B6C3F1/N

Dibutyl Phthalate CAS Number: 84-74-2 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			
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]			

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

Experiment Number: 10987 - 02	P18: INCIDENCE RAT	Date Report Requested: 06/04/2018					
Test Type: CHRONIC		AVERAGE SEVERITY GRADES[b] Dibutyl Phthalate					
Route: DOSED FEED		CAS Numb	ber: 84-74-2		First Dose M/F: 08/17/10 / 08/16/10		
Species/Strain: MICE/B6C3F1/N 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]	-[-:•]	. [=.0]	.[]			
Heart	(50)	(50)	(49)	(50)			
Cardiomyopathy	19 [1.1]	7 [1.0]	11 [1.1]	12 [1.2]			
Infiltration Cellular, Mixed Cell	13[1.1]	, [1.0]	[]	1 [2.0]			
Thrombus			1 [2.0]	1 [2.0]			
Endocardium, Hyperplasia			1 [1.0]				
Endothelium, Hyperplasia	1 [2.0]		1[1.0]				
Valve, Bacterium	2						
Valve, Inflammation, Chronic							
Valve, Inflammation, Chronic Active	1 [1.0]						
valve, innamination, 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]	(·-/	\ <i>-</i> /			
Parathyroid Gland	(43)	(47)	(36)	(33)			
Cyst	1	\'' <i>\</i>	(30)	(
Pituitary Gland	(49)	(49)	(48)	(47)			
Angiectasis	(10)	1 [3.0]	1 [2.0]	()			
Pars Distalis, Hyperplasia	2 [1.5]	. [0:0]	2 [2.5]	1 [1.0]			
Pars Intermedia, Hyperplasia	2 [1.0]		2 [2.5] 2 [1.5]	. []			
Thyroid Gland	(50)	(50)	(48)	(49)			
Infiltration Cellular, Mononuclear Cell	(50)	1 [1.0]	(+0)	(73)			
Follicle, Cyst	2	4	3				
	2	4	3				

Experiment Number: 10987 - 02	P18: INCIDENCE RAT	Date Report Requested: 06/04/2018 Time Report Requested: 09:07:59 First Dose M/F: 08/17/10 / 08/16/10			
Fest Type: CHRONIC					
Route: DOSED FEED					
Species/Strain: MICE/B6C3F1/N B6C3F1/N MICE FEMALE			Lab: BAT		
	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 [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, Mucoid	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)	

Experiment Number: 10987 - 02	P18: INCIDENCE RATI	I Date Report Requested: 06/04/2018 Time Report Requested: 09:07:59			
Test Type: CHRONIC					
Route: DOSED FEED		CAS Numb	ber: 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	
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 - 1	1 [2.0]	
Lymph Node	(4)	(4)	(3)	(4)	
Lumbar, Hyperplasia, Lymphoid	(')	\ ' <i>\</i>	(0)	1 [2.0]	
Mediastinal, Infiltration Cellular, Plasma Cell		1 [3.0]		. [=.0]	
Lymph Node, Mandibular	(49)	(50)	(49)	(50)	
Atrophy	(43)	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	5 [5.2]	2 [3.0]		0 [2.5]	
Lymph Node, Mesenteric	(46)	(40)	1 [2.0]	(47)	
	(46)	(48)	(47)	(47)	
Angiectasis		1 [3.0]		0 [0 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	L - J	1	3	L - J	
Hyperplasia, Lymphocyte			1 [4.0]		
Hyperplasia, Lymphoid	4 [2.0]	5 [1.8]	2 [1.5]	1 [2.0]	

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Experiment Number: 10987 - 02	P18: INCIDENCE RAT	Date Report Requested: 06/04/2018 Time Report Requested: 09:07:59			
Test Type: CHRONIC					
Route: DOSED FEED		CAS Numb	ber: 84-74-2		First Dose M/F: 08/17/10 / 08/16/10
Species/Strain: MICE/B6C3F1/N B6C3F1/N MICE FEMALE		Lab: BAT			
	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 [2.0]				
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]	

Experiment Number: 10987 - 02

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 06/04/2018 AVERAGE SEVERITY GRADES[b]

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: MICE/B6C3F1/N

Dibutyl Phthalate

CAS Number: 84-74-2

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 [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]	(50)	(43)	(30)	
Phthisis Bulbi	1	2			
Cornea, Inflammation, Chronic Active	I	1 [2.0]			
Lens, Cataract	1 [3.0]	2 [2.5]			
Retina, Dysplasia	1 [0.0]	1 [1.0]			
Harderian Gland	(50)	(50)	(49)	(50)	
Fibrosis	(00)	(00)	1 [2.0]	(30)	
Hyperplasia	3 [2.3]	1 [1.0]	1 [3.0]	2 [3.0]	
URINARY SYSTEM					
Kidney	(50)	(50)	(49)	(49)	
Infarct				(49)	
Metaplasia, Osseous	6 [1.5] 2	1 [2.0] 1	1 [1.0] 3		
Mineral		I	3		
	1 [2.0]	07 [4 0]	26 [4 4]	20 [4 0]	
Nephropathy, Chronic Progressive	33 [1.1]	27 [1.0]	36 [1.1]	32 [1.0]	

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

Experiment Number: 10987 - 02	P18: INCIDENCE RAT	Date Report Requested: 06/04/2018			
Test Type: CHRONIC		Time Report Requested: 09:07:59 First Dose M/F: 08/17/10 / 08/16/10 Lab: BAT			
Route: DOSED FEED					
Species/Strain: MICE/B6C3F1/N					
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]		
Interstitium, 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 ***