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

Di(2-ethylhexyl) Phthalate CAS Number: 117-81-7

Final 4

Date Report Requested: 06/02/2020 Time Report Requested: 13:48:37 First Dose M/F: 06/27/11 / 06/28/11 Lab: BAT

NTP Study Number:	C10188
Lock Date:	07/15/2015
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

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

# Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020 Time Report Requested: 13:48:37 First Dose M/F: 06/27/11 / 06/28/11 Lab: BAT

Harlan Sprague Dawley RATS MALE	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Disposition Summary					
Animals Initially In Study	50	50	50	50	50
Early Deaths					
Moribund Sacrifice	12	9	4	8	7
Natural Death	13	7	6	7	14
Survivors					
Natural Death	1		1		1
Terminal Sacrifice	24	33	39	35	28
Animals Examined Microscopically	50	49	50	50	50
LIMENTARY SYSTEM					
Esophagus	(50)	(49)	(50)	(50)	(50)
Intestine Large, Cecum	(49)	(49)	(50)	(50)	(48)
Hyperplasia, Lymphocyte	( )			1 (2%)	
Inflammation, Chronic		1 (2%)			
Polyarteritis Nodosa	2 (4%)				
Intestine Large, Colon	(50)	(49)	(50)	(50)	(49)
Hyperplasia, Lymphocyte	1 (2%)	1 (2%)			
Parasite Metazoan			1 (2%)	2 (4%)	
Intestine Large, Rectum	(50)	(49)	(50)	(50)	(49)
Hyperplasia, Lymphocyte	2 (4%)	1 (2%)			
Parasite Metazoan	4 (8%)	6 (12%)	9 (18%)	10 (20%)	7 (14%)
Polyarteritis Nodosa	1 (2%)			1 (2%)	
Intestine Small, Duodenum	(50)	(49)	(50)	(49)	(49)
Artery, Mineral	1 (2%)				
Intestine Small, Ileum	(50)	(49)	(50)	(50)	(49)
Artery, Mineral	1 (2%)				
Intestine Small, Jejunum	(49)	(49)	(50)	(50)	(49)
Hyperplasia, Lymphocyte				1 (2%)	
Artery, Mineral	1 (2%)				
Liver	(50)	(49)	(50)	(50)	(49)
Angiectasis				1 (2%)	
Basophilic Focus	1 (2%)	1 (2%)	4 (8%)	4 (8%)	17 (35%)
Cholangiofibrosis				1 (2%)	

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

### Di(2-ethylhexyl) Phthalate CAS Number: 117-81-7

Date Report Requested: 06/02/2020 Time Report Requested: 13:48:37 First Dose M/F: 06/27/11 / 06/28/11 Lab: BAT

Iarlan Sprague Dawley RATS MALE	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male	
Clear Cell Focus	24 (48%)	31 (63%)	32 (64%)	36 (72%)	28 (57%)	
Degeneration, Cystic	1 (2%)	1 (2%)	1 (2%)	1 (2%)	2 (4%)	
Eosinophilic Focus	4 (8%)	1 (2%)	7 (14%)	2 (4%)	11 (22%)	
Extramedullary Hematopoiesis		4 (8%)	3 (6%)	1 (2%)		
Fatty Change, Focal			1 (2%)			
Hepatodiaphragmatic Nodule			1 (2%)			
Hypertrophy					1 (2%)	
Mixed Cell Focus		1 (2%)	1 (2%)	3 (6%)		
Necrosis	3 (6%)	4 (8%)	1 (2%)	6 (12%)	13 (27%)	
Pigment		1 (2%)	5 (10%)	40 (80%)	38 (78%)	
Regeneration					1 (2%)	
Bile Duct, Dilation	1 (2%)		1 (2%)	1 (2%)	1 (2%)	
Bile Duct, Hyperplasia	13 (26%)	18 (37%)	13 (26%)	21 (42%)	15 (31%)	
Hepatocyte, Cytoplasmic Alteration			1 (2%)	28 (56%)	37 (76%)	
Hepatocyte, Hyperplasia					1 (2%)	
Hepatocyte, Hypertrophy				3 (6%)	17 (35%)	
Mesentery	(4)	(2)	(2)	(1)	(1)	
Polyarteritis Nodosa	1 (25%)					
Artery, Mineral	3 (75%)	1 (50%)	2 (100%)	1 (100%)	1 (100%)	
Oral Mucosa	(0)	(1)	(0)	(0)	(0)	
Pancreas	(50)	(49)	(50)	(50)	(49)	
Basophilic Focus	2 (4%)	2 (4%)				
Hemorrhage					1 (2%)	
Hyperplasia					1 (2%)	
Inflammation, Chronic Active			1 (2%)	1 (2%)		
Polyarteritis Nodosa	10 (20%)	5 (10%)	3 (6%)	6 (12%)	2 (4%)	
Acinus, Atrophy	1 (2%)	1 (2%)	6 (12%)	3 (6%)	1 (2%)	
Acinus, Hyperplasia	13 (26%)	9 (18%)	16 (32%)	25 (50%)	15 (31%)	
Artery, Mineral	1 (2%)					
Artery, Necrosis	1 (2%)					
Duct, Inflammation, Chronic					1 (2%)	
Salivary Glands	(50)	(48)	(50)	(50)	(49)	
Polyarteritis Nodosa	1 (2%)	- /	. ,	. ,		
Artery, Mineral	2 (4%)		2 (4%)			
Stomach, Forestomach	(50)	(49)	(50)	(50)	(49)	
Hyperplasia, Squamous	· · /	. /	1 (2%)	. ,	· ·	

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

### Di(2-ethylhexyl) Phthalate CAS Number: 117-81-7

Date Report Requested: 06/02/2020 Time Report Requested: 13:48:37 First Dose M/F: 06/27/11 / 06/28/11 Lab: BAT

Harlan Sprague Dawley RATS MALE	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male	
Inflammation, Chronic	2 (4%)	1 (2%)	1 (2%)			
Inflammation, Chronic Active	3 (6%)	1 (2%)	3 (6%)	1 (2%)	1 (2%)	
Mineral	2 (4%)	1 (2%)	1 (2%)	1 (2%)		
Polyarteritis Nodosa	1 (2%)		1 (2%)	1 (2%)		
Ulcer	1 (2%)	1 (2%)	2 (4%)	1 (2%)	1 (2%)	
Artery, Mineral	1 (2%)	( )	1 (2%)			
Epithelium, Hyperplasia	3 (6%)	3 (6%)	3 (6%)	3 (6%)	6 (12%)	
Stomach, Glandular	(50)	(49)	(50)	(50)	(49)	
Cyst, Squamous					1 (2%)	
Erosion		1 (2%)			· · · · ·	
Inflammation, Acute		1 (2%)				
Inflammation, Chronic					1 (2%)	
Inflammation, Chronic Active	1 (2%)					
Mineral	6 (12%)	3 (6%)	4 (8%)	1 (2%)	1 (2%)	
Polyarteritis Nodosa			1 (2%)			
Artery, Mineral	1 (2%)		1 (2%)			
Tongue	(0)	(0)	(2)	(0)	(0)	
Inflammation, Suppurative	(-)	(-)	1 (50%)	(-)	(-)	
Inflammation, Acute			1 (50%)			
Polyarteritis Nodosa			1 (50%)			
CARDIOVASCULAR SYSTEM					·	
Blood Vessel	(50)	(49)	(50)	(50)	(49)	
Aneurysm	\/	\ - <i>\</i>	1 (2%)	1 (2%)		
Degeneration			()	1 (2%)		
Dilation		1 (2%)		<b>V</b> · · · <b>/</b>		
Mineral	7 (14%)	2 (4%)	3 (6%)	3 (6%)	2 (4%)	
Thrombus	- ()	- ( · · · · /	1 (2%)	- ()	- ( ,	
Heart	(50)	(49)	(50)	(50)	(49)	
Cardiomyopathy	27 (54%)	27 (55%)	26 (52%)	34 (68%)	21 (43%)	
Inflammation, Acute	<u> </u>	1 (2%)	(J_ / J)		(	
Inflammation, Chronic Active		. (= / 0)			1 (2%)	
Mineral	5 (10%)	1 (2%)	2 (4%)		1 (2%)	

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

### Di(2-ethylhexyl) Phthalate CAS Number: 117-81-7

Date Report Requested: 06/02/2020 Time Report Requested: 13:48:37 First Dose M/F: 06/27/11 / 06/28/11 Lab: BAT

Harlan Sprague Dawley RATS MALE	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male	
Necrosis, Focal					1 (2%)	
Polyarteritis Nodosa	2 (4%)	2 (4%)	2 (4%)	2 (4%)	1 (2%)	
Artery, Mineral	4 (8%)	2 (4%)	2 (4%)		1 (2%)	
Atrium, Thrombus	1 (2%)				1 (2%)	
Schwann Cell, Hyperplasia	1 (2%)					
Valve, Degeneration	1 (2%)					
Valve, Fibrosis		2 (4%)	1 (2%)	3 (6%)	11 (22%)	
Valve, Inflammation, Chronic	1 (2%)					
Valve, Thrombus					6 (12%)	
ENDOCRINE SYSTEM						
Adrenal Cortex	(50)	(49)	(50)	(50)	(49)	
Cytoplasmic Alteration					1 (2%)	
Degeneration, Cystic	1 (2%)		1 (2%)	1 (2%)	3 (6%)	
Hemorrhage				1 (2%)		
Hyperplasia, Focal	4 (8%)	5 (10%)	5 (10%)	4 (8%)		
Hypertrophy			1 (2%)			
Hypertrophy, Focal	6 (12%)	3 (6%)	6 (12%)	6 (12%)	3 (6%)	
Metaplasia, Osseous				1 (2%)		
Necrosis	3 (6%)			1 (2%)		
Thrombus				1 (2%)		
Bilateral, Hyperplasia, Focal	1 (2%)					
Bilateral, Hypertrophy, Focal	1 (2%)		2 (4%)			
Adrenal Medulla	(50)	(49)	(50)	(50)	(49)	
Hyperplasia		1 (2%)	1 (2%)			
Hyperplasia, Focal	8 (16%)	14 (29%)	9 (18%)	8 (16%)	2 (4%)	
Bilateral, Hyperplasia, Focal	2 (4%)					
Islets, Pancreatic	(50)	(49)	(50)	(50)	(49)	
Atrophy				1 (2%)		
Hyperplasia	4 (8%)	4 (8%)	7 (14%)	3 (6%)	1 (2%)	
Parathyroid Gland	(42)	(32)	(31)	(43)	(38)	
Hyperplasia, Focal			1 (3%)			
Hyperplasia, Diffuse	2 (5%)			1 (2%)		
Hypertrophy, Focal	1 (2%)					

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

### Di(2-ethylhexyl) Phthalate CAS Number: 117-81-7

Date Report Requested: 06/02/2020 Time Report Requested: 13:48:37 First Dose M/F: 06/27/11 / 06/28/11 Lab: BAT

arlan Sprague Dawley RATS MALE	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Bilateral, Hyperplasia, Diffuse		1 (3%)			
Pituitary Gland	(50)	(49)	(50)	(50)	(49)
Hemorrhage					1 (2%)
Infiltration Cellular, Lymphocyte			1 (2%)		
Pars Distalis, Hyperplasia	19 (38%)	26 (53%)	22 (44%)	21 (42%)	14 (29%)
Pars Distalis, Hypertrophy	3 (6%)	7 (14%)	5 (10%)	15 (30%)	37 (76%)
Thyroid Gland	(50)	(49)	(50)	(50)	(50)
C-cell, Hyperplasia	5 (10%)	8 (16%)	14 (28%)	8 (16%)	2 (4%)
Follicular Cell, Hyperplasia				1 (2%)	1 (2%)

## GENERAL BODY SYSTEM

None

GENITAL SYSTEM					
Epididymis	(49)	(49)	(50)	(50)	(49)
Hypospermia			6 (12%)	3 (6%)	
Inflammation, Chronic Active	1 (2%)		1 (2%)		
Bilateral, Hypospermia	4 (8%)	5 (10%)	6 (12%)	5 (10%)	43 (88%)
Bilateral, Inflammation, Suppurative					1 (2%)
Bilateral, Polyarteritis Nodosa	2 (4%)	1 (2%)			1 (2%)
Bilateral, Duct, Exfoliated Germ Cell	6 (12%)	5 (10%)	4 (8%)		2 (4%)
Duct, Exfoliated Germ Cell			2 (4%)		
Duct, Mineral					1 (2%)
Preputial Gland	(50)	(49)	(50)	(50)	(48)
Inflammation, Suppurative	1 (2%)	1 (2%)			
Inflammation, Chronic Active	1 (2%)			1 (2%)	
Prostate	(50)	(49)	(50)	(50)	(49)
Artery, Mineral	1 (2%)		1 (2%)		
Dorsal, Epithelium, Lateral, Hyperplasia		2 (4%)		1 (2%)	
Dorsal, Lateral, Inflammation, Suppurative		1 (2%)			1 (2%)
Dorsal, Lateral, Inflammation, Acute	1 (2%)				2 (4%)
Dorsal, Lateral, Inflammation, Chronic					1 (2%)
Dorsal, Lateral, Inflammation, Chronic Active	1 (2%)	2 (4%)			

## Experiment Number: 10188 - 02 Test Type: CHRONIC Route: DOSED FEED

### Species/Strain: RATS/HSD

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

Di(2-ethylhexyl) Phthalate CAS Number: 117-81-7 Date Report Requested: 06/02/2020 Time Report Requested: 13:48:37 First Dose M/F: 06/27/11 / 06/28/11 Lab: BAT

larlan Sprague Dawley RATS MALE	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male	
Epithelium, Ventral, Hyperplasia	4 (8%)	2 (4%)	3 (6%)	3 (6%)	3 (6%)	
Ventral, Hemorrhage	1 (2%)					
Ventral, Inflammation, Suppurative		2 (4%)				
Ventral, Inflammation, Granulomatous				1 (2%)		
Ventral, Inflammation, Acute	3 (6%)				1 (2%)	
Ventral, Inflammation, Chronic	1 (2%)				1 (2%)	
Ventral, Inflammation, Chronic Active	3 (6%)	3 (6%)	1 (2%)	2 (4%)	2 (4%)	
Seminal Vesicle	(50)	(49)	(50)	(50)	(49)	
Atrophy	. ,		. ,	1 (2%)		
Inflammation, Suppurative		1 (2%)				
Inflammation, Acute		1 (2%)				
Artery, Mineral			1 (2%)			
Bilateral, Inflammation, Suppurative		1 (2%)			1 (2%)	
Bilateral, Inflammation, Acute	2 (4%)			1 (2%)	2 (4%)	
Bilateral, Inflammation, Chronic Active	1 (2%)				3 (6%)	
Testis	(49)	(49)	(50)	(50)	(49)	
Degeneration	1 (2%)	( - )	()	()		
Edema	8 (16%)	7 (14%)	9 (18%)	9 (18%)	5 (10%)	
Inflammation, Granulomatous		1 (2%)				
Inflammation, Chronic Active		. (_,,,,	1 (2%)			
Polyarteritis Nodosa	1 (2%)		. (= /0)			
Bilateral, Edema	12 (24%)	16 (33%)	17 (34%)	14 (28%)	18 (37%)	
Bilateral, Polyarteritis Nodosa	18 (37%)	15 (31%)	10 (20%)	9 (18%)	6 (12%)	
Bilateral, Germinal Epithelium, Degeneration	10 (20%)	10 (20%)	7 (14%)	9 (18%)	37 (76%)	
Bilateral, Interstitial Cell, Hyperplasia, Focal	10 (20 /0)	10 (2070)	7 (11/0)	0 (1070)	7 (14%)	
Bilateral, Seminiferous Tubule, Dysgenesis					2 (4%)	
Bilateral, Seminiferous Tubule, Mineral		4 (8%)	1 (2%)		2 (4%)	
Germinal Epithelium, Degeneration	6 (12%)	15 (31%)	14 (28%)	12 (24%)	7 (14%)	
Interstitial Cell, Hyperplasia, Focal	4 (8%)	3 (6%)	6 (12%)	5 (10%)	23 (47%)	
Seminiferous Tubule, Dysgenesis	+ (070)	5 (070)	0 (1270)	5 (1070)	8 (16%)	
Tunic, Edema					1 (2%)	
Tunic, Hyperplasia, Mesothelium	1 (2%)				1 (270)	
ו ערווס, דואַטָּפוּטוּמאַמ, אופטטוופוועודו	I (∠70)					

## HEMATOPOIETIC SYSTEM

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

# Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020 Time Report Requested: 13:48:37 First Dose M/F: 06/27/11 / 06/28/11 Lab: BAT

larlan Sprague Dawley RATS MALE	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Bone Marrow	(50)	(49)	(50)	(50)	(50)
Congestion		1 (2%)	2 (4%)	2 (4%)	1 (2%)
Hypercellularity	21 (42%)	17 (35%)	29 (58%)	34 (68%)	36 (72%)
Hypocellularity					5 (10%)
Increased Bone			1 (2%)		
Necrosis			1 (2%)		
Thrombus			1 (2%)		
Lymph Node	(2)	(1)	(6)	(1)	(1)
Deep Cervical, Hemorrhage		1 (100%)			
Deep Cervical, Infiltration Cellular, Histiocyte				1 (100%)	
Deep Cervical, Pigment				1 (100%)	
Lumbar, Dilation			1 (17%)		
Lumbar, Infiltration Cellular, Histiocyte				1 (100%)	
Lumbar, Infiltration Cellular, Plasma Cell	1 (50%)				
Lumbar, Pigment				1 (100%)	
Mediastinal, Hemorrhage	1 (50%)		1 (17%)		
Mediastinal, Hyperplasia, Lymphocyte			1 (17%)		1 (100%)
Pancreatic, Hyperplasia, Lymphocyte	1 (50%)				
Lymph Node, Mandibular	(50)	(47)	(49)	(50)	(49)
Atrophy	1 (2%)	1 (2%)	1 (2%)		5 (10%)
Infiltration Cellular, Histiocyte				1 (2%)	
Infiltration Cellular, Plasma Cell	1 (2%)		1 (2%)		
Inflammation, Suppurative		1 (2%)			
Inflammation, Chronic Active				1 (2%)	
Pigment				1 (2%)	
Lymph Node, Mesenteric	(49)	(49)	(49)	(50)	(48)
Atrophy	3 (6%)	2 (4%)	1 (2%)		6 (13%)
Hemorrhage				1 (2%)	
Hyperplasia, Lymphocyte				1 (2%)	
Spleen	(50)	(49)	(50)	(50)	(49)
Extramedullary Hematopoiesis	42 (84%)	42 (86%)	42 (84%)	47 (94%)	36 (73%)
Hemorrhage			2 (4%)		
Hyperplasia, Histiocytic	1 (2%)				
Pigment	41 (82%)	43 (88%)	42 (84%)	46 (92%)	38 (78%)
White Pulp, Atrophy	13 (26%)	8 (16%)	6 (12%)	5 (10%)	9 (18%)
White Pulp, Hyperplasia	1 (2%)				1 (2%)

Experiment Number: 10188 - 02 Test Type: CHRONIC Route: DOSED FEED Species/Strain: RATS/HSD	P03: INCIDENCE F	Date Report Requested: 06/02/2020 Time Report Requested: 13:48:37 First Dose M/F: 06/27/11 / 06/28/11 Lab: BAT			
Harlan Sprague Dawley RATS MALE	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Thymus Atrophy Atrophy, Lymphocyte Ectopic Thyroid	(47) 45 (96%)	(46) 45 (98%) 1 (2%)	(49) 43 (88%)	(47) 45 (96%)	(47) 36 (77%) 5 (11%)
Polyarteritis Nodosa	1 (2%)				
INTEGUMENTARY SYSTEM					
Mammary Gland Galactocele	(49)	(48)	(50) 1 (2%)	(50)	(48)
Hyperplasia Artery, Mineral	1 (2%) 1 (2%)		, , ,	1 (2%)	
Skin Cyst Epithelial Inclusion Inflammation, Suppurative	(50) 3 (6%) 1 (2%)	(48) 1 (2%) 1 (2%)	(50) 3 (6%)	(50)	(50)
Inflammation, Acute Inflammation, Chronic		1 (2%)		1 (2%)	
Inflammation, Chronic Active Ulcer Epidermis, Hyperplasia	3 (6%) 1 (2%) 1 (2%)	2 (4%) 1 (2%)	1 (2%)	1 (2%) 2 (4%) 1 (2%)	
MUSCULOSKELETAL SYSTEM					
Bone Osteopetrosis	(50)	(49)	(50) 2 (4%)	(50)	(50)
Cartilage, Joint, Degeneration Skeletal Muscle Artery, Mineral	1 (2%) (2) 1 (50%)	(0)	(0)	(1)	2 (4%) (0)
NERVOUS SYSTEM					
Brain Edema	(50)	(49)	(50) 1 (2%)	(50)	(49)
Gliosis		1 (2%)	. (270)		1 (2%)

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

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

Di(2-ethylhexyl) Phthalate CAS Number: 117-81-7 Date Report Requested: 06/02/2020 Time Report Requested: 13:48:37 First Dose M/F: 06/27/11 / 06/28/11 Lab: BAT

Harlan Sprague Dawley RATS MALE	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Hemorrhage		2 (4%)	3 (6%)		
Inflammation, Acute		1 (2%)		1 (2%)	1 (2%)
Necrosis	1 (2%)	2 (4%)		2 (4%)	4 (8%)
Nerve Trigeminal	(0)	(0)	(0)	(1)	(0)
Peripheral Nerve	(3)	(0)	(1)	(1)	(0)
Axon, Degeneration	1 (33%)				
Axon, Sciatic, Degeneration				1 (100%)	
Ganglion, Vacuolization Cytoplasmic	2 (67%)		1 (100%)		
Spinal Cord	(1)	(0)	(0)	(1)	(0)
Axon, Degeneration				1 (100%)	
Nerve, Degeneration	1 (100%)				
RESPIRATORY SYSTEM					
Lung	(50)	(49)	(50)	(50)	(49)
Fibrosis	1 (2%)				
Hemorrhage	1 (2%)				
Infiltration Cellular, Histiocyte	34 (68%)	30 (61%)	33 (66%)	32 (64%)	32 (65%)
Inflammation, Granulomatous	4 (8%)	8 (16%)	9 (18%)	10 (20%)	9 (18%)
Inflammation, Acute	1 (2%)	2 (4%)		1 (2%)	
Inflammation, Chronic Active	7 (14%)	1 (2%)	3 (6%)	2 (4%)	4 (8%)
Metaplasia, Osseous	1 (2%)				
Mineral	2 (4%)	1 (2%)	1 (2%)		
Polyarteritis Nodosa		1 (2%)			
Thrombus		1 (2%)			
Alveolar Epithelium, Hyperplasia		1 (2%)	5 (10%)	4 (8%)	3 (6%)
Artery, Mineral	4 (8%)	1 (2%)	2 (4%)	1 (2%)	1 (2%)
Nose	(50)	(49)	(50)	(50)	(50)
Accumulation, Hyaline Droplet				1 (2%)	
Foreign Body	1 (2%)		1 (2%)		1 (2%)
Inflammation, Suppurative	4 (8%)	6 (12%)			2 (4%)
Inflammation, Acute	7 (14%)		10 (20%)	4 (8%)	5 (10%)
Inflammation, Chronic Active			2 (4%)		
Glands, Respiratory Epithelium, Dilation	1 (2%)				1 (2%)

#### Experiment Number: 10188 - 02 P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a) Date Report Requested: 06/02/2020 Test Type: CHRONIC Di(2-ethylhexyl) Phthalate Time Report Requested: 13:48:37 Route: DOSED FEED CAS Number: 117-81-7 First Dose M/F: 06/27/11 / 06/28/11 Species/Strain: RATS/HSD Lab: BAT Harlan Sprague Dawley RATS MALE 0 ppm Male 300 ppm Male 1000 ppm Male 3000 ppm Male 10000 ppm Male Olfactory Epithelium, Accumulation, Hyaline Droplet 33 (66%) 38 (78%) 38 (76%) 44 (88%) 33 (66%) 1 (2%) 1 (2%) Olfactory Epithelium, Metaplasia, Respiratory 3 (6%) 2 (4%) Respiratory Epithelium, Accumulation, Hyaline 1 (2%) 3 (6%) 2 (4%) 4 (8%) Droplet Respiratory Epithelium, Hyperplasia 1 (2%) 1 (2%) Respiratory Epithelium, Squamous Metaplasia 1 (2%) Trachea (50) (50) (50) (49)(50)

					1 (270)	
SPECIAL SENSES SYSTEM						
Eye	(50)	(49)	(50)	(50)	(49)	
Anterior Chamber, Inflammation, Acute		1 (2%)	1 (2%)			
Anterior Chamber, Bilateral, Inflammation, Acute		1 (2%)	1 (2%)			
Bilateral, Cornea, Inflammation, Acute	4 (8%)	2 (4%)	2 (4%)	1 (2%)	1 (2%)	
Choroid, Hyperplasia	1 (2%)			1 (2%)		
Cornea, Inflammation, Acute	5 (10%)	2 (4%)	1 (2%)	2 (4%)	1 (2%)	
Iris, Inflammation, Acute	1 (2%)	2 (4%)				
Lens, Cataract	1 (2%)		1 (2%)			
Lens, Inflammation, Acute		1 (2%)				
Retina, Degeneration	1 (2%)	1 (2%)			2 (4%)	
Retina, Dysplasia		1 (2%)		1 (2%)		
Retina, Hyperplasia		1 (2%)				
Harderian Gland	(50)	(49)	(50)	(50)	(50)	
Degeneration	1 (2%)					
Inflammation, Chronic			1 (2%)			
Inflammation, Chronic Active					1 (2%)	
Zymbal's Gland	(1)	(0)	(0)	(0)	(0)	
URINARY SYSTEM						
Kidney	(50)	(49)	(50)	(50)	(49)	
Developmental Malformation	(30)	1 (2%)	(30)	(30)	()	

1 (2%)

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

Inflammation, Chronic Active

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

Di(2-ethylhexyl) Phthalate CAS Number: 117-81-7 Date Report Requested: 06/02/2020 Time Report Requested: 13:48:37 First Dose M/F: 06/27/11 / 06/28/11 Lab: BAT

Harlan Sprague Dawley RATS MALE	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male	
Infarct	2 (4%)	10 (20%)	9 (18%)	7 (14%)	17 (35%)	
Inflammation, Suppurative			1 (2%)			
Inflammation, Acute	1 (2%)	1 (2%)			1 (2%)	
Inflammation, Chronic Active					1 (2%)	
Mineral	1 (2%)	2 (4%)			3 (6%)	
Nephropathy, Chronic Progressive	49 (98%)	49 (100%)	49 (98%)	50 (100%)	41 (84%)	
Artery, Mineral	3 (6%)				1 (2%)	
Bilateral, Pelvis, Dilation	1 (2%)					
Cortex, Hemorrhage					1 (2%)	
Epithelium, Papilla, Hyperplasia	9 (18%)	4 (8%)	4 (8%)	3 (6%)	17 (35%)	
Papilla, Edema					39 (80%)	
Papilla, Hemorrhage		1 (2%)		2 (4%)	12 (24%)	
Pelvis, Dilation				2 (4%)	3 (6%)	
Pelvis, Inflammation, Suppurative	1 (2%)					
Pelvis, Inflammation, Acute	1 (2%)	1 (2%)			1 (2%)	
Pelvis, Inflammation, Chronic Active					1 (2%)	
Renal Tubule, Accumulation, Hyaline Droplet		2 (4%)	2 (4%)			
Renal Tubule, Cyst	9 (18%)	2 (4%)	4 (8%)	7 (14%)	5 (10%)	
Renal Tubule, Dilation	. ,		. ,	2 (4%)		
Renal Tubule, Hyperplasia		1 (2%)		1 (2%)		
Renal Tubule, Hyperplasia, Atypical			1 (2%)	1 (2%)		
Urinary Bladder	(50)	(49)	(50)	(50)	(48)	
Hemorrhage		1 (2%)	. ,	. ,		
Inflammation, Acute	1 (2%)					
Inflammation, Chronic					1 (2%)	
Inflammation, Chronic Active	1 (2%)			1 (2%)	. ,	
Polyarteritis Nodosa	· · ·		1 (2%)			
Artery, Mineral	1 (2%)	1 (2%)				

\*\*\* END OF MALE \*\*\*

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

# Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020 Time Report Requested: 13:48:37 First Dose M/F: 06/27/11 / 06/28/11 Lab: BAT

Harlan Sprague Dawley RATS FEMALE	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Disposition Summary					
Animals Initially In Study	50	50	50	50	50
Early Deaths					
Moribund Sacrifice	13	9	9	7	12
Natural Death	5	9	7	9	11
Survivors					
Moribund Sacrifice				1	
Natural Death	1			1	
Terminal Sacrifice	31	32	34	32	27
Animals Examined Microscopically	50	50	50	50	50
ALIMENTARY SYSTEM					
Esophagus	(49)	(50)	(50)	(49)	(49)
Intestine Large, Cecum	(50)	(50)	(49)	(50)	(48)
Inflammation, Chronic Active		. ,	1 (2%)		
Parasite Metazoan		1 (2%)			
Polyarteritis Nodosa			1 (2%)		
Ulcer			1 (2%)		
Artery, Polyarteritis Nodosa				1 (2%)	
Intestine Large, Colon	(50)	(50)	(50)	(50)	(48)
Parasite Metazoan	2 (4%)	4 (8%)	()	2 (4%)	( - )
Polyarteritis Nodosa		()		2 (4%)	
Intestine Large, Rectum	(50)	(50)	(50)	(50)	(48)
Parasite Metazoan	8 (16%)	6 (12%)	8 (16%)	4 (8%)	3 (6%)
Polyarteritis Nodosa	· · /	1 (2%)	1 (2%)	1 (2%)	× /
Intestine Small, Duodenum	(49)	(50)	(50)	(49)	(48)
Inflammation, Chronic Active		1 (2%)	()	( - )	( - )
Intestine Small, Ileum	(50)	(50)	(49)	(49)	(48)
Parasite Metazoan	()	()		( )	1 (2%)
Intestine Small, Jejunum	(50)	(50)	(50)	(50)	(48)
Hyperplasia, Lymphocyte	1 (2%)	x /	x - /	x /	x - /
Liver	(49)	(50)	(50)	(50)	(48)
Angiectasis	1 (2%)	( <i>)</i>	x/	( <i>)</i>	2 (4%)
Basophilic Focus	4 (8%)	5 (10%)	3 (6%)	2 (4%)	10 (21%)

Experiment Number: 10188 - 02 Test Type: CHRONIC Route: DOSED FEED

## Species/Strain: RATS/HSD

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

# Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020 Time Report Requested: 13:48:37 First Dose M/F: 06/27/11 / 06/28/11 Lab: BAT

Harlan Sprague Dawley RATS FEMALE	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female	
Cholangiofibrosis	1 (2%)					
Clear Cell Focus	14 (29%)	18 (36%)	15 (30%)	11 (22%)	8 (17%)	
Degeneration, Cystic				1 (2%)	1 (2%)	
Eosinophilic Focus	3 (6%)	4 (8%)	4 (8%)	7 (14%)	12 (25%)	
Extramedullary Hematopoiesis	7 (14%)	6 (12%)	3 (6%)	4 (8%)	4 (8%)	
Fibrosis			· · ·	1 (2%)		
Hepatodiaphragmatic Nodule	2 (4%)	3 (6%)	3 (6%)			
Hyperplasia, Nodular			· · ·		1 (2%)	
Mixed Cell Focus		2 (4%)	1 (2%)			
Necrosis	3 (6%)	9 (18%)	3 (6%)	7 (14%)	8 (17%)	
Pigment		6 (12%)	14 (28%)	36 (72%)	40 (83%)	
Regeneration			, , , , , , , , , , , , , , , , , , ,	1 (2%)	· · · ·	
Bile Duct, Cyst		1 (2%)	1 (2%)	2 (4%)		
Bile Duct, Dilation			1 (2%)	3 (6%)		
Bile Duct, Hyperplasia	9 (18%)	13 (26%)	13 (26%)	21 (42%)	8 (17%)	
Endothelial Cell, Hypertrophy		1 (2%)				
Hepatocyte, Cytoplasmic Alteration		4 (8%)	7 (14%)	39 (78%)	39 (81%)	
Hepatocyte, Hypertrophy		2 (4%)	5 (10%)	9 (18%)	34 (71%)	
Mesentery	(1)	(1)	(1)	(2)	(1)	
Polyarteritis Nodosa				2 (100%)		
Artery, Thrombus				1 (50%)		
Fat, Necrosis		1 (100%)	1 (100%)			
Pancreas	(49)	(50)	(50)	(50)	(48)	
Basophilic Focus	1 (2%)			1 (2%)	( ),	
Inflammation, Acute				1 (2%)		
Polyarteritis Nodosa	1 (2%)	1 (2%)		2 (4%)	1 (2%)	
Acinus, Atrophy	1 (2%)	2 (4%)	3 (6%)	3 (6%)	1 (2%)	
Acinus, Hyperplasia	· · /		× /	2 (4%)	3 (6%)	
Acinus, Metaplasia, Hepatocyte				· /	1 (2%)	
Salivary Glands	(49)	(50)	(50)	(46)	(45)	
Stomach, Forestomach	(50)	(50)	(50)	(50)	(48)	
Inflammation, Acute	<u> </u>	1 (2%)	x /	()		
Inflammation, Chronic					1 (2%)	
Inflammation, Chronic Active	2 (4%)		2 (4%)	5 (10%)	2 (4%)	
Mineral	- ( - / - /		( )	1 (2%)		
Polyarteritis Nodosa			1 (2%)	- ()		

Experiment Number: 10188 - 02 Test Type: CHRONIC Route: DOSED FEED Species/Strain: RATS/HSD Harlan Sprague Dawley RATS FEMALE	P03: INCIDENCE F	Date Report Requested: 06/02/20 Time Report Requested: 13:48:37 First Dose M/F: 06/27/11 / 06/28/1 Lab: BAT			
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Ulcer	1 (2%)		1 (2%)	1 (2%)	1 (2%)
Epithelium, Hyperplasia	4 (8%)	1 (2%)	3 (6%)	3 (6%)	3 (6%)
Epithelium, Hyperplasia, Atypical		1 (2%)			
Stomach, Glandular	(50)	(50)	(50)	(50)	(48)
Inflammation, Chronic Active	C (400()	1 (2%)	4 (00()	F (400/)	2 (00)
Mineral Ulcer	6 (12%)	3 (6%) 1 (2%)	4 (8%)	5 (10%)	3 (6%)
Glands, Dysplasia	1 (2%)	T (∠ /0)			
CARDIOVASCULAR SYSTEM					· · · · · · · · · · · · · · · · · · ·
Blood Vessel	(49)	(50)	(50)	(50)	(48)
Aneurysm	( - /	()	()	2 (4%)	
Mineral				(	2 (4%)
Thrombus				1 (2%)	
Heart	(49)	(50)	(50)	(49)	(48)
Cardiomyopathy	10 (20%)	12 (24%)	8 (16%)	13 (27%)	9 (19%)
Mineral					2 (4%)
Atrium, Thrombus				1 (2%)	
Endocardium, Hyperplasia			1 (2%)		
Epicardium, Inflammation, Chronic					1 (2%)
ENDOCRINE SYSTEM					
Adrenal Cortex	(50)	(50)	(50)	(50)	(48)
Accessory Adrenal Cortical Nodule		1 (2%)			
Angiectasis	1 (2%)	1 (2%)	2 (4%)	1 (2%)	
Degeneration, Cystic	12 (24%)	8 (16%)	9 (18%)	6 (12%)	12 (25%)
Extramedullary Hematopoiesis	1 (2%)	(	1 (2%)		
Hemorrhage	4 (00)	1 (2%)		4 (661)	0 (00)
Hyperplasia Materiasia	1 (2%)	4 (00()	1 (2%)	1 (2%)	3 (6%)
Metaplasia, Osseous		1 (2%)	1 (00/)		
Mineral Necrosis		1 (2%)	1 (2%)		
Thrombus	2 (4%)	2 (4%)	2 (4%)	1 (2%)	
<ul> <li>Number of animals examined microscol</li> </ul>				i (∠/0)	

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

### Di(2-ethylhexyl) Phthalate CAS Number: 117-81-7

Date Report Requested: 06/02/2020 Time Report Requested: 13:48:37 First Dose M/F: 06/27/11 / 06/28/11 Lab: BAT

Harlan Sprague Dawley RATS FEMALE	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female	
Adrenal Medulla	(50)	(50)	(50)	(50)	(47)	
Hyperplasia	1 (2%)	2 (4%)	1 (2%)			
Islets, Pancreatic	(49)	(50)	(50)	(50)	(48)	
Hyperplasia	3 (6%)	2 (4%)	7 (14%)	4 (8%)		
Parathyroid Gland	(42)	(43)	(42)	(37)	(38)	
Hyperplasia		. ,	1 (2%)	1 (3%)	1 (3%)	
Pituitary Gland	(49)	(50)	(49)	(49)	(49)	
Angiectasis		( ),	1 (2%)			
Cyst				1 (2%)		
Pars Distalis, Hyperplasia	19 (39%)	18 (36%)	13 (27%)	20 (41%)	12 (24%)	
Thyroid Gland	(49)	(50)	(50)	(47)	(48)	
Inflammation, Acute		1 (2%)	1 (2%)		( )	
Polyarteritis Nodosa		1 (2%)				
Bilateral, C-cell, Hyperplasia		3 (6%)				
C-cell, Hyperplasia	14 (29%)	8 (16%)	13 (26%)	6 (13%)	2 (4%)	
Follicular Cell, Hyperplasia	· · · · · · · · · · · · · · · · · · ·	· · · · ·			2 (4%)	
GENERAL BODY SYSTEM Peritoneum Inflammation, Chronic	(0)	(0)	(2) 2 (100%)	(0)	(0)	
GENITAL SYSTEM						
Clitoral Gland	(50)	(49)	(49)	(50)	(46)	
Inflammation, Chronic Active	1 (2%)					
Ovary	(50)	(50)	(50)	(50)	(48)	
Cyst		1 (2%)			1 (2%)	
Pigment		1 (2%)				
Bilateral, Atrophy	40 (80%)	35 (70%)	30 (60%)	28 (56%)	19 (40%)	
Bilateral, Polyarteritis Nodosa				1 (2%)		
Bilateral, Follicle, Cyst	1 (2%)			3 (6%)	4 (8%)	
Bursa, Cyst	4 (8%)	5 (10%)	1 (2%)	2 (4%)	1 (2%)	
Corpus Luteum, Cyst	· · ·	· · ·	. ,	1 (2%)		
Follicle, Cyst	9 (18%)	9 (18%)	6 (12%)	8 (16%)	5 (10%)	

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

### Di(2-ethylhexyl) Phthalate CAS Number: 117-81-7

Date Report Requested: 06/02/2020 Time Report Requested: 13:48:37 First Dose M/F: 06/27/11 / 06/28/11 Lab: BAT

Harlan Sprague Dawley RATS FEMALE	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female	
Germinal Epithelium, Cyst		1 (2%)		1 (2%)	3 (6%)	
Interstitial Cell, Hyperplasia		1 (2%)				
Paraovarian Tissue, Cyst	1 (2%)		2 (4%)		1 (2%)	
Paraovarian Tissue, Inflammation, Chronic		1 (2%)				
Rete Ovarii, Hyperplasia		1 (2%)				
Oviduct	(0)	(0)	(0)	(1)	(0)	
Inflammation, Chronic				1 (100%)		
Uterus	(50)	(50)	(50)	(50)	(48)	
Adenomyosis	1 (2%)	1 (2%)				
Cyst, Squamous	2 (4%)		1 (2%)			
Dilation	3 (6%)	1 (2%)	1 (2%)	1 (2%)	3 (6%)	
Hemorrhage		2 (4%)	1 (2%)	1 (2%)	2 (4%)	
Hyperplasia, Stromal	1 (2%)					
Inflammation, Suppurative	4 (8%)					
Inflammation, Acute			6 (12%)	2 (4%)		
Inflammation, Chronic Active	2 (4%)		1 (2%)		1 (2%)	
Perforation			1 (2%)			
Polyarteritis Nodosa				1 (2%)		
Thrombus	1 (2%)	1 (2%)			1 (2%)	
Cervix, Hyperplasia, Squamous		. ,	1 (2%)			
Endometrium, Atypical Hyperplasia					1 (2%)	
Endometrium, Hyperplasia, Atypical	1 (2%)	1 (2%)			, , ,	
Endometrium, Hyperplasia, Cystic	27 (54%)	24 (48%)	28 (56%)	23 (46%)	16 (33%)	
Endometrium, Squamous Metaplasia	25 (50%)	17 (34%)	20 (40%)	17 (34%)	7 (15%)	
Vagina	(49)	(50)	(50)	(50)	(49)	
Inflammation, Chronic Active		1 (2%)				
Necrosis		1 (2%)				
Prolapse	1 (2%)					
HEMATOPOIETIC SYSTEM						
Bone Marrow	(50)	(50)	(50)	(50)	(50)	
Congestion	1 (2%)					
Hypercellularity Hypocellularity	39 (78%)	37 (74%)	40 (80%)	47 (94%)	38 (76%) 7 (14%)	

Experiment Number: 10188 - 02 Test Type: CHRONIC

# Route: DOSED FEED

Species/Strain: RATS/HSD

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

### Di(2-ethylhexyl) Phthalate CAS Number: 117-81-7

Date Report Requested: 06/02/2020 Time Report Requested: 13:48:37 First Dose M/F: 06/27/11 / 06/28/11 Lab: BAT

Harlan Sprague Dawley RATS FEMALE	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female	
Myelofibrosis	1 (2%)					
Lymph Node	(0)	(4)	(4)	(2)	(2)	
Axillary, Hemorrhage		1 (25%)				
Inguinal, Infiltration Cellular, Histiocyte			1 (25%)			
Lumbar, Hemorrhage		1 (25%)				
Lumbar, Hyperplasia, Lymphocyte				1 (50%)		
Lumbar, Infiltration Cellular, Plasma Cell			2 (50%)			
Mediastinal, Hemorrhage				1 (50%)		
Mediastinal, Hyperplasia, Plasma Cell		1 (25%)				
Pancreatic, Inflammation		1 (25%)				
Renal, Sinusoid, Dilation		1 (25%)				
Lymph Node, Mandibular	(49)	(49)	(50)	(46)	(42)	
Atrophy					3 (7%)	
Infiltration Cellular, Plasma Cell		1 (2%)	1 (2%)			
Lymph Node, Mesenteric	(49)	(50)	(50)	(49)	(47)	
Atrophy	1 (2%)				4 (9%)	
Hemorrhage	1 (2%)					
Hyperplasia, Lymphocyte			1 (2%)			
Infiltration Cellular, Plasma Cell		1 (2%)				
Spleen	(49)	(50)	(50)	(50)	(47)	
Extramedullary Hematopoiesis	44 (90%)	46 (92%)	47 (94%)	45 (90%)	39 (83%)	
Hemorrhage	1 (2%)	1 (2%)		1 (2%)		
Pigment	37 (76%)	39 (78%)	41 (82%)	43 (86%)	38 (81%)	
White Pulp, Atrophy	7 (14%)	4 (8%)	2 (4%)	9 (18%)	11 (23%)	
Thymus	(46)	(50)	(48)	(48)	(45)	
Atrophy	45 (98%)	46 (92%)	45 (94%)	44 (92%)	42 (93%)	
Cyst			1 (2%)			
Ectopic Parathyroid Gland				1 (2%)	1 (2%)	
Hyperplasia, Tubular		1 (2%)				
Necrosis					1 (2%)	
INTEGUMENTARY SYSTEM						
Mammary Gland	(50)	(50)	(50)	(50)	(47)	
Galactocele	2 (4%)	2 (4%)	1 (2%)	3 (6%)	1 (2%)	
	- ( · · · /	- ( · · · · )	- ()	- (- / - /	- \/	

Test Type: CHRONIC Route: DOSED FEED Species/Strain: RATS/HSD	FUS. INCIDENCE F	Time Report Requested: 06/02/20 Time Report Requested: 13:48:37 First Dose M/F: 06/27/11 / 06/28/1 Lab: BAT			
Harlan Sprague Dawley RATS FEMALE	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Hyperplasia Hyperplasia, Atypical Infiltration Cellular, Mononuclear Cell Inflammation, Chronic	16 (32%) 1 (2%) 1 (2%)	20 (40%) 1 (2%)	15 (30%)	23 (46%)	10 (21%)
Skin Inflammation, Chronic Active Ulcer	(50)	(50) 1 (2%)	(50) 1 (2%) 1 (2%)	(50)	(49)
MUSCULOSKELETAL SYSTEM					
Bone Inflammation, Chronic Necrosis	(50)	(50) 1 (2%) 1 (2%)	(50)	(50)	(50)
Osteopetrosis Skeletal Muscle Hemorrhage	1 (2%) (2) 1 (50%)	(1)	(0)	(0)	(2)
NERVOUS SYSTEM					
Brain Degeneration	(50)	(50)	(50)	(50) 1 (2%)	(49)
Gliosis Hemorrhage	1 (2%)	1 (2%) 1 (2%)	1 (2%)	- /	
Necrosis Medulla, Demyelination	2 (4%)	1 (2%)		2 (4%)	1 (2%)
Meninges, Hyperplasia Nerve Trigeminal	(0)	(1)	(0)	(0)	1 (2%) (0)
Peripheral Nerve Spinal Cord Demyelination Axon, Degeneration Nerve, Gliosis	(0) (0)	(1) (1) 1 (100%) 1 (100%) 1 (100%)	(1) (0)	(0) (0)	(0) (0)

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

Date Report Requested: 06/02/2020

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

Experiment Number: 10188 - 02

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

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020 Time Report Requested: 13:48:37 First Dose M/F: 06/27/11 / 06/28/11 Lab: BAT

Harlan Sprague Dawley RATS FEMALE	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female	
RESPIRATORY SYSTEM						
Lung	(49)	(50)	(50)	(49)	(48)	
Hyperplasia, Lymphocyte	1 (2%)					
Infiltration Cellular, Histiocyte	45 (92%)	48 (96%)	49 (98%)	47 (96%)	42 (88%)	
Inflammation, Granulomatous	8 (16%)	7 (14%)	8 (16%)	10 (20%)	7 (15%)	
Inflammation, Chronic Active	1 (2%)	2 (4%)	1 (2%)			
Thrombus		2 (4%)	1 (2%)		1 (2%)	
Alveolar Epithelium, Hyperplasia	2 (4%)					
Bronchiole, Hyperplasia	1 (2%)					
Nose	(50)	(50)	(50)	(50)	(50)	
Inflammation, Chronic Active	1 (2%)	6 (12%)	2 (4%)	3 (6%)		
Thrombus		1 (2%)	·	·		
Olfactory Epithelium, Accumulation, Hyaline Droplet	50 (100%)	48 (96%)	49 (98%)	49 (98%)	41 (82%)	
Respiratory Epithelium, Accumulation, Hyaline Droplet	11 (22%)	6 (12%)	10 (20%)	3 (6%)	1 (2%)	
Respiratory Epithelium, Hyperplasia		1 (2%)				
Respiratory Epithelium, Squamous Metaplasia				1 (2%)		
Trachea	(49)	(50)	(50)	(49)	(49)	
SPECIAL SENSES SYSTEM						
Eye	(50)	(50)	(50)	(50)	(49)	
Choroid, Hyperplasia				2 (4%)	( ),	
Cornea, Inflammation, Acute					2 (4%)	
Lens, Cataract	1 (2%)				1 (2%)	
Retina, Degeneration	1 (2%)	1 (2%)	1 (2%)		2 (4%)	
Retina, Dysplasia	1 (2%)	<u>\</u> /	()			
Retina, Hyperplasia	<u> </u>		1 (2%)	1 (2%)		
Harderian Gland	(50)	(50)	(50)	(50)	(49)	
Atrophy	1 (2%)	1 (2%)	1 (2%)	1 (2%)	\ -/	
Lacrimal Gland	(1)	(0)	(0)	(0)	(0)	

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

Di(2-ethylhexyl) Phthalate CAS Number: 117-81-7 Date Report Requested: 06/02/2020 Time Report Requested: 13:48:37 First Dose M/F: 06/27/11 / 06/28/11 Lab: BAT

larlan Sprague Dawley RATS FEMALE	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
JRINARY SYSTEM					
Kidney	(50)	(50)	(50)	(50)	(48)
Calculus Micro Observation Only		1 (2%)			
Cyst		1 (2%)			
Infarct		3 (6%)	7 (14%)	5 (10%)	12 (25%)
Nephropathy, Chronic Progressive	42 (84%)	36 (72%)	41 (82%)	45 (90%)	37 (77%)
Polyarteritis Nodosa				1 (2%)	
Epithelium, Papilla, Hyperplasia	2 (4%)	1 (2%)	2 (4%)	4 (8%)	15 (31%)
Papilla, Edema			2 (4%)		38 (79%)
Papilla, Hemorrhage					2 (4%)
Papilla, Necrosis	1 (2%)				
Pelvis, Dilation					1 (2%)
Pelvis, Inflammation, Acute			1 (2%)		
Renal Tubule, Accumulation, Hyaline Droplet	2 (4%)	1 (2%)			1 (2%)
Renal Tubule, Cyst			2 (4%)		7 (15%)
Renal Tubule, Dilation					3 (6%)
Renal Tubule, Hyperplasia, Atypical		1 (2%)			
Urethra	(0)	(0)	(0)	(0)	(1)
Urinary Bladder	(50)	(50)	(50)	(48)	(48)
Inflammation, Acute			1 (2%)		
Polyarteritis Nodosa				1 (2%)	

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