

Experiment Number: 10188 - 01
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

Final 3_HSD Rats

NTP Study Number: C10188B
Lock Date: 04/01/2015
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.5.0.0_sfh
PWG Approval Date: NONE

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SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF DI(2-ETHYLHEXYL) PHTHALATE

MALE RATS

Organ

Adrenal Cortex
Adrenal Cortex: Bilateral
Adrenal Medulla
Blood Vessel: Aorta
Bone Marrow
Bone: Joint, Cartilage
Epididymis
Epididymis: Bilateral
Epididymis: Bilateral, Duct
Epididymis: Duct
Eye: Cornea
Heart

Heart: Valve

Intestine Large, Cecum
Intestine Large, Colon
Intestine Large, Rectum
Islets, Pancreatic
Kidney
Liver

Liver: Hepatocyte

Lung
Lung: Alveolus
Lymph Node, Mandibular

Morphology

Hypertrophy Focal
Hypertrophy Focal
Hyperplasia Focal
Mineral
Hypercellularity
Degeneration
Hypospermia
Hypospermia
Exfoliated Germ Cell
Exfoliated Germ Cell
Inflammation Chronic
Cardiomyopathy
Polyarteritis Nodosa
Fibrosis
Thrombus
Polyarteritis Nodosa
Hyperplasia Lymphocyte
Parasite Metazoan
Hyperplasia
Infarct
Basophilic Focus
Clear Cell Focus
Eosinophilic Focus
Inflammation Focal
Necrosis
Pigment
Cytoplasmic Alteration
Hypertrophy
Infiltration Cellular Histiocyte
Infiltration Cellular Histiocyte
Dilation
Infiltration Cellular Plasma Cell

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Lymph Node, Mesenteric

Mesentery

Nose

Nose: Glands

Nose: Olfactory Epithelium

Pancreas: Acinus

Parathyroid Gland

Pituitary Gland: Pars Distalis

Pituitary Gland: Pars Intermedia

Skin

Spleen: White Pulp

Stomach, Glandular

Testis

Testis: Bilateral

Testis: Bilateral, Germinal Epithelium

Testis: Germinal Epithelium

Testis: Interstitial Cell

Thymus

Thyroid Gland: C-Cell

Trachea

FEMALE RATS

Organ

Adrenal Cortex

Bone Marrow

Bone: Joint, Cartilage

Kidney

Kidney: Pelvis

Dilation

Infiltration Cellular Plasma Cell

Polyarteritis Nodosa

Inflammation Chronic

Dilation

Accumulation, Hyaline Droplet

Metaplasia Respiratory

Hyperplasia

Hyperplasia Diffuse

Hypertrophy

Hyperplasia

Cyst Epithelial Inclusion

Atrophy

Mineral

Edema

Polyarteritis Nodosa

Edema

Polyarteritis Nodosa

Degeneration

Degeneration

Hyperplasia

Atrophy

Hyperplasia

Inflammation Chronic

Morphology

Angiectasis

Hyperplasia

Thrombus

Congestion

Hypercellularity

Degeneration

Infarct

Dilation

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SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF DI(2-ETHYLHEXYL) PHTHALATE

Liver	Basophilic Focus Extramedullary Hematopoiesis Mixed Cell Focus Pigment
Liver: Bile Duct	Cyst Hyperplasia
Liver: Hepatocyte	Cytoplasmic Alteration Hypertrophy
Lung	Inflammation Chronic Inflammation Granulomatous
Mammary Gland	Galactocele Hyperplasia Inflammation Chronic
Nose	Inflammation Chronic
Nose: Olfactory Epithelium	Accumulation, Hyaline Droplet
Nose: Respiratory Epithelium	Metaplasia
Ovary	Atrophy
Ovary: Bilateral	Atrophy
Ovary: Bursa	Cyst
Ovary: Rete Ovarii	Hyperplasia
Pancreas: Acinus	Hyperplasia
Pituitary Gland: Pars Distalis	Hyperplasia
Spleen	Extramedullary Hematopoiesis
Thyroid Gland: C-Cell	Hyperplasia
Uterus	Adenomyosis Dilation Inflammation Inflammation Chronic
Uterus: Endometrium	Metaplasia

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Adrenal Cortex					
Angiectasis					
<hr/>					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.64	0/43.27	0/46.23	0/44.60	0/46.62
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/32 (0%)	0/33 (0%)	0/39 (0%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	---	---	---	---	---
<hr/>					
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

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TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Adrenal Cortex					
Degeneration Cystic					
<hr/>					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/49 (0%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/41.64	0/43.27	1/46.23	0/44.60	2/46.62
POLY-3 PERCENT (g)	0%	0%	2.2%	0%	4.3%
TERMINAL (d)	0/32 (0%)	0/33 (0%)	1/39 (3%)	0/35 (0%)	2/42 (5%)
FIRST INCIDENCE	---	---	733 (T)	---	733 (T)
<hr/>					
STATISTICAL TESTS					
POLY 3	P=0.092	(e)	P=0.521	(e)	P=0.263
POLY 1.5	P=0.089	(e)	P=0.513	(e)	P=0.253
POLY 6	P=0.096	(e)	P=0.530	(e)	P=0.274
COCH-ARM / FISHERS	P=0.083	(e)	P=0.500	(e)	P=0.247
MAX-ISO-POLY-3	P=0.088	(e)	P=0.183	(e)	P=0.100

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Adrenal Cortex					
Hyperplasia					
LESION RATES					
OVERALL (a)	5/50 (10%)	4/49 (8%)	10/50 (20%)	4/50 (8%)	3/50 (6%)
POLY-3 RATE (b)	5/41.64	4/43.78	10/46.64	4/44.81	3/46.62
POLY-3 PERCENT (g)	12%	9.1%	21.4%	8.9%	6.4%
TERMINAL (d)	5/32 (16%)	2/33 (6%)	8/39 (21%)	3/35 (9%)	3/42 (7%)
FIRST INCIDENCE	733 (T)	653	656	677	733 (T)
STATISTICAL TESTS					
POLY 3	P=0.123N	P=0.469N	P=0.186	P=0.454N	P=0.296N
POLY 1.5	P=0.134N	P=0.487N	P=0.162	P=0.472N	P=0.318N
POLY 6	P=0.112N	P=0.449N	P=0.217	P=0.435N	P=0.273N
COCH-ARM / FISHERS	P=0.159N	P=0.513N	P=0.131	P=0.500N	P=0.357N
MAX-ISO-POLY-3	P=0.217N	P=0.338N	P=0.131	P=0.326N	P=0.194N

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TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Adrenal Cortex Hypertrophy					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.64	0/43.27	0/46.23	0/44.60	0/46.62
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/32 (0%)	0/33 (0%)	0/39 (0%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

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TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Adrenal Cortex					
Hypertrophy Focal					
<hr/>					
LESION RATES					
OVERALL (a)	3/50 (6%)	6/49 (12%)	10/50 (20%)	9/50 (18%)	5/50 (10%)
POLY-3 RATE (b)	3/41.98	6/44.13	10/46.28	9/45.47	5/47.31
POLY-3 PERCENT (g)	7.2%	13.6%	21.6%	19.8%	10.6%
TERMINAL (d)	2/32 (6%)	4/33 (12%)	9/39 (23%)	6/35 (17%)	3/42 (7%)
FIRST INCIDENCE	638	556	722	635	621
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STATISTICAL TESTS					
POLY 3	P=0.363N	P=0.266	P=0.051	P=0.078	P=0.424
POLY 1.5	P=0.394N	P=0.252	P=0.044*	P=0.071	P=0.398
POLY 6	P=0.327N	P=0.280	P=0.060	P=0.088	P=0.453
COCH-ARM / FISHERS	P=0.452N	P=0.233	P=0.036*	P=0.061	P=0.357
MAX-ISO-POLY-3	P=0.181	P=0.171	P=0.032*	P=0.048*	P=0.299

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TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Adrenal Cortex Thrombus					
LESION RATES					
OVERALL (a)	0/50 (0%)	1/49 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.64	1/43.68	0/46.23	0/44.60	0/46.62
POLY-3 PERCENT (g)	0%	2.3%	0%	0%	0%
TERMINAL (d)	0/32 (0%)	0/33 (0%)	0/39 (0%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	---	615	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Adrenal Cortex: Bilateral Hypertrophy Focal					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/49 (0%)	0/50 (0%)	3/50 (6%)	0/50 (0%)
POLY-3 RATE (b)	0/41.64	0/43.27	0/46.23	3/44.60	0/46.62
POLY-3 PERCENT (g)	0%	0%	0%	6.7%	0%
TERMINAL (d)	0/32 (0%)	0/33 (0%)	0/39 (0%)	3/35 (9%)	0/42 (0%)
FIRST INCIDENCE	---	---	---	733 (T)	---
STATISTICAL TESTS					
POLY 3	P=0.705N	(e)	(e)	P=0.131	(e)
POLY 1.5	P=0.712	(e)	(e)	P=0.126	(e)
POLY 6	P=0.694N	(e)	(e)	P=0.136	(e)
COCH-ARM / FISHERS	P=0.686	(e)	(e)	P=0.121	(e)
MAX-ISO-POLY-3	P=0.178	(e)	(e)	P=0.049*	(e)

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TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Adrenal Medulla Hyperplasia					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.64	0/44.27	0/46.23	0/44.60	0/46.62
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	0/39 (0%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

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TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Adrenal Medulla Hyperplasia Focal					
LESION RATES					
OVERALL (a)	7/50 (14%)	10/50 (20%)	8/50 (16%)	4/50 (8%)	2/50 (4%)
POLY-3 RATE (b)	7/42.32	10/44.27	8/46.55	4/44.60	2/46.62
POLY-3 PERCENT (g)	16.5%	22.6%	17.2%	9%	4.3%
TERMINAL (d)	5/32 (16%)	9/34 (27%)	6/39 (15%)	4/35 (11%)	2/42 (5%)
FIRST INCIDENCE	564	732	658	733 (T)	733 (T)
STATISTICAL TESTS					
POLY 3	P=0.010N**	P=0.331	P=0.580	P=0.230N	P=0.058N
POLY 1.5	P=0.011N*	P=0.318	P=0.548	P=0.242N	P=0.065N
POLY 6	P=0.008N**	P=0.340	P=0.610N	P=0.221N	P=0.051N
COCH-ARM / FISHERS	P=0.015N*	P=0.298	P=0.500	P=0.262N	P=0.080N
MAX-ISO-POLY-3	P=0.017N*	P=0.243	P=0.468	P=0.150N	P=0.032N*

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Blood Vessel: Aorta					
Mineral					
LESION RATES					
OVERALL (a)	2/50 (4%)	1/50 (2%)	1/50 (2%)	2/50 (4%)	5/50 (10%)
POLY-3 RATE (b)	2/42.77	1/44.68	1/46.47	2/44.97	5/46.62
POLY-3 PERCENT (g)	4.7%	2.2%	2.2%	4.5%	10.7%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	0/39 (0%)	0/35 (0%)	5/42 (12%)
FIRST INCIDENCE	446	615	669	677	733 (T)
STATISTICAL TESTS					
POLY 3	P=0.035*	P=0.485N	P=0.471N	P=0.676N	P=0.253
POLY 1.5	P=0.034*	P=0.491N	P=0.483N	P=0.683N	P=0.239
POLY 6	P=0.037*	P=0.479N	P=0.458N	P=0.668N	P=0.267
COCH-ARM / FISHERS	P=0.032*	P=0.500N	P=0.500N	P=0.691N	P=0.218
MAX-ISO-POLY-3	P=0.061	P=0.271N	P=0.264N	P=0.480N	P=0.154

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Bone Marrow Congestion					
LESION RATES					
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/41.64	1/44.27	1/46.23	1/44.60	2/46.62
POLY-3 PERCENT (g)	0%	2.3%	2.2%	2.2%	4.3%
TERMINAL (d)	0/32 (0%)	1/34 (3%)	1/39 (3%)	1/35 (3%)	2/42 (5%)
FIRST INCIDENCE	---	733 (T)	733 (T)	733 (T)	733 (T)
STATISTICAL TESTS					
POLY 3	P=0.240	P=0.512	P=0.521	P=0.514	P=0.263
POLY 1.5	P=0.232	P=0.507	P=0.513	P=0.508	P=0.253
POLY 6	P=0.250	P=0.517	P=0.530	P=0.519	P=0.274
COCH-ARM / FISHERS	P=0.215	P=0.500	P=0.500	P=0.500	P=0.247
MAX-ISO-POLY-3	P=0.180	P=0.173	P=0.183	P=0.174	P=0.100

Experiment Number: 10188 - 01
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Di(2-ethylhexyl) Phthalate
 CAS Number: 117-81-7

Date Report Requested: 12/19/2019
 Time Report Requested: 17:51:32
 First Dose M/F: 02/17/11 / 02/18/11
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Bone Marrow Hypercellularity					
LESION RATES					
OVERALL (a)	18/50 (36%)	22/50 (44%)	30/50 (60%)	25/50 (50%)	34/50 (68%)
POLY-3 RATE (b)	18/47.35	22/47.91	30/49.59	25/48.96	34/49.40
POLY-3 PERCENT (g)	38%	45.9%	60.5%	51.1%	68.8%
TERMINAL (d)	7/32 (22%)	10/34 (29%)	21/39 (54%)	13/35 (37%)	28/42 (67%)
FIRST INCIDENCE	271	257	308	349	425
STATISTICAL TESTS					
POLY 3	P=0.005**	P=0.283	P=0.020*	P=0.138	P<0.001**
POLY 1.5	P=0.004**	P=0.273	P=0.016*	P=0.124	P<0.001**
POLY 6	P=0.006**	P=0.300	P=0.025*	P=0.163	P=0.002**
COCH-ARM / FISHERS	P=0.004**	P=0.270	P=0.014*	P=0.113	P<0.001**
MAX-ISO-POLY-3	P=0.002**	P=0.217	P=0.013*	P=0.101	P<0.001**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Bone: Joint, Cartilage Degeneration					
LESION RATES					
OVERALL (a)	0/50 (0%)	3/50 (6%)	2/50 (4%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/41.64	3/44.27	2/46.23	2/44.60	0/46.62
POLY-3 PERCENT (g)	0%	6.8%	4.3%	4.5%	0%
TERMINAL (d)	0/32 (0%)	3/34 (9%)	2/39 (5%)	2/35 (6%)	0/42 (0%)
FIRST INCIDENCE	---	733 (T)	733 (T)	733 (T)	---
STATISTICAL TESTS					
POLY 3	P=0.186N	P=0.130	P=0.261	P=0.253	(e)
POLY 1.5	P=0.197N	P=0.125	P=0.251	P=0.247	(e)
POLY 6	P=0.176N	P=0.134	P=0.272	P=0.259	(e)
COCH-ARM / FISHERS	P=0.216N	P=0.121	P=0.247	P=0.247	(e)
MAX-ISO-POLY-3	P=0.280N	P=0.048*	P=0.098	P=0.091	(e)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Brain Hemorrhage					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	3/50 (6%)	0/50 (0%)
POLY-3 RATE (b)	0/41.64	0/44.27	0/46.23	3/45.16	0/46.62
POLY-3 PERCENT (g)	0%	0%	0%	6.6%	0%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	0/39 (0%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	---	---	---	605	---
STATISTICAL TESTS					
POLY 3	P=0.707N	(e)	(e)	P=0.134	(e)
POLY 1.5	P=0.710	(e)	(e)	P=0.128	(e)
POLY 6	P=0.696N	(e)	(e)	P=0.141	(e)
COCH-ARM / FISHERS	P=0.685	(e)	(e)	P=0.121	(e)
MAX-ISO-POLY-3	P=0.180	(e)	(e)	P=0.051	(e)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Epididymis					
Hypospermia					
LESION RATES					
OVERALL (a)	4/50 (8%)	4/50 (8%)	4/50 (8%)	3/50 (6%)	43/50 (86%)
POLY-3 RATE (b)	4/42.02	4/45.34	4/46.49	3/45.62	43/48.43
POLY-3 PERCENT (g)	9.5%	8.8%	8.6%	6.6%	88.8%
TERMINAL (d)	3/32 (9%)	1/34 (3%)	3/39 (8%)	1/35 (3%)	37/42 (88%)
FIRST INCIDENCE	625	556	662	504	614
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.601N	P=0.587N	P=0.455N	P<0.001**
POLY 1.5	P<0.001**	P=0.618N	P=0.609N	P=0.472N	P<0.001**
POLY 6	P<0.001**	P=0.584N	P=0.562N	P=0.438N	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.643N	P=0.643N	P=0.500N	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.457N	P=0.443N	P=0.314N	P<0.001**

Experiment Number: 10188 - 01
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Di(2-ethylhexyl) Phthalate
 CAS Number: 117-81-7

Date Report Requested: 12/19/2019
 Time Report Requested: 17:51:32
 First Dose M/F: 02/17/11 / 02/18/11
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Epididymis					
Polyarteritis Nodosa					
LESION RATES					
OVERALL (a)	2/50 (4%)	2/50 (4%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/41.81	2/44.27	0/46.23	0/44.60	1/46.62
POLY-3 PERCENT (g)	4.8%	4.5%	0%	0%	2.1%
TERMINAL (d)	1/32 (3%)	2/34 (6%)	0/39 (0%)	0/35 (0%)	1/42 (2%)
FIRST INCIDENCE	689	733 (T)	---	---	733 (T)
STATISTICAL TESTS					
POLY 3	P=0.490N	P=0.673N	P=0.215N	P=0.223N	P=0.462N
POLY 1.5	P=0.489N	P=0.682N	P=0.224N	P=0.228N	P=0.476N
POLY 6	P=0.491N	P=0.667N	P=0.207N	P=0.218N	P=0.448N
COCH-ARM / FISHERS	P=0.490N	P=0.691N	P=0.247N	P=0.247N	P=0.500N
MAX-ISO-POLY-3	P=0.199N	P=0.477N	P=0.075N	P=0.075N	P=0.259N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Epididymis: Bilateral Hypospermia					
LESION RATES					
OVERALL (a)	4/50 (8%)	3/50 (6%)	4/50 (8%)	3/50 (6%)	43/50 (86%)
POLY-3 RATE (b)	4/42.02	3/45.24	4/46.49	3/45.62	43/48.43
POLY-3 PERCENT (g)	9.5%	6.6%	8.6%	6.6%	88.8%
TERMINAL (d)	3/32 (9%)	1/34 (3%)	3/39 (8%)	1/35 (3%)	37/42 (88%)
FIRST INCIDENCE	625	556	662	504	614
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.460N	P=0.587N	P=0.455N	P<0.001**
POLY 1.5	P<0.001**	P=0.476N	P=0.609N	P=0.472N	P<0.001**
POLY 6	P<0.001**	P=0.444N	P=0.562N	P=0.438N	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.500N	P=0.643N	P=0.500N	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.317N	P=0.443N	P=0.314N	P<0.001**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Epididymis: Bilateral, Duct Exfoliated Germ Cell					
LESION RATES					
OVERALL (a)	2/50 (4%)	3/50 (6%)	4/50 (8%)	4/50 (8%)	36/50 (72%)
POLY-3 RATE (b)	2/42.20	3/44.97	4/46.47	4/45.51	36/47.87
POLY-3 PERCENT (g)	4.7%	6.7%	8.6%	8.8%	75.2%
TERMINAL (d)	1/32 (3%)	1/34 (3%)	3/39 (8%)	1/35 (3%)	32/42 (76%)
FIRST INCIDENCE	556	615	669	504	614
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.529	P=0.383	P=0.372	P<0.001**
POLY 1.5	P<0.001**	P=0.517	P=0.364	P=0.359	P<0.001**
POLY 6	P<0.001**	P=0.541	P=0.403	P=0.387	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.500	P=0.339	P=0.339	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.353	P=0.245	P=0.235	P<0.001**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Epididymis: Duct Exfoliated Germ Cell					
LESION RATES					
OVERALL (a)	2/50 (4%)	3/50 (6%)	4/50 (8%)	4/50 (8%)	36/50 (72%)
POLY-3 RATE (b)	2/42.20	3/44.97	4/46.47	4/45.51	36/47.87
POLY-3 PERCENT (g)	4.7%	6.7%	8.6%	8.8%	75.2%
TERMINAL (d)	1/32 (3%)	1/34 (3%)	3/39 (8%)	1/35 (3%)	32/42 (76%)
FIRST INCIDENCE	556	615	669	504	614
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.529	P=0.383	P=0.372	P<0.001**
POLY 1.5	P<0.001**	P=0.517	P=0.364	P=0.359	P<0.001**
POLY 6	P<0.001**	P=0.541	P=0.403	P=0.387	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.500	P=0.339	P=0.339	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.353	P=0.245	P=0.235	P<0.001**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Eye: Choroid Hyperplasia					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.64	0/44.27	1/46.23	0/44.60	0/46.62
POLY-3 PERCENT (g)	0%	0%	2.2%	0%	0%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	1/39 (3%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	---	---	733 (T)	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Eye: Cornea					
Inflammation Chronic					
LESION RATES					
OVERALL (a)	4/50 (8%)	2/50 (4%)	4/50 (8%)	3/50 (6%)	0/50 (0%)
POLY-3 RATE (b)	4/41.64	2/44.27	4/46.49	3/45.28	0/46.62
POLY-3 PERCENT (g)	9.6%	4.5%	8.6%	6.6%	0%
TERMINAL (d)	4/32 (13%)	2/34 (6%)	3/39 (8%)	1/35 (3%)	0/42 (0%)
FIRST INCIDENCE	733 (T)	733 (T)	662	589	---
STATISTICAL TESTS					
POLY 3	P=0.052N	P=0.309N	P=0.581N	P=0.454N	P=0.047N*
POLY 1.5	P=0.055N	P=0.320N	P=0.607N	P=0.472N	P=0.052N
POLY 6	P=0.048N*	P=0.298N	P=0.553N	P=0.434N	P=0.042N*
COCH-ARM / FISHERS	P=0.062N	P=0.339N	P=0.643N	P=0.500N	P=0.059N
MAX-ISO-POLY-3	P=0.061N	P=0.185N	P=0.438N	P=0.313N	P=0.019N*

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
<hr/>					
Eye: Retina					
Degeneration					
<hr/>					
LESION RATES					
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	1/41.64	0/44.27	0/46.23	1/45.08	1/46.88
POLY-3 PERCENT (g)	2.4%	0%	0%	2.2%	2.1%
TERMINAL (d)	1/32 (3%)	0/34 (0%)	0/39 (0%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	733 (T)	---	---	589	663
<hr/>					
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

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First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Harderian Gland Inflammation Chronic					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/41.64	0/44.27	0/46.23	2/45.08	0/46.62
POLY-3 PERCENT (g)	0%	0%	0%	4.4%	0%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	0/39 (0%)	1/35 (3%)	0/42 (0%)
FIRST INCIDENCE	---	---	---	589	---
STATISTICAL TESTS					
POLY 3	P=0.748N	(e)	(e)	P=0.255	(e)
POLY 1.5	P=0.750	(e)	(e)	P=0.248	(e)
POLY 6	P=0.741N	(e)	(e)	P=0.263	(e)
COCH-ARM / FISHERS	P=0.731	(e)	(e)	P=0.247	(e)
MAX-ISO-POLY-3	P=0.270	(e)	(e)	P=0.093	(e)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Heart					
Cardiomyopathy					
LESION RATES					
OVERALL (a)	42/50 (84%)	41/50 (82%)	47/50 (94%)	37/50 (74%)	30/50 (60%)
POLY-3 RATE (b)	42/47.73	41/48.63	47/49.72	37/46.98	30/48.32
POLY-3 PERCENT (g)	88%	84.3%	94.5%	78.8%	62.1%
TERMINAL (d)	28/32 (88%)	30/34 (88%)	37/39 (95%)	27/35 (77%)	26/42 (62%)
FIRST INCIDENCE	271	257	308	589	455
STATISTICAL TESTS					
POLY 3	P<0.001N**	P=0.407N	P=0.204	P=0.166N	P=0.002N**
POLY 1.5	P<0.001N**	P=0.451N	P=0.157	P=0.169N	P=0.003N**
POLY 6	P<0.001N**	P=0.368N	P=0.252	P=0.160N	P=0.002N**
COCH-ARM / FISHERS	P<0.001N**	P=0.500N	P=0.100	P=0.163N	P=0.007N**
MAX-ISO-POLY-3	P<0.001N**	P=0.297N	P=0.118	P=0.106N	P<0.001N**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Heart					
Polyarteritis Nodosa					
LESION RATES					
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/41.93	0/44.27	0/46.23	0/44.60	0/46.62
POLY-3 PERCENT (g)	4.8%	0%	0%	0%	0%
TERMINAL (d)	1/32 (3%)	0/34 (0%)	0/39 (0%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	653	---	---	---	---
STATISTICAL TESTS					
POLY 3	P=0.350N	P=0.225N	P=0.216N	P=0.224N	P=0.214N
POLY 1.5	P=0.344N	P=0.230N	P=0.224N	P=0.229N	P=0.222N
POLY 6	P=0.356N	P=0.221N	P=0.208N	P=0.219N	P=0.206N
COCH-ARM / FISHERS	P=0.336N	P=0.247N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.021N*	P=0.075N	P=0.075N	P=0.075N	P=0.075N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Heart: Valve Fibrosis					
LESION RATES					
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	9/50 (18%)
POLY-3 RATE (b)	2/41.80	0/44.27	0/46.23	1/44.60	9/47.65
POLY-3 PERCENT (g)	4.8%	0%	0%	2.2%	18.9%
TERMINAL (d)	1/32 (3%)	0/34 (0%)	0/39 (0%)	1/35 (3%)	7/42 (17%)
FIRST INCIDENCE	691	---	---	733 (T)	455
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.224N	P=0.215N	P=0.477N	P=0.043*
POLY 1.5	P<0.001**	P=0.230N	P=0.224N	P=0.486N	P=0.035*
POLY 6	P<0.001**	P=0.220N	P=0.207N	P=0.469N	P=0.052
COCH-ARM / FISHERS	P<0.001**	P=0.247N	P=0.247N	P=0.500N	P=0.026*
MAX-ISO-POLY-3	P<0.001**	P=0.075N	P=0.075N	P=0.267N	P=0.027*

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Heart: Valve Thrombus					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)	6/50 (12%)
POLY-3 RATE (b)	0/41.64	0/44.27	0/46.23	2/45.39	6/47.91
POLY-3 PERCENT (g)	0%	0%	0%	4.4%	12.5%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	0/39 (0%)	0/35 (0%)	3/42 (7%)
FIRST INCIDENCE	---	---	---	605	455
STATISTICAL TESTS					
POLY 3	P<0.001**	(e)	(e)	P=0.257	P=0.024*
POLY 1.5	P<0.001**	(e)	(e)	P=0.249	P=0.021*
POLY 6	P<0.001**	(e)	(e)	P=0.266	P=0.029*
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.247	P=0.013*
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P=0.094	P=0.012*

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Intestine Large, Cecum Polyarteritis Nodosa					
LESION RATES					
OVERALL (a)	5/49 (10%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	5/41.88	1/44.27	0/46.23	0/44.60	0/46.62
POLY-3 PERCENT (g)	11.9%	2.3%	0%	0%	0%
TERMINAL (d)	3/32 (9%)	1/34 (3%)	0/39 (0%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	653	733 (T)	---	---	---
STATISTICAL TESTS					
POLY 3	P=0.066N	P=0.088N	P=0.023N*	P=0.025N*	P=0.022N*
POLY 1.5	P=0.065N	P=0.092N	P=0.025N*	P=0.027N*	P=0.025N*
POLY 6	P=0.068N	P=0.086N	P=0.021N*	P=0.024N*	P=0.020N*
COCH-ARM / FISHERS	P=0.068N	P=0.098N	P=0.027N*	P=0.027N*	P=0.027N*
MAX-ISO-POLY-3	P<0.001N**	P=0.041N*	P=0.009N**	P=0.009N**	P=0.009N**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Intestine Large, Colon Hyperplasia Lymphocyte					
LESION RATES					
OVERALL (a)	2/49 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/41.41	0/44.27	0/46.23	0/44.60	0/46.62
POLY-3 PERCENT (g)	4.8%	0%	0%	0%	0%
TERMINAL (d)	2/32 (6%)	0/34 (0%)	0/39 (0%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	733 (T)	---	---	---	---
STATISTICAL TESTS					
POLY 3	P=0.347N	P=0.222N	P=0.213N	P=0.221N	P=0.212N
POLY 1.5	P=0.341N	P=0.227N	P=0.221N	P=0.225N	P=0.219N
POLY 6	P=0.353N	P=0.218N	P=0.205N	P=0.216N	P=0.203N
COCH-ARM / FISHERS	P=0.334N	P=0.242N	P=0.242N	P=0.242N	P=0.242N
MAX-ISO-POLY-3	P=0.020N*	P=0.074N	P=0.074N	P=0.074N	P=0.074N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
<hr/>					
Intestine Large, Colon					
Parasite Metazoan					
<hr/>					
LESION RATES					
OVERALL (a)	1/49 (2%)	1/50 (2%)	3/50 (6%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/41.41	1/44.62	3/47.28	0/44.60	1/46.62
POLY-3 PERCENT (g)	2.4%	2.2%	6.3%	0%	2.1%
TERMINAL (d)	1/32 (3%)	0/34 (0%)	1/39 (3%)	0/35 (0%)	1/42 (2%)
FIRST INCIDENCE	733 (T)	635	308	---	733 (T)
<hr/>					
STATISTICAL TESTS					
POLY 3	P=0.457N	P=0.744N	P=0.354	P=0.485N	P=0.734N
POLY 1.5	P=0.465N	P=0.749N	P=0.338	P=0.489N	P=0.742N
POLY 6	P=0.447N	P=0.739N	P=0.372	P=0.481N	P=0.724N
COCH-ARM / FISHERS	P=0.481N	P=0.747N	P=0.316	P=0.495N	P=0.747N
MAX-ISO-POLY-3	P=0.414N	P=0.479N	P=0.201	P=0.156N	P=0.467N

Experiment Number: 10188 - 01
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Di(2-ethylhexyl) Phthalate
 CAS Number: 117-81-7

Date Report Requested: 12/19/2019
 Time Report Requested: 17:51:32
 First Dose M/F: 02/17/11 / 02/18/11
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Intestine Large, Rectum Parasite Metazoan					
LESION RATES					
OVERALL (a)	8/50 (16%)	11/50 (22%)	8/50 (16%)	6/50 (12%)	16/50 (32%)
POLY-3 RATE (b)	8/41.81	11/44.36	8/46.23	6/44.60	16/46.62
POLY-3 PERCENT (g)	19.1%	24.8%	17.3%	13.5%	34.3%
TERMINAL (d)	7/32 (22%)	10/34 (29%)	8/39 (21%)	6/35 (17%)	16/42 (38%)
FIRST INCIDENCE	689	709	733 (T)	733 (T)	733 (T)
STATISTICAL TESTS					
POLY 3	P=0.033*	P=0.354	P=0.522N	P=0.336N	P=0.084
POLY 1.5	P=0.030*	P=0.334	P=0.556N	P=0.355N	P=0.069
POLY 6	P=0.037*	P=0.372	P=0.485N	P=0.318N	P=0.103
COCH-ARM / FISHERS	P=0.025*	P=0.306	P=0.607N	P=0.387N	P=0.050*
MAX-ISO-POLY-3	P=0.057	P=0.269	P=0.416N	P=0.243N	P=0.062

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Intestine Large, Rectum Polyarteritis Nodosa					
LESION RATES					
OVERALL (a)	2/50 (4%)	1/50 (2%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/41.64	1/44.27	1/46.23	1/44.60	1/46.62
POLY-3 PERCENT (g)	4.8%	2.3%	2.2%	2.2%	2.1%
TERMINAL (d)	2/32 (6%)	1/34 (3%)	1/39 (3%)	1/35 (3%)	1/42 (2%)
FIRST INCIDENCE	733 (T)	733 (T)	733 (T)	733 (T)	733 (T)
STATISTICAL TESTS					
POLY 3	P=0.515N	P=0.479N	P=0.464N	P=0.476N	P=0.461N
POLY 1.5	P=0.519N	P=0.487N	P=0.478N	P=0.485N	P=0.475N
POLY 6	P=0.510N	P=0.471N	P=0.448N	P=0.467N	P=0.445N
COCH-ARM / FISHERS	P=0.528N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.416N	P=0.268N	P=0.260N	P=0.267N	P=0.259N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Islets, Pancreatic Hyperplasia					
LESION RATES					
OVERALL (a)	4/49 (8%)	0/50 (0%)	1/50 (2%)	6/50 (12%)	2/50 (4%)
POLY-3 RATE (b)	4/41.75	0/44.27	1/46.23	6/45.51	2/46.62
POLY-3 PERCENT (g)	9.6%	0%	2.2%	13.2%	4.3%
TERMINAL (d)	3/32 (9%)	0/34 (0%)	1/39 (3%)	5/35 (14%)	2/42 (5%)
FIRST INCIDENCE	638	---	733 (T)	323	733 (T)
STATISTICAL TESTS					
POLY 3	P=0.588	P=0.053N	P=0.149N	P=0.425	P=0.288N
POLY 1.5	P=0.578	P=0.055N	P=0.158N	P=0.410	P=0.302N
POLY 6	P=0.601	P=0.051N	P=0.140N	P=0.437	P=0.272N
COCH-ARM / FISHERS	P=0.556	P=0.056N	P=0.175N	P=0.383	P=0.329N
MAX-ISO-POLY-3	P=0.274N	P=0.018N*	P=0.075N	P=0.306	P=0.174N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Kidney Atrophy					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.64	0/44.27	0/46.23	0/44.60	0/46.62
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	0/39 (0%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Di(2-ethylhexyl) Phthalate
 CAS Number: 117-81-7

Date Report Requested: 12/19/2019
 Time Report Requested: 17:51:32
 First Dose M/F: 02/17/11 / 02/18/11
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Kidney Infarct					
LESION RATES					
OVERALL (a)	3/50 (6%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	3/41.64	0/44.27	1/46.23	1/44.60	2/46.89
POLY-3 PERCENT (g)	7.2%	0%	2.2%	2.2%	4.3%
TERMINAL (d)	3/32 (9%)	0/34 (0%)	1/39 (3%)	1/35 (3%)	1/42 (2%)
FIRST INCIDENCE	733 (T)	---	733 (T)	733 (T)	661
STATISTICAL TESTS					
POLY 3	P=0.495	P=0.108N	P=0.269N	P=0.281N	P=0.446N
POLY 1.5	P=0.490	P=0.112N	P=0.283N	P=0.290N	P=0.466N
POLY 6	P=0.501	P=0.104N	P=0.254N	P=0.271N	P=0.423N
COCH-ARM / FISHERS	P=0.480	P=0.121N	P=0.309N	P=0.309N	P=0.500N
MAX-ISO-POLY-3	P=0.182N	P=0.038N*	P=0.141N	P=0.144N	P=0.288N

Experiment Number: 10188 - 01
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Di(2-ethylhexyl) Phthalate
 CAS Number: 117-81-7

Date Report Requested: 12/19/2019
 Time Report Requested: 17:51:32
 First Dose M/F: 02/17/11 / 02/18/11
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Kidney Inflammation Chronic					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/41.64	0/44.27	0/46.23	2/45.24	0/46.62
POLY-3 PERCENT (g)	0%	0%	0%	4.4%	0%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	0/39 (0%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	---	---	---	605	---
STATISTICAL TESTS					
POLY 3	P=0.748N	(e)	(e)	P=0.256	(e)
POLY 1.5	P=0.750	(e)	(e)	P=0.248	(e)
POLY 6	P=0.741N	(e)	(e)	P=0.265	(e)
COCH-ARM / FISHERS	P=0.731	(e)	(e)	P=0.247	(e)
MAX-ISO-POLY-3	P=0.270	(e)	(e)	P=0.094	(e)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Kidney					
Nephropathy Chronic Progressive					
LESION RATES					
OVERALL (a)	49/50 (98%)	50/50 (100%)	50/50 (100%)	49/50 (98%)	50/50 (100%)
POLY-3 RATE (b)	49/49.23	50/50.00	50/50.00	49/49.56	50/50.00
POLY-3 PERCENT (g)	99.5%	100%	100%	98.9%	100%
TERMINAL (d)	32/32 (100%)	34/34 (100%)	39/39 (100%)	35/35 (100%)	42/42 (100%)
FIRST INCIDENCE	271	257	308	323	425
STATISTICAL TESTS					
POLY 3	P=0.903	P=1.000	P=1.000	P=0.862N	P=1.000
POLY 1.5	P=0.752	P=0.863	P=0.863	P=0.792N	P=0.863
POLY 6	P=0.998	P=1.000	P=1.000	P=0.989N	P=1.000
COCH-ARM / FISHERS	P=0.559	P=0.500	P=0.500	P=0.753N	P=0.500
MAX-ISO-POLY-3	P=0.486	P=0.160	P=0.160	P=0.293N	P=0.160

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Kidney: Pelvis Dilation					
LESION RATES					
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.64	2/44.27	0/46.23	0/44.60	0/46.62
POLY-3 PERCENT (g)	0%	4.5%	0%	0%	0%
TERMINAL (d)	0/32 (0%)	1/34 (3%)	0/39 (0%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	---	732	---	---	---
STATISTICAL TESTS					
POLY 3	P=0.369N	P=0.251	(e)	(e)	(e)
POLY 1.5	P=0.372N	P=0.245	(e)	(e)	(e)
POLY 6	P=0.366N	P=0.256	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.379N	P=0.247	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.242N	P=0.089	(e)	(e)	(e)

Experiment Number: 10188 - 01
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Di(2-ethylhexyl) Phthalate
 CAS Number: 117-81-7

Date Report Requested: 12/19/2019
 Time Report Requested: 17:51:32
 First Dose M/F: 02/17/11 / 02/18/11
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Liver					
Basophilic Focus					
LESION RATES					
OVERALL (a)	6/50 (12%)	1/50 (2%)	6/50 (12%)	4/50 (8%)	3/50 (6%)
POLY-3 RATE (b)	6/41.81	1/44.27	6/46.23	4/45.01	3/47.08
POLY-3 PERCENT (g)	14.4%	2.3%	13%	8.9%	6.4%
TERMINAL (d)	5/32 (16%)	1/34 (3%)	6/39 (15%)	2/35 (6%)	1/42 (2%)
FIRST INCIDENCE	689	733 (T)	733 (T)	677	661
STATISTICAL TESTS					
POLY 3	P=0.323N	P=0.047N*	P=0.549N	P=0.323N	P=0.187N
POLY 1.5	P=0.338N	P=0.050N*	P=0.577N	P=0.341N	P=0.207N
POLY 6	P=0.302N	P=0.043N*	P=0.518N	P=0.304N	P=0.166N
COCH-ARM / FISHERS	P=0.368N	P=0.056N	P=0.620N	P=0.370N	P=0.243N
MAX-ISO-POLY-3	P=0.190N	P=0.021N*	P=0.429N	P=0.221N	P=0.120N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Liver					
Clear Cell Focus					
LESION RATES					
OVERALL (a)	29/50 (58%)	31/50 (62%)	33/50 (66%)	35/50 (70%)	39/50 (78%)
POLY-3 RATE (b)	29/42.04	31/45.38	33/46.42	35/45.12	39/47.43
POLY-3 PERCENT (g)	69%	68.3%	71.1%	77.6%	82.2%
TERMINAL (d)	27/32 (84%)	27/34 (79%)	32/39 (82%)	33/35 (94%)	38/42 (91%)
FIRST INCIDENCE	663	579	685	644	425
STATISTICAL TESTS					
POLY 3	P=0.044*	P=0.568N	P=0.507	P=0.236	P=0.093
POLY 1.5	P=0.035*	P=0.532	P=0.397	P=0.193	P=0.057
POLY 6	P=0.051	P=0.475N	P=0.572N	P=0.294	P=0.150
COCH-ARM / FISHERS	P=0.021*	P=0.419	P=0.268	P=0.149	P=0.026*
MAX-ISO-POLY-3	P=0.077	P=0.472N	P=0.414	P=0.171	P=0.066

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Liver					
Degeneration Cystic					
LESION RATES					
OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	4/50 (8%)	1/50 (2%)
POLY-3 RATE (b)	2/41.64	1/44.27	0/46.23	4/45.23	1/46.62
POLY-3 PERCENT (g)	4.8%	2.3%	0%	8.8%	2.1%
TERMINAL (d)	2/32 (6%)	1/34 (3%)	0/39 (0%)	2/35 (6%)	1/42 (2%)
FIRST INCIDENCE	733 (T)	733 (T)	---	605	733 (T)
STATISTICAL TESTS					
POLY 3	P=0.588N	P=0.479N	P=0.215N	P=0.376	P=0.461N
POLY 1.5	P=0.595N	P=0.487N	P=0.223N	P=0.361	P=0.475N
POLY 6	P=0.579N	P=0.471N	P=0.205N	P=0.394	P=0.445N
COCH-ARM / FISHERS	P=0.611N	P=0.500N	P=0.247N	P=0.339	P=0.500N
MAX-ISO-POLY-3	P=0.398	P=0.268N	P=0.075N	P=0.238	P=0.259N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Liver					
Eosinophilic Focus					
LESION RATES					
OVERALL (a)	1/50 (2%)	0/50 (0%)	4/50 (8%)	2/50 (4%)	24/50 (48%)
POLY-3 RATE (b)	1/42.02	0/44.27	4/46.61	2/44.60	24/47.68
POLY-3 PERCENT (g)	2.4%	0%	8.6%	4.5%	50.3%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	3/39 (8%)	2/35 (6%)	22/42 (52%)
FIRST INCIDENCE	625	---	624	733 (T)	455
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.490N	P=0.212	P=0.521	P<0.001**
POLY 1.5	P<0.001**	P=0.494N	P=0.198	P=0.513	P<0.001**
POLY 6	P<0.001**	P=0.486N	P=0.227	P=0.528	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.500N	P=0.181	P=0.500	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.158N	P=0.115	P=0.303	P<0.001**

Experiment Number: 10188 - 01
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Di(2-ethylhexyl) Phthalate
 CAS Number: 117-81-7

Date Report Requested: 12/19/2019
 Time Report Requested: 17:51:32
 First Dose M/F: 02/17/11 / 02/18/11
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Liver					
Extramedullary Hematopoiesis					
LESION RATES					
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/41.78	1/44.50	0/46.23	0/44.60	0/46.62
POLY-3 PERCENT (g)	2.4%	2.3%	0%	0%	0%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	0/39 (0%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	697	671	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Di(2-ethylhexyl) Phthalate
 CAS Number: 117-81-7

Date Report Requested: 12/19/2019
 Time Report Requested: 17:51:32
 First Dose M/F: 02/17/11 / 02/18/11
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Liver					
Hepatodiaphragmatic Nodule					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/41.64	0/44.27	0/46.23	1/44.80	0/46.62
POLY-3 PERCENT (g)	0%	0%	0%	2.2%	0%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	0/39 (0%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	---	---	---	680	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
<hr/>					
Liver					
Inflammation Chronic					
<hr/>					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.64	0/44.27	0/46.23	0/44.60	0/46.62
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	0/39 (0%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	---	---	---	---	---
<hr/>					
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Liver					
Inflammation Focal					
LESION RATES					
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/41.64	0/44.27	0/46.23	0/44.60	0/46.62
POLY-3 PERCENT (g)	4.8%	0%	0%	0%	0%
TERMINAL (d)	2/32 (6%)	0/34 (0%)	0/39 (0%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	733 (T)	---	---	---	---
STATISTICAL TESTS					
POLY 3	P=0.352N	P=0.224N	P=0.215N	P=0.222N	P=0.213N
POLY 1.5	P=0.345N	P=0.229N	P=0.223N	P=0.228N	P=0.222N
POLY 6	P=0.359N	P=0.219N	P=0.205N	P=0.216N	P=0.204N
COCH-ARM / FISHERS	P=0.336N	P=0.247N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.021N*	P=0.075N	P=0.075N	P=0.075N	P=0.075N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

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First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Liver					
Mixed Cell Focus					
LESION RATES					
OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	1/41.64	1/44.27	1/46.23	2/44.60	1/46.62
POLY-3 PERCENT (g)	2.4%	2.3%	2.2%	4.5%	2.1%
TERMINAL (d)	1/32 (3%)	1/34 (3%)	1/39 (3%)	2/35 (6%)	1/42 (2%)
FIRST INCIDENCE	733 (T)	733 (T)	733 (T)	733 (T)	733 (T)
STATISTICAL TESTS					
POLY 3	P=0.633N	P=0.747N	P=0.737N	P=0.524	P=0.735N
POLY 1.5	P=0.641N	P=0.753N	P=0.746N	P=0.515	P=0.745N
POLY 6	P=0.623N	P=0.742N	P=0.726N	P=0.533	P=0.724N
COCH-ARM / FISHERS	P=0.646	P=0.753N	P=0.753N	P=0.500	P=0.753N
MAX-ISO-POLY-3	P=0.657	P=0.483N	P=0.471N	P=0.306	P=0.469N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Liver					
Necrosis					
LESION RATES					
OVERALL (a)	0/50 (0%)	2/50 (4%)	4/50 (8%)	7/50 (14%)	8/50 (16%)
POLY-3 RATE (b)	0/41.64	2/44.27	4/47.16	7/46.56	8/47.20
POLY-3 PERCENT (g)	0%	4.5%	8.5%	15%	17%
TERMINAL (d)	0/32 (0%)	1/34 (3%)	3/39 (8%)	3/35 (9%)	6/42 (14%)
FIRST INCIDENCE	---	732	308	323	621
STATISTICAL TESTS					
POLY 3	P=0.008**	P=0.251	P=0.078	P=0.012*	P=0.006**
POLY 1.5	P=0.006**	P=0.245	P=0.071	P=0.010**	P=0.005**
POLY 6	P=0.010**	P=0.256	P=0.086	P=0.014*	P=0.008**
COCH-ARM / FISHERS	P=0.005**	P=0.247	P=0.059	P=0.006**	P=0.003**
MAX-ISO-POLY-3	P=0.008**	P=0.089	P=0.034*	P=0.006**	P=0.004**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Liver Pigment					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	7/50 (14%)	45/50 (90%)	50/50 (100%)
POLY-3 RATE (b)	0/41.64	0/44.27	7/46.23	45/48.53	50/50.00
POLY-3 PERCENT (g)	0%	0%	15.1%	92.7%	100%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	7/39 (18%)	34/35 (97%)	42/42 (100%)
FIRST INCIDENCE	---	---	733 (T)	349	425
STATISTICAL TESTS					
POLY 3	P<0.001**	(e)	P=0.011*	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	P=0.010**	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	P=0.013*	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.006**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.005**	P<0.001**	P<0.001**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Liver: Bile Duct Cyst					
LESION RATES					
OVERALL (a)	2/50 (4%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/41.64	0/44.27	1/46.23	0/44.60	0/46.62
POLY-3 PERCENT (g)	4.8%	0%	2.2%	0%	0%
TERMINAL (d)	2/32 (6%)	0/34 (0%)	1/39 (3%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	733 (T)	---	733 (T)	---	---
STATISTICAL TESTS					
POLY 3	P=0.264N	P=0.224N	P=0.464N	P=0.222N	P=0.213N
POLY 1.5	P=0.262N	P=0.229N	P=0.478N	P=0.228N	P=0.222N
POLY 6	P=0.264N	P=0.219N	P=0.448N	P=0.216N	P=0.204N
COCH-ARM / FISHERS	P=0.262N	P=0.247N	P=0.500N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.057N	P=0.075N	P=0.260N	P=0.075N	P=0.075N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Liver: Bile Duct Dilation					
LESION RATES					
OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/41.64	2/44.27	1/46.23	2/44.60	0/46.62
POLY-3 PERCENT (g)	0%	4.5%	2.2%	4.5%	0%
TERMINAL (d)	0/32 (0%)	2/34 (6%)	1/39 (3%)	2/35 (6%)	0/42 (0%)
FIRST INCIDENCE	---	733 (T)	733 (T)	733 (T)	---
STATISTICAL TESTS					
POLY 3	P=0.318N	P=0.251	P=0.521	P=0.253	(e)
POLY 1.5	P=0.329N	P=0.245	P=0.513	P=0.247	(e)
POLY 6	P=0.306N	P=0.256	P=0.530	P=0.259	(e)
COCH-ARM / FISHERS	P=0.349N	P=0.247	P=0.500	P=0.247	(e)
MAX-ISO-POLY-3	P=0.353N	P=0.089	P=0.183	P=0.091	(e)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Liver: Bile Duct Hyperplasia					
LESION RATES					
OVERALL (a)	9/50 (18%)	14/50 (28%)	11/50 (22%)	8/50 (16%)	11/50 (22%)
POLY-3 RATE (b)	9/41.98	14/44.60	11/46.54	8/45.29	11/47.04
POLY-3 PERCENT (g)	21.4%	31.4%	23.6%	17.7%	23.4%
TERMINAL (d)	8/32 (25%)	12/34 (35%)	9/39 (23%)	6/35 (17%)	10/42 (24%)
FIRST INCIDENCE	638	653	685	589	614
STATISTICAL TESTS					
POLY 3	P=0.437N	P=0.209	P=0.503	P=0.431N	P=0.514
POLY 1.5	P=0.465N	P=0.193	P=0.462	P=0.458N	P=0.472
POLY 6	P=0.406N	P=0.225	P=0.549	P=0.403N	P=0.559
COCH-ARM / FISHERS	P=0.519N	P=0.171	P=0.402	P=0.500N	P=0.402
MAX-ISO-POLY-3	P=0.466N	P=0.152	P=0.407	P=0.334N	P=0.417

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male

Liver: Hepatocyte
Cytoplasmic Alteration

LESION RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	38/50 (76%)	49/50 (98%)
POLY-3 RATE (b)	0/41.64	1/44.50	0/46.23	38/47.54	49/49.20
POLY-3 PERCENT (g)	0%	2.3%	0%	79.9%	99.6%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	0/39 (0%)	31/35 (89%)	42/42 (100%)
FIRST INCIDENCE	---	671	---	349	455

STATISTICAL TESTS

POLY 3	P<0.001**	P=0.513	(e)	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.508	(e)	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.519	(e)	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.500	(e)	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.174	(e)	P<0.001**	P<0.001**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

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First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
<hr/>					
Liver: Hepatocyte Hypertrophy					
<hr/>					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)	6/50 (12%)
POLY-3 RATE (b)	0/41.64	0/44.27	0/46.23	2/44.60	6/46.62
POLY-3 PERCENT (g)	0%	0%	0%	4.5%	12.9%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	0/39 (0%)	2/35 (6%)	6/42 (14%)
FIRST INCIDENCE	---	---	---	733 (T)	733 (T)
<hr/>					
STATISTICAL TESTS					
POLY 3	P<0.001**	(e)	(e)	P=0.253	P=0.022*
POLY 1.5	P<0.001**	(e)	(e)	P=0.247	P=0.019*
POLY 6	P<0.001**	(e)	(e)	P=0.259	P=0.026*
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.247	P=0.013*
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P=0.091	P=0.010**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Lung					
Infiltration Cellular Histiocyte					
LESION RATES					
OVERALL (a)	30/50 (60%)	31/50 (62%)	39/50 (78%)	38/50 (76%)	40/50 (80%)
POLY-3 RATE (b)	30/44.53	31/48.14	39/48.51	38/47.81	40/49.47
POLY-3 PERCENT (g)	67.4%	64.4%	80.4%	79.5%	80.9%
TERMINAL (d)	22/32 (69%)	19/34 (56%)	32/39 (82%)	29/35 (83%)	34/42 (81%)
FIRST INCIDENCE	488	257	332	349	425
STATISTICAL TESTS					
POLY 3	P=0.076	P=0.467N	P=0.107	P=0.129	P=0.096
POLY 1.5	P=0.057	P=0.541N	P=0.073	P=0.101	P=0.060
POLY 6	P=0.095	P=0.394N	P=0.154	P=0.157	P=0.146
COCH-ARM / FISHERS	P=0.031*	P=0.500	P=0.041*	P=0.066	P=0.024*
MAX-ISO-POLY-3	P=0.091	P=0.384N	P=0.076	P=0.092	P=0.070

Experiment Number: 10188 - 01
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Di(2-ethylhexyl) Phthalate
 CAS Number: 117-81-7

Date Report Requested: 12/19/2019
 Time Report Requested: 17:51:32
 First Dose M/F: 02/17/11 / 02/18/11
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Lung Inflammation Chronic					
LESION RATES					
OVERALL (a)	2/50 (4%)	5/50 (10%)	5/50 (10%)	5/50 (10%)	4/50 (8%)
POLY-3 RATE (b)	2/42.16	5/45.42	5/46.28	5/44.70	4/46.89
POLY-3 PERCENT (g)	4.7%	11%	10.8%	11.2%	8.5%
TERMINAL (d)	0/32 (0%)	2/34 (6%)	4/39 (10%)	4/35 (11%)	3/42 (7%)
FIRST INCIDENCE	632	556	722	707	661
STATISTICAL TESTS					
POLY 3	P=0.568N	P=0.247	P=0.256	P=0.240	P=0.387
POLY 1.5	P=0.585N	P=0.234	P=0.240	P=0.231	P=0.369
POLY 6	P=0.549N	P=0.259	P=0.272	P=0.248	P=0.407
COCH-ARM / FISHERS	P=0.550	P=0.218	P=0.218	P=0.218	P=0.339
MAX-ISO-POLY-3	P=0.347	P=0.148	P=0.157	P=0.141	P=0.250

Experiment Number: 10188 - 01
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Di(2-ethylhexyl) Phthalate
 CAS Number: 117-81-7

Date Report Requested: 12/19/2019
 Time Report Requested: 17:51:32
 First Dose M/F: 02/17/11 / 02/18/11
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Lung					
Inflammation Granulomatous					
LESION RATES					
OVERALL (a)	6/50 (12%)	6/50 (12%)	7/50 (14%)	10/50 (20%)	8/50 (16%)
POLY-3 RATE (b)	6/41.64	6/44.36	7/46.37	10/44.60	8/46.88
POLY-3 PERCENT (g)	14.4%	13.5%	15.1%	22.4%	17.1%
TERMINAL (d)	6/32 (19%)	5/34 (15%)	6/39 (15%)	10/35 (29%)	7/42 (17%)
FIRST INCIDENCE	733 (T)	709	698	733 (T)	663
STATISTICAL TESTS					
POLY 3	P=0.397	P=0.576N	P=0.583	P=0.248	P=0.480
POLY 1.5	P=0.371	P=0.594N	P=0.549	P=0.232	P=0.445
POLY 6	P=0.428	P=0.558N	P=0.616N	P=0.266	P=0.521
COCH-ARM / FISHERS	P=0.325	P=0.620N	P=0.500	P=0.207	P=0.387
MAX-ISO-POLY-3	P=0.438	P=0.454N	P=0.465	P=0.177	P=0.374

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Lung: Alveolar Epithelium Hyperplasia					
LESION RATES					
OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	1/41.64	1/44.27	1/46.23	1/44.60	3/46.62
POLY-3 PERCENT (g)	2.4%	2.3%	2.2%	2.2%	6.4%
TERMINAL (d)	1/32 (3%)	1/34 (3%)	1/39 (3%)	1/35 (3%)	3/42 (7%)
FIRST INCIDENCE	733 (T)	733 (T)	733 (T)	733 (T)	733 (T)
STATISTICAL TESTS					
POLY 3	P=0.148	P=0.747N	P=0.737N	P=0.745N	P=0.347
POLY 1.5	P=0.144	P=0.753N	P=0.746N	P=0.751N	P=0.331
POLY 6	P=0.154	P=0.742N	P=0.726N	P=0.739N	P=0.364
COCH-ARM / FISHERS	P=0.133	P=0.753N	P=0.753N	P=0.753N	P=0.309
MAX-ISO-POLY-3	P=0.260	P=0.483N	P=0.471N	P=0.481N	P=0.195

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Lung: Alveolus Infiltration Cellular Histiocyte					
LESION RATES					
OVERALL (a)	0/50 (0%)	5/50 (10%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/41.64	5/45.21	0/46.23	0/44.60	1/46.88
POLY-3 PERCENT (g)	0%	11.1%	0%	0%	2.1%
TERMINAL (d)	0/32 (0%)	4/34 (12%)	0/39 (0%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	---	287	---	---	663
STATISTICAL TESTS					
POLY 3	P=0.375N	P=0.038*	(e)	(e)	P=0.524
POLY 1.5	P=0.384N	P=0.035*	(e)	(e)	P=0.515
POLY 6	P=0.367N	P=0.040*	(e)	(e)	P=0.534
COCH-ARM / FISHERS	P=0.405N	P=0.028*	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.141N	P=0.015*	(e)	(e)	P=0.186

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Lymph Node, Mandibular Dilation					
LESION RATES					
OVERALL (a)	3/49 (6%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	3/41.41	0/44.27	0/46.23	0/44.60	1/46.62
POLY-3 PERCENT (g)	7.2%	0%	0%	0%	2.1%
TERMINAL (d)	3/32 (9%)	0/34 (0%)	0/39 (0%)	0/35 (0%)	1/42 (2%)
FIRST INCIDENCE	733 (T)	---	---	---	733 (T)
STATISTICAL TESTS					
POLY 3	P=0.620N	P=0.107N	P=0.100N	P=0.106N	P=0.264N
POLY 1.5	P=0.614N	P=0.110N	P=0.106N	P=0.109N	P=0.277N
POLY 6	P=0.625N	P=0.103N	P=0.094N	P=0.102N	P=0.250N
COCH-ARM / FISHERS	P=0.607N	P=0.117N	P=0.117N	P=0.117N	P=0.301N
MAX-ISO-POLY-3	P=0.022N*	P=0.037N*	P=0.037N*	P=0.037N*	P=0.138N

Experiment Number: 10188 - 01
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Di(2-ethylhexyl) Phthalate
 CAS Number: 117-81-7

Date Report Requested: 12/19/2019
 Time Report Requested: 17:51:32
 First Dose M/F: 02/17/11 / 02/18/11
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Lymph Node, Mandibular Infiltration Cellular Plasma Cell					
LESION RATES					
OVERALL (a)	3/49 (6%)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	3/41.67	1/44.27	1/46.23	0/44.60	0/46.62
POLY-3 PERCENT (g)	7.2%	2.3%	2.2%	0%	0%
TERMINAL (d)	2/32 (6%)	1/34 (3%)	1/39 (3%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	663	733 (T)	733 (T)	---	---
STATISTICAL TESTS					
POLY 3	P=0.122N	P=0.284N	P=0.269N	P=0.107N	P=0.100N
POLY 1.5	P=0.122N	P=0.290N	P=0.281N	P=0.110N	P=0.105N
POLY 6	P=0.121N	P=0.279N	P=0.257N	P=0.104N	P=0.094N
COCH-ARM / FISHERS	P=0.123N	P=0.301N	P=0.301N	P=0.117N	P=0.117N
MAX-ISO-POLY-3	P=0.026N*	P=0.144N	P=0.140N	P=0.037N*	P=0.037N*

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Lymph Node, Mesenteric Atrophy					
LESION RATES					
OVERALL (a)	1/49 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/41.77	1/44.27	0/46.23	0/44.60	0/46.62
POLY-3 PERCENT (g)	2.4%	2.3%	0%	0%	0%
TERMINAL (d)	0/32 (0%)	1/34 (3%)	0/39 (0%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	632	733 (T)	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Lymph Node, Mesenteric Dilation					
LESION RATES					
OVERALL (a)	2/49 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/41.85	0/44.27	0/46.23	0/44.60	0/46.62
POLY-3 PERCENT (g)	4.8%	0%	0%	0%	0%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	0/39 (0%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	653	---	---	---	---
STATISTICAL TESTS					
POLY 3	P=0.345N	P=0.225N	P=0.216N	P=0.223N	P=0.214N
POLY 1.5	P=0.340N	P=0.228N	P=0.222N	P=0.227N	P=0.220N
POLY 6	P=0.349N	P=0.222N	P=0.209N	P=0.220N	P=0.207N
COCH-ARM / FISHERS	P=0.334N	P=0.242N	P=0.242N	P=0.242N	P=0.242N
MAX-ISO-POLY-3	P=0.020N*	P=0.074N	P=0.074N	P=0.074N	P=0.074N

Experiment Number: 10188 - 01
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Di(2-ethylhexyl) Phthalate
 CAS Number: 117-81-7

Date Report Requested: 12/19/2019
 Time Report Requested: 17:51:32
 First Dose M/F: 02/17/11 / 02/18/11
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Lymph Node, Mesenteric Infiltration Cellular Plasma Cell					
LESION RATES					
OVERALL (a)	2/49 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/41.85	0/44.27	0/46.23	0/44.60	0/46.62
POLY-3 PERCENT (g)	4.8%	0%	0%	0%	0%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	0/39 (0%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	653	---	---	---	---
STATISTICAL TESTS					
POLY 3	P=0.345N	P=0.225N	P=0.216N	P=0.223N	P=0.214N
POLY 1.5	P=0.340N	P=0.228N	P=0.222N	P=0.227N	P=0.220N
POLY 6	P=0.349N	P=0.222N	P=0.209N	P=0.220N	P=0.207N
COCH-ARM / FISHERS	P=0.334N	P=0.242N	P=0.242N	P=0.242N	P=0.242N
MAX-ISO-POLY-3	P=0.020N*	P=0.074N	P=0.074N	P=0.074N	P=0.074N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Mammary Gland					
Galactocele					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.64	0/44.27	0/45.61	0/44.60	0/46.62
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	0/39 (0%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Mammary Gland Hyperplasia					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.64	0/44.27	0/45.61	0/44.60	0/46.62
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	0/39 (0%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

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First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Mammary Gland Inflammation Chronic					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/49 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.64	0/44.27	1/45.89	0/44.60	0/46.62
POLY-3 PERCENT (g)	0%	0%	2.2%	0%	0%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	0/39 (0%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	---	---	658	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

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First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Mesentery					
Polyarteritis Nodosa					
LESION RATES					
OVERALL (a)	2/2 (100%)	3/5 (60%)	1/1 (100%)	1/3 (33%)	1/4 (25%)
POLY-3 RATE (b)	2/2.00	3/5.00	1/1.00	1/2.88	1/3.61
POLY-3 PERCENT (g)	100%	60.1%	100%	34.8%	27.7%
TERMINAL (d)	1/1 (100%)	3/4 (75%)	1/1 (100%)	1/1 (100%)	1/3 (33%)
FIRST INCIDENCE	653	733 (T)	733 (T)	733 (T)	733 (T)
STATISTICAL TESTS					
POLY 3	P=0.159N	P=0.452N	(e)	P=0.294N	P=0.183N
POLY 1.5	P=0.146N	P=0.452N	(e)	P=0.287N	P=0.170N
POLY 6	P=0.181N	P=0.452N	(e)	P=0.308N	P=0.209N
COCH-ARM / FISHERS	P=0.126N	P=0.476N	(e)	P=0.300N	P=0.200N
MAX-ISO-POLY-3	P=0.130N	P=0.206N	(e)	P=0.075N	P=0.040N*

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Nose					
Inflammation Chronic					
<hr/>					
LESION RATES					
OVERALL (a)	1/50 (2%)	8/50 (16%)	3/50 (6%)	6/50 (12%)	6/50 (12%)
POLY-3 RATE (b)	1/41.81	8/45.16	3/46.36	6/44.62	6/46.62
POLY-3 PERCENT (g)	2.4%	17.7%	6.5%	13.5%	12.9%
TERMINAL (d)	0/32 (0%)	4/34 (12%)	2/39 (5%)	5/35 (14%)	6/42 (14%)
FIRST INCIDENCE	689	615	701	728	733 (T)
<hr/>					
STATISTICAL TESTS					
POLY 3	P=0.306	P=0.021*	P=0.343	P=0.066	P=0.075
POLY 1.5	P=0.289	P=0.019*	P=0.328	P=0.063	P=0.068
POLY 6	P=0.324	P=0.024*	P=0.360	P=0.070	P=0.084
COCH-ARM / FISHERS	P=0.258	P=0.015*	P=0.309	P=0.056	P=0.056
MAX-ISO-POLY-3	P=0.107	P=0.011*	P=0.191	P=0.032*	P=0.041*

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Nose: Glands					
Dilation					
LESION RATES					
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	0/41.64	1/44.27	0/46.23	1/44.80	3/46.62
POLY-3 PERCENT (g)	0%	2.3%	0%	2.2%	6.4%
TERMINAL (d)	0/32 (0%)	1/34 (3%)	0/39 (0%)	0/35 (0%)	3/42 (7%)
FIRST INCIDENCE	---	733 (T)	---	680	733 (T)
STATISTICAL TESTS					
POLY 3	P=0.034*	P=0.512	(e)	P=0.515	P=0.140
POLY 1.5	P=0.032*	P=0.507	(e)	P=0.509	P=0.132
POLY 6	P=0.036*	P=0.517	(e)	P=0.521	P=0.150
COCH-ARM / FISHERS	P=0.030*	P=0.500	(e)	P=0.500	P=0.121
MAX-ISO-POLY-3	P=0.047*	P=0.173	(e)	P=0.176	P=0.057

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Nose: Olfactory Epithelium Accumulation, Hyaline Droplet					
LESION RATES					
OVERALL (a)	34/50 (68%)	33/50 (66%)	40/50 (80%)	40/50 (80%)	42/50 (84%)
POLY-3 RATE (b)	34/45.18	33/47.49	40/48.51	40/47.54	42/49.20
POLY-3 PERCENT (g)	75.3%	69.5%	82.5%	84.1%	85.4%
TERMINAL (d)	27/32 (84%)	23/34 (68%)	32/39 (82%)	31/35 (89%)	35/42 (83%)
FIRST INCIDENCE	271	257	332	323	455
STATISTICAL TESTS					
POLY 3	P=0.075	P=0.344N	P=0.264	P=0.194	P=0.151
POLY 1.5	P=0.053	P=0.417N	P=0.187	P=0.156	P=0.091
POLY 6	P=0.121	P=0.257N	P=0.396	P=0.262	P=0.279
COCH-ARM / FISHERS	P=0.035*	P=0.500N	P=0.127	P=0.127	P=0.050*
MAX-ISO-POLY-3	P=0.103	P=0.265N	P=0.192	P=0.132	P=0.105

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Nose: Olfactory Epithelium Metaplasia Respiratory					
LESION RATES					
OVERALL (a)	0/50 (0%)	4/50 (8%)	0/50 (0%)	4/50 (8%)	0/50 (0%)
POLY-3 RATE (b)	0/41.64	4/44.77	0/46.23	4/44.60	0/46.62
POLY-3 PERCENT (g)	0%	8.9%	0%	9%	0%
TERMINAL (d)	0/32 (0%)	2/34 (6%)	0/39 (0%)	4/35 (11%)	0/42 (0%)
FIRST INCIDENCE	---	615	---	733 (T)	---
STATISTICAL TESTS					
POLY 3	P=0.238N	P=0.070	(e)	P=0.069	(e)
POLY 1.5	P=0.249N	P=0.066	(e)	P=0.066	(e)
POLY 6	P=0.226N	P=0.074	(e)	P=0.073	(e)
COCH-ARM / FISHERS	P=0.275N	P=0.059	(e)	P=0.059	(e)
MAX-ISO-POLY-3	P=0.234N	P=0.027*	(e)	P=0.026*	(e)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Nose: Respiratory Epithelium Metaplasia					
LESION RATES					
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/41.64	1/44.36	0/46.23	1/44.80	0/46.62
POLY-3 PERCENT (g)	0%	2.3%	0%	2.2%	0%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	0/39 (0%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	---	709	---	681	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Pancreas					
Polyarteritis Nodosa					
LESION RATES					
OVERALL (a)	6/49 (12%)	4/50 (8%)	7/50 (14%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	6/41.71	4/44.56	7/46.49	2/44.60	2/46.62
POLY-3 PERCENT (g)	14.4%	9%	15.1%	4.5%	4.3%
TERMINAL (d)	5/32 (16%)	3/34 (9%)	6/39 (15%)	2/35 (6%)	2/42 (5%)
FIRST INCIDENCE	653	653	662	733 (T)	733 (T)
STATISTICAL TESTS					
POLY 3	P=0.069N	P=0.328N	P=0.583	P=0.111N	P=0.100N
POLY 1.5	P=0.073N	P=0.340N	P=0.556	P=0.117N	P=0.109N
POLY 6	P=0.064N	P=0.316N	P=0.614	P=0.106N	P=0.090N
COCH-ARM / FISHERS	P=0.083N	P=0.357N	P=0.516	P=0.128N	P=0.128N
MAX-ISO-POLY-3	P=0.107N	P=0.222N	P=0.466	P=0.061N	P=0.058N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

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First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Pancreas: Acinus Atrophy					
LESION RATES					
OVERALL (a)	3/49 (6%)	3/50 (6%)	4/50 (8%)	2/50 (4%)	5/50 (10%)
POLY-3 RATE (b)	3/41.71	3/44.27	4/47.14	2/44.60	5/47.02
POLY-3 PERCENT (g)	7.2%	6.8%	8.5%	4.5%	10.6%
TERMINAL (d)	2/32 (6%)	3/34 (9%)	3/39 (8%)	2/35 (6%)	4/42 (10%)
FIRST INCIDENCE	653	733 (T)	332	733 (T)	621
STATISTICAL TESTS					
POLY 3	P=0.315	P=0.635N	P=0.566	P=0.469N	P=0.424
POLY 1.5	P=0.303	P=0.642N	P=0.546	P=0.478N	P=0.403
POLY 6	P=0.330	P=0.629N	P=0.587	P=0.462N	P=0.448
COCH-ARM / FISHERS	P=0.281	P=0.651N	P=0.511	P=0.490N	P=0.369
MAX-ISO-POLY-3	P=0.454	P=0.470N	P=0.416	P=0.301N	P=0.298

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Pancreas: Acinus Hyperplasia					
LESION RATES					
OVERALL (a)	7/49 (14%)	8/50 (16%)	9/50 (18%)	24/50 (48%)	26/50 (52%)
POLY-3 RATE (b)	7/42.23	8/44.48	9/46.61	24/46.01	26/46.81
POLY-3 PERCENT (g)	16.6%	18%	19.3%	52.2%	55.5%
TERMINAL (d)	4/32 (13%)	7/34 (21%)	8/39 (21%)	21/35 (60%)	25/42 (60%)
FIRST INCIDENCE	632	676	624	323	684
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.544	P=0.477	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.533	P=0.450	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.550	P=0.504	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.517	P=0.410	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.432	P=0.374	P<0.001**	P<0.001**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

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First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Pancreas: Bile Duct Dilation					
LESION RATES					
OVERALL (a)	0/49 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/41.41	1/44.27	0/46.23	0/44.60	2/46.62
POLY-3 PERCENT (g)	0%	2.3%	0%	0%	4.3%
TERMINAL (d)	0/32 (0%)	1/34 (3%)	0/39 (0%)	0/35 (0%)	2/42 (5%)
FIRST INCIDENCE	---	733 (T)	---	---	733 (T)
STATISTICAL TESTS					
POLY 3	P=0.107	P=0.513	(e)	(e)	P=0.264
POLY 1.5	P=0.105	P=0.509	(e)	(e)	P=0.256
POLY 6	P=0.110	P=0.517	(e)	(e)	P=0.275
COCH-ARM / FISHERS	P=0.101	P=0.505	(e)	(e)	P=0.253
MAX-ISO-POLY-3	P=0.087	P=0.173	(e)	(e)	P=0.100

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

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First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Parathyroid Gland Hyperplasia Diffuse					
LESION RATES					
OVERALL (a)	7/43 (16%)	0/43 (0%)	2/45 (4%)	1/50 (2%)	0/40 (0%)
POLY-3 RATE (b)	7/37.94	0/37.56	2/41.47	1/44.81	0/36.62
POLY-3 PERCENT (g)	18.5%	0%	4.8%	2.2%	0%
TERMINAL (d)	4/29 (14%)	0/28 (0%)	1/34 (3%)	0/35 (0%)	0/32 (0%)
FIRST INCIDENCE	625	---	669	677	---
STATISTICAL TESTS					
POLY 3	P=0.035N*	P=0.007N**	P=0.057N	P=0.015N*	P=0.008N**
POLY 1.5	P=0.036N*	P=0.007N**	P=0.061N	P=0.015N*	P=0.008N**
POLY 6	P=0.034N*	P=0.007N**	P=0.055N	P=0.015N*	P=0.008N**
COCH-ARM / FISHERS	P=0.043N*	P=0.006N**	P=0.068N	P=0.017N*	P=0.008N**
MAX-ISO-POLY-3	P<0.001N**	P=0.002N**	P=0.030N*	P=0.007N**	P=0.003N**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Parathyroid Gland Hyperplasia Focal					
LESION RATES					
OVERALL (a)	0/43 (0%)	2/43 (5%)	1/45 (2%)	0/50 (0%)	0/40 (0%)
POLY-3 RATE (b)	0/36.91	2/37.66	1/41.23	0/44.60	0/36.62
POLY-3 PERCENT (g)	0%	5.3%	2.4%	0%	0%
TERMINAL (d)	0/29 (0%)	1/28 (4%)	1/34 (3%)	0/35 (0%)	0/32 (0%)
FIRST INCIDENCE	---	709	733 (T)	---	---
STATISTICAL TESTS					
POLY 3	P=0.296N	P=0.241	P=0.522	(e)	(e)
POLY 1.5	P=0.299N	P=0.239	P=0.517	(e)	(e)
POLY 6	P=0.294N	P=0.242	P=0.527	(e)	(e)
COCH-ARM / FISHERS	P=0.304N	P=0.247	P=0.511	(e)	(e)
MAX-ISO-POLY-3	P=0.314N	P=0.079	P=0.182	(e)	(e)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Parathyroid Gland: Bilateral Hyperplasia Diffuse					
LESION RATES					
OVERALL (a)	2/43 (5%)	0/43 (0%)	0/45 (0%)	1/50 (2%)	0/40 (0%)
POLY-3 RATE (b)	2/37.29	0/37.56	0/41.23	1/44.81	0/36.62
POLY-3 PERCENT (g)	5.4%	0%	0%	2.2%	0%
TERMINAL (d)	1/29 (3%)	0/28 (0%)	0/34 (0%)	0/35 (0%)	0/32 (0%)
FIRST INCIDENCE	625	---	---	677	---
STATISTICAL TESTS					
POLY 3	P=0.387N	P=0.235N	P=0.215N	P=0.436N	P=0.240N
POLY 1.5	P=0.386N	P=0.236N	P=0.219N	P=0.440N	P=0.244N
POLY 6	P=0.386N	P=0.236N	P=0.211N	P=0.433N	P=0.237N
COCH-ARM / FISHERS	P=0.388N	P=0.247N	P=0.236N	P=0.443N	P=0.265N
MAX-ISO-POLY-3	P=0.053N	P=0.075N	P=0.073N	P=0.238N	P=0.079N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Pituitary Gland: Pars Distalis Hyperplasia					
LESION RATES					
OVERALL (a)	28/50 (56%)	23/50 (46%)	26/50 (52%)	24/50 (48%)	23/50 (46%)
POLY-3 RATE (b)	28/44.78	23/44.82	26/47.06	24/45.13	23/47.28
POLY-3 PERCENT (g)	62.5%	51.3%	55.3%	53.2%	48.6%
TERMINAL (d)	19/32 (59%)	19/34 (56%)	22/39 (56%)	22/35 (63%)	21/42 (50%)
FIRST INCIDENCE	465	654	624	644	621
STATISTICAL TESTS					
POLY 3	P=0.198N	P=0.190N	P=0.308N	P=0.242N	P=0.125N
POLY 1.5	P=0.225N	P=0.195N	P=0.350N	P=0.249N	P=0.150N
POLY 6	P=0.171N	P=0.198N	P=0.272N	P=0.248N	P=0.107N
COCH-ARM / FISHERS	P=0.290N	P=0.212N	P=0.421N	P=0.274N	P=0.212N
MAX-ISO-POLY-3	P=0.164N	P=0.135N	P=0.241N	P=0.180N	P=0.092N

Experiment Number: 10188 - 01
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Di(2-ethylhexyl) Phthalate
 CAS Number: 117-81-7

Date Report Requested: 12/19/2019
 Time Report Requested: 17:51:32
 First Dose M/F: 02/17/11 / 02/18/11
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Pituitary Gland: Pars Distalis Hypertrophy					
LESION RATES					
OVERALL (a)	8/50 (16%)	10/50 (20%)	11/50 (22%)	14/50 (28%)	37/50 (74%)
POLY-3 RATE (b)	8/41.98	10/45.95	11/47.34	14/44.80	37/48.69
POLY-3 PERCENT (g)	19.1%	21.8%	23.2%	31.3%	76%
TERMINAL (d)	7/32 (22%)	5/34 (15%)	9/39 (23%)	13/35 (37%)	32/42 (76%)
FIRST INCIDENCE	638	257	308	681	425
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.480	P=0.412	P=0.143	P<0.001**
POLY 1.5	P<0.001**	P=0.450	P=0.371	P=0.131	P<0.001**
POLY 6	P<0.001**	P=0.509	P=0.455	P=0.156	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.398	P=0.306	P=0.114	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.382	P=0.325	P=0.101	P<0.001**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Pituitary Gland: Pars Intermedia Hyperplasia					
LESION RATES					
OVERALL (a)	0/50 (0%)	1/50 (2%)	4/50 (8%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/41.64	1/44.27	4/46.23	1/44.60	0/46.62
POLY-3 PERCENT (g)	0%	2.3%	8.7%	2.2%	0%
TERMINAL (d)	0/32 (0%)	1/34 (3%)	4/39 (10%)	1/35 (3%)	0/42 (0%)
FIRST INCIDENCE	---	733 (T)	733 (T)	733 (T)	---
STATISTICAL TESTS					
POLY 3	P=0.203N	P=0.512	P=0.075	P=0.514	(e)
POLY 1.5	P=0.216N	P=0.507	P=0.069	P=0.508	(e)
POLY 6	P=0.189N	P=0.517	P=0.082	P=0.519	(e)
COCH-ARM / FISHERS	P=0.240N	P=0.500	P=0.059	P=0.500	(e)
MAX-ISO-POLY-3	P=0.264N	P=0.173	P=0.031*	P=0.174	(e)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Preputial Gland Inflammation Chronic					
LESION RATES					
OVERALL (a)	1/49 (2%)	1/50 (2%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	1/41.20	1/44.27	1/46.23	0/44.60	2/46.62
POLY-3 PERCENT (g)	2.4%	2.3%	2.2%	0%	4.3%
TERMINAL (d)	0/31 (0%)	1/34 (3%)	1/39 (3%)	0/35 (0%)	2/42 (5%)
FIRST INCIDENCE	556	733 (T)	733 (T)	---	733 (T)
STATISTICAL TESTS					
POLY 3	P=0.355	P=0.745N	P=0.734N	P=0.484N	P=0.543
POLY 1.5	P=0.350	P=0.749N	P=0.743N	P=0.489N	P=0.530
POLY 6	P=0.361	P=0.741N	P=0.725N	P=0.480N	P=0.557
COCH-ARM / FISHERS	P=0.338	P=0.747N	P=0.747N	P=0.495N	P=0.508
MAX-ISO-POLY-3	P=0.393	P=0.480N	P=0.468N	P=0.156N	P=0.326

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male

Prostate: Epithelium, Ventral
Hyperplasia

LESION RATES					
OVERALL (a)	3/50 (6%)	4/50 (8%)	5/50 (10%)	1/50 (2%)	5/50 (10%)
POLY-3 RATE (b)	3/41.98	4/44.27	5/46.23	1/44.60	5/46.62
POLY-3 PERCENT (g)	7.2%	9%	10.8%	2.2%	10.7%
TERMINAL (d)	2/32 (6%)	4/34 (12%)	5/39 (13%)	1/35 (3%)	5/42 (12%)
FIRST INCIDENCE	638	733 (T)	733 (T)	733 (T)	733 (T)

STATISTICAL TESTS					
POLY 3	P=0.431	P=0.529	P=0.411	P=0.284N	P=0.415
POLY 1.5	P=0.417	P=0.518	P=0.389	P=0.292N	P=0.394
POLY 6	P=0.446	P=0.538	P=0.433	P=0.276N	P=0.438
COCH-ARM / FISHERS	P=0.391	P=0.500	P=0.357	P=0.309N	P=0.357
MAX-ISO-POLY-3	P=0.488	P=0.377	P=0.285	P=0.145N	P=0.290

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Prostate: Lateral, Dorsal Inflammation Chronic					
LESION RATES					
OVERALL (a)	2/50 (4%)	2/50 (4%)	3/50 (6%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	2/41.64	2/44.48	3/46.28	2/44.92	2/46.62
POLY-3 PERCENT (g)	4.8%	4.5%	6.5%	4.5%	4.3%
TERMINAL (d)	2/32 (6%)	1/34 (3%)	2/39 (5%)	1/35 (3%)	2/42 (5%)
FIRST INCIDENCE	733 (T)	676	722	644	733 (T)
STATISTICAL TESTS					
POLY 3	P=0.521N	P=0.670N	P=0.548	P=0.667N	P=0.652N
POLY 1.5	P=0.532N	P=0.680N	P=0.529	P=0.677N	P=0.668N
POLY 6	P=0.508N	P=0.660N	P=0.569	P=0.655N	P=0.635N
COCH-ARM / FISHERS	P=0.554N	P=0.691N	P=0.500	P=0.691N	P=0.691N
MAX-ISO-POLY-3	P=0.697N	P=0.473N	P=0.374	P=0.470N	P=0.456N

Experiment Number: 10188 - 01
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Di(2-ethylhexyl) Phthalate
 CAS Number: 117-81-7

Date Report Requested: 12/19/2019
 Time Report Requested: 17:51:32
 First Dose M/F: 02/17/11 / 02/18/11
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Prostate: Ventral Inflammation Chronic					
LESION RATES					
OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/42.06	2/44.27	0/46.23	0/44.60	0/46.62
POLY-3 PERCENT (g)	2.4%	4.5%	0%	0%	0%
TERMINAL (d)	0/32 (0%)	2/34 (6%)	0/39 (0%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	612	733 (T)	---	---	---
STATISTICAL TESTS					
POLY 3	P=0.240N	P=0.518	P=0.481N	P=0.488N	P=0.479N
POLY 1.5	P=0.240N	P=0.511	P=0.489N	P=0.493N	P=0.487N
POLY 6	P=0.241N	P=0.523	P=0.474N	P=0.484N	P=0.472N
COCH-ARM / FISHERS	P=0.242N	P=0.500	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.157N	P=0.300	P=0.158N	P=0.158N	P=0.158N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Seminal Vesicle Inflammation Chronic					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/41.64	0/44.27	0/46.23	2/44.62	0/46.62
POLY-3 PERCENT (g)	0%	0%	0%	4.5%	0%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	0/39 (0%)	1/35 (3%)	0/42 (0%)
FIRST INCIDENCE	---	---	---	728	---
STATISTICAL TESTS					
POLY 3	P=0.748N	(e)	(e)	P=0.253	(e)
POLY 1.5	P=0.750	(e)	(e)	P=0.247	(e)
POLY 6	P=0.741N	(e)	(e)	P=0.259	(e)
COCH-ARM / FISHERS	P=0.731	(e)	(e)	P=0.247	(e)
MAX-ISO-POLY-3	P=0.268	(e)	(e)	P=0.091	(e)

Experiment Number: 10188 - 01
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Di(2-ethylhexyl) Phthalate
 CAS Number: 117-81-7

Date Report Requested: 12/19/2019
 Time Report Requested: 17:51:32
 First Dose M/F: 02/17/11 / 02/18/11
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Skin					
Cyst Epithelial Inclusion					
LESION RATES					
OVERALL (a)	5/49 (10%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	5/41.71	0/44.27	1/46.23	0/44.60	2/46.62
POLY-3 PERCENT (g)	12%	0%	2.2%	0%	4.3%
TERMINAL (d)	4/32 (13%)	0/34 (0%)	1/39 (3%)	0/35 (0%)	2/42 (5%)
FIRST INCIDENCE	653	---	733 (T)	---	733 (T)
STATISTICAL TESTS					
POLY 3	P=0.563N	P=0.025N*	P=0.079N	P=0.025N*	P=0.173N
POLY 1.5	P=0.560N	P=0.027N*	P=0.086N	P=0.026N*	P=0.186N
POLY 6	P=0.564N	P=0.024N*	P=0.072N	P=0.024N*	P=0.160N
COCH-ARM / FISHERS	P=0.559N	P=0.027N*	P=0.098N	P=0.027N*	P=0.210N
MAX-ISO-POLY-3	P=0.011N*	P=0.009N**	P=0.039N*	P=0.009N**	P=0.101N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Skin					
Inflammation Chronic					
LESION RATES					
OVERALL (a)	1/49 (2%)	2/50 (4%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/41.41	2/44.83	1/46.23	0/44.60	1/46.62
POLY-3 PERCENT (g)	2.4%	4.5%	2.2%	0%	2.1%
TERMINAL (d)	1/32 (3%)	1/34 (3%)	1/39 (3%)	0/35 (0%)	1/42 (2%)
FIRST INCIDENCE	733 (T)	556	733 (T)	---	733 (T)
STATISTICAL TESTS					
POLY 3	P=0.523N	P=0.528	P=0.736N	P=0.485N	P=0.734N
POLY 1.5	P=0.528N	P=0.519	P=0.744N	P=0.489N	P=0.742N
POLY 6	P=0.519N	P=0.536	P=0.726N	P=0.481N	P=0.724N
COCH-ARM / FISHERS	P=0.536N	P=0.508	P=0.747N	P=0.495N	P=0.747N
MAX-ISO-POLY-3	P=0.422N	P=0.309	P=0.470N	P=0.156N	P=0.467N

Experiment Number: 10188 - 01
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Di(2-ethylhexyl) Phthalate
 CAS Number: 117-81-7

Date Report Requested: 12/19/2019
 Time Report Requested: 17:51:32
 First Dose M/F: 02/17/11 / 02/18/11
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Spleen					
Extramedullary Hematopoiesis					
LESION RATES					
OVERALL (a)	45/50 (90%)	45/50 (90%)	44/50 (88%)	45/50 (90%)	44/50 (88%)
POLY-3 RATE (b)	45/47.12	45/47.46	44/47.86	45/47.74	44/48.49
POLY-3 PERCENT (g)	95.5%	94.8%	91.9%	94.3%	90.7%
TERMINAL (d)	32/32 (100%)	33/34 (97%)	37/39 (95%)	34/35 (97%)	39/42 (93%)
FIRST INCIDENCE	271	556	624	504	455
STATISTICAL TESTS					
POLY 3	P=0.249N	P=0.648N	P=0.373N	P=0.588N	P=0.283N
POLY 1.5	P=0.301N	P=0.681N	P=0.451N	P=0.635N	P=0.364N
POLY 6	P=0.224N	P=0.595N	P=0.274N	P=0.500N	P=0.217N
COCH-ARM / FISHERS	P=0.461N	P=0.630N	P=0.500N	P=0.630N	P=0.500N
MAX-ISO-POLY-3	P=0.276N	P=0.428N	P=0.215N	P=0.377N	P=0.155N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Spleen Hemorrhage					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/41.64	0/44.27	0/46.23	2/45.29	0/46.62
POLY-3 PERCENT (g)	0%	0%	0%	4.4%	0%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	0/39 (0%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	---	---	---	504	---
STATISTICAL TESTS					
POLY 3	P=0.748N	(e)	(e)	P=0.256	(e)
POLY 1.5	P=0.750	(e)	(e)	P=0.249	(e)
POLY 6	P=0.741N	(e)	(e)	P=0.264	(e)
COCH-ARM / FISHERS	P=0.731	(e)	(e)	P=0.247	(e)
MAX-ISO-POLY-3	P=0.271	(e)	(e)	P=0.094	(e)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Spleen Pigment					
LESION RATES					
OVERALL (a)	45/50 (90%)	44/50 (88%)	47/50 (94%)	42/50 (84%)	43/50 (86%)
POLY-3 RATE (b)	45/47.97	44/48.77	47/49.96	42/47.74	43/47.52
POLY-3 PERCENT (g)	93.8%	90.2%	94.1%	88%	90.5%
TERMINAL (d)	31/32 (97%)	34/34 (100%)	37/39 (95%)	34/35 (97%)	40/42 (95%)
FIRST INCIDENCE	398	257	308	323	614
STATISTICAL TESTS					
POLY 3	P=0.389N	P=0.381N	P=0.650	P=0.240N	P=0.403N
POLY 1.5	P=0.326N	P=0.406N	P=0.548	P=0.232N	P=0.375N
POLY 6	P=0.466N	P=0.383N	P=0.602N	P=0.284N	P=0.446N
COCH-ARM / FISHERS	P=0.256N	P=0.500N	P=0.357	P=0.277N	P=0.380N
MAX-ISO-POLY-3	P=0.348N	P=0.240N	P=0.476	P=0.135N	P=0.252N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Spleen: White Pulp Atrophy					
LESION RATES					
OVERALL (a)	1/50 (2%)	7/50 (14%)	4/50 (8%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	1/42.00	7/47.18	4/48.57	3/46.62	1/47.02
POLY-3 PERCENT (g)	2.4%	14.8%	8.2%	6.4%	2.1%
TERMINAL (d)	0/32 (0%)	1/34 (3%)	0/39 (0%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	632	257	308	323	621
STATISTICAL TESTS					
POLY 3	P=0.094N	P=0.044*	P=0.227	P=0.344	P=0.735N
POLY 1.5	P=0.101N	P=0.039*	P=0.209	P=0.331	P=0.744N
POLY 6	P=0.086N	P=0.049*	P=0.245	P=0.355	P=0.724N
COCH-ARM / FISHERS	P=0.117N	P=0.030*	P=0.181	P=0.309	P=0.753N
MAX-ISO-POLY-3	P=0.165N	P=0.024*	P=0.128	P=0.192	P=0.469N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Stomach, Forestomach Inflammation Acute					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.64	0/44.27	0/46.23	0/44.60	0/46.62
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	0/39 (0%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Stomach, Forestomach Inflammation Chronic					
LESION RATES					
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/42.38	1/44.27	0/46.23	1/44.70	2/46.62
POLY-3 PERCENT (g)	2.4%	2.3%	0%	2.2%	4.3%
TERMINAL (d)	0/32 (0%)	1/34 (3%)	0/39 (0%)	0/35 (0%)	2/42 (5%)
FIRST INCIDENCE	465	733 (T)	---	707	733 (T)
STATISTICAL TESTS					
POLY 3	P=0.266	P=0.751N	P=0.483N	P=0.749N	P=0.533
POLY 1.5	P=0.262	P=0.755N	P=0.490N	P=0.753N	P=0.521
POLY 6	P=0.271	P=0.748N	P=0.475N	P=0.744N	P=0.547
COCH-ARM / FISHERS	P=0.252	P=0.753N	P=0.500N	P=0.753N	P=0.500
MAX-ISO-POLY-3	P=0.354	P=0.488N	P=0.158N	P=0.485N	P=0.316

Experiment Number: 10188 - 01
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Di(2-ethylhexyl) Phthalate
 CAS Number: 117-81-7

Date Report Requested: 12/19/2019
 Time Report Requested: 17:51:32
 First Dose M/F: 02/17/11 / 02/18/11
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Stomach, Forestomach Ulcer					
LESION RATES					
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.64	1/44.27	0/46.23	0/44.60	0/46.62
POLY-3 PERCENT (g)	0%	2.3%	0%	0%	0%
TERMINAL (d)	0/32 (0%)	1/34 (3%)	0/39 (0%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	---	733 (T)	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Stomach, Forestomach: Epithelium Hyperplasia					
LESION RATES					
OVERALL (a)	3/50 (6%)	3/50 (6%)	1/50 (2%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	3/43.09	3/44.51	1/46.37	1/44.70	3/47.02
POLY-3 PERCENT (g)	7%	6.7%	2.2%	2.2%	6.4%
TERMINAL (d)	0/32 (0%)	1/34 (3%)	0/39 (0%)	0/35 (0%)	2/42 (5%)
FIRST INCIDENCE	465	671	698	707	621
STATISTICAL TESTS					
POLY 3	P=0.522	P=0.648N	P=0.279N	P=0.292N	P=0.621N
POLY 1.5	P=0.516	P=0.654N	P=0.290N	P=0.297N	P=0.636N
POLY 6	P=0.529	P=0.643N	P=0.269N	P=0.287N	P=0.605N
COCH-ARM / FISHERS	P=0.502	P=0.661N	P=0.309N	P=0.309N	P=0.661N
MAX-ISO-POLY-3	P=0.425N	P=0.484N	P=0.144N	P=0.148N	P=0.458N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Stomach, Glandular Mineral					
LESION RATES					
OVERALL (a)	3/50 (6%)	1/50 (2%)	1/50 (2%)	3/50 (6%)	0/50 (0%)
POLY-3 RATE (b)	3/43.15	1/44.68	1/46.47	3/45.01	0/46.62
POLY-3 PERCENT (g)	7%	2.2%	2.2%	6.7%	0%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	0/39 (0%)	1/35 (3%)	0/42 (0%)
FIRST INCIDENCE	446	615	669	677	---
STATISTICAL TESTS					
POLY 3	P=0.179N	P=0.293N	P=0.279N	P=0.643N	P=0.105N
POLY 1.5	P=0.182N	P=0.298N	P=0.290N	P=0.650N	P=0.110N
POLY 6	P=0.176N	P=0.289N	P=0.269N	P=0.636N	P=0.101N
COCH-ARM / FISHERS	P=0.190N	P=0.309N	P=0.309N	P=0.661N	P=0.121N
MAX-ISO-POLY-3	P=0.076N	P=0.148N	P=0.144N	P=0.478N	P=0.038N*

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Testis					
Edema					
LESION RATES					
OVERALL (a)	27/50 (54%)	23/50 (46%)	29/50 (58%)	24/50 (48%)	45/50 (90%)
POLY-3 RATE (b)	27/42.81	23/44.72	29/46.51	24/46.17	45/48.98
POLY-3 PERCENT (g)	63.1%	51.4%	62.4%	52%	91.9%
TERMINAL (d)	24/32 (75%)	20/34 (59%)	28/39 (72%)	19/35 (54%)	39/42 (93%)
FIRST INCIDENCE	465	635	658	589	425
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.180N	P=0.561N	P=0.193N	P<0.001**
POLY 1.5	P<0.001**	P=0.217N	P=0.534	P=0.251N	P<0.001**
POLY 6	P<0.001**	P=0.147N	P=0.472N	P=0.134N	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.274N	P=0.420	P=0.345N	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.131N	P=0.471N	P=0.146N	P<0.001**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

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First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Testis					
Polyarteritis Nodosa					
LESION RATES					
OVERALL (a)	25/50 (50%)	21/50 (42%)	15/50 (30%)	4/50 (8%)	5/50 (10%)
POLY-3 RATE (b)	25/43.47	21/45.77	15/46.82	4/44.60	5/46.62
POLY-3 PERCENT (g)	57.5%	45.9%	32%	9%	10.7%
TERMINAL (d)	18/32 (56%)	17/34 (50%)	12/39 (31%)	4/35 (11%)	5/42 (12%)
FIRST INCIDENCE	625	579	662	733 (T)	733 (T)
STATISTICAL TESTS					
POLY 3	P<0.001N**	P=0.184N	P=0.011N*	P<0.001N**	P<0.001N**
POLY 1.5	P<0.001N**	P=0.215N	P=0.016N*	P<0.001N**	P<0.001N**
POLY 6	P<0.001N**	P=0.164N	P=0.008N**	P<0.001N**	P<0.001N**
COCH-ARM / FISHERS	P<0.001N**	P=0.274N	P=0.033N*	P<0.001N**	P<0.001N**
MAX-ISO-POLY-3	P<0.001N**	P=0.136N	P=0.008N**	P<0.001N**	P<0.001N**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

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First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Testis: Bilateral					
Edema					
LESION RATES					
OVERALL (a)	22/50 (44%)	15/50 (30%)	22/50 (44%)	14/50 (28%)	39/50 (78%)
POLY-3 RATE (b)	22/41.90	15/44.27	22/46.23	14/45.50	39/48.98
POLY-3 PERCENT (g)	52.5%	33.9%	47.6%	30.8%	79.6%
TERMINAL (d)	21/32 (66%)	15/34 (44%)	22/39 (56%)	11/35 (31%)	33/42 (79%)
FIRST INCIDENCE	663	733 (T)	733 (T)	614	425
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.058N	P=0.401N	P=0.029N*	P=0.004**
POLY 1.5	P<0.001**	P=0.074N	P=0.474N	P=0.042N*	P<0.001**
POLY 6	P<0.001**	P=0.045N*	P=0.324N	P=0.018N*	P=0.012*
COCH-ARM / FISHERS	P<0.001**	P=0.107N	P=0.580N	P=0.072N	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.040N*	P=0.327N	P=0.020N*	P=0.003**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Testis: Bilateral					
Polyarteritis Nodosa					
LESION RATES					
OVERALL (a)	24/50 (48%)	20/50 (40%)	14/50 (28%)	4/50 (8%)	5/50 (10%)
POLY-3 RATE (b)	24/43.47	20/45.77	14/46.82	4/44.60	5/46.62
POLY-3 PERCENT (g)	55.2%	43.7%	29.9%	9%	10.7%
TERMINAL (d)	17/32 (53%)	16/34 (47%)	11/39 (28%)	4/35 (11%)	5/42 (12%)
FIRST INCIDENCE	625	579	662	733 (T)	733 (T)
STATISTICAL TESTS					
POLY 3	P<0.001N**	P=0.187N	P=0.011N*	P<0.001N**	P<0.001N**
POLY 1.5	P<0.001N**	P=0.217N	P=0.016N*	P<0.001N**	P<0.001N**
POLY 6	P<0.001N**	P=0.169N	P=0.008N**	P<0.001N**	P<0.001N**
COCH-ARM / FISHERS	P<0.001N**	P=0.273N	P=0.032N*	P<0.001N**	P<0.001N**
MAX-ISO-POLY-3	P<0.001N**	P=0.140N	P=0.008N**	P<0.001N**	P<0.001N**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Testis: Bilateral, Germinal Epithelium Degeneration					
LESION RATES					
OVERALL (a)	29/50 (58%)	18/50 (36%)	19/50 (38%)	19/50 (38%)	48/50 (96%)
POLY-3 RATE (b)	29/45.86	18/46.06	19/47.01	19/46.19	48/50.00
POLY-3 PERCENT (g)	63.2%	39.1%	40.4%	41.1%	96%
TERMINAL (d)	17/32 (53%)	12/34 (35%)	16/39 (41%)	15/35 (43%)	40/42 (95%)
FIRST INCIDENCE	446	556	658	589	425
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.015N*	P=0.020N*	P=0.024N*	P<0.001**
POLY 1.5	P<0.001**	P=0.016N*	P=0.024N*	P=0.027N*	P<0.001**
POLY 6	P<0.001**	P=0.015N*	P=0.018N*	P=0.025N*	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.022N*	P=0.036N*	P=0.036N*	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.008N**	P=0.013N*	P=0.015N*	P<0.001**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Testis: Germinal Epithelium Degeneration					
LESION RATES					
OVERALL (a)	31/50 (62%)	25/50 (50%)	21/50 (42%)	22/50 (44%)	50/50 (100%)
POLY-3 RATE (b)	31/45.86	25/47.41	21/47.01	22/46.80	50/50.00
POLY-3 PERCENT (g)	67.6%	52.7%	44.7%	47%	100%
TERMINAL (d)	19/32 (59%)	16/34 (47%)	18/39 (46%)	16/35 (46%)	42/42 (100%)
FIRST INCIDENCE	446	257	658	589	425
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.101N	P=0.019N*	P=0.033N*	P<0.001**
POLY 1.5	P<0.001**	P=0.115N	P=0.023N*	P=0.038N*	P<0.001**
POLY 6	P<0.001**	P=0.096N	P=0.017N*	P=0.030N*	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.157N	P=0.036N*	P=0.054N	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.071N	P=0.012N*	P=0.021N*	P<0.001**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

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First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Testis: Interstitial Cell Hyperplasia					
LESION RATES					
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	4/50 (8%)	4/50 (8%)
POLY-3 RATE (b)	1/41.64	1/44.56	0/46.23	4/45.27	4/47.07
POLY-3 PERCENT (g)	2.4%	2.2%	0%	8.8%	8.5%
TERMINAL (d)	1/32 (3%)	0/34 (0%)	0/39 (0%)	2/35 (6%)	2/42 (5%)
FIRST INCIDENCE	733 (T)	654	---	635	663
STATISTICAL TESTS					
POLY 3	P=0.048*	P=0.746N	P=0.479N	P=0.205	P=0.218
POLY 1.5	P=0.045*	P=0.752N	P=0.487N	P=0.194	P=0.203
POLY 6	P=0.053	P=0.739N	P=0.470N	P=0.217	P=0.237
COCH-ARM / FISHERS	P=0.040*	P=0.753N	P=0.500N	P=0.181	P=0.181
MAX-ISO-POLY-3	P=0.084	P=0.481N	P=0.158N	P=0.108	P=0.121

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Thymus Atrophy					
LESION RATES					
OVERALL (a)	41/48 (85%)	43/47 (91%)	49/49 (100%)	48/50 (96%)	44/46 (96%)
POLY-3 RATE (b)	41/47.44	43/47.00	49/49.00	48/49.33	44/46.00
POLY-3 PERCENT (g)	86.4%	91.5%	100%	97.3%	95.7%
TERMINAL (d)	25/31 (81%)	29/33 (88%)	38/38 (100%)	34/35 (97%)	38/40 (95%)
FIRST INCIDENCE	271	257	308	323	425
STATISTICAL TESTS					
POLY 3	P=0.220	P=0.324	P=0.009**	P=0.048*	P=0.113
POLY 1.5	P=0.211	P=0.303	P=0.008**	P=0.054	P=0.102
POLY 6	P=0.234	P=0.349	P=0.011*	P=0.047*	P=0.127
COCH-ARM / FISHERS	P=0.204	P=0.274	P=0.006**	P=0.070	P=0.090
MAX-ISO-POLY-3	P=0.015*	P=0.215	P=0.003**	P=0.021*	P=0.058

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Thyroid Gland: C-Cell Hyperplasia					
LESION RATES					
OVERALL (a)	10/50 (20%)	8/50 (16%)	4/50 (8%)	6/50 (12%)	11/50 (22%)
POLY-3 RATE (b)	10/41.64	8/44.27	4/46.23	6/44.60	11/46.92
POLY-3 PERCENT (g)	24%	18.1%	8.7%	13.5%	23.5%
TERMINAL (d)	10/32 (31%)	8/34 (24%)	4/39 (10%)	6/35 (17%)	10/42 (24%)
FIRST INCIDENCE	733 (T)	733 (T)	733 (T)	733 (T)	653
STATISTICAL TESTS					
POLY 3	P=0.215	P=0.340N	P=0.045N*	P=0.162N	P=0.574N
POLY 1.5	P=0.203	P=0.364N	P=0.055N	P=0.178N	P=0.577
POLY 6	P=0.230	P=0.319N	P=0.036N*	P=0.145N	P=0.521N
COCH-ARM / FISHERS	P=0.182	P=0.398N	P=0.074N	P=0.207N	P=0.500
MAX-ISO-POLY-3	P=0.271N	P=0.255N	P=0.029N*	P=0.110N	P=0.475N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Trachea					
Inflammation Chronic					
LESION RATES					
OVERALL (a)	3/50 (6%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	3/43.07	1/44.27	0/46.23	0/44.60	0/46.62
POLY-3 PERCENT (g)	7%	2.3%	0%	0%	0%
TERMINAL (d)	1/32 (3%)	1/34 (3%)	0/39 (0%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	465	733 (T)	---	---	---
STATISTICAL TESTS					
POLY 3	P=0.152N	P=0.295N	P=0.106N	P=0.112N	P=0.105N
POLY 1.5	P=0.150N	P=0.300N	P=0.111N	P=0.115N	P=0.110N
POLY 6	P=0.154N	P=0.291N	P=0.101N	P=0.110N	P=0.100N
COCH-ARM / FISHERS	P=0.150N	P=0.309N	P=0.121N	P=0.121N	P=0.121N
MAX-ISO-POLY-3	P=0.014N*	P=0.149N	P=0.038N*	P=0.038N*	P=0.038N*

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Adrenal Cortex					
Angiectasis					
LESION RATES					
OVERALL (a)	0/50 (0%)	1/50 (2%)	3/50 (6%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/43.03	1/40.94	3/42.64	1/44.19	1/41.95
POLY-3 PERCENT (g)	0%	2.4%	7%	2.3%	2.4%
TERMINAL (d)	0/33 (0%)	1/34 (3%)	1/33 (3%)	1/34 (3%)	1/32 (3%)
FIRST INCIDENCE	---	736 (T)	635	736 (T)	736 (T)
STATISTICAL TESTS					
POLY 3	P=0.618N	P=0.490	P=0.117	P=0.505	P=0.495
POLY 1.5	P=0.615N	P=0.492	P=0.116	P=0.503	P=0.497
POLY 6	P=0.623N	P=0.491	P=0.119	P=0.507	P=0.492
COCH-ARM / FISHERS	P=0.615N	P=0.500	P=0.121	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.254	P=0.158	P=0.038*	P=0.164	P=0.158

Experiment Number: 10188 - 01
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Di(2-ethylhexyl) Phthalate
 CAS Number: 117-81-7

Date Report Requested: 12/19/2019
 Time Report Requested: 17:51:32
 First Dose M/F: 02/17/11 / 02/18/11
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Adrenal Cortex Degeneration Cystic					
LESION RATES					
OVERALL (a)	12/50 (24%)	7/50 (14%)	10/50 (20%)	11/50 (22%)	10/50 (20%)
POLY-3 RATE (b)	12/44.04	7/42.43	10/42.05	11/44.95	10/42.42
POLY-3 PERCENT (g)	27.3%	16.5%	23.8%	24.5%	23.6%
TERMINAL (d)	8/33 (24%)	3/34 (9%)	9/33 (27%)	9/34 (27%)	9/32 (28%)
FIRST INCIDENCE	575	575	722	522	596
STATISTICAL TESTS					
POLY 3	P=0.513	P=0.171N	P=0.451N	P=0.477N	P=0.442N
POLY 1.5	P=0.529	P=0.171N	P=0.438N	P=0.484N	P=0.425N
POLY 6	P=0.478	P=0.160N	P=0.468N	P=0.477N	P=0.469N
COCH-ARM / FISHERS	P=0.524	P=0.154N	P=0.405N	P=0.500N	P=0.405N
MAX-ISO-POLY-3	P=0.502N	P=0.116N	P=0.358N	P=0.383N	P=0.349N

Experiment Number: 10188 - 01
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Di(2-ethylhexyl) Phthalate
 CAS Number: 117-81-7

Date Report Requested: 12/19/2019
 Time Report Requested: 17:51:32
 First Dose M/F: 02/17/11 / 02/18/11
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Adrenal Cortex Hyperplasia					
LESION RATES					
OVERALL (a)	0/50 (0%)	3/50 (6%)	1/50 (2%)	4/50 (8%)	0/50 (0%)
POLY-3 RATE (b)	0/43.03	3/40.94	1/42.30	4/44.54	0/41.95
POLY-3 PERCENT (g)	0%	7.3%	2.4%	9%	0%
TERMINAL (d)	0/33 (0%)	3/34 (9%)	0/33 (0%)	2/34 (6%)	0/32 (0%)
FIRST INCIDENCE	---	736 (T)	652	669	---
STATISTICAL TESTS					
POLY 3	P=0.305N	P=0.110	P=0.497	P=0.064	(e)
POLY 1.5	P=0.300N	P=0.111	P=0.496	P=0.063	(e)
POLY 6	P=0.314N	P=0.110	P=0.498	P=0.066	(e)
COCH-ARM / FISHERS	P=0.298N	P=0.121	P=0.500	P=0.059	(e)
MAX-ISO-POLY-3	P=0.226	P=0.038*	P=0.158	P=0.022*	(e)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Adrenal Cortex Hypertrophy					
LESION RATES					
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/43.03	2/41.53	0/42.00	1/44.19	0/41.95
POLY-3 PERCENT (g)	0%	4.8%	0%	2.3%	0%
TERMINAL (d)	0/33 (0%)	1/34 (3%)	0/33 (0%)	1/34 (3%)	0/32 (0%)
FIRST INCIDENCE	---	546	---	736 (T)	---
STATISTICAL TESTS					
POLY 3	P=0.415N	P=0.229	(e)	P=0.505	(e)
POLY 1.5	P=0.413N	P=0.230	(e)	P=0.503	(e)
POLY 6	P=0.417N	P=0.232	(e)	P=0.507	(e)
COCH-ARM / FISHERS	P=0.409N	P=0.247	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.319N	P=0.075	(e)	P=0.164	(e)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Adrenal Cortex					
Hypertrophy Focal					
<hr/>					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	0/44.19	0/41.95
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	---	---	---	---	---
<hr/>					
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

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First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Adrenal Cortex Thrombus					
LESION RATES					
OVERALL (a)	0/50 (0%)	2/50 (4%)	5/50 (10%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/43.03	2/41.30	5/43.29	2/44.53	0/41.95
POLY-3 PERCENT (g)	0%	4.8%	11.6%	4.5%	0%
TERMINAL (d)	0/33 (0%)	1/34 (3%)	2/33 (6%)	1/34 (3%)	0/32 (0%)
FIRST INCIDENCE	---	634	545	643	---
STATISTICAL TESTS					
POLY 3	P=0.165N	P=0.228	P=0.031*	P=0.245	(e)
POLY 1.5	P=0.163N	P=0.229	P=0.030*	P=0.242	(e)
POLY 6	P=0.171N	P=0.231	P=0.032*	P=0.248	(e)
COCH-ARM / FISHERS	P=0.166N	P=0.247	P=0.028*	P=0.247	(e)
MAX-ISO-POLY-3	P=0.186N	P=0.075	P=0.010**	P=0.083	(e)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Adrenal Cortex: Bilateral Hypertrophy Focal					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	0/44.19	0/41.95
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

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First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Adrenal Medulla Hyperplasia					
LESION RATES					
OVERALL (a)	4/50 (8%)	3/50 (6%)	2/50 (4%)	9/50 (18%)	1/50 (2%)
POLY-3 RATE (b)	4/43.03	3/40.94	2/42.00	9/44.83	1/42.25
POLY-3 PERCENT (g)	9.3%	7.3%	4.8%	20.1%	2.4%
TERMINAL (d)	4/33 (12%)	3/34 (9%)	2/33 (6%)	7/34 (21%)	0/32 (0%)
FIRST INCIDENCE	736 (T)	736 (T)	736 (T)	643	652
STATISTICAL TESTS					
POLY 3	P=0.232N	P=0.527N	P=0.348N	P=0.130	P=0.183N
POLY 1.5	P=0.229N	P=0.523N	P=0.347N	P=0.124	P=0.182N
POLY 6	P=0.240N	P=0.524N	P=0.347N	P=0.137	P=0.186N
COCH-ARM / FISHERS	P=0.241N	P=0.500N	P=0.339N	P=0.117	P=0.181N
MAX-ISO-POLY-3	P=0.161N	P=0.375N	P=0.209N	P=0.080	P=0.088N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
<hr/>					
Adrenal Medulla					
Hyperplasia Focal					
<hr/>					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	0/44.19	0/41.95
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	---	---	---	---	---
<hr/>					
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
<hr/>					
Blood Vessel: Aorta					
Mineral					
<hr/>					
LESION RATES					
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/49 (0%)
POLY-3 RATE (b)	1/43.59	0/40.94	0/42.00	1/44.41	0/40.95
POLY-3 PERCENT (g)	2.3%	0%	0%	2.3%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	559	---	---	677	---
<hr/>					
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Bone Marrow Congestion					
LESION RATES					
OVERALL (a)	3/50 (6%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	3/43.03	0/40.94	0/42.00	0/44.19	1/41.95
POLY-3 PERCENT (g)	7%	0%	0%	0%	2.4%
TERMINAL (d)	3/33 (9%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	1/32 (3%)
FIRST INCIDENCE	736 (T)	---	---	---	736 (T)
STATISTICAL TESTS					
POLY 3	P=0.600N	P=0.127N	P=0.123N	P=0.114N	P=0.314N
POLY 1.5	P=0.600N	P=0.126N	P=0.122N	P=0.116N	P=0.310N
POLY 6	P=0.603N	P=0.126N	P=0.122N	P=0.112N	P=0.319N
COCH-ARM / FISHERS	P=0.610N	P=0.121N	P=0.121N	P=0.121N	P=0.309N
MAX-ISO-POLY-3	P=0.027N*	P=0.046N*	P=0.042N*	P=0.038N*	P=0.162N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Bone Marrow Hypercellularity					
LESION RATES					
OVERALL (a)	43/50 (86%)	39/50 (78%)	43/50 (86%)	43/50 (86%)	47/50 (94%)
POLY-3 RATE (b)	43/49.51	39/50.00	43/49.23	43/49.59	47/49.73
POLY-3 PERCENT (g)	86.9%	78%	87.3%	86.7%	94.5%
TERMINAL (d)	28/33 (85%)	23/34 (68%)	27/33 (82%)	28/34 (82%)	30/32 (94%)
FIRST INCIDENCE	355	238	196	410	404
STATISTICAL TESTS					
POLY 3	P=0.039*	P=0.184N	P=0.591	P=0.609N	P=0.160
POLY 1.5	P=0.040*	P=0.199N	P=0.592	P=0.612N	P=0.159
POLY 6	P=0.036*	P=0.160N	P=0.611	P=0.600N	P=0.164
COCH-ARM / FISHERS	P=0.042*	P=0.218N	P=0.613N	P=0.613N	P=0.159
MAX-ISO-POLY-3	P=0.062	P=0.122N	P=0.470	P=0.491N	P=0.089

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Bone: Joint, Cartilage Degeneration					
LESION RATES					
OVERALL (a)	0/50 (0%)	1/50 (2%)	3/50 (6%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/43.03	1/41.15	3/42.63	1/44.53	0/41.95
POLY-3 PERCENT (g)	0%	2.4%	7%	2.3%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	1/33 (3%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	---	680	552	641	---
STATISTICAL TESTS					
POLY 3	P=0.294N	P=0.491	P=0.117	P=0.507	(e)
POLY 1.5	P=0.292N	P=0.492	P=0.116	P=0.504	(e)
POLY 6	P=0.299N	P=0.493	P=0.118	P=0.510	(e)
COCH-ARM / FISHERS	P=0.292N	P=0.500	P=0.121	P=0.500	(e)
MAX-ISO-POLY-3	P=0.303N	P=0.158	P=0.038*	P=0.166	(e)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Brain Hemorrhage					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/43.03	0/40.94	2/43.30	1/44.29	1/42.65
POLY-3 PERCENT (g)	0%	0%	4.6%	2.3%	2.3%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	---	---	273	712	489
STATISTICAL TESTS					
POLY 3	P=0.504	(e)	P=0.238	P=0.506	P=0.498
POLY 1.5	P=0.504	(e)	P=0.237	P=0.504	P=0.499
POLY 6	P=0.499	(e)	P=0.240	P=0.508	P=0.497
COCH-ARM / FISHERS	P=0.497	(e)	P=0.247	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.263	(e)	P=0.077	P=0.165	P=0.158

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Eye: Choroid Hyperplasia					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.03	0/40.94	2/42.59	0/43.23	0/41.95
POLY-3 PERCENT (g)	0%	0%	4.7%	0%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	1/33 (3%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	---	---	546	---	---
STATISTICAL TESTS					
POLY 3	P=0.481N	(e)	P=0.235	(e)	(e)
POLY 1.5	P=0.481N	(e)	P=0.234	(e)	(e)
POLY 6	P=0.483N	(e)	P=0.236	(e)	(e)
COCH-ARM / FISHERS	P=0.483N	(e)	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.401N	(e)	P=0.075	(e)	(e)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female

Eye: Cornea
Inflammation Chronic

LESION RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/49 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/43.36	0/40.94	0/42.00	1/43.23	0/41.95
POLY-3 PERCENT (g)	2.3%	0%	0%	2.3%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	1/34 (3%)	0/32 (0%)
FIRST INCIDENCE	643	---	---	736 (T)	---

STATISTICAL TESTS

POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Di(2-ethylhexyl) Phthalate
 CAS Number: 117-81-7

Date Report Requested: 12/19/2019
 Time Report Requested: 17:51:32
 First Dose M/F: 02/17/11 / 02/18/11
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Eye: Retina Degeneration					
LESION RATES					
OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.03	2/41.20	1/42.00	0/43.23	0/41.95
POLY-3 PERCENT (g)	0%	4.9%	2.4%	0%	0%
TERMINAL (d)	0/33 (0%)	1/34 (3%)	1/33 (3%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	---	666	736 (T)	---	---
STATISTICAL TESTS					
POLY 3	P=0.300N	P=0.227	P=0.495	(e)	(e)
POLY 1.5	P=0.298N	P=0.228	P=0.496	(e)	(e)
POLY 6	P=0.300N	P=0.230	P=0.495	(e)	(e)
COCH-ARM / FISHERS	P=0.294N	P=0.247	P=0.500	(e)	(e)
MAX-ISO-POLY-3	P=0.318N	P=0.075	P=0.158	(e)	(e)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Harderian Gland Inflammation Chronic					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	0/43.23	0/40.95
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
<hr/>					
Heart					
Cardiomyopathy					
<hr/>					
LESION RATES					
OVERALL (a)	14/50 (28%)	12/50 (24%)	16/50 (32%)	13/49 (27%)	8/49 (16%)
POLY-3 RATE (b)	14/43.89	12/42.97	16/43.33	13/44.12	8/41.28
POLY-3 PERCENT (g)	31.9%	27.9%	36.9%	29.5%	19.4%
TERMINAL (d)	10/33 (30%)	8/34 (24%)	12/33 (36%)	10/34 (29%)	7/31 (23%)
FIRST INCIDENCE	658	238	498	643	643
<hr/>					
STATISTICAL TESTS					
POLY 3	P=0.085N	P=0.432N	P=0.393	P=0.493N	P=0.139N
POLY 1.5	P=0.078N	P=0.432N	P=0.393	P=0.504N	P=0.131N
POLY 6	P=0.101N	P=0.421N	P=0.395	P=0.485N	P=0.155N
COCH-ARM / FISHERS	P=0.077N	P=0.410N	P=0.414	P=0.525N	P=0.124N
MAX-ISO-POLY-3	P=0.150N	P=0.344N	P=0.310	P=0.403N	P=0.096N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Heart					
Polyarteritis Nodosa					
<hr/>					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/49 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/43.03	0/40.94	1/42.00	0/43.23	0/40.95
POLY-3 PERCENT (g)	0%	0%	2.4%	0%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	1/33 (3%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	736 (T)	---	---
<hr/>					
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
<hr/>					
Heart: Valve					
Fibrosis					
<hr/>					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	0/43.23	0/40.95
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---	---
<hr/>					
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

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First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
<hr/>					
Heart: Valve Thrombus					
<hr/>					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	0/43.23	0/40.95
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---	---
<hr/>					
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Intestine Large, Cecum Polyarteritis Nodosa					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/49 (0%)	0/48 (0%)
POLY-3 RATE (b)	0/43.03	0/40.94	2/42.00	0/43.50	0/40.36
POLY-3 PERCENT (g)	0%	0%	4.8%	0%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	2/33 (6%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	---	---	736 (T)	---	---
STATISTICAL TESTS					
POLY 3	P=0.491N	(e)	P=0.232	(e)	(e)
POLY 1.5	P=0.491N	(e)	P=0.232	(e)	(e)
POLY 6	P=0.493N	(e)	P=0.231	(e)	(e)
COCH-ARM / FISHERS	P=0.492N	(e)	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.407	(e)	P=0.075	(e)	(e)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
<hr/>					
Intestine Large, Colon Hyperplasia Lymphocyte					
<hr/>					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/48 (2%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	0/44.19	1/40.36
POLY-3 PERCENT (g)	0%	0%	0%	0%	2.5%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	1/32 (3%)
FIRST INCIDENCE	---	---	---	---	736 (T)
<hr/>					
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Intestine Large, Colon					
Parasite Metazoan					
LESION RATES					
OVERALL (a)	2/50 (4%)	0/50 (0%)	1/50 (2%)	2/50 (4%)	0/48 (0%)
POLY-3 RATE (b)	2/43.03	0/40.94	1/42.00	2/44.53	0/40.36
POLY-3 PERCENT (g)	4.7%	0%	2.4%	4.5%	0%
TERMINAL (d)	2/33 (6%)	0/34 (0%)	1/33 (3%)	1/34 (3%)	0/32 (0%)
FIRST INCIDENCE	736 (T)	---	736 (T)	641	---
STATISTICAL TESTS					
POLY 3	P=0.327N	P=0.248N	P=0.508N	P=0.682N	P=0.251N
POLY 1.5	P=0.326N	P=0.247N	P=0.508N	P=0.686N	P=0.249N
POLY 6	P=0.332N	P=0.246N	P=0.508N	P=0.677N	P=0.254N
COCH-ARM / FISHERS	P=0.333N	P=0.247N	P=0.500N	P=0.691N	P=0.258N
MAX-ISO-POLY-3	P=0.152N	P=0.086N	P=0.290N	P=0.486N	P=0.087N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

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Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Intestine Large, Rectum					
Parasite Metazoan					
LESION RATES					
OVERALL (a)	6/50 (12%)	6/49 (12%)	7/50 (14%)	9/50 (18%)	7/50 (14%)
POLY-3 RATE (b)	6/43.03	6/40.35	7/42.36	9/44.83	7/43.29
POLY-3 PERCENT (g)	13.9%	14.9%	16.5%	20.1%	16.2%
TERMINAL (d)	6/33 (18%)	4/33 (12%)	6/33 (18%)	8/34 (24%)	4/32 (13%)
FIRST INCIDENCE	736 (T)	666	634	523	475
STATISTICAL TESTS					
POLY 3	P=0.491	P=0.576	P=0.488	P=0.316	P=0.505
POLY 1.5	P=0.488	P=0.578	P=0.487	P=0.306	P=0.503
POLY 6	P=0.487	P=0.587	P=0.493	P=0.326	P=0.507
COCH-ARM / FISHERS	P=0.464	P=0.606	P=0.500	P=0.288	P=0.500
MAX-ISO-POLY-3	P=0.519	P=0.453	P=0.371	P=0.226	P=0.386

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

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Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Intestine Large, Rectum Polyarteritis Nodosa					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/49 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.03	0/39.94	2/42.00	0/44.19	0/41.95
POLY-3 PERCENT (g)	0%	0%	4.8%	0%	0%
TERMINAL (d)	0/33 (0%)	0/33 (0%)	2/33 (6%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	---	---	736 (T)	---	---
STATISTICAL TESTS					
POLY 3	P=0.481N	(e)	P=0.232	(e)	(e)
POLY 1.5	P=0.480N	(e)	P=0.232	(e)	(e)
POLY 6	P=0.484N	(e)	P=0.231	(e)	(e)
COCH-ARM / FISHERS	P=0.482N	(e)	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.396N	(e)	P=0.075	(e)	(e)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Islets, Pancreatic Hyperplasia					
LESION RATES					
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/48 (0%)
POLY-3 RATE (b)	1/43.03	1/40.94	0/42.00	0/44.19	0/40.28
POLY-3 PERCENT (g)	2.3%	2.4%	0%	0%	0%
TERMINAL (d)	1/33 (3%)	1/34 (3%)	0/33 (0%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	736 (T)	736 (T)	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Kidney Atrophy					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	2/44.76	0/41.95
POLY-3 PERCENT (g)	0%	0%	0%	4.5%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	---	---	---	639	---
STATISTICAL TESTS					
POLY 3	P=0.730	(e)	(e)	P=0.246	(e)
POLY 1.5	P=0.734	(e)	(e)	P=0.243	(e)
POLY 6	P=0.721	(e)	(e)	P=0.250	(e)
COCH-ARM / FISHERS	P=0.731	(e)	(e)	P=0.247	(e)
MAX-ISO-POLY-3	P=0.242	(e)	(e)	P=0.084	(e)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

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First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Kidney Infarct					
LESION RATES					
OVERALL (a)	3/50 (6%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	3/43.64	0/40.94	0/42.00	0/44.19	2/42.75
POLY-3 PERCENT (g)	6.9%	0%	0%	0%	4.7%
TERMINAL (d)	1/33 (3%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	646	---	---	---	596
STATISTICAL TESTS					
POLY 3	P=0.410	P=0.130N	P=0.125N	P=0.116N	P=0.509N
POLY 1.5	P=0.407	P=0.128N	P=0.124N	P=0.117N	P=0.505N
POLY 6	P=0.410	P=0.131N	P=0.127N	P=0.116N	P=0.515N
COCH-ARM / FISHERS	P=0.395	P=0.121N	P=0.121N	P=0.121N	P=0.500N
MAX-ISO-POLY-3	P=0.069N	P=0.048N*	P=0.044N*	P=0.038N*	P=0.333N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

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First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Kidney					
Inflammation Chronic					
<hr/>					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	1/44.54	0/41.95
POLY-3 PERCENT (g)	0%	0%	0%	2.3%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	---	---	---	639	---
<hr/>					
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Kidney					
Nephropathy Chronic Progressive					
LESION RATES					
OVERALL (a)	40/50 (80%)	34/50 (68%)	43/50 (86%)	36/50 (72%)	36/50 (72%)
POLY-3 RATE (b)	40/46.53	34/45.10	43/47.69	36/46.60	36/47.62
POLY-3 PERCENT (g)	86%	75.4%	90.2%	77.3%	75.6%
TERMINAL (d)	31/33 (94%)	26/34 (77%)	31/33 (94%)	29/34 (85%)	25/32 (78%)
FIRST INCIDENCE	468	238	196	410	404
STATISTICAL TESTS					
POLY 3	P=0.127N	P=0.137N	P=0.365	P=0.188N	P=0.139N
POLY 1.5	P=0.163N	P=0.143N	P=0.335	P=0.204N	P=0.174N
POLY 6	P=0.106N	P=0.111N	P=0.417	P=0.172N	P=0.106N
COCH-ARM / FISHERS	P=0.265N	P=0.127N	P=0.298	P=0.241N	P=0.241N
MAX-ISO-POLY-3	P=0.152N	P=0.087N	P=0.244	P=0.119N	P=0.088N

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Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Kidney: Pelvis Dilation					
LESION RATES					
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	2/50 (4%)	3/50 (6%)
POLY-3 RATE (b)	0/43.03	1/40.94	0/42.00	2/44.76	3/42.45
POLY-3 PERCENT (g)	0%	2.4%	0%	4.5%	7.1%
TERMINAL (d)	0/33 (0%)	1/34 (3%)	0/33 (0%)	0/34 (0%)	1/32 (3%)
FIRST INCIDENCE	---	736 (T)	---	639	613
STATISTICAL TESTS					
POLY 3	P=0.041*	P=0.490	(e)	P=0.246	P=0.116
POLY 1.5	P=0.041*	P=0.492	(e)	P=0.243	P=0.117
POLY 6	P=0.040*	P=0.491	(e)	P=0.250	P=0.114
COCH-ARM / FISHERS	P=0.041*	P=0.500	(e)	P=0.247	P=0.121
MAX-ISO-POLY-3	P=0.042*	P=0.158	(e)	P=0.084	P=0.038*

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Liver					
Basophilic Focus					
LESION RATES					
OVERALL (a)	6/50 (12%)	7/50 (14%)	0/50 (0%)	1/50 (2%)	4/49 (8%)
POLY-3 RATE (b)	6/43.03	7/40.94	0/42.00	1/44.19	4/41.42
POLY-3 PERCENT (g)	13.9%	17.1%	0%	2.3%	9.7%
TERMINAL (d)	6/33 (18%)	7/34 (21%)	0/33 (0%)	1/34 (3%)	3/31 (10%)
FIRST INCIDENCE	736 (T)	736 (T)	---	736 (T)	596
STATISTICAL TESTS					
POLY 3	P=0.434N	P=0.461	P=0.016N*	P=0.051N	P=0.393N
POLY 1.5	P=0.432N	P=0.467	P=0.016N*	P=0.053N	P=0.388N
POLY 6	P=0.438N	P=0.466	P=0.016N*	P=0.049N*	P=0.399N
COCH-ARM / FISHERS	P=0.438N	P=0.500	P=0.013N*	P=0.056N	P=0.383N
MAX-ISO-POLY-3	P=0.048N*	P=0.348	P=0.006N**	P=0.022N*	P=0.275N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

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Di(2-ethylhexyl) Phthalate

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Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Liver					
Clear Cell Focus					
LESION RATES					
OVERALL (a)	8/50 (16%)	10/50 (20%)	14/50 (28%)	7/50 (14%)	5/49 (10%)
POLY-3 RATE (b)	8/43.03	10/40.94	14/42.00	7/44.19	5/40.95
POLY-3 PERCENT (g)	18.6%	24.4%	33.3%	15.8%	12.2%
TERMINAL (d)	8/33 (24%)	10/34 (29%)	14/33 (42%)	7/34 (21%)	5/31 (16%)
FIRST INCIDENCE	736 (T)	736 (T)	736 (T)	736 (T)	736 (T)
STATISTICAL TESTS					
POLY 3	P=0.065N	P=0.350	P=0.093	P=0.477N	P=0.306N
POLY 1.5	P=0.063N	P=0.358	P=0.097	P=0.485N	P=0.299N
POLY 6	P=0.070N	P=0.355	P=0.089	P=0.470N	P=0.317N
COCH-ARM / FISHERS	P=0.069N	P=0.398	P=0.114	P=0.500N	P=0.290N
MAX-ISO-POLY-3	P=0.113N	P=0.262	P=0.060	P=0.368N	P=0.213N

Experiment Number: 10188 - 01
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Di(2-ethylhexyl) Phthalate
 CAS Number: 117-81-7

Date Report Requested: 12/19/2019
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 First Dose M/F: 02/17/11 / 02/18/11
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Liver Degeneration Cystic					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/49 (2%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	0/44.19	1/40.95
POLY-3 PERCENT (g)	0%	0%	0%	0%	2.4%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	1/31 (3%)
FIRST INCIDENCE	---	---	---	---	736 (T)
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

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Test Type: CHRONIC

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Liver					
Eosinophilic Focus					
LESION RATES					
OVERALL (a)	7/50 (14%)	6/50 (12%)	6/50 (12%)	3/50 (6%)	7/49 (14%)
POLY-3 RATE (b)	7/43.42	6/41.44	6/42.05	3/44.34	7/40.95
POLY-3 PERCENT (g)	16.1%	14.5%	14.3%	6.8%	17.1%
TERMINAL (d)	5/33 (15%)	5/34 (15%)	5/33 (15%)	2/34 (6%)	7/31 (23%)
FIRST INCIDENCE	643	587	722	697	736 (T)
STATISTICAL TESTS					
POLY 3	P=0.466	P=0.536N	P=0.525N	P=0.147N	P=0.568
POLY 1.5	P=0.476	P=0.531N	P=0.520N	P=0.151N	P=0.582
POLY 6	P=0.447	P=0.531N	P=0.530N	P=0.145N	P=0.548
COCH-ARM / FISHERS	P=0.475	P=0.500N	P=0.500N	P=0.159N	P=0.597
MAX-ISO-POLY-3	P=0.493N	P=0.419N	P=0.407N	P=0.085N	P=0.453

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

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Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Liver					
Extramedullary Hematopoiesis					
LESION RATES					
OVERALL (a)	9/50 (18%)	4/50 (8%)	1/50 (2%)	5/50 (10%)	5/49 (10%)
POLY-3 RATE (b)	9/45.32	4/43.28	1/42.35	5/46.00	5/43.41
POLY-3 PERCENT (g)	19.9%	9.2%	2.4%	10.9%	11.5%
TERMINAL (d)	4/33 (12%)	0/34 (0%)	0/33 (0%)	1/34 (3%)	0/31 (0%)
FIRST INCIDENCE	468	370	635	522	404
STATISTICAL TESTS					
POLY 3	P=0.541N	P=0.132N	P=0.011N*	P=0.183N	P=0.216N
POLY 1.5	P=0.543N	P=0.130N	P=0.010N**	P=0.187N	P=0.210N
POLY 6	P=0.546N	P=0.132N	P=0.012N*	P=0.182N	P=0.225N
COCH-ARM / FISHERS	P=0.563N	P=0.117N	P=0.008N**	P=0.194N	P=0.205N
MAX-ISO-POLY-3	P=0.072N	P=0.082N	P=0.005N**	P=0.117N	P=0.143N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Liver					
Hepatodiaphragmatic Nodule					
LESION RATES					
OVERALL (a)	1/50 (2%)	1/50 (2%)	2/50 (4%)	1/50 (2%)	0/49 (0%)
POLY-3 RATE (b)	1/43.73	1/40.94	2/42.00	1/44.19	0/40.95
POLY-3 PERCENT (g)	2.3%	2.4%	4.8%	2.3%	0%
TERMINAL (d)	0/33 (0%)	1/34 (3%)	2/33 (6%)	1/34 (3%)	0/31 (0%)
FIRST INCIDENCE	489	736 (T)	736 (T)	736 (T)	---
STATISTICAL TESTS					
POLY 3	P=0.261N	P=0.746	P=0.486	P=0.758N	P=0.513N
POLY 1.5	P=0.258N	P=0.749	P=0.489	P=0.759N	P=0.509N
POLY 6	P=0.267N	P=0.746	P=0.484	P=0.758N	P=0.518N
COCH-ARM / FISHERS	P=0.257N	P=0.753N	P=0.500	P=0.753N	P=0.505N
MAX-ISO-POLY-3	P=0.313N	P=0.481	P=0.272	P=0.497N	P=0.173N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Liver					
Inflammation Chronic					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	2/50 (4%)	1/49 (2%)
POLY-3 RATE (b)	0/43.03	0/40.94	1/42.94	2/44.19	1/41.24
POLY-3 PERCENT (g)	0%	0%	2.3%	4.5%	2.4%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	2/34 (6%)	0/31 (0%)
FIRST INCIDENCE	---	---	273	736 (T)	656
STATISTICAL TESTS					
POLY 3	P=0.382	(e)	P=0.500	P=0.243	P=0.492
POLY 1.5	P=0.386	(e)	P=0.499	P=0.241	P=0.493
POLY 6	P=0.375	(e)	P=0.500	P=0.245	P=0.489
COCH-ARM / FISHERS	P=0.384	(e)	P=0.500	P=0.247	P=0.495
MAX-ISO-POLY-3	P=0.216	(e)	P=0.158	P=0.081	P=0.156

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Liver					
Inflammation Focal					
LESION RATES					
OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	1/43.03	2/40.94	0/42.00	0/44.19	0/40.95
POLY-3 PERCENT (g)	2.3%	4.9%	0%	0%	0%
TERMINAL (d)	1/33 (3%)	2/34 (6%)	0/33 (0%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	736 (T)	736 (T)	---	---	---
STATISTICAL TESTS					
POLY 3	P=0.248N	P=0.483	P=0.505N	P=0.495N	P=0.510N
POLY 1.5	P=0.247N	P=0.485	P=0.504N	P=0.497N	P=0.507N
POLY 6	P=0.248N	P=0.485	P=0.505N	P=0.493N	P=0.513N
COCH-ARM / FISHERS	P=0.245N	P=0.500	P=0.500N	P=0.500N	P=0.505N
MAX-ISO-POLY-3	P=0.153N	P=0.270	P=0.164N	P=0.158N	P=0.169N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Liver					
Mixed Cell Focus					
LESION RATES					
OVERALL (a)	3/50 (6%)	2/50 (4%)	1/50 (2%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	3/43.03	2/40.94	1/42.00	0/44.19	0/40.95
POLY-3 PERCENT (g)	7%	4.9%	2.4%	0%	0%
TERMINAL (d)	3/33 (9%)	2/34 (6%)	1/33 (3%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	736 (T)	736 (T)	736 (T)	---	---
STATISTICAL TESTS					
POLY 3	P=0.090N	P=0.523N	P=0.314N	P=0.114N	P=0.127N
POLY 1.5	P=0.090N	P=0.519N	P=0.313N	P=0.116N	P=0.125N
POLY 6	P=0.091N	P=0.520N	P=0.313N	P=0.112N	P=0.130N
COCH-ARM / FISHERS	P=0.092N	P=0.500N	P=0.309N	P=0.121N	P=0.125N
MAX-ISO-POLY-3	P=0.051N	P=0.347N	P=0.162N	P=0.038N*	P=0.045N*

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
<hr/>					
Liver					
Necrosis					
<hr/>					
LESION RATES					
OVERALL (a)	2/50 (4%)	5/50 (10%)	4/50 (8%)	2/50 (4%)	4/49 (8%)
POLY-3 RATE (b)	2/43.28	5/42.37	4/43.99	2/44.83	4/42.18
POLY-3 PERCENT (g)	4.6%	11.8%	9.1%	4.5%	9.5%
TERMINAL (d)	1/33 (3%)	1/34 (3%)	0/33 (0%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	668	523	273	643	642
<hr/>					
STATISTICAL TESTS					
POLY 3	P=0.501	P=0.207	P=0.344	P=0.681N	P=0.325
POLY 1.5	P=0.504	P=0.205	P=0.340	P=0.686N	P=0.326
POLY 6	P=0.498	P=0.216	P=0.350	P=0.676N	P=0.325
COCH-ARM / FISHERS	P=0.504	P=0.218	P=0.339	P=0.691N	P=0.329
MAX-ISO-POLY-3	P=0.362	P=0.114	P=0.206	P=0.486N	P=0.191

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Liver Pigment					
LESION RATES					
OVERALL (a)	3/50 (6%)	0/50 (0%)	18/50 (36%)	30/50 (60%)	48/49 (98%)
POLY-3 RATE (b)	3/43.55	0/40.94	18/43.76	30/46.30	48/48.17
POLY-3 PERCENT (g)	6.9%	0%	41.1%	64.8%	99.7%
TERMINAL (d)	2/33 (6%)	0/34 (0%)	13/33 (39%)	23/34 (68%)	31/31 (100%)
FIRST INCIDENCE	575	---	498	522	474
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.130N	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.128N	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.129N	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.121N	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.048N*	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Liver: Bile Duct Cyst					
LESION RATES					
OVERALL (a)	4/50 (8%)	3/50 (6%)	2/50 (4%)	1/50 (2%)	0/49 (0%)
POLY-3 RATE (b)	4/43.03	3/40.94	2/42.00	1/44.19	0/40.95
POLY-3 PERCENT (g)	9.3%	7.3%	4.8%	2.3%	0%
TERMINAL (d)	4/33 (12%)	3/34 (9%)	2/33 (6%)	1/34 (3%)	0/31 (0%)
FIRST INCIDENCE	736 (T)	736 (T)	736 (T)	736 (T)	---
STATISTICAL TESTS					
POLY 3	P=0.048N*	P=0.527N	P=0.348N	P=0.170N	P=0.066N
POLY 1.5	P=0.048N*	P=0.523N	P=0.347N	P=0.173N	P=0.065N
POLY 6	P=0.050N*	P=0.524N	P=0.347N	P=0.167N	P=0.068N
COCH-ARM / FISHERS	P=0.049N*	P=0.500N	P=0.339N	P=0.181N	P=0.061N
MAX-ISO-POLY-3	P=0.042N*	P=0.375N	P=0.209N	P=0.081N	P=0.023N*

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
<hr/>					
Liver: Bile Duct Dilation					
<hr/>					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	0/44.19	0/40.95
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---	---
<hr/>					
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Liver: Bile Duct Hyperplasia					
LESION RATES					
OVERALL (a)	6/50 (12%)	2/50 (4%)	4/50 (8%)	7/50 (14%)	1/49 (2%)
POLY-3 RATE (b)	6/43.03	2/40.94	4/42.66	7/44.53	1/40.95
POLY-3 PERCENT (g)	13.9%	4.9%	9.4%	15.7%	2.4%
TERMINAL (d)	6/33 (18%)	2/34 (6%)	2/33 (6%)	6/34 (18%)	1/31 (3%)
FIRST INCIDENCE	736 (T)	736 (T)	635	643	736 (T)
STATISTICAL TESTS					
POLY 3	P=0.132N	P=0.148N	P=0.374N	P=0.527	P=0.063N
POLY 1.5	P=0.128N	P=0.146N	P=0.378N	P=0.516	P=0.062N
POLY 6	P=0.142N	P=0.145N	P=0.366N	P=0.538	P=0.066N
COCH-ARM / FISHERS	P=0.135N	P=0.134N	P=0.370N	P=0.500	P=0.059N
MAX-ISO-POLY-3	P=0.066N	P=0.083N	P=0.256N	P=0.409	P=0.029N*

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Liver: Hepatocyte Cytoplasmic Alteration					
LESION RATES					
OVERALL (a)	0/50 (0%)	2/50 (4%)	15/50 (30%)	38/50 (76%)	45/49 (92%)
POLY-3 RATE (b)	0/43.03	2/40.94	15/43.45	38/47.00	45/46.65
POLY-3 PERCENT (g)	0%	4.9%	34.5%	80.9%	96.5%
TERMINAL (d)	0/33 (0%)	2/34 (6%)	12/33 (36%)	29/34 (85%)	31/31 (100%)
FIRST INCIDENCE	---	736 (T)	498	523	474
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.226	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.228	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.227	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.247	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.075	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Liver: Hepatocyte Hypertrophy					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	6/50 (12%)	14/50 (28%)	28/49 (57%)
POLY-3 RATE (b)	0/43.03	0/40.94	6/43.04	14/45.59	28/42.31
POLY-3 PERCENT (g)	0%	0%	13.9%	30.7%	66.2%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	4/33 (12%)	11/34 (32%)	24/31 (77%)
FIRST INCIDENCE	---	---	498	523	489
STATISTICAL TESTS					
POLY 3	P<0.001**	(e)	P=0.015*	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	P=0.015*	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	P=0.015*	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.013*	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.005**	P<0.001**	P<0.001**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

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First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Lung					
Infiltration Cellular Histiocyte					
LESION RATES					
OVERALL (a)	47/50 (94%)	45/50 (90%)	46/50 (92%)	49/50 (98%)	48/49 (98%)
POLY-3 RATE (b)	47/48.33	45/47.68	46/49.05	49/50.00	48/48.66
POLY-3 PERCENT (g)	97.3%	94.4%	93.8%	98%	98.6%
TERMINAL (d)	33/33 (100%)	32/34 (94%)	30/33 (91%)	33/34 (97%)	31/31 (100%)
FIRST INCIDENCE	489	286	196	410	404
STATISTICAL TESTS					
POLY 3	P=0.214	P=0.417N	P=0.363N	P=0.672	P=0.607
POLY 1.5	P=0.172	P=0.396N	P=0.426N	P=0.538	P=0.498
POLY 6	P=0.223	P=0.444N	P=0.309N	P=0.759	P=0.664
COCH-ARM / FISHERS	P=0.095	P=0.357N	P=0.500N	P=0.309	P=0.316
MAX-ISO-POLY-3	P=0.291	P=0.220N	P=0.196N	P=0.398	P=0.290

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Lung					
Inflammation Chronic					
LESION RATES					
OVERALL (a)	16/50 (32%)	0/50 (0%)	2/50 (4%)	6/50 (12%)	18/49 (37%)
POLY-3 RATE (b)	16/43.08	0/40.94	2/42.00	6/44.19	18/42.39
POLY-3 PERCENT (g)	37.1%	0%	4.8%	13.6%	42.5%
TERMINAL (d)	15/33 (46%)	0/34 (0%)	2/33 (6%)	6/34 (18%)	15/31 (48%)
FIRST INCIDENCE	722	---	736 (T)	736 (T)	485
STATISTICAL TESTS					
POLY 3	P<0.001**	P<0.001N**	P<0.001N**	P=0.009N**	P=0.387
POLY 1.5	P<0.001**	P<0.001N**	P<0.001N**	P=0.010N**	P=0.388
POLY 6	P<0.001**	P<0.001N**	P<0.001N**	P=0.008N**	P=0.385
COCH-ARM / FISHERS	P<0.001**	P<0.001N**	P<0.001N**	P=0.014N*	P=0.388
MAX-ISO-POLY-3	P<0.001**	P<0.001N**	P<0.001N**	P=0.005N**	P=0.305

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Lung					
Inflammation Granulomatous					
LESION RATES					
OVERALL (a)	6/50 (12%)	11/50 (22%)	18/50 (36%)	7/50 (14%)	10/49 (20%)
POLY-3 RATE (b)	6/43.31	11/41.35	18/42.41	7/44.50	10/40.95
POLY-3 PERCENT (g)	13.9%	26.6%	42.4%	15.7%	24.4%
TERMINAL (d)	5/33 (15%)	9/34 (27%)	16/33 (49%)	6/34 (18%)	10/31 (32%)
FIRST INCIDENCE	658	666	635	651	736 (T)
STATISTICAL TESTS					
POLY 3	P=0.496N	P=0.115	P=0.002**	P=0.521	P=0.167
POLY 1.5	P=0.479N	P=0.119	P=0.003**	P=0.514	P=0.179
POLY 6	P=0.528N	P=0.117	P=0.002**	P=0.527	P=0.152
COCH-ARM / FISHERS	P=0.476N	P=0.143	P=0.005**	P=0.500	P=0.194
MAX-ISO-POLY-3	P=0.130	P=0.074	P<0.001**	P=0.404	P=0.111

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Lung: Alveolar Epithelium Hyperplasia					
LESION RATES					
OVERALL (a)	2/50 (4%)	1/50 (2%)	2/50 (4%)	3/50 (6%)	0/49 (0%)
POLY-3 RATE (b)	2/43.08	1/41.53	2/42.30	3/44.29	0/40.95
POLY-3 PERCENT (g)	4.6%	2.4%	4.7%	6.8%	0%
TERMINAL (d)	1/33 (3%)	0/34 (0%)	1/33 (3%)	2/34 (6%)	0/31 (0%)
FIRST INCIDENCE	722	546	652	712	---
STATISTICAL TESTS					
POLY 3	P=0.226N	P=0.513N	P=0.688	P=0.513	P=0.248N
POLY 1.5	P=0.222N	P=0.512N	P=0.687	P=0.508	P=0.245N
POLY 6	P=0.236N	P=0.508N	P=0.690	P=0.517	P=0.253N
COCH-ARM / FISHERS	P=0.223N	P=0.500N	P=0.691N	P=0.500	P=0.253N
MAX-ISO-POLY-3	P=0.241N	P=0.294N	P=0.492	P=0.337	P=0.085N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Lung: Alveolus Infiltration Cellular Histiocyte					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	0/44.19	0/40.95
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Lymph Node, Mandibular Dilation					
LESION RATES					
OVERALL (a)	1/48 (2%)	0/50 (0%)	0/50 (0%)	0/47 (0%)	0/49 (0%)
POLY-3 RATE (b)	1/41.95	0/40.94	0/42.00	0/41.56	0/40.95
POLY-3 PERCENT (g)	2.4%	0%	0%	0%	0%
TERMINAL (d)	1/33 (3%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	736 (T)	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Lymph Node, Mandibular Infiltration Cellular Plasma Cell					
LESION RATES					
OVERALL (a)	0/48 (0%)	0/50 (0%)	1/50 (2%)	0/47 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/41.95	0/40.94	1/42.00	0/41.56	0/40.95
POLY-3 PERCENT (g)	0%	0%	2.4%	0%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	1/33 (3%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	736 (T)	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Lymph Node, Mesenteric Atrophy					
LESION RATES					
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/48 (2%)
POLY-3 RATE (b)	2/43.36	0/40.94	0/42.00	0/44.19	1/40.36
POLY-3 PERCENT (g)	4.6%	0%	0%	0%	2.5%
TERMINAL (d)	1/33 (3%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	1/32 (3%)
FIRST INCIDENCE	643	---	---	---	736 (T)
STATISTICAL TESTS					
POLY 3	P=0.628	P=0.250N	P=0.244N	P=0.233N	P=0.525N
POLY 1.5	P=0.627	P=0.248N	P=0.243N	P=0.234N	P=0.520N
POLY 6	P=0.625	P=0.250N	P=0.245N	P=0.232N	P=0.531N
COCH-ARM / FISHERS	P=0.618	P=0.247N	P=0.247N	P=0.247N	P=0.515N
MAX-ISO-POLY-3	P=0.113N	P=0.088N	P=0.082N	P=0.075N	P=0.305N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Lymph Node, Mesenteric Dilation					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/48 (0%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	0/44.19	0/40.36
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Lymph Node, Mesenteric Infiltration Cellular Plasma Cell					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/48 (0%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	0/44.19	0/40.36
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Mammary Gland					
Galactocele					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	3/50 (6%)	3/50 (6%)	0/50 (0%)
POLY-3 RATE (b)	0/43.03	0/40.94	3/42.35	3/44.41	0/41.95
POLY-3 PERCENT (g)	0%	0%	7.1%	6.8%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	2/33 (6%)	2/34 (6%)	0/32 (0%)
FIRST INCIDENCE	---	---	635	677	---
STATISTICAL TESTS					
POLY 3	P=0.427N	(e)	P=0.115	P=0.124	(e)
POLY 1.5	P=0.423N	(e)	P=0.116	P=0.122	(e)
POLY 6	P=0.437N	(e)	P=0.116	P=0.126	(e)
COCH-ARM / FISHERS	P=0.427N	(e)	P=0.121	P=0.121	(e)
MAX-ISO-POLY-3	P=0.173	(e)	P=0.038*	P=0.043*	(e)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Mammary Gland Hyperplasia					
LESION RATES					
OVERALL (a)	13/50 (26%)	20/50 (40%)	13/50 (26%)	15/50 (30%)	9/50 (18%)
POLY-3 RATE (b)	13/44.98	20/43.49	13/44.24	15/46.06	9/41.95
POLY-3 PERCENT (g)	28.9%	46%	29.4%	32.6%	21.5%
TERMINAL (d)	9/33 (27%)	15/34 (44%)	9/33 (27%)	10/34 (29%)	9/32 (28%)
FIRST INCIDENCE	468	370	273	523	736 (T)
STATISTICAL TESTS					
POLY 3	P=0.071N	P=0.071	P=0.572	P=0.440	P=0.290N
POLY 1.5	P=0.060N	P=0.075	P=0.574	P=0.428	P=0.266N
POLY 6	P=0.090N	P=0.075	P=0.576	P=0.458	P=0.322N
COCH-ARM / FISHERS	P=0.053N	P=0.101	P=0.590N	P=0.412	P=0.235N
MAX-ISO-POLY-3	P=0.107N	P=0.048*	P=0.479	P=0.353	P=0.218N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Mammary Gland Inflammation Chronic					
LESION RATES					
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/43.55	0/40.94	0/42.00	0/44.19	0/41.95
POLY-3 PERCENT (g)	4.6%	0%	0%	0%	0%
TERMINAL (d)	1/33 (3%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	575	---	---	---	---
STATISTICAL TESTS					
POLY 3	P=0.322N	P=0.251N	P=0.245N	P=0.234N	P=0.245N
POLY 1.5	P=0.325N	P=0.248N	P=0.243N	P=0.235N	P=0.242N
POLY 6	P=0.322N	P=0.251N	P=0.247N	P=0.233N	P=0.250N
COCH-ARM / FISHERS	P=0.336N	P=0.247N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.026N*	P=0.089N	P=0.083N	P=0.075N	P=0.083N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

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First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Mesentery					
Polyarteritis Nodosa					
LESION RATES					
OVERALL (a)	0/0 (0%)	0/1 (0%)	1/1 (100%)	0/2 (0%)	0/2 (0%)
POLY-3 RATE (b)	0/0.00	0/1.00	1/1.00	0/1.74	0/1.44
POLY-3 PERCENT (g)	0%	0%	100%	0%	0%
TERMINAL (d)	0/0 (0%)	0/1 (0%)	1/1 (100%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	736 (T)	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

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First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Nose					
Inflammation Chronic					
LESION RATES					
OVERALL (a)	3/50 (6%)	4/50 (8%)	2/50 (4%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	3/44.72	4/41.35	2/42.00	1/44.19	0/41.95
POLY-3 PERCENT (g)	6.7%	9.7%	4.8%	2.3%	0%
TERMINAL (d)	0/33 (0%)	2/34 (6%)	2/33 (6%)	1/34 (3%)	0/32 (0%)
FIRST INCIDENCE	537	666	736 (T)	736 (T)	---
STATISTICAL TESTS					
POLY 3	P=0.052N	P=0.457	P=0.529N	P=0.309N	P=0.130N
POLY 1.5	P=0.051N	P=0.468	P=0.520N	P=0.307N	P=0.125N
POLY 6	P=0.055N	P=0.455	P=0.538N	P=0.314N	P=0.137N
COCH-ARM / FISHERS	P=0.051N	P=0.500	P=0.500N	P=0.309N	P=0.121N
MAX-ISO-POLY-3	P=0.069N	P=0.315	P=0.353N	P=0.158N	P=0.048N*

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
<hr/>					
Nose: Glands					
Dilation					
<hr/>					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	0/44.19	0/41.95
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	---	---	---	---	---
<hr/>					
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Di(2-ethylhexyl) Phthalate
 CAS Number: 117-81-7

Date Report Requested: 12/19/2019
 Time Report Requested: 17:51:32
 First Dose M/F: 02/17/11 / 02/18/11
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Nose: Olfactory Epithelium Accumulation, Hyaline Droplet					
LESION RATES					
OVERALL (a)	48/50 (96%)	49/50 (98%)	50/50 (100%)	48/50 (96%)	33/50 (66%)
POLY-3 RATE (b)	48/49.64	49/50.00	50/50.00	48/49.66	33/46.10
POLY-3 PERCENT (g)	96.7%	98%	100%	96.7%	71.6%
TERMINAL (d)	33/33 (100%)	33/34 (97%)	33/33 (100%)	34/34 (100%)	24/32 (75%)
FIRST INCIDENCE	355	238	196	410	474
STATISTICAL TESTS					
POLY 3	P<0.001N**	P=0.591	P=0.291	P=0.722N	P<0.001N**
POLY 1.5	P<0.001N**	P=0.547	P=0.263	P=0.708N	P<0.001N**
POLY 6	P<0.001N**	P=0.664	P=0.353	P=0.746N	P<0.001N**
COCH-ARM / FISHERS	P<0.001N**	P=0.500	P=0.247	P=0.691N	P<0.001N**
MAX-ISO-POLY-3	P<0.001N**	P=0.337	P=0.080	P=0.495N	P<0.001N**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Nose: Olfactory Epithelium Metaplasia Respiratory					
LESION RATES					
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/43.03	2/41.20	0/42.00	0/44.19	1/41.95
POLY-3 PERCENT (g)	0%	4.9%	0%	0%	2.4%
TERMINAL (d)	0/33 (0%)	1/34 (3%)	0/33 (0%)	0/34 (0%)	1/32 (3%)
FIRST INCIDENCE	---	666	---	---	736 (T)
STATISTICAL TESTS					
POLY 3	P=0.584	P=0.227	(e)	(e)	P=0.495
POLY 1.5	P=0.587	P=0.228	(e)	(e)	P=0.497
POLY 6	P=0.582	P=0.230	(e)	(e)	P=0.492
COCH-ARM / FISHERS	P=0.591	P=0.247	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.316	P=0.075	(e)	(e)	P=0.158

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Nose: Respiratory Epithelium Metaplasia					
LESION RATES					
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/43.59	0/40.94	0/42.00	0/44.19	0/41.95
POLY-3 PERCENT (g)	4.6%	0%	0%	0%	0%
TERMINAL (d)	1/33 (3%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	559	---	---	---	---
STATISTICAL TESTS					
POLY 3	P=0.322N	P=0.251N	P=0.245N	P=0.234N	P=0.246N
POLY 1.5	P=0.325N	P=0.248N	P=0.244N	P=0.235N	P=0.242N
POLY 6	P=0.322N	P=0.251N	P=0.247N	P=0.233N	P=0.251N
COCH-ARM / FISHERS	P=0.336N	P=0.247N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.026N*	P=0.089N	P=0.083N	P=0.075N	P=0.084N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Ovary Atrophy					
LESION RATES					
OVERALL (a)	36/50 (72%)	33/50 (66%)	37/50 (74%)	34/49 (69%)	29/48 (60%)
POLY-3 RATE (b)	36/46.15	33/45.04	37/45.49	34/47.58	29/46.25
POLY-3 PERCENT (g)	78%	73.3%	81.3%	71.5%	62.7%
TERMINAL (d)	25/33 (76%)	25/34 (74%)	27/33 (82%)	24/34 (71%)	18/32 (56%)
FIRST INCIDENCE	489	286	498	522	404
STATISTICAL TESTS					
POLY 3	P=0.031N*	P=0.384N	P=0.443	P=0.307N	P=0.076N
POLY 1.5	P=0.049N*	P=0.373N	P=0.442	P=0.363N	P=0.098N
POLY 6	P=0.024N*	P=0.391N	P=0.449	P=0.269N	P=0.066N
COCH-ARM / FISHERS	P=0.124N	P=0.333N	P=0.500	P=0.474N	P=0.159N
MAX-ISO-POLY-3	P=0.054N	P=0.294N	P=0.340	P=0.230N	P=0.050N*

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Ovary Cyst					
LESION RATES					
OVERALL (a)	4/50 (8%)	2/50 (4%)	1/50 (2%)	7/49 (14%)	5/48 (10%)
POLY-3 RATE (b)	4/43.55	2/40.94	1/42.00	7/44.37	5/40.65
POLY-3 PERCENT (g)	9.2%	4.9%	2.4%	15.8%	12.3%
TERMINAL (d)	3/33 (9%)	2/34 (6%)	1/33 (3%)	6/34 (18%)	4/32 (13%)
FIRST INCIDENCE	575	736 (T)	736 (T)	639	656
STATISTICAL TESTS					
POLY 3	P=0.153	P=0.366N	P=0.189N	P=0.271	P=0.457
POLY 1.5	P=0.156	P=0.360N	P=0.187N	P=0.264	P=0.464
POLY 6	P=0.147	P=0.365N	P=0.191N	P=0.276	P=0.449
COCH-ARM / FISHERS	P=0.152	P=0.339N	P=0.181N	P=0.251	P=0.474
MAX-ISO-POLY-3	P=0.155	P=0.228N	P=0.093N	P=0.178	P=0.326

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female

Ovary: Bilateral Atrophy

LESION RATES					
OVERALL (a)	36/50 (72%)	32/50 (64%)	37/50 (74%)	34/49 (69%)	29/48 (60%)
POLY-3 RATE (b)	36/46.15	32/45.04	37/45.49	34/47.58	29/46.25
POLY-3 PERCENT (g)	78%	71%	81.3%	71.5%	62.7%
TERMINAL (d)	25/33 (76%)	24/34 (71%)	27/33 (82%)	24/34 (71%)	18/32 (56%)
FIRST INCIDENCE	489	286	498	522	404

STATISTICAL TESTS					
POLY 3	P=0.040N*	P=0.294N	P=0.443	P=0.307N	P=0.076N
POLY 1.5	P=0.061N	P=0.288N	P=0.442	P=0.363N	P=0.098N
POLY 6	P=0.032N*	P=0.297N	P=0.449	P=0.269N	P=0.066N
COCH-ARM / FISHERS	P=0.145N	P=0.260N	P=0.500	P=0.474N	P=0.159N
MAX-ISO-POLY-3	P=0.070N	P=0.216N	P=0.340	P=0.230N	P=0.050N*

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Ovary: Bursa Cyst					
LESION RATES					
OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	3/49 (6%)	2/48 (4%)
POLY-3 RATE (b)	0/43.03	2/40.94	1/42.59	3/44.37	2/40.36
POLY-3 PERCENT (g)	0%	4.9%	2.4%	6.8%	5%
TERMINAL (d)	0/33 (0%)	2/34 (6%)	0/33 (0%)	2/34 (6%)	2/32 (6%)
FIRST INCIDENCE	---	736 (T)	546	639	736 (T)
STATISTICAL TESTS					
POLY 3	P=0.317	P=0.226	P=0.498	P=0.124	P=0.223
POLY 1.5	P=0.322	P=0.228	P=0.497	P=0.121	P=0.225
POLY 6	P=0.309	P=0.227	P=0.499	P=0.127	P=0.220
COCH-ARM / FISHERS	P=0.324	P=0.247	P=0.500	P=0.117	P=0.237
MAX-ISO-POLY-3	P=0.149	P=0.075	P=0.158	P=0.043*	P=0.073

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Ovary: Follicle Cyst					
LESION RATES					
OVERALL (a)	5/50 (10%)	4/50 (8%)	8/50 (16%)	6/49 (12%)	10/48 (21%)
POLY-3 RATE (b)	5/43.28	4/41.96	8/42.99	6/44.02	10/41.40
POLY-3 PERCENT (g)	11.6%	9.5%	18.6%	13.6%	24.2%
TERMINAL (d)	4/33 (12%)	2/34 (6%)	6/33 (18%)	6/34 (18%)	8/32 (25%)
FIRST INCIDENCE	668	575	498	736 (T)	489
STATISTICAL TESTS					
POLY 3	P=0.057	P=0.519N	P=0.269	P=0.512	P=0.107
POLY 1.5	P=0.059	P=0.520N	P=0.268	P=0.504	P=0.109
POLY 6	P=0.053	P=0.509N	P=0.273	P=0.516	P=0.103
COCH-ARM / FISHERS	P=0.056	P=0.500N	P=0.277	P=0.486	P=0.113
MAX-ISO-POLY-3	P=0.075	P=0.383N	P=0.180	P=0.387	P=0.065

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Ovary: Paraovarian Tissue Cyst					
LESION RATES					
OVERALL (a)	2/50 (4%)	1/50 (2%)	1/50 (2%)	1/49 (2%)	2/48 (4%)
POLY-3 RATE (b)	2/43.03	1/41.30	1/42.00	1/44.02	2/40.36
POLY-3 PERCENT (g)	4.7%	2.4%	2.4%	2.3%	5%
TERMINAL (d)	2/33 (6%)	0/34 (0%)	1/33 (3%)	1/34 (3%)	2/32 (6%)
FIRST INCIDENCE	736 (T)	634	736 (T)	736 (T)	736 (T)
STATISTICAL TESTS					
POLY 3	P=0.453	P=0.514N	P=0.508N	P=0.492N	P=0.671
POLY 1.5	P=0.456	P=0.513N	P=0.508N	P=0.497N	P=0.675
POLY 6	P=0.446	P=0.510N	P=0.508N	P=0.488N	P=0.667
COCH-ARM / FISHERS	P=0.451	P=0.500N	P=0.500N	P=0.508N	P=0.676
MAX-ISO-POLY-3	P=0.534	P=0.296N	P=0.290N	P=0.276N	P=0.474

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
<hr/>					
Ovary: Rete Ovarii Hyperplasia					
<hr/>					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)	2/48 (4%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	0/44.02	2/40.36
POLY-3 PERCENT (g)	0%	0%	0%	0%	5%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	2/32 (6%)
FIRST INCIDENCE	---	---	---	---	736 (T)
<hr/>					
STATISTICAL TESTS					
POLY 3	P=0.017*	(e)	(e)	(e)	P=0.223
POLY 1.5	P=0.017*	(e)	(e)	(e)	P=0.225
POLY 6	P=0.017*	(e)	(e)	(e)	P=0.220
COCH-ARM / FISHERS	P=0.018*	(e)	(e)	(e)	P=0.237
MAX-ISO-POLY-3	P=0.019*	(e)	(e)	(e)	P=0.073

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Pancreas					
Polyarteritis Nodosa					
LESION RATES					
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	1/50 (2%)	0/47 (0%)
POLY-3 RATE (b)	1/43.03	0/40.94	2/42.00	1/44.19	0/39.36
POLY-3 PERCENT (g)	2.3%	0%	4.8%	2.3%	0%
TERMINAL (d)	1/33 (3%)	0/34 (0%)	2/33 (6%)	1/34 (3%)	0/31 (0%)
FIRST INCIDENCE	736 (T)	---	736 (T)	736 (T)	---
STATISTICAL TESTS					
POLY 3	P=0.358N	P=0.510N	P=0.492	P=0.755N	P=0.518N
POLY 1.5	P=0.356N	P=0.508N	P=0.492	P=0.757N	P=0.515N
POLY 6	P=0.363N	P=0.509N	P=0.492	P=0.753N	P=0.520N
COCH-ARM / FISHERS	P=0.360N	P=0.500N	P=0.500	P=0.753N	P=0.515N
MAX-ISO-POLY-3	P=0.392N	P=0.170N	P=0.275	P=0.492N	P=0.176N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
<hr/>					
Pancreas: Acinus					
Atrophy					
<hr/>					
LESION RATES					
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/47 (2%)
POLY-3 RATE (b)	1/43.03	0/40.94	0/42.00	1/44.53	1/39.36
POLY-3 PERCENT (g)	2.3%	0%	0%	2.3%	2.5%
TERMINAL (d)	1/33 (3%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	1/31 (3%)
FIRST INCIDENCE	736 (T)	---	---	641	736 (T)
<hr/>					
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

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First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Pancreas: Acinus Hyperplasia					
LESION RATES					
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)	5/47 (11%)
POLY-3 RATE (b)	0/43.03	1/40.94	1/42.00	1/44.19	5/39.36
POLY-3 PERCENT (g)	0%	2.4%	2.4%	2.3%	12.7%
TERMINAL (d)	0/33 (0%)	1/34 (3%)	1/33 (3%)	1/34 (3%)	5/31 (16%)
FIRST INCIDENCE	---	736 (T)	736 (T)	736 (T)	736 (T)
STATISTICAL TESTS					
POLY 3	P=0.002**	P=0.490	P=0.495	P=0.505	P=0.023*
POLY 1.5	P=0.002**	P=0.492	P=0.496	P=0.503	P=0.024*
POLY 6	P=0.002**	P=0.491	P=0.495	P=0.507	P=0.022*
COCH-ARM / FISHERS	P=0.002**	P=0.500	P=0.500	P=0.500	P=0.024*
MAX-ISO-POLY-3	P=0.003**	P=0.158	P=0.158	P=0.164	P=0.008**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female

Pancreas: Bile Duct Dilation

LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/47 (0%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	0/44.19	0/39.36
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---	---

STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Parathyroid Gland Hyperplasia Diffuse					
LESION RATES					
OVERALL (a)	0/42 (0%)	0/48 (0%)	0/47 (0%)	0/41 (0%)	0/43 (0%)
POLY-3 RATE (b)	0/36.55	0/39.91	0/39.94	0/37.16	0/36.59
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/29 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)	0/28 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Parathyroid Gland Hyperplasia Focal					
LESION RATES					
OVERALL (a)	0/42 (0%)	0/48 (0%)	0/47 (0%)	0/41 (0%)	0/43 (0%)
POLY-3 RATE (b)	0/36.55	0/39.91	0/39.94	0/37.16	0/36.59
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/29 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)	0/28 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Parathyroid Gland: Bilateral Hyperplasia Diffuse					
LESION RATES					
OVERALL (a)	0/42 (0%)	0/48 (0%)	0/47 (0%)	0/41 (0%)	0/43 (0%)
POLY-3 RATE (b)	0/36.55	0/39.91	0/39.94	0/37.16	0/36.59
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/29 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)	0/28 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Pituitary Gland: Pars Distalis Hyperplasia					
LESION RATES					
OVERALL (a)	20/49 (41%)	17/50 (34%)	21/50 (42%)	19/50 (38%)	10/50 (20%)
POLY-3 RATE (b)	20/44.40	17/42.73	21/44.06	19/45.30	10/42.28
POLY-3 PERCENT (g)	45.1%	39.8%	47.7%	41.9%	23.7%
TERMINAL (d)	14/33 (42%)	14/34 (41%)	16/33 (49%)	14/34 (41%)	9/32 (28%)
FIRST INCIDENCE	489	286	273	618	643
STATISTICAL TESTS					
POLY 3	P=0.014N*	P=0.389N	P=0.486	P=0.466N	P=0.027N*
POLY 1.5	P=0.012N*	P=0.366N	P=0.501	P=0.464N	P=0.023N*
POLY 6	P=0.019N*	P=0.405N	P=0.467	P=0.475N	P=0.036N*
COCH-ARM / FISHERS	P=0.012N*	P=0.311N	P=0.534	P=0.468N	P=0.021N*
MAX-ISO-POLY-3	P=0.024N*	P=0.312N	P=0.402	P=0.383N	P=0.018N*

Experiment Number: 10188 - 01
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Di(2-ethylhexyl) Phthalate
CAS Number: 117-81-7

Date Report Requested: 12/19/2019
Time Report Requested: 17:51:32
First Dose M/F: 02/17/11 / 02/18/11
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Pituitary Gland: Pars Distalis Hypertrophy					
LESION RATES					
OVERALL (a)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.36	0/40.94	0/42.00	0/44.19	0/41.95
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female

Pituitary Gland: Pars Intermedia
Hyperplasia

LESION RATES

OVERALL (a)	0/49 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.36	1/41.85	0/42.00	0/44.19	0/41.95
POLY-3 PERCENT (g)	0%	2.4%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	---	327	---	---	---

STATISTICAL TESTS

POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Skin					
Cyst Epithelial Inclusion					
LESION RATES					
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.03	1/40.94	0/42.00	0/44.19	0/41.95
POLY-3 PERCENT (g)	0%	2.4%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	1/34 (3%)	0/33 (0%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	---	736 (T)	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Skin					
Inflammation Chronic					
<hr/>					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	1/44.19	0/41.95
POLY-3 PERCENT (g)	0%	0%	0%	2.3%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	1/34 (3%)	0/32 (0%)
FIRST INCIDENCE	---	---	---	736 (T)	---
<hr/>					
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Spleen					
Extramedullary Hematopoiesis					
LESION RATES					
OVERALL (a)	47/50 (94%)	45/50 (90%)	45/50 (90%)	43/50 (86%)	39/47 (83%)
POLY-3 RATE (b)	47/49.80	45/49.41	45/46.35	43/49.30	39/46.26
POLY-3 PERCENT (g)	94.4%	91.1%	97.1%	87.2%	84.3%
TERMINAL (d)	32/33 (97%)	30/34 (88%)	33/33 (100%)	31/34 (91%)	25/31 (81%)
FIRST INCIDENCE	355	238	498	410	404
STATISTICAL TESTS					
POLY 3	P=0.032N*	P=0.401N	P=0.434	P=0.179N	P=0.093N
POLY 1.5	P=0.039N*	P=0.385N	P=0.603	P=0.169N	P=0.088N
POLY 6	P=0.030N*	P=0.408N	P=0.295	P=0.198N	P=0.102N
COCH-ARM / FISHERS	P=0.074N	P=0.357N	P=0.357N	P=0.159N	P=0.082N
MAX-ISO-POLY-3	P=0.056N	P=0.259N	P=0.240	P=0.101N	P=0.052N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Spleen Hemorrhage					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/47 (2%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	0/44.19	1/39.63
POLY-3 PERCENT (g)	0%	0%	0%	0%	2.5%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---	662
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Spleen Pigment					
LESION RATES					
OVERALL (a)	38/50 (76%)	38/50 (76%)	42/50 (84%)	40/50 (80%)	36/47 (77%)
POLY-3 RATE (b)	38/47.59	38/44.93	42/46.53	40/46.67	36/43.05
POLY-3 PERCENT (g)	79.8%	84.6%	90.3%	85.7%	83.6%
TERMINAL (d)	28/33 (85%)	30/34 (88%)	32/33 (97%)	33/34 (97%)	28/31 (90%)
FIRST INCIDENCE	355	286	196	410	404
STATISTICAL TESTS					
POLY 3	P=0.552N	P=0.365	P=0.108	P=0.302	P=0.418
POLY 1.5	P=0.507N	P=0.430	P=0.148	P=0.346	P=0.479
POLY 6	P=0.544	P=0.338	P=0.081	P=0.248	P=0.356
COCH-ARM / FISHERS	P=0.481N	P=0.592N	P=0.227	P=0.405	P=0.568
MAX-ISO-POLY-3	P=0.300	P=0.268	P=0.062	P=0.209	P=0.315

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Spleen: White Pulp Atrophy					
LESION RATES					
OVERALL (a)	5/50 (10%)	5/50 (10%)	2/50 (4%)	6/50 (12%)	7/47 (15%)
POLY-3 RATE (b)	5/44.33	5/42.88	2/43.54	6/45.38	7/42.40
POLY-3 PERCENT (g)	11.3%	11.7%	4.6%	13.2%	16.5%
TERMINAL (d)	2/33 (6%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	355	523	273	639	475
STATISTICAL TESTS					
POLY 3	P=0.156	P=0.610	P=0.223N	P=0.516	P=0.347
POLY 1.5	P=0.151	P=0.608	P=0.223N	P=0.508	P=0.340
POLY 6	P=0.162	P=0.625	P=0.223N	P=0.529	P=0.361
COCH-ARM / FISHERS	P=0.141	P=0.630N	P=0.218N	P=0.500	P=0.336
MAX-ISO-POLY-3	P=0.252	P=0.477	P=0.125N	P=0.391	P=0.241

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Stomach, Forestomach Inflammation Acute					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/43.03	0/40.94	1/42.59	0/44.19	2/42.30
POLY-3 PERCENT (g)	0%	0%	2.4%	0%	4.7%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	---	---	546	---	662
STATISTICAL TESTS					
POLY 3	P=0.082	(e)	P=0.498	(e)	P=0.233
POLY 1.5	P=0.083	(e)	P=0.497	(e)	P=0.235
POLY 6	P=0.081	(e)	P=0.499	(e)	P=0.231
COCH-ARM / FISHERS	P=0.082	(e)	P=0.500	(e)	P=0.247
MAX-ISO-POLY-3	P=0.057	(e)	P=0.158	(e)	P=0.075

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Stomach, Forestomach Inflammation Chronic					
LESION RATES					
OVERALL (a)	3/50 (6%)	2/50 (4%)	2/50 (4%)	4/50 (8%)	4/50 (8%)
POLY-3 RATE (b)	3/44.66	2/40.94	2/42.46	4/44.85	4/42.70
POLY-3 PERCENT (g)	6.7%	4.9%	4.7%	8.9%	9.4%
TERMINAL (d)	0/33 (0%)	2/34 (6%)	0/33 (0%)	2/34 (6%)	2/32 (6%)
FIRST INCIDENCE	468	736 (T)	617	618	613
STATISTICAL TESTS					
POLY 3	P=0.280	P=0.540N	P=0.523N	P=0.502	P=0.475
POLY 1.5	P=0.284	P=0.529N	P=0.517N	P=0.502	P=0.486
POLY 6	P=0.272	P=0.545N	P=0.528N	P=0.503	P=0.464
COCH-ARM / FISHERS	P=0.279	P=0.500N	P=0.500N	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.425	P=0.365N	P=0.347N	P=0.349	P=0.328

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Stomach, Forestomach Ulcer					
LESION RATES					
OVERALL (a)	2/50 (4%)	0/50 (0%)	2/50 (4%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	2/44.10	0/40.94	2/42.46	2/44.60	2/42.03
POLY-3 PERCENT (g)	4.5%	0%	4.7%	4.5%	4.8%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	1/34 (3%)	1/32 (3%)
FIRST INCIDENCE	468	---	617	618	716
STATISTICAL TESTS					
POLY 3	P=0.439	P=0.254N	P=0.680	P=0.690N	P=0.677
POLY 1.5	P=0.443	P=0.250N	P=0.683	P=0.691N	P=0.684
POLY 6	P=0.428	P=0.255N	P=0.679	P=0.689N	P=0.668
COCH-ARM / FISHERS	P=0.438	P=0.247N	P=0.691N	P=0.691N	P=0.691N
MAX-ISO-POLY-3	P=0.493	P=0.092N	P=0.484	P=0.495N	P=0.480

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Stomach, Forestomach: Epithelium Hyperplasia					
LESION RATES					
OVERALL (a)	2/50 (4%)	5/50 (10%)	3/50 (6%)	6/50 (12%)	6/50 (12%)
POLY-3 RATE (b)	2/44.33	5/41.62	3/43.06	6/44.90	6/43.39
POLY-3 PERCENT (g)	4.5%	12%	7%	13.4%	13.8%
TERMINAL (d)	0/33 (0%)	3/34 (9%)	0/33 (0%)	2/34 (6%)	1/32 (3%)
FIRST INCIDENCE	468	575	545	651	613
STATISTICAL TESTS					
POLY 3	P=0.166	P=0.190	P=0.487	P=0.136	P=0.125
POLY 1.5	P=0.169	P=0.196	P=0.488	P=0.135	P=0.128
POLY 6	P=0.163	P=0.192	P=0.488	P=0.139	P=0.124
COCH-ARM / FISHERS	P=0.167	P=0.218	P=0.500	P=0.134	P=0.134
MAX-ISO-POLY-3	P=0.132	P=0.108	P=0.314	P=0.072	P=0.066

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Stomach, Glandular Mineral					
LESION RATES					
OVERALL (a)	1/50 (2%)	3/50 (6%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	1/43.31	3/40.94	2/42.00	1/44.53	1/42.42
POLY-3 PERCENT (g)	2.3%	7.3%	4.8%	2.3%	2.4%
TERMINAL (d)	0/33 (0%)	3/34 (9%)	2/33 (6%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	658	736 (T)	736 (T)	643	596
STATISTICAL TESTS					
POLY 3	P=0.371N	P=0.285	P=0.489	P=0.755N	P=0.756
POLY 1.5	P=0.369N	P=0.289	P=0.491	P=0.757N	P=0.758
POLY 6	P=0.375N	P=0.285	P=0.487	P=0.753N	P=0.753
COCH-ARM / FISHERS	P=0.368N	P=0.309	P=0.500	P=0.753N	P=0.753N
MAX-ISO-POLY-3	P=0.484N	P=0.146	P=0.274	P=0.492N	P=0.494

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Thymus Atrophy					
LESION RATES					
OVERALL (a)	47/49 (96%)	45/49 (92%)	47/50 (94%)	45/47 (96%)	42/48 (88%)
POLY-3 RATE (b)	47/48.72	45/48.06	47/47.89	45/47.00	42/46.19
POLY-3 PERCENT (g)	96.5%	93.6%	98.1%	95.7%	90.9%
TERMINAL (d)	32/33 (97%)	31/34 (91%)	33/33 (100%)	32/34 (94%)	27/30 (90%)
FIRST INCIDENCE	355	238	273	410	474
STATISTICAL TESTS					
POLY 3	P=0.137N	P=0.429N	P=0.557	P=0.636N	P=0.231N
POLY 1.5	P=0.107N	P=0.421N	P=0.643	P=0.657N	P=0.187N
POLY 6	P=0.175N	P=0.400N	P=0.492	P=0.600N	P=0.269N
COCH-ARM / FISHERS	P=0.102N	P=0.339N	P=0.510N	P=0.676N	P=0.127N
MAX-ISO-POLY-3	P=0.179N	P=0.256N	P=0.288	P=0.425N	P=0.122N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Thyroid Gland: C-Cell Hyperplasia					
LESION RATES					
OVERALL (a)	12/50 (24%)	5/50 (10%)	5/50 (10%)	4/48 (8%)	5/49 (10%)
POLY-3 RATE (b)	12/43.88	5/40.94	5/42.00	4/42.56	5/40.95
POLY-3 PERCENT (g)	27.4%	12.2%	11.9%	9.4%	12.2%
TERMINAL (d)	10/33 (30%)	5/34 (15%)	5/33 (15%)	3/34 (9%)	5/31 (16%)
FIRST INCIDENCE	575	736 (T)	736 (T)	708	736 (T)
STATISTICAL TESTS					
POLY 3	P=0.199N	P=0.069N	P=0.061N	P=0.028N*	P=0.068N
POLY 1.5	P=0.196N	P=0.065N	P=0.059N	P=0.029N*	P=0.063N
POLY 6	P=0.210N	P=0.069N	P=0.063N	P=0.027N*	P=0.076N
COCH-ARM / FISHERS	P=0.208N	P=0.054N	P=0.054N	P=0.033N*	P=0.059N
MAX-ISO-POLY-3	P=0.030N*	P=0.044N*	P=0.037N*	P=0.015N*	P=0.043N*

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
<hr/>					
Trachea					
Inflammation Chronic					
<hr/>					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	0/43.23	0/40.95
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---	---
<hr/>					
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus					
Adenomyosis					
LESION RATES					
OVERALL (a)	3/50 (6%)	2/50 (4%)	2/50 (4%)	2/50 (4%)	0/49 (0%)
POLY-3 RATE (b)	3/43.03	2/40.94	2/42.00	2/44.19	0/41.28
POLY-3 PERCENT (g)	7%	4.9%	4.8%	4.5%	0%
TERMINAL (d)	3/33 (9%)	2/34 (6%)	2/33 (6%)	2/34 (6%)	0/32 (0%)
FIRST INCIDENCE	736 (T)	736 (T)	736 (T)	736 (T)	---
STATISTICAL TESTS					
POLY 3	P=0.108N	P=0.523N	P=0.511N	P=0.488N	P=0.126N
POLY 1.5	P=0.107N	P=0.519N	P=0.510N	P=0.492N	P=0.124N
POLY 6	P=0.110N	P=0.520N	P=0.511N	P=0.484N	P=0.127N
COCH-ARM / FISHERS	P=0.110N	P=0.500N	P=0.500N	P=0.500N	P=0.125N
MAX-ISO-POLY-3	P=0.104N	P=0.347N	P=0.335N	P=0.315N	P=0.043N*

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
<hr/>					
Uterus Dilation					
<hr/>					
LESION RATES					
OVERALL (a)	0/50 (0%)	5/50 (10%)	2/50 (4%)	2/50 (4%)	1/49 (2%)
POLY-3 RATE (b)	0/43.03	5/43.11	2/42.61	2/45.24	1/41.28
POLY-3 PERCENT (g)	0%	11.6%	4.7%	4.4%	2.4%
TERMINAL (d)	0/33 (0%)	2/34 (6%)	0/33 (0%)	0/34 (0%)	1/32 (3%)
FIRST INCIDENCE	---	286	652	522	736 (T)
<hr/>					
STATISTICAL TESTS					
POLY 3	P=0.327N	P=0.030*	P=0.235	P=0.248	P=0.492
POLY 1.5	P=0.324N	P=0.030*	P=0.234	P=0.244	P=0.494
POLY 6	P=0.330N	P=0.032*	P=0.237	P=0.253	P=0.489
COCH-ARM / FISHERS	P=0.321N	P=0.028*	P=0.247	P=0.247	P=0.495
MAX-ISO-POLY-3	P=0.188	P=0.010**	P=0.075	P=0.087	P=0.156

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus Hemorrhage					
LESION RATES					
OVERALL (a)	2/50 (4%)	2/50 (4%)	0/50 (0%)	1/50 (2%)	2/49 (4%)
POLY-3 RATE (b)	2/43.71	2/42.17	0/42.00	1/44.84	2/41.89
POLY-3 PERCENT (g)	4.6%	4.7%	0%	2.2%	4.8%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	598	483	---	522	642
STATISTICAL TESTS					
POLY 3	P=0.491	P=0.681	P=0.246N	P=0.491N	P=0.679
POLY 1.5	P=0.493	P=0.682	P=0.244N	P=0.494N	P=0.682
POLY 6	P=0.489	P=0.685	P=0.248N	P=0.490N	P=0.675
COCH-ARM / FISHERS	P=0.488	P=0.691N	P=0.247N	P=0.500N	P=0.684
MAX-ISO-POLY-3	P=0.482N	P=0.485	P=0.084N	P=0.275N	P=0.482

Experiment Number: 10188 - 01
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Di(2-ethylhexyl) Phthalate
 CAS Number: 117-81-7

Date Report Requested: 12/19/2019
 Time Report Requested: 17:51:32
 First Dose M/F: 02/17/11 / 02/18/11
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus Inflammation					
LESION RATES					
OVERALL (a)	3/50 (6%)	2/50 (4%)	0/50 (0%)	0/50 (0%)	1/49 (2%)
POLY-3 RATE (b)	3/43.03	2/40.94	0/42.00	0/44.19	1/41.28
POLY-3 PERCENT (g)	7%	4.9%	0%	0%	2.4%
TERMINAL (d)	3/33 (9%)	2/34 (6%)	0/33 (0%)	0/34 (0%)	1/32 (3%)
FIRST INCIDENCE	736 (T)	736 (T)	---	---	736 (T)
STATISTICAL TESTS					
POLY 3	P=0.369N	P=0.523N	P=0.123N	P=0.114N	P=0.320N
POLY 1.5	P=0.368N	P=0.519N	P=0.122N	P=0.116N	P=0.317N
POLY 6	P=0.370N	P=0.520N	P=0.122N	P=0.112N	P=0.324N
COCH-ARM / FISHERS	P=0.374N	P=0.500N	P=0.121N	P=0.121N	P=0.316N
MAX-ISO-POLY-3	P=0.079N	P=0.347N	P=0.042N*	P=0.038N*	P=0.167N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus					
Inflammation Chronic					
LESION RATES					
OVERALL (a)	2/50 (4%)	9/50 (18%)	9/50 (18%)	8/50 (16%)	8/49 (16%)
POLY-3 RATE (b)	2/43.24	9/42.57	9/43.56	8/45.73	8/43.45
POLY-3 PERCENT (g)	4.6%	21.1%	20.7%	17.5%	18.4%
TERMINAL (d)	1/33 (3%)	6/34 (18%)	5/33 (15%)	4/34 (12%)	4/32 (13%)
FIRST INCIDENCE	679	546	546	522	475
STATISTICAL TESTS					
POLY 3	P=0.333	P=0.022*	P=0.025*	P=0.054	P=0.045*
POLY 1.5	P=0.327	P=0.022*	P=0.024*	P=0.051	P=0.044*
POLY 6	P=0.333	P=0.024*	P=0.027*	P=0.059	P=0.046*
COCH-ARM / FISHERS	P=0.308	P=0.026*	P=0.026*	P=0.046*	P=0.043*
MAX-ISO-POLY-3	P=0.056	P=0.010**	P=0.011*	P=0.029*	P=0.021*

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus: Endometrium					
Atypical Hyperplasia					
LESION RATES					
OVERALL (a)	4/50 (8%)	5/50 (10%)	3/50 (6%)	6/50 (12%)	3/49 (6%)
POLY-3 RATE (b)	4/43.03	5/41.20	3/42.00	6/44.19	3/41.28
POLY-3 PERCENT (g)	9.3%	12.1%	7.1%	13.6%	7.3%
TERMINAL (d)	4/33 (12%)	4/34 (12%)	3/33 (9%)	6/34 (18%)	3/32 (9%)
FIRST INCIDENCE	736 (T)	666	736 (T)	736 (T)	736 (T)
STATISTICAL TESTS					
POLY 3	P=0.416N	P=0.473	P=0.513N	P=0.386	P=0.523N
POLY 1.5	P=0.411N	P=0.476	P=0.512N	P=0.380	P=0.518N
POLY 6	P=0.427N	P=0.480	P=0.513N	P=0.391	P=0.529N
COCH-ARM / FISHERS	P=0.416N	P=0.500	P=0.500N	P=0.370	P=0.511N
MAX-ISO-POLY-3	P=0.525N	P=0.340	P=0.360N	P=0.268	P=0.370N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/19/2019

Time Report Requested: 17:51:32

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus: Endometrium Hyperplasia Cystic					
LESION RATES					
OVERALL (a)	31/50 (62%)	22/50 (44%)	25/50 (50%)	27/50 (54%)	26/49 (53%)
POLY-3 RATE (b)	31/45.00	22/41.53	25/43.10	27/45.72	26/45.43
POLY-3 PERCENT (g)	68.9%	53%	58%	59.1%	57.2%
TERMINAL (d)	23/33 (70%)	21/34 (62%)	22/33 (67%)	22/34 (65%)	19/32 (59%)
FIRST INCIDENCE	575	546	498	523	404
STATISTICAL TESTS					
POLY 3	P=0.374N	P=0.088N	P=0.191N	P=0.217N	P=0.168N
POLY 1.5	P=0.429N	P=0.076N	P=0.180N	P=0.233N	P=0.189N
POLY 6	P=0.344N	P=0.101N	P=0.217N	P=0.214N	P=0.164N
COCH-ARM / FISHERS	P=0.525	P=0.054N	P=0.157N	P=0.272N	P=0.243N
MAX-ISO-POLY-3	P=0.200N	P=0.063N	P=0.138N	P=0.158N	P=0.119N

Experiment Number: 10188 - 01
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Di(2-ethylhexyl) Phthalate
 CAS Number: 117-81-7

Date Report Requested: 12/19/2019
 Time Report Requested: 17:51:32
 First Dose M/F: 02/17/11 / 02/18/11
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus: Endometrium Metaplasia					
LESION RATES					
OVERALL (a)	34/50 (68%)	27/50 (54%)	28/50 (56%)	25/50 (50%)	12/49 (24%)
POLY-3 RATE (b)	34/46.82	27/43.54	28/44.61	25/45.68	12/43.52
POLY-3 PERCENT (g)	72.6%	62%	62.8%	54.7%	27.6%
TERMINAL (d)	23/33 (70%)	22/34 (65%)	22/33 (67%)	21/34 (62%)	8/32 (25%)
FIRST INCIDENCE	489	483	498	522	404
STATISTICAL TESTS					
POLY 3	P<0.001N**	P=0.191N	P=0.210N	P=0.051N	P<0.001N**
POLY 1.5	P<0.001N**	P=0.164N	P=0.191N	P=0.047N*	P<0.001N**
POLY 6	P<0.001N**	P=0.216N	P=0.242N	P=0.065N	P<0.001N**
COCH-ARM / FISHERS	P<0.001N**	P=0.109N	P=0.151N	P=0.052N	P<0.001N**
MAX-ISO-POLY-3	P<0.001N**	P=0.142N	P=0.155N	P=0.033N*	P<0.001N**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Di(2-ethylhexyl) Phthalate

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LEGEND

- (a) Number of tumor-bearing animals/number of animals examined at site.
 - (b) Number of tumor-bearing animals/Poly-3 number
 - (d) Observed incidence at terminal kill.
 - (e) Value of statistic cannot be computed.
 - (f) Beneath the control incidence are the P-values associated with the trend test. Beneath the dosed group incidence are the P-values corresponding to pairwise comparisons between the controls and that dosed group.
 - (g) Poly-3 adjusted lifetime tumor incidence.
 - (n) No statistics are calculated if all dose groups have fewer than two tumors.
 - (I) Interim sacrifice
 - (T) Terminal sacrifice
 - # Tumor rates based on numbers of animals necropsied.
 - * To the right of any statistical result, indicates significance at ($P \leq 0.05$).
 - ** To the right of any statistical result, indicates significance at ($P \leq 0.01$).
 - N Indicates a negative trend for all tests
- The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

*** END OF REPORT ***