

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

PFNA_Final 1

NTP Study Number: C04049
Lock Date: 01/22/2016
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.3_002
PWG Approval Date: NONE

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SUMMARY OF STATISTICALLY SIGNIFICANT ($P \leq .05$) RESULTS IN THE ANALYSIS OF PERFLUORONONANOIC ACID

MALE RATS

Organ

Bone Marrow

Epididymis

Epididymis: Duct

Epididymis: Epithelium

Kidney

Liver: Hepatocyte

Lung

Lymph Node, Mandibular

Lymph Node, Mesenteric

Nose: Olfactory Epithelium

Nose: Respiratory Epithelium

Spleen

Stomach, Forestomach

Stomach, Forestomach: Epithelium

Testes: Germinal Epithelium

Testes: Interstitial Cell

Testes: Seminiferous Tubule

Thymus

FEMALE RATS

Organ

Bone Marrow

Kidney

Liver: Hepatocyte

Morphology

Hypocellularity

Granuloma Sperm

Hypospermia

Exfoliated Germ Cell

Apoptosis

Nephropathy Chronic Progressive

Cytoplasmic Alteration

Hypertrophy

Necrosis

Vacuolization Cytoplasmic

Infiltration Cellular Mixed Cell

Atrophy

Atrophy

Degeneration

Inflammation

Inflammation Chronic

Atrophy

Inflammation Chronic

Hyperplasia

Degeneration

Atrophy

Spermatid Retention

Atrophy

Morphology

Hypocellularity

Cyst Focal

Nephropathy Chronic Progressive

Cytoplasmic Alteration

Hypertrophy

Necrosis

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Lymph Node, Mandibular
Lymph Node, Mesenteric
Nose: Olfactory Epithelium

Spleen
Stomach, Forestomach
Stomach, Forestomach: Epithelium
Thymus

Atrophy
Atrophy
Degeneration
Hyperplasia
Inflammation
Atrophy
Inflammation Chronic
Hyperplasia
Atrophy

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Bone Marrow Hypocellularity						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	10/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	10/10 (100%)	2/2 (100%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	29 (T)	24	15
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	(e)

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS

DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Epididymis						
Granuloma Sperm						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	4/10 (40%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/6.34	4/5.15
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	77.7%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/2 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	15
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	(e)	P=0.004**
POLY 6	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	(e)	P=0.043*
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Epididymis						
Hypospermia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	9/9 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	2/10.00	9/9.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	20%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	2/2 (100%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	29 (T)	24	15
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	P=0.227	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	P=0.227	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	P=0.227	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.237	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P=0.067	P<0.001**	(e)

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TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Epididymis: Duct Exfoliated Germ Cell						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	6/10 (60%)	9/9 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	6/10.00	9/9.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	60%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	6/10 (60%)	2/2 (100%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	29 (T)	24	15
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.005**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	(e)

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DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Epididymis: Epithelium Apoptosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	8/9 (89%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	8/9.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	88.9%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/2 (50%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	24	15
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P<0.001**	(e)

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DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Epididymis: Epithelium Exfoliated Germ Cell						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/9 (11%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	1/6.70	0/1.86
POLY-3 PERCENT (g)	0%	0%	0%	0%	14.9%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/2 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	25	---
STATISTICAL TESTS						
POLY 3	P=0.117	(e)	(e)	(e)	P=0.421	(e)
POLY 1.5	P=0.219	(e)	(e)	(e)	P=0.448	(e)
POLY 6	P=0.093	(e)	(e)	(e)	P=0.379	(e)
COCH-ARM / FISHERS	P=0.581	(e)	(e)	(e)	P=0.474	(e)
MAX-ISO-POLY-3	P=0.213	(e)	(e)	(e)	P=0.146	(e)

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DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Heart						
Infiltration Cellular Mixed Cell						
LESION RATES						
OVERALL (a)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	2/10.00	0/0.00	0/0.00	0/10.00	0/6.91	0/1.86
POLY-3 PERCENT (g)	20%	0%	0%	0%	0%	0%
TERMINAL (d)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/2 (0%)	0/0 (0%)
FIRST INCIDENCE	29 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	P=0.227N	P=0.320N	P=0.591N
POLY 1.5	(e)	(e)	(e)	P=0.227N	P=0.273N	P=0.444N
POLY 6	(e)	(e)	(e)	P=0.227N	P=0.405N	P=0.682N
COCH-ARM / FISHERS	P=0.110N	(e)	(e)	P=0.237N	P=0.237N	P=0.237N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.067N	P=0.149N	P=0.390N

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TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Kidney						
Cyst Focal						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/6.91	0/1.86
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/2 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)

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DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Kidney						
Nephropathy Chronic Progressive						
LESION RATES						
OVERALL (a)	8/10 (80%)	8/10 (80%)	5/10 (50%)	6/10 (60%)	4/10 (40%)	0/10 (0%)
POLY-3 RATE (b)	8/10.00	8/10.00	5/10.00	6/10.00	4/7.98	0/1.86
POLY-3 PERCENT (g)	80%	80%	50%	60%	50.1%	0%
TERMINAL (d)	8/10 (80%)	8/10 (80%)	5/10 (50%)	6/10 (60%)	1/2 (50%)	0/0 (0%)
FIRST INCIDENCE	29 (T)	29 (T)	29 (T)	29 (T)	24	---
STATISTICAL TESTS						
POLY 3	P=0.057N	P=0.702	P=0.174N	P=0.318N	P=0.188N	P=0.176N
POLY 1.5	P=0.006N**	P=0.702	P=0.174N	P=0.318N	P=0.124N	P=0.004N**
POLY 6	P=0.162N	P=0.702	P=0.174N	P=0.318N	P=0.345N	P=0.598N
COCH-ARM / FISHERS	P<0.001N**	P=0.709N	P=0.175N	P=0.314N	P=0.085N	P<0.001N**
MAX-ISO-POLY-3	P=0.102N	P=1.000	P=0.079N	P=0.171N	P=0.099N	P=0.132N

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TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Liver						
Clear Cell Focus						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/6.27	0/1.86
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/2 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)

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TERMINAL SACRIFICE AT 5 WEEKS

DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Liver						
Infiltration Cellular Mixed Cell						
LESION RATES						
OVERALL (a)	2/10 (20%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	1/9 (11%)	0/10 (0%)
POLY-3 RATE (b)	2/10.00	0/10.00	1/10.00	0/10.00	1/6.27	0/1.86
POLY-3 PERCENT (g)	20%	0%	10%	0%	16%	0%
TERMINAL (d)	2/10 (20%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	1/2 (50%)	0/0 (0%)
FIRST INCIDENCE	29 (T)	---	29 (T)	---	29 (T)	---
STATISTICAL TESTS						
POLY 3	P=0.464N	P=0.227N	P=0.500N	P=0.227N	P=0.661N	P=0.591N
POLY 1.5	P=0.395N	P=0.227N	P=0.500N	P=0.227N	P=0.604N	P=0.444N
POLY 6	P=0.466N	P=0.227N	P=0.500N	P=0.227N	P=0.703	P=0.682N
COCH-ARM / FISHERS	P=0.272N	P=0.237N	P=0.500N	P=0.237N	P=0.542N	P=0.237N
MAX-ISO-POLY-3	P=0.659N	P=0.067N	P=0.274N	P=0.067N	P=0.436N	P=0.390N

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Liver: Hepatocyte Cytoplasmic Alteration						
LESION RATES						
OVERALL (a)	0/10 (0%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	9/9 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	10/10.00	10/10.00	10/10.00	9/9.00	10/10.00
POLY-3 PERCENT (g)	0%	100%	100%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	2/2 (100%)	0/0 (0%)
FIRST INCIDENCE	---	29 (T)	29 (T)	29 (T)	24	15
STATISTICAL TESTS						
POLY 3	P=0.002**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P=0.002**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P=0.002**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P=0.002**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P<0.001**	(e)

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Liver: Hepatocyte Hypertrophy						
LESION RATES						
OVERALL (a)	0/10 (0%)	7/10 (70%)	10/10 (100%)	10/10 (100%)	9/9 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	7/10.00	10/10.00	10/10.00	9/9.00	10/10.00
POLY-3 PERCENT (g)	0%	70%	100%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	7/10 (70%)	10/10 (100%)	10/10 (100%)	2/2 (100%)	0/0 (0%)
FIRST INCIDENCE	---	29 (T)	29 (T)	29 (T)	24	15
STATISTICAL TESTS						
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.002**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	(e)	(e)	P<0.001**	(e)

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Liver: Hepatocyte Necrosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	5/10 (50%)	6/9 (67%)	9/10 (90%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	5/10.00	6/8.21	9/9.14
POLY-3 PERCENT (g)	0%	0%	10%	50%	73.1%	98.5%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	5/10 (50%)	1/2 (50%)	0/0 (0%)
FIRST INCIDENCE	---	---	29 (T)	29 (T)	24	15
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	P=0.500	P=0.008**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	P=0.500	P=0.008**	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	P=0.500	P=0.008**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.500	P=0.016*	P=0.003**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.158	P=0.002**	P<0.001**	P<0.001**

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS

DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Liver: Hepatocyte Vacuolization Cytoplasmic						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	6/10 (60%)	9/10 (90%)	0/9 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	6/10.00	9/10.00	0/6.27	0/1.86
POLY-3 PERCENT (g)	0%	0%	60%	90%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	6/10 (60%)	9/10 (90%)	0/2 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	29 (T)	29 (T)	---	---
STATISTICAL TESTS						
POLY 3	P=0.013*	(e)	P<0.001**	P<0.001**	(e)	(e)
POLY 1.5	P=0.508	(e)	P<0.001**	P<0.001**	(e)	(e)
POLY 6	P<0.001**	(e)	P<0.001**	P<0.001**	(e)	(e)
COCH-ARM / FISHERS	P=0.090N	(e)	P=0.005**	P<0.001**	(e)	(e)
MAX-ISO-POLY-3	P=0.022*	(e)	P<0.001**	P<0.001**	(e)	(e)

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Lung						
Infiltration Cellular Mixed Cell						
LESION RATES						
OVERALL (a)	3/10 (30%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	3/10.00	0/0.00	0/0.00	0/10.00	0/6.91	1/2.66
POLY-3 PERCENT (g)	30%	0%	0%	0%	0%	37.6%
TERMINAL (d)	3/10 (30%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/2 (0%)	0/0 (0%)
FIRST INCIDENCE	29 (T)	---	---	---	---	17
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	P=0.095N	P=0.175N	P=0.635
POLY 1.5	(e)	(e)	(e)	P=0.095N	P=0.132N	P=0.583N
POLY 6	(e)	(e)	(e)	P=0.095N	P=0.266N	P=0.487
COCH-ARM / FISHERS	P=0.238N	(e)	(e)	P=0.105N	P=0.105N	P=0.291N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.024N*	P=0.088N	P=0.452

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Lung: Arteriole Thrombus Focal						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00	0/6.91	0/1.86
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/2 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS

DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Lung: Artery						
Thrombus Focal						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00	1/7.34	0/1.86
POLY-3 PERCENT (g)	0%	0%	0%	0%	13.6%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/2 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	24	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.439	(e)
POLY 1.5	(e)	(e)	(e)	(e)	P=0.468	(e)
POLY 6	(e)	(e)	(e)	(e)	P=0.393	(e)
COCH-ARM / FISHERS	P=0.696	(e)	(e)	(e)	P=0.500	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.154	(e)

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Lung: Vein Thrombus						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00	0/6.91	0/1.86
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/2 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

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First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Lymph Node, Mandibular Atrophy						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	5/7 (71%)	5/10 (50%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	2/10.00	5/7.00	5/5.85
POLY-3 PERCENT (g)	0%	0%	0%	20%	71.4%	85.5%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	0/2 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	29 (T)	24	16
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	P=0.227	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	P=0.227	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	P=0.227	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.237	P=0.003**	P=0.016*
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P=0.067	P<0.001**	P<0.001**

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS

DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Lymph Node, Mesenteric Atrophy						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)	6/8 (75%)	9/10 (90%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	3/10.00	6/8.00	9/9.14
POLY-3 PERCENT (g)	0%	0%	0%	30%	75%	98.5%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)	0/2 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	29 (T)	24	15
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	P=0.095	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	P=0.095	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	P=0.095	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.105	P=0.002**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P=0.024*	P<0.001**	P<0.001**

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Nose: Olfactory Epithelium Degeneration						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	1/7.27	3/4.26
POLY-3 PERCENT (g)	0%	0%	0%	0%	13.8%	70.5%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/2 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	25	17
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P=0.437	P=0.009**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.467	P=0.025*
POLY 6	P<0.001**	(e)	(e)	(e)	P=0.391	P=0.004**
COCH-ARM / FISHERS	P=0.002**	(e)	(e)	(e)	P=0.500	P=0.105
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P=0.154	P=0.009**

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

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First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Nose: Olfactory Epithelium Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/6.91	0/1.86
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/2 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Nose: Olfactory Epithelium Inflammation						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	1/7.27	2/3.46
POLY-3 PERCENT (g)	0%	0%	0%	0%	13.8%	57.9%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/2 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	25	17
STATISTICAL TESTS						
POLY 3	P=0.005**	(e)	(e)	(e)	P=0.437	P=0.065
POLY 1.5	P=0.004**	(e)	(e)	(e)	P=0.467	P=0.107
POLY 6	P=0.009**	(e)	(e)	(e)	P=0.391	P=0.044*
COCH-ARM / FISHERS	P=0.013*	(e)	(e)	(e)	P=0.500	P=0.237
MAX-ISO-POLY-3	P=0.010**	(e)	(e)	(e)	P=0.154	P=0.044*

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Nose: Respiratory Epithelium Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/6.91	1/2.66
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	37.6%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/2 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	17
STATISTICAL TESTS						
POLY 3	P=0.169	(e)	(e)	(e)	(e)	P=0.296
POLY 1.5	P=0.090	(e)	(e)	(e)	(e)	P=0.367
POLY 6	P=0.329	(e)	(e)	(e)	(e)	P=0.253
COCH-ARM / FISHERS	P=0.105	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.069	(e)	(e)	(e)	(e)	P=0.141

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Nose: Respiratory Epithelium Inflammation Chronic						
LESION RATES						
OVERALL (a)	1/10 (10%)	5/10 (50%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	5/10.00	0/10.00	0/10.00	0/6.91	0/1.86
POLY-3 PERCENT (g)	10%	50%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	5/10 (50%)	0/10 (0%)	0/10 (0%)	0/2 (0%)	0/0 (0%)
FIRST INCIDENCE	29 (T)	29 (T)	---	---	---	---
STATISTICAL TESTS						
POLY 3	P=0.022N*	P=0.061	P=0.500N	P=0.500N	P=0.571N	P=0.714N
POLY 1.5	P=0.024N*	P=0.061	P=0.500N	P=0.500N	P=0.538N	P=0.644N
POLY 6	P=0.023N*	P=0.061	P=0.500N	P=0.500N	P=0.623N	P=0.752N
COCH-ARM / FISHERS	P=0.042N*	P=0.070	P=0.500N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.039N*	P=0.020*	P=0.158N	P=0.158N	P=0.244N	P=0.426N

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Spleen Atrophy						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	7/8 (88%)	9/10 (90%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	7/8.00	9/9.20
POLY-3 PERCENT (g)	0%	0%	0%	0%	87.5%	97.8%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/2 (50%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	24	15
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Stomach, Forestomach Inflammation Chronic						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	5/10 (50%)	0/8 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	5/10.00	0/5.70	0/1.86
POLY-3 PERCENT (g)	0%	0%	0%	50%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	5/10 (50%)	0/2 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	29 (T)	---	---
STATISTICAL TESTS						
POLY 3	P=0.039*	(e)	(e)	P=0.008**	(e)	(e)
POLY 1.5	P=0.278	(e)	(e)	P=0.008**	(e)	(e)
POLY 6	P=0.002**	(e)	(e)	P=0.008**	(e)	(e)
COCH-ARM / FISHERS	P=0.455N	(e)	(e)	P=0.016*	(e)	(e)
MAX-ISO-POLY-3	P=0.070	(e)	(e)	P=0.002**	(e)	(e)

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Stomach, Forestomach Ulcer						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	0/8 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	2/10.00	0/5.70	0/1.86
POLY-3 PERCENT (g)	0%	0%	0%	20%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	0/2 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	29 (T)	---	---
STATISTICAL TESTS						
POLY 3	P=0.261	(e)	(e)	P=0.227	(e)	(e)
POLY 1.5	P=0.471	(e)	(e)	P=0.227	(e)	(e)
POLY 6	P=0.114	(e)	(e)	P=0.227	(e)	(e)
COCH-ARM / FISHERS	P=0.595N	(e)	(e)	P=0.237	(e)	(e)
MAX-ISO-POLY-3	P=0.479	(e)	(e)	P=0.067	(e)	(e)

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Stomach, Forestomach: Epithelium Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	6/10 (60%)	6/8 (75%)	8/10 (80%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	6/10.00	6/7.57	8/8.37
POLY-3 PERCENT (g)	0%	0%	0%	60%	79.3%	95.6%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	6/10 (60%)	1/2 (50%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	29 (T)	24	15
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.005**	P=0.002**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Testes: Germinal Epithelium Degeneration						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	6/10 (60%)	9/9 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	6/10.00	9/9.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	60%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	6/10 (60%)	2/2 (100%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	29 (T)	24	15
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.005**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	(e)

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Testes: Interstitial Cell Atrophy						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	10/10 (100%)	9/9 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	10/10.00	9/9.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	10%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	10/10 (100%)	2/2 (100%)	0/0 (0%)
FIRST INCIDENCE	---	---	29 (T)	29 (T)	24	15
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	P=0.500	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	P=0.500	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	P=0.500	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.500	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.158	(e)	P<0.001**	(e)

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Testes: Seminiferous Tubule Spermatid Retention						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	6/10 (60%)	9/9 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	6/10.00	9/9.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	60%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	6/10 (60%)	2/2 (100%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	29 (T)	24	15
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.005**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	(e)

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males					
	0 mg/kg/d M	0.625mg/kg/d M	1.25 mg/kg/d M	2.5 mg/kg/d M	5 mg/kg/d M	10 mg/kg/d M
Thymus Atrophy						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	10/10 (100%)	10/10 (100%)	8/8 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	10/10.00	10/10.00	8/8.00
POLY-3 PERCENT (g)	0%	0%	0%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	10/10 (100%)	2/2 (100%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	29 (T)	24	15
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females					
	0 mg/kg/d F	1.56mg/kg/d F	3.12mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25mg/kg/d F
Bone Marrow Hypocellularity						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/1 (100%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	13	11
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	(e)

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS

DOSE	Females					
	0 mg/kg/d F	1.56mg/kg/d F	3.12mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25mg/kg/d F
Heart						
Infiltration Cellular Mixed Cell						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00	0/4.13	0/0.80
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/1 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females					
	0 mg/kg/d F	1.56mg/kg/d F	3.12mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25mg/kg/d F
Kidney						
Cyst Focal						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/4.13	1/1.66
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	60.1%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/1 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	15
STATISTICAL TESTS						
POLY 3	P=0.235	(e)	(e)	(e)	(e)	P=0.264
POLY 1.5	P=0.086	(e)	(e)	(e)	(e)	P=0.321
POLY 6	P=0.374	(e)	(e)	(e)	(e)	P=0.245
COCH-ARM / FISHERS	P=0.105	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.038*	(e)	(e)	(e)	(e)	P=0.138

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS

DOSE	Females					
	0 mg/kg/d F	1.56mg/kg/d F	3.12mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25mg/kg/d F
Kidney						
Nephropathy Chronic Progressive						
LESION RATES						
OVERALL (a)	6/10 (60%)	3/10 (30%)	5/10 (50%)	3/10 (30%)	1/10 (10%)	3/10 (30%)
POLY-3 RATE (b)	6/10.00	3/10.00	5/10.00	3/10.00	1/4.13	3/3.61
POLY-3 PERCENT (g)	60%	30%	50%	30%	24.2%	83.2%
TERMINAL (d)	6/10 (60%)	3/10 (30%)	5/10 (50%)	3/10 (30%)	1/1 (100%)	0/0 (0%)
FIRST INCIDENCE	29 (T)	29 (T)	29 (T)	29 (T)	29 (T)	11
STATISTICAL TESTS						
POLY 3	P=0.527	P=0.186N	P=0.500N	P=0.186N	P=0.290N	P=0.452
POLY 1.5	P=0.441N	P=0.186N	P=0.500N	P=0.186N	P=0.127N	P=0.690N
POLY 6	P=0.458	P=0.186N	P=0.500N	P=0.186N	P=0.480N	P=0.342
COCH-ARM / FISHERS	P=0.123N	P=0.185N	P=0.500N	P=0.185N	P=0.029N*	P=0.185N
MAX-ISO-POLY-3	P=0.218	P=0.089N	P=0.332N	P=0.089N	P=0.208N	P=0.314

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females					
	0 mg/kg/d F	1.56mg/kg/d F	3.12mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25mg/kg/d F
Liver						
Clear Cell Focus						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00	0/10.00	0/10.00	0/4.13	0/0.80
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/1 (0%)	0/0 (0%)
FIRST INCIDENCE	29 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	P=0.268N	P=0.500N	P=0.500N	P=0.500N	P=0.649N	P=0.742N
POLY 1.5	P=0.271N	P=0.500N	P=0.500N	P=0.500N	P=0.599N	P=0.688N
POLY 6	P=0.268N	P=0.500N	P=0.500N	P=0.500N	P=0.686N	P=0.759N
COCH-ARM / FISHERS	P=0.415N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.268N	P=0.158N	P=0.158N	P=0.158N	P=0.338N	P=0.466N

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS

DOSE	Females					
	0 mg/kg/d F	1.56mg/kg/d F	3.12mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25mg/kg/d F
Liver						
Infiltration Cellular Mixed Cell						
LESION RATES						
OVERALL (a)	2/10 (20%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	2/10.00	0/10.00	0/10.00	1/10.00	0/4.13	0/0.80
POLY-3 PERCENT (g)	20%	0%	0%	10%	0%	0%
TERMINAL (d)	2/10 (20%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/1 (0%)	0/0 (0%)
FIRST INCIDENCE	29 (T)	---	---	29 (T)	---	---
STATISTICAL TESTS						
POLY 3	P=0.348N	P=0.227N	P=0.227N	P=0.500N	P=0.454N	P=0.656N
POLY 1.5	P=0.272N	P=0.227N	P=0.227N	P=0.500N	P=0.364N	P=0.532N
POLY 6	P=0.396N	P=0.227N	P=0.227N	P=0.500N	P=0.529N	P=0.698N
COCH-ARM / FISHERS	P=0.209N	P=0.237N	P=0.237N	P=0.500N	P=0.237N	P=0.237N
MAX-ISO-POLY-3	P=0.346N	P=0.066N	P=0.066N	P=0.274N	P=0.269N	P=0.450N

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females					
	0 mg/kg/d F	1.56mg/kg/d F	3.12mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25mg/kg/d F
Liver: Hepatocyte Cytoplasmic Alteration						
LESION RATES						
OVERALL (a)	0/10 (0%)	5/10 (50%)	10/10 (100%)	10/10 (100%)	9/10 (90%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	5/10.00	10/10.00	10/10.00	9/9.20	0/0.80
POLY-3 PERCENT (g)	0%	50%	100%	100%	97.8%	0%
TERMINAL (d)	0/10 (0%)	5/10 (50%)	10/10 (100%)	10/10 (100%)	1/1 (100%)	0/0 (0%)
FIRST INCIDENCE	---	29 (T)	29 (T)	29 (T)	13	---
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.008**	P<0.001**	P<0.001**	P<0.001**	(e)
POLY 1.5	P<0.001**	P=0.008**	P<0.001**	P<0.001**	P<0.001**	(e)
POLY 6	P<0.001**	P=0.008**	P<0.001**	P<0.001**	P<0.001**	(e)
COCH-ARM / FISHERS	P=0.050N*	P=0.016*	P<0.001**	P<0.001**	P<0.001**	(e)
MAX-ISO-POLY-3	P<0.001**	P<0.001**	(e)	(e)	P<0.001**	(e)

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females					
	0 mg/kg/d F	1.56mg/kg/d F	3.12mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25mg/kg/d F
Liver: Hepatocyte Hypertrophy						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	2/10 (20%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	2/10.00	10/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	20%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	2/10 (20%)	10/10 (100%)	1/1 (100%)	0/0 (0%)
FIRST INCIDENCE	---	---	29 (T)	29 (T)	13	11
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	P=0.227	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	P=0.227	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	P=0.227	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.237	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.066	(e)	(e)	(e)

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females					
	0 mg/kg/d F	1.56mg/kg/d F	3.12mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25mg/kg/d F
Liver: Hepatocyte Necrosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	4/10 (40%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	4/5.71	3/3.59
POLY-3 PERCENT (g)	0%	0%	0%	0%	70.1%	83.6%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/1 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	16	12
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P=0.002**	P=0.006**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.005**	P=0.015*
POLY 6	P<0.001**	(e)	(e)	(e)	P<0.001**	P=0.004**
COCH-ARM / FISHERS	P=0.002**	(e)	(e)	(e)	P=0.043*	P=0.105
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P<0.001**	P=0.007**

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS

DOSE	Females					
	0 mg/kg/d F	1.56mg/kg/d F	3.12mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25mg/kg/d F
Liver: Hepatocyte Vacuolization Cytoplasmic						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/4.13	0/0.80
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/1 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

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First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females					
	0 mg/kg/d F	1.56mg/kg/d F	3.12mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25mg/kg/d F
Lung						
Infiltration Cellular Mixed Cell						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/10.00	0/4.13	0/0.80
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/1 (0%)	0/0 (0%)
FIRST INCIDENCE	29 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	P=0.500N	P=0.649N	P=0.742N
POLY 1.5	(e)	(e)	(e)	P=0.500N	P=0.599N	P=0.688N
POLY 6	(e)	(e)	(e)	P=0.500N	P=0.686N	P=0.759N
COCH-ARM / FISHERS	P=0.304N	(e)	(e)	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158N	P=0.338N	P=0.466N

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

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First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females					
	0 mg/kg/d F	1.56mg/kg/d F	3.12mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25mg/kg/d F
Lung: Arteriole Thrombus Focal						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00	0/4.13	1/1.66
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	60.1%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/1 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	15
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.264
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.321
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.245
COCH-ARM / FISHERS	P=0.196	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.138

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

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First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females					
	0 mg/kg/d F	1.56mg/kg/d F	3.12mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25mg/kg/d F
Lung: Artery						
Thrombus Focal						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00	0/4.13	0/0.80
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/1 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS

DOSE	Females					
	0 mg/kg/d F	1.56mg/kg/d F	3.12mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25mg/kg/d F
Lung: Vein Thrombus						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00	1/4.49	0/0.80
POLY-3 PERCENT (g)	0%	0%	0%	0%	22.3%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/1 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	25	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.356	(e)
POLY 1.5	(e)	(e)	(e)	(e)	P=0.404	(e)
POLY 6	(e)	(e)	(e)	(e)	P=0.322	(e)
COCH-ARM / FISHERS	P=0.696	(e)	(e)	(e)	P=0.500	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.148	(e)

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females					
	0 mg/kg/d F	1.56mg/kg/d F	3.12mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25mg/kg/d F
Lymph Node, Mandibular Atrophy						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	8/8 (100%)	9/9 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	8/8.00	9/9.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/1 (100%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	13	11
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P<0.001**	P<0.001**

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females					
	0 mg/kg/d F	1.56mg/kg/d F	3.12mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25mg/kg/d F
Lymph Node, Mesenteric Atrophy						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	8/9 (89%)	9/10 (90%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	8/9.00	9/9.07
POLY-3 PERCENT (g)	0%	0%	0%	0%	88.9%	99.2%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/1 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	13	11
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females					
	0 mg/kg/d F	1.56mg/kg/d F	3.12mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25mg/kg/d F
Nose: Olfactory Epithelium Degeneration						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	5/10 (50%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/4.13	5/5.38
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	92.9%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/1 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	12
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	(e)	P=0.016*
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females					
	0 mg/kg/d F	1.56mg/kg/d F	3.12mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25mg/kg/d F
Nose: Olfactory Epithelium Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/4.13	1/1.73
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	57.8%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/1 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	12
STATISTICAL TESTS						
POLY 3	P=0.222	(e)	(e)	(e)	(e)	P=0.266
POLY 1.5	P=0.082	(e)	(e)	(e)	(e)	P=0.325
POLY 6	P=0.370	(e)	(e)	(e)	(e)	P=0.245
COCH-ARM / FISHERS	P=0.105	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.038*	(e)	(e)	(e)	(e)	P=0.138

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females					
	0 mg/kg/d F	1.56mg/kg/d F	3.12mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25mg/kg/d F
Nose: Olfactory Epithelium Inflammation						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/4.13	3/3.52
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	85.2%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/1 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	12
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	(e)	P=0.005**
POLY 1.5	P<0.001**	(e)	(e)	(e)	(e)	P=0.014*
POLY 6	P<0.001**	(e)	(e)	(e)	(e)	P=0.004**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	(e)	P=0.105
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	P=0.007**

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS

DOSE	Females					
	0 mg/kg/d F	1.56mg/kg/d F	3.12mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25mg/kg/d F
Nose: Respiratory Epithelium Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/4.13	0/0.80
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/1 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females					
	0 mg/kg/d F	1.56mg/kg/d F	3.12mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25mg/kg/d F
Nose: Respiratory Epithelium Inflammation Chronic						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/4.13	0/0.80
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/1 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females					
	0 mg/kg/d F	1.56mg/kg/d F	3.12mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25mg/kg/d F
Spleen Atrophy						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	8/10 (80%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	8/9.09	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	88%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/1 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	15	11
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P<0.001**	(e)

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS

DOSE	Females					
	0 mg/kg/d F	1.56mg/kg/d F	3.12mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25mg/kg/d F
Stomach, Forestomach Inflammation Chronic						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/4.13	1/1.73
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	57.8%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/1 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	12
STATISTICAL TESTS						
POLY 3	P=0.222	(e)	(e)	(e)	(e)	P=0.266
POLY 1.5	P=0.082	(e)	(e)	(e)	(e)	P=0.325
POLY 6	P=0.370	(e)	(e)	(e)	(e)	P=0.245
COCH-ARM / FISHERS	P=0.105	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.038*	(e)	(e)	(e)	(e)	P=0.138

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS

DOSE	Females					
	0 mg/kg/d F	1.56mg/kg/d F	3.12mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25mg/kg/d F
Stomach, Forestomach Ulcer						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/4.13	0/0.80
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/1 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females					
	0 mg/kg/d F	1.56mg/kg/d F	3.12mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25mg/kg/d F
Stomach, Forestomach: Epithelium Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	7/10 (70%)	6/10 (60%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	7/8.78	6/6.39
POLY-3 PERCENT (g)	0%	0%	0%	0%	79.7%	93.9%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/1 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	13	11
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P=0.002**	P=0.005**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females					
	0 mg/kg/d F	1.56mg/kg/d F	3.12mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25mg/kg/d F
Thymus Atrophy						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	9/10 (90%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	9/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	90%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/1 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	13	11
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P<0.001**	(e)

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females					
	0 mg/kg/d F	1.56mg/kg/d F	3.12mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25mg/kg/d F
Uterus Dilation						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/10.00	0/4.13	0/0.80
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/1 (0%)	0/0 (0%)
FIRST INCIDENCE	29 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	P=0.500N	P=0.649N	P=0.742N
POLY 1.5	(e)	(e)	(e)	P=0.500N	P=0.599N	P=0.688N
POLY 6	(e)	(e)	(e)	P=0.500N	P=0.686N	P=0.759N
COCH-ARM / FISHERS	P=0.304N	(e)	(e)	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158N	P=0.338N	P=0.466N

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:36:11

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females					
	0 mg/kg/d F	1.56mg/kg/d F	3.12mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25mg/kg/d F
Uterus: Bilateral Dilation						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/10.00	0/4.13	0/0.80
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/1 (0%)	0/0 (0%)
FIRST INCIDENCE	29 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	P=0.500N	P=0.649N	P=0.742N
POLY 1.5	(e)	(e)	(e)	P=0.500N	P=0.599N	P=0.688N
POLY 6	(e)	(e)	(e)	P=0.500N	P=0.686N	P=0.759N
COCH-ARM / FISHERS	P=0.304N	(e)	(e)	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158N	P=0.338N	P=0.466N

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorononanoic Acid

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Lab: BAT

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 ***