

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

PFOA_Final 1

NTP Study Number: C91070B
Lock Date: 04/25/2016
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<=.05) RESULTS IN THE ANALYSIS OF PERFLUOROOCCTANOIC ACID

MALE RATS

Organ

Bone Marrow

Kidney

Liver

Liver: Hepatocyte

Nose: Respiratory Epithelium

Pancreas

Stomach, Forestomach: Mucosa

Testes: Sertoli Cell

Thyroid Gland: Follicular Cell

FEMALE RATS

Organ

Kidney

Kidney: Renal Tubule

Liver: Hepatocyte

Nose: Olfactory Epithelium

Nose: Respiratory Epithelium

Spleen: White Pulp

Stomach, Forestomach: Mucosa

Thymus

Thyroid Gland: Follicular Cell

Uterus

Morphology

Hemorrhage

Hypocellularity

Nephropathy Chronic Progressive

Infiltration Cellular Mixed Cell

Cytoplasmic Alteration

Hypertrophy

Hyperplasia

Inflammation Chronic

Infiltration Cellular Mixed Cell

Hyperplasia

Vacuolization Cytoplasmic

Hypertrophy

Morphology

Nephropathy Chronic Progressive

Necrosis

Regeneration

Cytoplasmic Alteration

Hypertrophy

Degeneration

Hyperplasia

Inflammation

Hyperplasia

Inflammation Chronic

Atrophy

Hyperplasia

Atrophy

Atrophy

Hypertrophy

Cyst

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TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males					
	0 mg/kg/d M	0.625 mg/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 Angiectasis						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/9 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	0/9.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	10%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/9 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	29 (T)	---	---	---
STATISTICAL TESTS						
POLY 3	P=0.558N	(e)	P=0.500	(e)	(e)	(e)
POLY 1.5	P=0.558N	(e)	P=0.500	(e)	(e)	(e)
POLY 6	P=0.558N	(e)	P=0.500	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.559N	(e)	P=0.500	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.283N	(e)	P=0.158	(e)	(e)	(e)

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TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males					
	0 mg/kg/d M	0.625 mg/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 Hemorrhage						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/9.00	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	29 (T)
STATISTICAL TESTS						
POLY 3	P=0.109	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	P=0.109	(e)	(e)	(e)	(e)	P=0.500
POLY 6	P=0.109	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.107	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.043*	(e)	(e)	(e)	(e)	P=0.158

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TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males					
	0 mg/kg/d M	0.625 mg/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)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	2/10 (20%)	6/10 (60%)
POLY-3 RATE (b)	1/10.00	0/10.00	0/10.00	0/9.00	2/10.00	6/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	20%	60%
TERMINAL (d)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	2/10 (20%)	6/10 (60%)
FIRST INCIDENCE	29 (T)	---	---	---	29 (T)	29 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.500N	P=0.500N	P=0.521N	P=0.500	P=0.018*
POLY 1.5	P<0.001**	P=0.500N	P=0.500N	P=0.521N	P=0.500	P=0.018*
POLY 6	P<0.001**	P=0.500N	P=0.500N	P=0.521N	P=0.500	P=0.018*
COCH-ARM / FISHERS	P<0.001**	P=0.500N	P=0.500N	P=0.526N	P=0.500	P=0.029*
MAX-ISO-POLY-3	P<0.001**	P=0.158N	P=0.158N	P=0.178N	P=0.274	P=0.004**

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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	0.625 mg/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%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	1/10 (10%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00	1/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	1/10 (10%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	29 (T)	29 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.500	P=0.500
POLY 1.5	(e)	(e)	(e)	(e)	P=0.500	P=0.500
POLY 6	(e)	(e)	(e)	(e)	P=0.500	P=0.500
COCH-ARM / FISHERS	P=0.231	(e)	(e)	(e)	P=0.500	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.158	P=0.158

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DOSE	Males					
	0 mg/kg/d M	0.625 mg/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%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	1/10 (10%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00	1/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	1/10 (10%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	29 (T)	29 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.500	P=0.500
POLY 1.5	(e)	(e)	(e)	(e)	P=0.500	P=0.500
POLY 6	(e)	(e)	(e)	(e)	P=0.500	P=0.500
COCH-ARM / FISHERS	P=0.231	(e)	(e)	(e)	P=0.500	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.158	P=0.158

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TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males					
	0 mg/kg/d M	0.625 mg/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
Esophagus Fibrosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (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	0.625 mg/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
Esophagus						
Inflammation Histiocytic						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (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	0.625 mg/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
<hr/>						
Heart						
Cardiomyopathy						
<hr/>						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	29 (T)	---	---	---	---	---
<hr/>						
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.304N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158N

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DOSE	Males					
	0 mg/kg/d M	0.625 mg/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)	9/10 (90%)	9/10 (90%)	3/10 (30%)	6/10 (60%)	9/10 (90%)	6/10 (60%)
POLY-3 RATE (b)	9/10.00	9/10.00	3/10.00	6/10.00	9/10.00	6/10.00
POLY-3 PERCENT (g)	90%	90%	30%	60%	90%	60%
TERMINAL (d)	9/10 (90%)	9/10 (90%)	3/10 (30%)	6/10 (60%)	9/10 (90%)	6/10 (60%)
FIRST INCIDENCE	29 (T)	29 (T)	29 (T)	29 (T)	29 (T)	29 (T)
STATISTICAL TESTS						
POLY 3	P=0.369N	P=0.760	P=0.003N**	P=0.148N	P=0.760	P=0.148N
POLY 1.5	P=0.369N	P=0.760	P=0.003N**	P=0.148N	P=0.760	P=0.148N
POLY 6	P=0.369N	P=0.760	P=0.003N**	P=0.148N	P=0.760	P=0.148N
COCH-ARM / FISHERS	P=0.379N	P=0.763N	P=0.010N**	P=0.152N	P=0.763N	P=0.152N
MAX-ISO-POLY-3	P=0.055N	P=1.000	P<0.001N**	P=0.058N	P=1.000	P=0.058N

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TERMINAL SACRIFICE AT 5 WEEKS**

	Males					
DOSE	0 mg/kg/d M	0.625 mg/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: Renal Tubule
Necrosis**

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	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (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	0.625 mg/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: Renal Tubule Regeneration						
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	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (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	0.625 mg/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
<hr/>						
Liver						
Clear Cell Focus						
<hr/>						
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	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
<hr/>						
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: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Males					
	0 mg/kg/d M	0.625 mg/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)	4/10 (40%)	0/10 (0%)	3/10 (30%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	4/10.00	0/10.00	3/10.00	0/10.00	0/10.00	1/10.00
POLY-3 PERCENT (g)	40%	0%	30%	0%	0%	10%
TERMINAL (d)	4/10 (40%)	0/10 (0%)	3/10 (30%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	29 (T)	---	29 (T)	---	---	29 (T)
STATISTICAL TESTS						
POLY 3	P=0.127N	P=0.033N*	P=0.500N	P=0.033N*	P=0.033N*	P=0.148N
POLY 1.5	P=0.127N	P=0.033N*	P=0.500N	P=0.033N*	P=0.033N*	P=0.148N
POLY 6	P=0.127N	P=0.033N*	P=0.500N	P=0.033N*	P=0.033N*	P=0.148N
COCH-ARM / FISHERS	P=0.144N	P=0.043N*	P=0.500N	P=0.043N*	P=0.043N*	P=0.152N
MAX-ISO-POLY-3	P=0.005N**	P=0.007N**	P=0.325N	P=0.007N**	P=0.007N**	P=0.058N

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Males					
	0 mg/kg/d M	0.625 mg/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%)	4/10 (40%)	9/10 (90%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	4/10.00	9/10.00	10/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	40%	90%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	4/10 (40%)	9/10 (90%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	29 (T)	29 (T)	29 (T)	29 (T)	29 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.033*	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.033*	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.033*	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.043*	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.007**	P<0.001**	(e)	(e)	(e)

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Males					
	0 mg/kg/d M	0.625 mg/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%)	0/10 (0%)	6/10 (60%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	6/10.00	10/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	60%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	6/10 (60%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	---	29 (T)	29 (T)	29 (T)	29 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.005**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	P<0.001**	(e)	(e)	(e)

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

	Males					
DOSE	0 mg/kg/d M	0.625 mg/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 Focal

LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	1/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	29 (T)	---

STATISTICAL TESTS						
POLY 3	P=0.584	(e)	(e)	(e)	P=0.500	(e)
POLY 1.5	P=0.584	(e)	(e)	(e)	P=0.500	(e)
POLY 6	P=0.584	(e)	(e)	(e)	P=0.500	(e)
COCH-ARM / FISHERS	P=0.585	(e)	(e)	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.193	(e)	(e)	(e)	P=0.158	(e)

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Males					
	0 mg/kg/d M	0.625 mg/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 Fibrosis Focal						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (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: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Males					
	0 mg/kg/d M	0.625 mg/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)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (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: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Males					
	0 mg/kg/d M	0.625 mg/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						
Inflammation Granulomatous						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	29 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.304N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158N

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Males					
	0 mg/kg/d M	0.625 mg/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 Inflammation Histiocytic						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	29 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.304N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158N

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

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First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Males					
	0 mg/kg/d M	0.625 mg/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%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (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: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

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First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

	Males					
DOSE	0 mg/kg/d M	0.625 mg/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
Infiltration Cellular Histiocyte

LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (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: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

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First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Males					
	0 mg/kg/d M	0.625 mg/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: Lymphocyte Apoptosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (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: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

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 5 WEEKS**

DOSE	Males					
	0 mg/kg/d M	0.625 mg/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%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (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: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Males					
	0 mg/kg/d M	0.625 mg/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	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (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: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Males					
	0 mg/kg/d M	0.625 mg/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%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (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: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Males					
	0 mg/kg/d M	0.625 mg/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%)	4/10 (40%)	2/10 (20%)	3/10 (30%)	5/10 (50%)	4/10 (40%)
POLY-3 RATE (b)	0/10.00	4/10.00	2/10.00	3/10.00	5/10.00	4/10.00
POLY-3 PERCENT (g)	0%	40%	20%	30%	50%	40%
TERMINAL (d)	0/10 (0%)	4/10 (40%)	2/10 (20%)	3/10 (30%)	5/10 (50%)	4/10 (40%)
FIRST INCIDENCE	---	29 (T)	29 (T)	29 (T)	29 (T)	29 (T)
STATISTICAL TESTS						
POLY 3	P=0.080	P=0.033*	P=0.227	P=0.095	P=0.008**	P=0.033*
POLY 1.5	P=0.080	P=0.033*	P=0.227	P=0.095	P=0.008**	P=0.033*
POLY 6	P=0.080	P=0.033*	P=0.227	P=0.095	P=0.008**	P=0.033*
COCH-ARM / FISHERS	P=0.083	P=0.043*	P=0.237	P=0.105	P=0.016*	P=0.043*
MAX-ISO-POLY-3	P=0.013*	P=0.007**	P=0.066	P=0.025*	P<0.001**	P=0.007**

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Males					
	0 mg/kg/d M	0.625 mg/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)	0/10 (0%)	5/10 (50%)	3/10 (30%)	2/10 (20%)	5/10 (50%)	4/10 (40%)
POLY-3 RATE (b)	0/10.00	5/10.00	3/10.00	2/10.00	5/10.00	4/10.00
POLY-3 PERCENT (g)	0%	50%	30%	20%	50%	40%
TERMINAL (d)	0/10 (0%)	5/10 (50%)	3/10 (30%)	2/10 (20%)	5/10 (50%)	4/10 (40%)
FIRST INCIDENCE	---	29 (T)	29 (T)	29 (T)	29 (T)	29 (T)
STATISTICAL TESTS						
POLY 3	P=0.140	P=0.008**	P=0.095	P=0.227	P=0.008**	P=0.033*
POLY 1.5	P=0.140	P=0.008**	P=0.095	P=0.227	P=0.008**	P=0.033*
POLY 6	P=0.140	P=0.008**	P=0.095	P=0.227	P=0.008**	P=0.033*
COCH-ARM / FISHERS	P=0.146	P=0.016*	P=0.105	P=0.237	P=0.016*	P=0.043*
MAX-ISO-POLY-3	P=0.013*	P<0.001**	P=0.025*	P=0.066	P<0.001**	P=0.007**

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Males					
	0 mg/kg/d M	0.625 mg/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
Pancreas						
Infiltration Cellular Mixed Cell						
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	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	29 (T)
STATISTICAL TESTS						
POLY 3	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 6	P=0.107	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.105	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.041*	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

	Males					
DOSE	0 mg/kg/d M	0.625 mg/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
Pancreas						
Inflammation Chronic						
<hr/>						
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	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
<hr/>						
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: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

	Males					
DOSE	0 mg/kg/d M	0.625 mg/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
<hr/>						
Spleen: White Pulp Atrophy						
<hr/>						
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	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
<hr/>						
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: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Males					
	0 mg/kg/d M	0.625 mg/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: Mucosa Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	1/1 (100%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	1/1.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	100%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	1/1 (100%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	29 (T)	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	P=0.091	(e)	(e)	(e)	(e)
POLY 1.5	(e)	P=0.091	(e)	(e)	(e)	(e)
POLY 6	(e)	P=0.091	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.366N	P=0.091	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	P<0.001**	(e)	(e)	(e)	(e)

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Males					
	0 mg/kg/d M	0.625 mg/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%)	0/10 (0%)	1/10 (10%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	1/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	29 (T)	29 (T)
STATISTICAL TESTS						
POLY 3	P=0.107	(e)	(e)	(e)	P=0.500	P=0.500
POLY 1.5	P=0.107	(e)	(e)	(e)	P=0.500	P=0.500
POLY 6	P=0.107	(e)	(e)	(e)	P=0.500	P=0.500
COCH-ARM / FISHERS	P=0.103	(e)	(e)	(e)	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.106	(e)	(e)	(e)	P=0.158	P=0.158

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

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First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Males					
	0 mg/kg/d M	0.625 mg/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: Sertoli Cell Vacuolization Cytoplasmic						
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	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	29 (T)
STATISTICAL TESTS						
POLY 3	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 6	P=0.107	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.105	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.041*	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Males					
	0 mg/kg/d M	0.625 mg/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%)	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	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (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: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

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First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

	Males					
DOSE	0 mg/kg/d M	0.625 mg/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

Thyroid Gland: Follicular Cell Atrophy

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	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (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: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Males					
	0 mg/kg/d M	0.625 mg/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
Thyroid Gland: Follicular Cell Hypertrophy						
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	0/10.00	3/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	30%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)
FIRST INCIDENCE	---	---	---	---	---	29 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	(e)	P=0.095
POLY 1.5	P<0.001**	(e)	(e)	(e)	(e)	P=0.095
POLY 6	P<0.001**	(e)	(e)	(e)	(e)	P=0.095
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=0.025*

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Bone Marrow						
Angiectasis						
<hr/>						
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	0/10.00	0/9.02
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
<hr/>						
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: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Bone Marrow Hemorrhage						
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	0/10.00	0/9.02
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (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: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Bone Marrow Hypocellularity						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	1/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/9 (0%)
FIRST INCIDENCE	---	---	---	---	29 (T)	8
STATISTICAL TESTS						
POLY 3	P=0.107	(e)	(e)	(e)	P=0.500	P=0.500
POLY 1.5	P=0.107	(e)	(e)	(e)	P=0.500	P=0.500
POLY 6	P=0.107	(e)	(e)	(e)	P=0.500	P=0.500
COCH-ARM / FISHERS	P=0.103	(e)	(e)	(e)	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.106	(e)	(e)	(e)	P=0.158	P=0.158

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Esophagus Fibrosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/9.02
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	11.1%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/9 (11%)
FIRST INCIDENCE	---	---	---	---	---	29 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.479
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.482
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.479
COCH-ARM / FISHERS	P=0.304	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.157

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Esophagus						
Inflammation Histiocytic						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/9.02
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	11.1%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/9 (11%)
FIRST INCIDENCE	---	---	---	---	---	29 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.479
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.482
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.479
COCH-ARM / FISHERS	P=0.304	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.157

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Heart						
Cardiomyopathy						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/9.02
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/9 (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: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Kidney						
Nephropathy Chronic Progressive						
LESION RATES						
OVERALL (a)	5/10 (50%)	3/10 (30%)	2/10 (20%)	1/10 (10%)	5/10 (50%)	4/10 (40%)
POLY-3 RATE (b)	5/10.00	3/10.00	2/10.00	1/10.00	5/10.00	4/9.02
POLY-3 PERCENT (g)	50%	30%	20%	10%	50%	44.3%
TERMINAL (d)	5/10 (50%)	3/10 (30%)	2/10 (20%)	1/10 (10%)	5/10 (50%)	4/9 (44%)
FIRST INCIDENCE	29 (T)	29 (T)	29 (T)	29 (T)	29 (T)	29 (T)
STATISTICAL TESTS						
POLY 3	P=0.281	P=0.329N	P=0.174N	P=0.061N	P=0.664	P=0.580N
POLY 1.5	P=0.290	P=0.329N	P=0.174N	P=0.061N	P=0.664	P=0.570N
POLY 6	P=0.280	P=0.329N	P=0.174N	P=0.061N	P=0.664	P=0.582N
COCH-ARM / FISHERS	P=0.351	P=0.325N	P=0.175N	P=0.070N	P=0.672N	P=0.500N
MAX-ISO-POLY-3	P=0.196	P=0.188N	P=0.079N	P=0.020N*	P=1.000	P=0.409N

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Kidney: Renal Tubule Necrosis						
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	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)
FIRST INCIDENCE	---	---	---	---	---	8
STATISTICAL TESTS						
POLY 3	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 6	P=0.107	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.105	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.041*	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Kidney: Renal Tubule Regeneration						
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	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)
FIRST INCIDENCE	---	---	---	---	---	8
STATISTICAL TESTS						
POLY 3	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 6	P=0.107	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.105	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.041*	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Liver						
Clear Cell Focus						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	0/10.00	0/10.00	0/9.02
POLY-3 PERCENT (g)	0%	0%	10%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/9 (0%)
FIRST INCIDENCE	---	---	29 (T)	---	---	---
STATISTICAL TESTS						
POLY 3	P=0.549N	(e)	P=0.500	(e)	(e)	(e)
POLY 1.5	P=0.551N	(e)	P=0.500	(e)	(e)	(e)
POLY 6	P=0.549N	(e)	P=0.500	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.561N	(e)	P=0.500	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.300N	(e)	P=0.158	(e)	(e)	(e)

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Liver						
Infiltration Cellular Mixed Cell						
LESION RATES						
OVERALL (a)	1/10 (10%)	1/10 (10%)	1/10 (10%)	1/10 (10%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	1/10.00	1/10.00	1/10.00	1/10.00	0/9.02
POLY-3 PERCENT (g)	10%	10%	10%	10%	10%	0%
TERMINAL (d)	1/10 (10%)	1/10 (10%)	1/10 (10%)	1/10 (10%)	1/10 (10%)	0/9 (0%)
FIRST INCIDENCE	29 (T)	29 (T)	29 (T)	29 (T)	29 (T)	---
STATISTICAL TESTS						
POLY 3	P=0.312N	P=0.760	P=0.760	P=0.760	P=0.760	P=0.520N
POLY 1.5	P=0.309N	P=0.760	P=0.760	P=0.760	P=0.760	P=0.518N
POLY 6	P=0.312N	P=0.760	P=0.760	P=0.760	P=0.760	P=0.521N
COCH-ARM / FISHERS	P=0.280N	P=0.763N	P=0.763N	P=0.763N	P=0.763N	P=0.500N
MAX-ISO-POLY-3	P=0.242N	P=1.000	P=1.000	P=1.000	P=1.000	P=0.184N

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Liver: Hepatocyte Cytoplasmic Alteration						
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%)	10/10 (100%)	9/9 (100%)
FIRST INCIDENCE	---	---	---	29 (T)	29 (T)	8
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)

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Liver: Hepatocyte Hypertrophy						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	2/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	20%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	9/9 (100%)
FIRST INCIDENCE	---	---	---	---	29 (T)	8
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P=0.227	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.227	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P=0.227	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P=0.237	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P=0.066	(e)

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Liver: Hepatocyte Necrosis 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	0/10.00	0/9.02
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (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: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Lung						
Fibrosis Focal						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/9.02
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	11.1%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/9 (11%)
FIRST INCIDENCE	---	---	---	---	---	29 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.479
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.482
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.479
COCH-ARM / FISHERS	P=0.304	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.157

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Lung						
Infiltration Cellular Mixed Cell						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	2/9.02
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	22.2%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	2/9 (22%)
FIRST INCIDENCE	---	---	---	---	---	29 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.202
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.205
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.202
COCH-ARM / FISHERS	P=0.132	(e)	(e)	(e)	(e)	P=0.237
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.064

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Lung						
Inflammation Granulomatous						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/9.02
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/9 (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: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Lung						
Inflammation Histiocytic						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/9.02
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/9 (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: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Lymph Node, Mesenteric Atrophy						
LESION RATES						
OVERALL (a)	0/9 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/9.00	0/0.00	0/0.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/9 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	---	---	---	---	---	8
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.521
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.521
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.521
COCH-ARM / FISHERS	P=0.323	(e)	(e)	(e)	(e)	P=0.526
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.178

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Lymph Node, Mesenteric Infiltration Cellular Histiocyte						
LESION RATES						
OVERALL (a)	0/9 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/9.00	0/0.00	0/0.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/9 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	---	---	---	---	---	8
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.521
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.521
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.521
COCH-ARM / FISHERS	P=0.323	(e)	(e)	(e)	(e)	P=0.526
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.178

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Lymph Node, Mesenteric: Lymphocyte Apoptosis						
LESION RATES						
OVERALL (a)	0/9 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/9.00	0/0.00	0/0.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/9 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	---	---	---	---	---	8
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.521
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.521
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.521
COCH-ARM / FISHERS	P=0.323	(e)	(e)	(e)	(e)	P=0.526
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.178

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Nose: Olfactory Epithelium Degeneration						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	8/10 (80%)	9/10 (90%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	2/10.00	8/10.00	9/10.00
POLY-3 PERCENT (g)	0%	0%	0%	20%	80%	90%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	8/10 (80%)	8/9 (89%)
FIRST INCIDENCE	---	---	---	29 (T)	29 (T)	8
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=0.066	P<0.001**	P<0.001**

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Nose: Olfactory Epithelium Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	8/10 (80%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	2/10.00	8/10.00	0/9.02
POLY-3 PERCENT (g)	0%	0%	0%	20%	80%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	8/10 (80%)	0/9 (0%)
FIRST INCIDENCE	---	---	---	29 (T)	29 (T)	---
STATISTICAL TESTS						
POLY 3	P=0.018*	(e)	(e)	P=0.227	P<0.001**	(e)
POLY 1.5	P=0.021*	(e)	(e)	P=0.227	P<0.001**	(e)
POLY 6	P=0.018*	(e)	(e)	P=0.227	P<0.001**	(e)
COCH-ARM / FISHERS	P=0.151	(e)	(e)	P=0.237	P<0.001**	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P=0.066	P<0.001**	(e)

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Nose: Olfactory Epithelium Inflammation						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	6/10 (60%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	1/10.00	6/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	60%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	5/9 (56%)
FIRST INCIDENCE	---	---	---	---	29 (T)	8
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P=0.500	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.500	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P=0.500	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P=0.500	P=0.005**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P=0.158	P<0.001**

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Nose: Respiratory Epithelium Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	4/10 (40%)	0/10 (0%)	3/10 (30%)	8/10 (80%)
POLY-3 RATE (b)	0/10.00	0/10.00	4/10.00	0/10.00	3/10.00	8/9.02
POLY-3 PERCENT (g)	0%	0%	40%	0%	30%	88.7%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	4/10 (40%)	0/10 (0%)	3/10 (30%)	8/9 (89%)
FIRST INCIDENCE	---	---	29 (T)	---	29 (T)	29 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	P=0.033*	(e)	P=0.095	P<0.001**
POLY 1.5	P<0.001**	(e)	P=0.033*	(e)	P=0.095	P<0.001**
POLY 6	P<0.001**	(e)	P=0.033*	(e)	P=0.095	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.043*	(e)	P=0.105	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.007**	(e)	P=0.025*	P<0.001**

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Nose: Respiratory Epithelium Inflammation Chronic						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	4/10 (40%)	1/10 (10%)	6/10 (60%)	9/10 (90%)
POLY-3 RATE (b)	0/10.00	0/10.00	4/10.00	1/10.00	6/10.00	9/10.00
POLY-3 PERCENT (g)	0%	0%	40%	10%	60%	90%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	4/10 (40%)	1/10 (10%)	6/10 (60%)	8/9 (89%)
FIRST INCIDENCE	---	---	29 (T)	29 (T)	29 (T)	8
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	P=0.033*	P=0.500	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	P=0.033*	P=0.500	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	P=0.033*	P=0.500	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.043*	P=0.500	P=0.005**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.007**	P=0.158	P<0.001**	P<0.001**

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Pancreas						
Infiltration Cellular Mixed Cell						
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	0/10.00	0/9.02
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (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: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

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First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Pancreas						
Inflammation Chronic						
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	0/10.00	0/9.02
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)
FIRST INCIDENCE	29 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	P=0.395N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.520N
POLY 1.5	P=0.398N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.518N
POLY 6	P=0.395N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.521N
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=0.059N	P=0.158N	P=0.158N	P=0.158N	P=0.158N	P=0.184N

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Spleen: White Pulp Atrophy						
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	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)
FIRST INCIDENCE	---	---	---	---	---	8
STATISTICAL TESTS						
POLY 3	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 6	P=0.107	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.105	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.041*	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

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First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Stomach, Forestomach: Mucosa 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	0/10.00	1/9.02
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	11.1%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/9 (11%)
FIRST INCIDENCE	---	---	---	---	---	29 (T)
STATISTICAL TESTS						
POLY 3	P=0.098	(e)	(e)	(e)	(e)	P=0.479
POLY 1.5	P=0.099	(e)	(e)	(e)	(e)	P=0.482
POLY 6	P=0.098	(e)	(e)	(e)	(e)	P=0.479
COCH-ARM / FISHERS	P=0.105	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.041*	(e)	(e)	(e)	(e)	P=0.157

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Thymus Atrophy						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/9 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/9.00	0/10.00	0/10.00	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/9 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)
FIRST INCIDENCE	---	---	---	---	---	8
STATISTICAL TESTS						
POLY 3	P=0.110	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	P=0.110	(e)	(e)	(e)	(e)	P=0.500
POLY 6	P=0.110	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.108	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.043*	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Thyroid Gland: Follicular Cell Atrophy						
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	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)
FIRST INCIDENCE	---	---	---	---	---	8
STATISTICAL TESTS						
POLY 3	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 6	P=0.107	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.105	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.041*	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Thyroid Gland: Follicular Cell Hypertrophy						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	8/10 (80%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	1/10.00	8/9.02
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	88.7%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	8/9 (89%)
FIRST INCIDENCE	---	---	---	---	29 (T)	29 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P=0.500	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.500	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P=0.500	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P=0.500	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P=0.158	P<0.001**

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

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First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

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

DOSE	Females					
	0 mg/kg/d F	6.25mg/kg/d F	12.5mg/kg/d F	25 mg/kg/d F	50 mg/kg/d F	100 mg/kg/d F
Uterus Cyst						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	1/1 (100%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	1/1.00	0/0.00	0/0.00	0/9.02
POLY-3 PERCENT (g)	0%	0%	100%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	1/1 (100%)	0/0 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	---	---	29 (T)	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	P=0.091	(e)	(e)	(e)
POLY 1.5	(e)	(e)	P=0.091	(e)	(e)	(e)
POLY 6	(e)	(e)	P=0.091	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.412N	(e)	P=0.091	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	P<0.001**	(e)	(e)	(e)

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic 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 ***