

Experiment Number: 20617 - 01
Test Type: 28-DAY
Route: GAVAGE
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:39:02

First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

PFOS_Final 1

NTP Study Number: C20617
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 ($P \leq .05$) RESULTS IN THE ANALYSIS OF PERFLUOROOCTANE SULFONATE

MALE RATS

Organ

Bone Marrow

Kidney

Liver

Liver: Hepatocyte

Nose: Respiratory Epithelium

Spleen

FEMALE RATS

Organ

Bone Marrow

Liver

Liver: Hepatocyte

Spleen

Morphology

Hypocellularity

Nephropathy Chronic Progressive

Inflammation Focal Granulomatous

Hypertrophy

Vacuolization Cytoplasmic

Hyperplasia

Inflammation Chronic

Extramedullary Hematopoiesis Decreased

Morphology

Hypocellularity

Congestion Diffuse

Infiltration Cellular Mixed Cell

Cytoplasmic Alteration

Hypertrophy

Necrosis Diffuse

Extramedullary Hematopoiesis Decreased

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

DOSE	Males					
	0mg/kg/d M	.312mg/kg/d M	.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M	5mg/kg/d M
Bone Marrow Hypocellularity						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	5/10 (50%)	4/10 (40%)	8/10 (80%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	5/10.00	4/10.00	8/10.00
POLY-3 PERCENT (g)	0%	0%	0%	50%	40%	80%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	5/10 (50%)	4/10 (40%)	8/10 (80%)
FIRST INCIDENCE	---	---	---	29 (T)	29 (T)	29 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	P=0.008**	P=0.033*	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	P=0.008**	P=0.033*	P<0.001**
POLY 6	P<0.001**	(e)	(e)	P=0.008**	P=0.033*	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.016*	P=0.043*	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P<0.001**	P=0.007**	P<0.001**

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DOSE	Males					
	0mg/kg/d M	.312mg/kg/d M	.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M	5mg/kg/d M
Esophagus Degeneration						
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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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 5 WEEKS**

	Males					
DOSE	0mg/kg/d M	.312mg/kg/d M	.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M	5mg/kg/d M
<hr/>						
Esophagus						
Inflammation Chronic						
<hr/>						
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	---	---	---	---	---	---
<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)

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DOSE	Males					
	0mg/kg/d M	.312mg/kg/d M	.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M	5mg/kg/d M
Heart						
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)

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DOSE	Males					
	0mg/kg/d M	.312mg/kg/d M	.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M	5mg/kg/d M
Heart: Epicardium Infiltration Cellular Mononuclear Cell						
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

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DOSE	Males					
	0mg/kg/d M	.312mg/kg/d M	.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M	5mg/kg/d M
Kidney						
Nephropathy Chronic Progressive						
LESION RATES						
OVERALL (a)	9/10 (90%)	8/10 (80%)	6/10 (60%)	8/10 (80%)	4/10 (40%)	5/10 (50%)
POLY-3 RATE (b)	9/10.00	8/10.00	6/10.00	8/10.00	4/10.00	5/10.00
POLY-3 PERCENT (g)	90%	80%	60%	80%	40%	50%
TERMINAL (d)	9/10 (90%)	8/10 (80%)	6/10 (60%)	8/10 (80%)	4/10 (40%)	5/10 (50%)
FIRST INCIDENCE	29 (T)	29 (T)	29 (T)	29 (T)	29 (T)	29 (T)
STATISTICAL TESTS						
POLY 3	P=0.024N*	P=0.500N	P=0.148N	P=0.500N	P=0.018N*	P=0.061N
POLY 1.5	P=0.024N*	P=0.500N	P=0.148N	P=0.500N	P=0.018N*	P=0.061N
POLY 6	P=0.024N*	P=0.500N	P=0.148N	P=0.500N	P=0.018N*	P=0.061N
COCH-ARM / FISHERS	P=0.027N*	P=0.500N	P=0.152N	P=0.500N	P=0.029N*	P=0.070N
MAX-ISO-POLY-3	P=0.014N*	P=0.274N	P=0.058N	P=0.274N	P=0.004N**	P=0.020N*

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DOSE	Males					
	0mg/kg/d M	.312mg/kg/d M	.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M	5mg/kg/d M
Kidney: Renal Tubule Mineral						
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					
	0mg/kg/d M	.312mg/kg/d M	.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M	5mg/kg/d M
Liver						
Clear Cell Focus						
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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	Males					
DOSE	0mg/kg/d M	.312mg/kg/d M	.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M	5mg/kg/d M
<hr/>						
Liver						
Congestion Diffuse						
<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)

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DOSE	Males					
	0mg/kg/d M	.312mg/kg/d M	.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M	5mg/kg/d M
Liver						
Infiltration Cellular Mixed Cell						
LESION RATES						
OVERALL (a)	1/10 (10%)	4/10 (40%)	1/10 (10%)	0/10 (0%)	3/10 (30%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	4/10.00	1/10.00	0/10.00	3/10.00	0/10.00
POLY-3 PERCENT (g)	10%	40%	10%	0%	30%	0%
TERMINAL (d)	1/10 (10%)	4/10 (40%)	1/10 (10%)	0/10 (0%)	3/10 (30%)	0/10 (0%)
FIRST INCIDENCE	29 (T)	29 (T)	29 (T)	---	29 (T)	---
STATISTICAL TESTS						
POLY 3	P=0.194N	P=0.148	P=0.760	P=0.500N	P=0.292	P=0.500N
POLY 1.5	P=0.194N	P=0.148	P=0.760	P=0.500N	P=0.292	P=0.500N
POLY 6	P=0.194N	P=0.148	P=0.760	P=0.500N	P=0.292	P=0.500N
COCH-ARM / FISHERS	P=0.205N	P=0.152	P=0.763N	P=0.500N	P=0.291	P=0.500N
MAX-ISO-POLY-3	P=0.051N	P=0.058	P=1.000	P=0.158N	P=0.136	P=0.158N

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DOSE	Males					
	0mg/kg/d M	.312mg/kg/d M	.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M	5mg/kg/d M
Liver						
Inflammation Focal Granulomatous						
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

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DOSE	Males					
	0mg/kg/d M	.312mg/kg/d M	.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M	5mg/kg/d M
<hr/>						
Liver: Hepatocyte						
Cytoplasmic Alteration						
<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: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:39:02

First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Males					
	0mg/kg/d M	.312mg/kg/d M	.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M	5mg/kg/d M
Liver: Hepatocyte Hypertrophy						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)	8/10 (80%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	3/10.00	8/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	30%	80%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)	8/10 (80%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	29 (T)	29 (T)	29 (T)
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<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P=0.025*	P<0.001**	(e)

Experiment Number: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:39:02

First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Males					
	0mg/kg/d M	.312mg/kg/d M	.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M	5mg/kg/d M
Liver: Hepatocyte Necrosis Diffuse						
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: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:39:02

First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Males					
	0mg/kg/d M	.312mg/kg/d M	.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M	5mg/kg/d M
Liver: Hepatocyte Vacuolization Cytoplasmic						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	4/10 (40%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	2/10.00	4/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	20%	40%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	4/10 (40%)
FIRST INCIDENCE	---	---	---	---	29 (T)	29 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P=0.227	P=0.033*
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.227	P=0.033*
POLY 6	P<0.001**	(e)	(e)	(e)	P=0.227	P=0.033*
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P=0.237	P=0.043*
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P=0.066	P=0.007**

Experiment Number: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:39:02

First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Males					
	0mg/kg/d M	.312mg/kg/d M	.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M	5mg/kg/d M
Lung						
Inflammation Focal 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	0/10.00
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: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:39:02

First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Males					
	0mg/kg/d M	.312mg/kg/d M	.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M	5mg/kg/d M
Lung: Alveolus Infiltration Cellular Mixed Cell						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	10%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	29 (T)	---	---	---	---	29 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.760
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.760
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.760
COCH-ARM / FISHERS	P=0.645	(e)	(e)	(e)	(e)	P=0.763N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=1.000

Experiment Number: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:39:02

First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Males					
	0mg/kg/d M	.312mg/kg/d M	.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M	5mg/kg/d M
Nose: Respiratory Epithelium						
Fibrosis 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: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:39:02

First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Males					
	0mg/kg/d M	.312mg/kg/d M	.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M	5mg/kg/d M
Nose: Respiratory Epithelium Hyperplasia						
LESION RATES						
OVERALL (a)	3/10 (30%)	0/10 (0%)	6/10 (60%)	4/10 (40%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	3/10.00	0/10.00	6/10.00	4/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	30%	0%	60%	40%	0%	0%
TERMINAL (d)	3/10 (30%)	0/10 (0%)	6/10 (60%)	4/10 (40%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	29 (T)	---	29 (T)	29 (T)	---	---
STATISTICAL TESTS						
POLY 3	P=0.010N**	P=0.095N	P=0.186	P=0.500	P=0.095N	P=0.095N
POLY 1.5	P=0.010N**	P=0.095N	P=0.186	P=0.500	P=0.095N	P=0.095N
POLY 6	P=0.010N**	P=0.095N	P=0.186	P=0.500	P=0.095N	P=0.095N
COCH-ARM / FISHERS	P=0.022N*	P=0.105N	P=0.185	P=0.500	P=0.105N	P=0.105N
MAX-ISO-POLY-3	P=0.010N**	P=0.025N*	P=0.089	P=0.325	P=0.025N*	P=0.025N*

Experiment Number: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:39:02

First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Males					
	0mg/kg/d M	.312mg/kg/d M	.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M	5mg/kg/d M
Nose: Respiratory Epithelium Inflammation Chronic						
LESION RATES						
OVERALL (a)	4/10 (40%)	0/10 (0%)	5/10 (50%)	5/10 (50%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	4/10.00	0/10.00	5/10.00	5/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	40%	0%	50%	50%	0%	0%
TERMINAL (d)	4/10 (40%)	0/10 (0%)	5/10 (50%)	5/10 (50%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	29 (T)	---	29 (T)	29 (T)	---	---
STATISTICAL TESTS						
POLY 3	P=0.007N**	P=0.033N*	P=0.500	P=0.500	P=0.033N*	P=0.033N*
POLY 1.5	P=0.007N**	P=0.033N*	P=0.500	P=0.500	P=0.033N*	P=0.033N*
POLY 6	P=0.007N**	P=0.033N*	P=0.500	P=0.500	P=0.033N*	P=0.033N*
COCH-ARM / FISHERS	P=0.017N*	P=0.043N*	P=0.500	P=0.500	P=0.043N*	P=0.043N*
MAX-ISO-POLY-3	P=0.008N**	P=0.007N**	P=0.332	P=0.332	P=0.007N**	P=0.007N**

Experiment Number: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

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Time Report Requested: 12:39:02

First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Males					
	0mg/kg/d M	.312mg/kg/d M	.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M	5mg/kg/d M
Nose: Respiratory Epithelium						
Inflammation Focal Granulomatous						
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: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

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First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Males					
	0mg/kg/d M	.312mg/kg/d M	.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M	5mg/kg/d M
Nose: Respiratory Epithelium Ulcer						
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: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

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First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Males					
	0mg/kg/d M	.312mg/kg/d M	.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M	5mg/kg/d M
Prostate Inflammation Chronic						
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: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 02/06/2018

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First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Males					
	0mg/kg/d M	.312mg/kg/d M	.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M	5mg/kg/d M
Spleen						
Extramedullary Hematopoiesis Decreased						
LESION RATES						
OVERALL (a)	1/10 (10%)	1/10 (10%)	2/10 (20%)	7/10 (70%)	8/10 (80%)	10/10 (100%)
POLY-3 RATE (b)	1/10.00	1/10.00	2/10.00	7/10.00	8/10.00	10/10.00
POLY-3 PERCENT (g)	10%	10%	20%	70%	80%	100%
TERMINAL (d)	1/10 (10%)	1/10 (10%)	2/10 (20%)	7/10 (70%)	8/10 (80%)	10/10 (100%)
FIRST INCIDENCE	29 (T)	29 (T)	29 (T)	29 (T)	29 (T)	29 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.760	P=0.500	P=0.003**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.760	P=0.500	P=0.003**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.760	P=0.500	P=0.003**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.763N	P=0.500	P=0.010**	P=0.003**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=1.000	P=0.274	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:39:02

First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Males					
	0mg/kg/d M	.312mg/kg/d M	.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M	5mg/kg/d M
Stomach, Forestomach Hyperkeratosis						
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: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:39:02

First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

	Males					
DOSE	0mg/kg/d M	.312mg/kg/d M	.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M	5mg/kg/d M
<hr/>						
Thymus Atrophy						
<hr/>						
LESION RATES						
OVERALL (a)	0/9 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/9.00	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)	0/9 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (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: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:39:02

First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	.312mg/kg/d F	.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F	5mg/kg/d F
Bone Marrow Hypocellularity						
LESION RATES						
OVERALL (a)	0/10 (0%)	2/10 (20%)	1/10 (10%)	1/10 (10%)	5/10 (50%)	9/10 (90%)
POLY-3 RATE (b)	0/10.00	2/10.00	1/10.00	1/10.00	5/10.00	9/10.00
POLY-3 PERCENT (g)	0%	20%	10%	10%	50%	90%
TERMINAL (d)	0/10 (0%)	2/10 (20%)	1/10 (10%)	1/10 (10%)	5/10 (50%)	8/9 (89%)
FIRST INCIDENCE	---	29 (T)	29 (T)	29 (T)	29 (T)	25
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.227	P=0.500	P=0.500	P=0.008**	P<0.001**
POLY 1.5	P<0.001**	P=0.227	P=0.500	P=0.500	P=0.008**	P<0.001**
POLY 6	P<0.001**	P=0.227	P=0.500	P=0.500	P=0.008**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.237	P=0.500	P=0.500	P=0.016*	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.066	P=0.158	P=0.158	P<0.001**	P<0.001**

Experiment Number: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 02/06/2018

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First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	.312mg/kg/d F	.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F	5mg/kg/d F
Esophagus Degeneration						
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	0/9.64
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%)	0/9 (0%)
FIRST INCIDENCE	29 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.507N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.504N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.512N
COCH-ARM / FISHERS	P=0.304N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.168N

Experiment Number: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:39:02

First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	.312mg/kg/d F	.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F	5mg/kg/d F
Esophagus						
Inflammation Chronic						
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	0/9.64
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%)	0/9 (0%)
FIRST INCIDENCE	29 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.507N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.504N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.512N
COCH-ARM / FISHERS	P=0.304N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.168N

Experiment Number: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:39:02

First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	.312mg/kg/d F	.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F	5mg/kg/d F
Heart						
Infiltration Cellular Mixed Cell						
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	0/9.64
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%)	0/9 (0%)
FIRST INCIDENCE	29 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.507N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.504N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.512N
COCH-ARM / FISHERS	P=0.304N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.168N

Experiment Number: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 02/06/2018

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First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	.312mg/kg/d F	.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F	5mg/kg/d F
Heart: Epicardium						
Infiltration Cellular Mononuclear 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	0/9.64
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: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 02/06/2018

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First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	.312mg/kg/d F	.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F	5mg/kg/d F
Kidney						
Nephropathy Chronic Progressive						
LESION RATES						
OVERALL (a)	2/10 (20%)	1/10 (10%)	2/10 (20%)	3/10 (30%)	1/10 (10%)	2/10 (20%)
POLY-3 RATE (b)	2/10.00	1/10.00	2/10.00	3/10.00	1/10.00	2/9.64
POLY-3 PERCENT (g)	20%	10%	20%	30%	10%	20.8%
TERMINAL (d)	2/10 (20%)	1/10 (10%)	2/10 (20%)	3/10 (30%)	1/10 (10%)	2/9 (22%)
FIRST INCIDENCE	29 (T)	29 (T)	29 (T)	29 (T)	29 (T)	29 (T)
STATISTICAL TESTS						
POLY 3	P=0.571	P=0.500N	P=0.702	P=0.500	P=0.500N	P=0.689
POLY 1.5	P=0.579	P=0.500N	P=0.702	P=0.500	P=0.500N	P=0.695
POLY 6	P=0.560	P=0.500N	P=0.702	P=0.500	P=0.500N	P=0.680
COCH-ARM / FISHERS	P=0.592	P=0.500N	P=0.709N	P=0.500	P=0.500N	P=0.709N
MAX-ISO-POLY-3	P=0.376	P=0.274N	P=1.000	P=0.310	P=0.274N	P=0.483

Experiment Number: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

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First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	.312mg/kg/d F	.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F	5mg/kg/d F
Kidney: Renal Tubule Mineral						
LESION RATES						
OVERALL (a)	0/10 (0%)	1/10 (10%)	1/10 (10%)	1/10 (10%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	1/10.00	1/10.00	1/10.00	0/10.00	1/9.64
POLY-3 PERCENT (g)	0%	10%	10%	10%	0%	10.4%
TERMINAL (d)	0/10 (0%)	1/10 (10%)	1/10 (10%)	1/10 (10%)	0/10 (0%)	1/9 (11%)
FIRST INCIDENCE	---	29 (T)	29 (T)	29 (T)	---	29 (T)
STATISTICAL TESTS						
POLY 3	P=0.550	P=0.500	P=0.500	P=0.500	(e)	P=0.493
POLY 1.5	P=0.555	P=0.500	P=0.500	P=0.500	(e)	P=0.496
POLY 6	P=0.543	P=0.500	P=0.500	P=0.500	(e)	P=0.488
COCH-ARM / FISHERS	P=0.563	P=0.500	P=0.500	P=0.500	(e)	P=0.500
MAX-ISO-POLY-3	P=0.192	P=0.158	P=0.158	P=0.158	(e)	P=0.158

Experiment Number: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

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First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	.312mg/kg/d F	.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F	5mg/kg/d F
Liver						
Clear Cell Focus						
LESION RATES						
OVERALL (a)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	1/10.00	0/10.00	0/10.00	0/10.00	0/9.64
POLY-3 PERCENT (g)	0%	10%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)
FIRST INCIDENCE	---	29 (T)	---	---	---	---
STATISTICAL TESTS						
POLY 3	P=0.482N	P=0.500	(e)	(e)	(e)	(e)
POLY 1.5	P=0.485N	P=0.500	(e)	(e)	(e)	(e)
POLY 6	P=0.478N	P=0.500	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.487N	P=0.500	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.201N	P=0.158	(e)	(e)	(e)	(e)

Experiment Number: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

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First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	.312mg/kg/d F	.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F	5mg/kg/d F
Liver						
Congestion Diffuse						
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	0/9.64
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=0.409N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.507N
POLY 1.5	P=0.412N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.504N
POLY 6	P=0.404N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.512N
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=0.047N*	P=0.158N	P=0.158N	P=0.158N	P=0.158N	P=0.168N

Experiment Number: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

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First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	.312mg/kg/d F	.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F	5mg/kg/d F
Liver						
Infiltration Cellular Mixed Cell						
LESION RATES						
OVERALL (a)	0/10 (0%)	3/10 (30%)	3/10 (30%)	3/10 (30%)	2/10 (20%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	3/10.00	3/10.00	3/10.00	2/10.00	1/9.64
POLY-3 PERCENT (g)	0%	30%	30%	30%	20%	10.4%
TERMINAL (d)	0/10 (0%)	3/10 (30%)	3/10 (30%)	3/10 (30%)	2/10 (20%)	1/9 (11%)
FIRST INCIDENCE	---	29 (T)	29 (T)	29 (T)	29 (T)	29 (T)
STATISTICAL TESTS						
POLY 3	P=0.404N	P=0.095	P=0.095	P=0.095	P=0.227	P=0.493
POLY 1.5	P=0.396N	P=0.095	P=0.095	P=0.095	P=0.227	P=0.496
POLY 6	P=0.417N	P=0.095	P=0.095	P=0.095	P=0.227	P=0.488
COCH-ARM / FISHERS	P=0.384N	P=0.105	P=0.105	P=0.105	P=0.237	P=0.500
MAX-ISO-POLY-3	P=0.097	P=0.025*	P=0.025*	P=0.025*	P=0.066	P=0.158

Experiment Number: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

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First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	.312mg/kg/d F	.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F	5mg/kg/d F
Liver						
Inflammation Focal Granulomatous						
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	0/9.64
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: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:39:02

First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	.312mg/kg/d F	.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F	5mg/kg/d F
Liver: Hepatocyte Cytoplasmic Alteration						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)	5/10 (50%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	3/10.00	5/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	30%	50%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)	5/10 (50%)	9/9 (100%)
FIRST INCIDENCE	---	---	---	29 (T)	29 (T)	25
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	P=0.095	P=0.008**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	P=0.095	P=0.008**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	P=0.095	P=0.008**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.105	P=0.016*	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P=0.025*	P<0.001**	(e)

Experiment Number: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:39:02

First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	.312mg/kg/d F	.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F	5mg/kg/d F
Liver: Hepatocyte Hypertrophy						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	3/10 (30%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	2/10.00	3/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	20%	30%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	3/10 (30%)	9/9 (100%)
FIRST INCIDENCE	---	---	---	29 (T)	29 (T)	25
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	P=0.227	P=0.095	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	P=0.227	P=0.095	P<0.001**
POLY 6	P<0.001**	(e)	(e)	P=0.227	P=0.095	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.237	P=0.105	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P=0.066	P=0.025*	(e)

Experiment Number: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:39:02

First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	.312mg/kg/d F	.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F	5mg/kg/d F
Liver: Hepatocyte Necrosis Diffuse						
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	0/9.64
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=0.409N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.507N
POLY 1.5	P=0.412N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.504N
POLY 6	P=0.404N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.512N
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=0.047N*	P=0.158N	P=0.158N	P=0.158N	P=0.158N	P=0.168N

Experiment Number: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:39:02

First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	.312mg/kg/d F	.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F	5mg/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	0/10.00	0/9.64
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: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:39:02

First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	.312mg/kg/d F	.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F	5mg/kg/d F
Lung						
Inflammation Focal Granulomatous						
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	1/9.64
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10.4%
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=0.493
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.496
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.488
COCH-ARM / FISHERS	P=0.304	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:39:02

First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	.312mg/kg/d F	.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F	5mg/kg/d F
Lung: Alveolus 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	0/9.64
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: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:39:02

First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	.312mg/kg/d F	.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F	5mg/kg/d F
Nose: Respiratory Epithelium Fibrosis 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	0/9.64
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: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:39:02

First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	.312mg/kg/d F	.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F	5mg/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	0/10.00	0/9.64
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: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 02/06/2018

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First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	.312mg/kg/d F	.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F	5mg/kg/d F
Nose: Respiratory Epithelium Inflammation Chronic						
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	0/9.64
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%)	0/9 (0%)
FIRST INCIDENCE	---	---	---	---	29 (T)	---
STATISTICAL TESTS						
POLY 3	P=0.562	(e)	(e)	(e)	P=0.500	(e)
POLY 1.5	P=0.572	(e)	(e)	(e)	P=0.500	(e)
POLY 6	P=0.547	(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=0.197	(e)	(e)	(e)	P=0.158	(e)

Experiment Number: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 02/06/2018

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First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	.312mg/kg/d F	.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F	5mg/kg/d F
Nose: Respiratory Epithelium Inflammation Focal Granulomatous						
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	0/9.64
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: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:39:02

First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	.312mg/kg/d F	.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F	5mg/kg/d F
Nose: Respiratory Epithelium 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	0/10.00	0/9.64
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: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:39:02

First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	.312mg/kg/d F	.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F	5mg/kg/d F
Spleen						
Extramedullary Hematopoiesis Decreased						
LESION RATES						
OVERALL (a)	2/10 (20%)	3/10 (30%)	3/10 (30%)	8/10 (80%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	2/10.00	3/10.00	3/10.00	8/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	20%	30%	30%	80%	100%	100%
TERMINAL (d)	2/10 (20%)	3/10 (30%)	3/10 (30%)	8/10 (80%)	10/10 (100%)	9/9 (100%)
FIRST INCIDENCE	29 (T)	29 (T)	29 (T)	29 (T)	29 (T)	25
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.500	P=0.500	P=0.004**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.500	P=0.500	P=0.004**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.500	P=0.500	P=0.004**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.500	P=0.500	P=0.012*	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.310	P=0.310	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:39:02

First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	.312mg/kg/d F	.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F	5mg/kg/d F
Stomach, Forestomach Hyperkeratosis						
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	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	---	---	---	---	---	25
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.304	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:39:02

First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	.312mg/kg/d F	.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F	5mg/kg/d F
Thymus Atrophy						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/9 (0%)
FIRST INCIDENCE	---	---	---	---	---	25
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.267	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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CAS Number: 1763-23-1

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Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	.312mg/kg/d F	.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F	5mg/kg/d F
Uterus Dilation						
LESION RATES						
OVERALL (a)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	2/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/9.64
POLY-3 PERCENT (g)	20%	0%	0%	0%	0%	10.4%
TERMINAL (d)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/9 (11%)
FIRST INCIDENCE	29 (T)	---	---	---	---	29 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.513N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.507N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.522N
COCH-ARM / FISHERS	P=0.377N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.288N

Experiment Number: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:39:02

First Dose M/F: 01/24/12 / 01/25/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	.312mg/kg/d F	.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F	5mg/kg/d F
Uterus: Bilateral Dilation						
LESION RATES						
OVERALL (a)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	2/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/9.64
POLY-3 PERCENT (g)	20%	0%	0%	0%	0%	10.4%
TERMINAL (d)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/9 (11%)
FIRST INCIDENCE	29 (T)	---	---	---	---	29 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.513N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.507N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.522N
COCH-ARM / FISHERS	P=0.377N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.288N

Experiment Number: 20617 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctane Sulfonate

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LEGEND

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

*** END OF REPORT ***