

**Experiment Number:** 20615 - 01  
**Test Type:** 28-DAY  
**Route:** GAVAGE  
**Species/Strain:** RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorodecanoic Acid  
**CAS Number:** 335-76-2

**Date Report Requested:** 02/06/2018  
**Time Report Requested:** 12:37:08  
**First Dose M/F:** 02/07/12 / 02/08/12  
**Lab:** BAT

PFDA\_Final 1

**NTP Study Number:** C20615  
**Lock Date:** 01/22/2016  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 3.0.2.3\_002  
**PWG Approval Date:** NONE

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**SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF PERFLUORODECANOIC ACID**

**MALE RATS**

**Organ**

Bone Marrow  
Epididymis: Duct  
Kidney  
Liver  
Liver: Hepatocyte

Nose: Respiratory Epithelium

Stomach, Forestomach

Stomach, Forestomach: Epithelium

Testes: Germinal Epithelium

Testes: Interstitial Cell

Testes: Seminiferous Tubule

Thymus

Thymus: Lymphocyte

**FEMALE RATS**

**Organ**

Bone Marrow  
Kidney  
Liver  
Liver: Hepatocyte

Thymus

**Morphology**

Hypocellularity  
Exfoliated Germ Cell  
Nephropathy Chronic Progressive  
Infiltration Cellular Mixed Cell  
Cytoplasmic Alteration  
Hypertrophy  
Necrosis  
Vacuolization Cytoplasmic  
Degeneration  
Hyperplasia  
Inflammation Chronic  
Inflammation  
Ulcer  
Hyperplasia  
Degeneration  
Atrophy  
Spermatid Retention  
Atrophy  
Apoptosis

**Morphology**

Hypocellularity  
Nephropathy Chronic Progressive  
Infiltration Cellular Mixed Cell  
Cytoplasmic Alteration  
Hypertrophy  
Necrosis  
Vacuolization Cytoplasmic  
Atrophy

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

DOSE	Males					
	0mg/kg/d M	0.156mg/kg/d M	0.312mg/kg/d M	0.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M
<b>Bone Marrow Hypocellularity</b>						
<b>LESION RATES</b>						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	---	---	29 (T)
<b>STATISTICAL TESTS</b>						
POLY 3	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	(e)

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TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males					
	0mg/kg/d M	0.156mg/kg/d M	0.312mg/kg/d M	0.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M
<b>Epididymis Granuloma Sperm</b>						
<b>LESION RATES</b>						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	29 (T)	---	---	---	---	---
<b>STATISTICAL TESTS</b>						
POLY 3	(e)	(e)	(e)	P=0.500N	P=0.500N	P=0.500N
POLY 1.5	(e)	(e)	(e)	P=0.500N	P=0.500N	P=0.500N
POLY 6	(e)	(e)	(e)	P=0.500N	P=0.500N	P=0.500N
COCH-ARM / FISHERS	P=0.304N	(e)	(e)	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158N	P=0.158N	P=0.158N

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

DOSE	Males					
	0mg/kg/d M	0.156mg/kg/d M	0.312mg/kg/d M	0.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M
Epididymis						
Hypospermia						
<b>LESION RATES</b>						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	29 (T)
<b>STATISTICAL TESTS</b>						
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=0.196	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158

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Lab: BAT

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

DOSE	Males					
	0mg/kg/d M	0.156mg/kg/d M	0.312mg/kg/d M	0.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M
<b>Epididymis: Duct Exfoliated Germ Cell</b>						
<b>LESION RATES</b>						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	4/10 (40%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/10.00	0/10.00	4/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	40%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	4/10 (40%)
FIRST INCIDENCE	29 (T)	---	---	---	---	29 (T)
<b>STATISTICAL TESTS</b>						
POLY 3	(e)	(e)	(e)	P=0.500N	P=0.500N	P=0.148
POLY 1.5	(e)	(e)	(e)	P=0.500N	P=0.500N	P=0.148
POLY 6	(e)	(e)	(e)	P=0.500N	P=0.500N	P=0.148
COCH-ARM / FISHERS	P=0.022*	(e)	(e)	P=0.500N	P=0.500N	P=0.152
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158N	P=0.158N	P=0.058

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Lab: BAT

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

DOSE	Males					
	0mg/kg/d M	0.156mg/kg/d M	0.312mg/kg/d M	0.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M
<b>Esophagus: Periesophageal Tissue Inflammation Granulomatous</b>						
<b>LESION RATES</b>						
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	---	---	---	---	---	---
<b>STATISTICAL TESTS</b>						
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					
	0mg/kg/d M	0.156mg/kg/d M	0.312mg/kg/d M	0.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M
<b>Heart</b>						
<b>Cardiomyopathy</b>						
<b>LESION RATES</b>						
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)	---	---	---	---	---
<b>STATISTICAL TESTS</b>						
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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TERMINAL SACRIFICE AT 5 WEEKS**

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DOSE	Males					
	0mg/kg/d M	0.156mg/kg/d M	0.312mg/kg/d M	0.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M
<b>Heart: Epicardium Fibrosis</b>						
<b>LESION RATES</b>						
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	---	---	---	---	---	---
<b>STATISTICAL TESTS</b>						
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	0.156mg/kg/d M	0.312mg/kg/d M	0.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M
<b>Heart: Epicardium Infiltration Cellular Mixed Cell</b>						
<b>LESION RATES</b>						
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	---	---	---	---	---	---
<b>STATISTICAL TESTS</b>						
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	0.156mg/kg/d M	0.312mg/kg/d M	0.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M
<b>Heart: Epicardium</b>						
<b>Inflammation Granulomatous</b>						
<hr/>						
<b>LESION RATES</b>						
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/>						
<b>STATISTICAL TESTS</b>						
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					
	0mg/kg/d M	0.156mg/kg/d M	0.312mg/kg/d M	0.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M
<b>Kidney</b>						
<b>Nephropathy Chronic Progressive</b>						
<b>LESION RATES</b>						
OVERALL (a)	6/10 (60%)	8/10 (80%)	5/10 (50%)	6/10 (60%)	7/10 (70%)	3/10 (30%)
POLY-3 RATE (b)	6/10.00	8/10.00	5/10.00	6/10.00	7/10.00	3/10.00
POLY-3 PERCENT (g)	60%	80%	50%	60%	70%	30%
TERMINAL (d)	6/10 (60%)	8/10 (80%)	5/10 (50%)	6/10 (60%)	7/10 (70%)	3/10 (30%)
FIRST INCIDENCE	29 (T)	29 (T)	29 (T)	29 (T)	29 (T)	29 (T)
<b>STATISTICAL TESTS</b>						
POLY 3	P=0.071N	P=0.318	P=0.500N	P=0.667	P=0.500	P=0.186N
POLY 1.5	P=0.071N	P=0.318	P=0.500N	P=0.667	P=0.500	P=0.186N
POLY 6	P=0.071N	P=0.318	P=0.500N	P=0.667	P=0.500	P=0.186N
COCH-ARM / FISHERS	P=0.071N	P=0.314	P=0.500N	P=0.675N	P=0.500	P=0.185N
MAX-ISO-POLY-3	P=0.034N*	P=0.172	P=0.332N	P=1.000	P=0.325	P=0.089N

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TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males					
	0mg/kg/d M	0.156mg/kg/d M	0.312mg/kg/d M	0.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M
<b>Liver</b>						
<b>Infiltration Cellular Mixed Cell</b>						
<b>LESION RATES</b>						
<b>OVERALL (a)</b>	3/10 (30%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)
<b>POLY-3 RATE (b)</b>	3/10.00	0/10.00	0/10.00	0/10.00	0/10.00	2/10.00
<b>POLY-3 PERCENT (g)</b>	30%	0%	0%	0%	0%	20%
<b>TERMINAL (d)</b>	3/10 (30%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)
<b>FIRST INCIDENCE</b>	29 (T)	---	---	---	---	29 (T)
<b>STATISTICAL TESTS</b>						
<b>POLY 3</b>	P=0.422	P=0.095N	P=0.095N	P=0.095N	P=0.095N	P=0.500N
<b>POLY 1.5</b>	P=0.422	P=0.095N	P=0.095N	P=0.095N	P=0.095N	P=0.500N
<b>POLY 6</b>	P=0.422	P=0.095N	P=0.095N	P=0.095N	P=0.095N	P=0.500N
<b>COCH-ARM / FISHERS</b>	P=0.426	P=0.105N	P=0.105N	P=0.105N	P=0.105N	P=0.500N
<b>MAX-ISO-POLY-3</b>	P=0.013N*	P=0.025N*	P=0.025N*	P=0.025N*	P=0.025N*	P=0.310N

Experiment Number: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

## P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Males					
	0mg/kg/d M	0.156mg/kg/d M	0.312mg/kg/d M	0.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M
<b>Liver: Hepatocyte Cytoplasmic Alteration</b>						
<b>LESION RATES</b>						
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%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	29 (T)	29 (T)	29 (T)
<b>STATISTICAL TESTS</b>						
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: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

## P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Males					
	0mg/kg/d M	0.156mg/kg/d M	0.312mg/kg/d M	0.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M
<b>Liver: Hepatocyte Hypertrophy</b>						
<b>LESION RATES</b>						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	2/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	20%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	29 (T)	29 (T)	29 (T)
<b>STATISTICAL TESTS</b>						
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	(e)	(e)

Experiment Number: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Males					
	0mg/kg/d M	0.156mg/kg/d M	0.312mg/kg/d M	0.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M
<b>Liver: Hepatocyte Necrosis</b>						
<b>LESION RATES</b>						
OVERALL (a)	0/10 (0%)	1/10 (10%)	0/10 (0%)	1/10 (10%)	3/10 (30%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	1/10.00	0/10.00	1/10.00	3/10.00	1/10.00
POLY-3 PERCENT (g)	0%	10%	0%	10%	30%	10%
TERMINAL (d)	0/10 (0%)	1/10 (10%)	0/10 (0%)	1/10 (10%)	3/10 (30%)	1/10 (10%)
FIRST INCIDENCE	---	29 (T)	---	29 (T)	29 (T)	29 (T)
<b>STATISTICAL TESTS</b>						
POLY 3	P=0.215	P=0.500	(e)	P=0.500	P=0.095	P=0.500
POLY 1.5	P=0.215	P=0.500	(e)	P=0.500	P=0.095	P=0.500
POLY 6	P=0.215	P=0.500	(e)	P=0.500	P=0.095	P=0.500
COCH-ARM / FISHERS	P=0.216	P=0.500	(e)	P=0.500	P=0.105	P=0.500
MAX-ISO-POLY-3	P=0.066	P=0.158	(e)	P=0.158	P=0.025*	P=0.158



Experiment Number: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Males					
	0mg/kg/d M	0.156mg/kg/d M	0.312mg/kg/d M	0.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M
<b>Liver: Hepatocyte Vacuolization Cytoplasmic</b>						
<b>LESION RATES</b>						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	9/10 (90%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	9/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	90%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	9/10 (90%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	---	29 (T)	29 (T)
<b>STATISTICAL TESTS</b>						
POLY 3	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P<0.001**	(e)

Experiment Number: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

## P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Males					
	0mg/kg/d M	0.156mg/kg/d M	0.312mg/kg/d M	0.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M
<b>Lung</b>						
<b>Infiltration Cellular Mixed Cell</b>						
<b>LESION RATES</b>						
<b>OVERALL (a)</b>	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
<b>POLY-3 RATE (b)</b>	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
<b>POLY-3 PERCENT (g)</b>	10%	0%	0%	0%	0%	0%
<b>TERMINAL (d)</b>	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
<b>FIRST INCIDENCE</b>	29 (T)	---	---	---	---	---
<b>STATISTICAL TESTS</b>						
<b>POLY 3</b>	(e)	(e)	(e)	(e)	(e)	P=0.500N
<b>POLY 1.5</b>	(e)	(e)	(e)	(e)	(e)	P=0.500N
<b>POLY 6</b>	(e)	(e)	(e)	(e)	(e)	P=0.500N
<b>COCH-ARM / FISHERS</b>	P=0.304N	(e)	(e)	(e)	(e)	P=0.500N
<b>MAX-ISO-POLY-3</b>	(e)	(e)	(e)	(e)	(e)	P=0.158N

Experiment Number: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

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DOSE	Males					
	0mg/kg/d M	0.156mg/kg/d M	0.312mg/kg/d M	0.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M
<b>Lung: Bronchiole Inflammation Granulomatous</b>						
<b>LESION RATES</b>						
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	---	---	---	---	---	---
<b>STATISTICAL TESTS</b>						
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: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

---

DOSE	Males					
	0mg/kg/d M	0.156mg/kg/d M	0.312mg/kg/d M	0.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M
<b>Lung: Interstitium Inflammation Granulomatous</b>						
<b>LESION RATES</b>						
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	---	---	---	---	---	---
<b>STATISTICAL TESTS</b>						
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: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

---

DOSE	Males					
	0mg/kg/d M	0.156mg/kg/d M	0.312mg/kg/d M	0.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M
<b>Lung: Serosa Fibrosis</b>						
<b>LESION RATES</b>						
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	---	---	---	---	---	---
<b>STATISTICAL TESTS</b>						
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: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Males					
	0mg/kg/d M	0.156mg/kg/d M	0.312mg/kg/d M	0.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M
<b>Lymph Node: Mediastinal Inflammation Granulomatous</b>						
<b>LESION RATES</b>						
OVERALL (a)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	0/0.00	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
<b>STATISTICAL TESTS</b>						
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: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

## P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Males					
	0mg/kg/d M	0.156mg/kg/d M	0.312mg/kg/d M	0.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M
<b>Nose: Respiratory Epithelium Degeneration</b>						
<b>LESION RATES</b>						
OVERALL (a)	2/10 (20%)	4/10 (40%)	5/10 (50%)	4/10 (40%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	2/10.00	4/10.00	5/10.00	4/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	20%	40%	50%	40%	0%	0%
TERMINAL (d)	2/10 (20%)	4/10 (40%)	5/10 (50%)	4/10 (40%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	29 (T)	29 (T)	29 (T)	29 (T)	---	---
<b>STATISTICAL TESTS</b>						
POLY 3	P=0.006N**	P=0.318	P=0.174	P=0.318	P=0.227N	P=0.227N
POLY 1.5	P=0.006N**	P=0.318	P=0.174	P=0.318	P=0.227N	P=0.227N
POLY 6	P=0.006N**	P=0.318	P=0.174	P=0.318	P=0.227N	P=0.227N
COCH-ARM / FISHERS	P=0.009N**	P=0.314	P=0.175	P=0.314	P=0.237N	P=0.237N
MAX-ISO-POLY-3	P=0.006N**	P=0.172	P=0.079	P=0.172	P=0.066N	P=0.066N

Experiment Number: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Males					
	0mg/kg/d M	0.156mg/kg/d M	0.312mg/kg/d M	0.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M
<b>Nose: Respiratory Epithelium Hyperplasia</b>						
<b>LESION RATES</b>						
OVERALL (a)	2/10 (20%)	0/10 (0%)	5/10 (50%)	4/10 (40%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	2/10.00	0/10.00	5/10.00	4/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	20%	0%	50%	40%	0%	0%
TERMINAL (d)	2/10 (20%)	0/10 (0%)	5/10 (50%)	4/10 (40%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	29 (T)	---	29 (T)	29 (T)	---	---
<b>STATISTICAL TESTS</b>						
POLY 3	P=0.034N*	P=0.227N	P=0.174	P=0.318	P=0.227N	P=0.227N
POLY 1.5	P=0.034N*	P=0.227N	P=0.174	P=0.318	P=0.227N	P=0.227N
POLY 6	P=0.034N*	P=0.227N	P=0.174	P=0.318	P=0.227N	P=0.227N
COCH-ARM / FISHERS	P=0.051N	P=0.237N	P=0.175	P=0.314	P=0.237N	P=0.237N
MAX-ISO-POLY-3	P=0.034N*	P=0.066N	P=0.079	P=0.172	P=0.066N	P=0.066N



Experiment Number: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

## P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Males					
	0mg/kg/d M	0.156mg/kg/d M	0.312mg/kg/d M	0.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M
<b>Nose: Respiratory Epithelium Inflammation Chronic</b>						
<b>LESION RATES</b>						
OVERALL (a)	2/10 (20%)	5/10 (50%)	5/10 (50%)	4/10 (40%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	2/10.00	5/10.00	5/10.00	4/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	20%	50%	50%	40%	0%	0%
TERMINAL (d)	2/10 (20%)	5/10 (50%)	5/10 (50%)	4/10 (40%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	29 (T)	29 (T)	29 (T)	29 (T)	---	---
<b>STATISTICAL TESTS</b>						
POLY 3	P=0.003N**	P=0.174	P=0.174	P=0.318	P=0.227N	P=0.227N
POLY 1.5	P=0.003N**	P=0.174	P=0.174	P=0.318	P=0.227N	P=0.227N
POLY 6	P=0.003N**	P=0.174	P=0.174	P=0.318	P=0.227N	P=0.227N
COCH-ARM / FISHERS	P=0.006N**	P=0.175	P=0.175	P=0.314	P=0.237N	P=0.237N
MAX-ISO-POLY-3	P=0.003N**	P=0.079	P=0.079	P=0.172	P=0.066N	P=0.066N

Experiment Number: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Males					
	0mg/kg/d M	0.156mg/kg/d M	0.312mg/kg/d M	0.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M
<b>Stomach, Forestomach Inflammation</b>						
<b>LESION RATES</b>						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	2/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	20%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)
FIRST INCIDENCE	---	---	---	---	---	29 (T)
<b>STATISTICAL TESTS</b>						
POLY 3	P=0.008**	(e)	(e)	(e)	(e)	P=0.227
POLY 1.5	P=0.008**	(e)	(e)	(e)	(e)	P=0.227
POLY 6	P=0.008**	(e)	(e)	(e)	(e)	P=0.227
COCH-ARM / FISHERS	P=0.010**	(e)	(e)	(e)	(e)	P=0.237
MAX-ISO-POLY-3	P=0.005**	(e)	(e)	(e)	(e)	P=0.066

Experiment Number: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Males					
	0mg/kg/d M	0.156mg/kg/d M	0.312mg/kg/d M	0.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M
<b>Stomach, Forestomach Ulcer</b>						
<b>LESION RATES</b>						
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)
<b>STATISTICAL TESTS</b>						
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: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Males					
	0mg/kg/d M	0.156mg/kg/d M	0.312mg/kg/d M	0.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M
<b>Stomach, Forestomach: Epithelium Hyperplasia</b>						
<b>LESION RATES</b>						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	2/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	20%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)
FIRST INCIDENCE	---	---	---	---	---	29 (T)
<b>STATISTICAL TESTS</b>						
POLY 3	P=0.008**	(e)	(e)	(e)	(e)	P=0.227
POLY 1.5	P=0.008**	(e)	(e)	(e)	(e)	P=0.227
POLY 6	P=0.008**	(e)	(e)	(e)	(e)	P=0.227
COCH-ARM / FISHERS	P=0.010**	(e)	(e)	(e)	(e)	P=0.237
MAX-ISO-POLY-3	P=0.005**	(e)	(e)	(e)	(e)	P=0.066

Experiment Number: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

## P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Males					
	0mg/kg/d M	0.156mg/kg/d M	0.312mg/kg/d M	0.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M
<b>Testes: Germinal Epithelium Degeneration</b>						
<b>LESION RATES</b>						
OVERALL (a)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	4/10 (40%)
POLY-3 RATE (b)	1/10.00	0/10.00	0/10.00	0/10.00	0/10.00	4/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	40%
TERMINAL (d)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	4/10 (40%)
FIRST INCIDENCE	29 (T)	---	---	---	---	29 (T)
<b>STATISTICAL TESTS</b>						
POLY 3	P<0.001**	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.148
POLY 1.5	P<0.001**	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.148
POLY 6	P<0.001**	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.148
COCH-ARM / FISHERS	P=0.002**	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.152
MAX-ISO-POLY-3	P<0.001**	P=0.158N	P=0.158N	P=0.158N	P=0.158N	P=0.058

Experiment Number: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

## P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Males					
	0mg/kg/d M	0.156mg/kg/d M	0.312mg/kg/d M	0.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M
<b>Testes: Interstitial Cell Atrophy</b>						
<b>LESION RATES</b>						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	8/10 (80%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	8/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	80%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	8/10 (80%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	---	29 (T)	29 (T)
<b>STATISTICAL TESTS</b>						
POLY 3	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P<0.001**	(e)

Experiment Number: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

## P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Males					
	0mg/kg/d M	0.156mg/kg/d M	0.312mg/kg/d M	0.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M
<b>Testes: Seminiferous Tubule Spermatid Retention</b>						
<b>LESION RATES</b>						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	4/10 (40%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	4/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	40%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	4/10 (40%)
FIRST INCIDENCE	---	---	---	---	---	29 (T)
<b>STATISTICAL TESTS</b>						
POLY 3	P<0.001**	(e)	(e)	(e)	(e)	P=0.033*
POLY 1.5	P<0.001**	(e)	(e)	(e)	(e)	P=0.033*
POLY 6	P<0.001**	(e)	(e)	(e)	(e)	P=0.033*
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	(e)	P=0.043*
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	P=0.007**

Experiment Number: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

## P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Males					
	0mg/kg/d M	0.156mg/kg/d M	0.312mg/kg/d M	0.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M
Thymus Atrophy						
<b>LESION RATES</b>						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	9/10 (90%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	9/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	90%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	9/10 (90%)
FIRST INCIDENCE	---	---	---	---	---	29 (T)
<b>STATISTICAL TESTS</b>						
POLY 3	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**



Experiment Number: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

## P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Males					
	0mg/kg/d M	0.156mg/kg/d M	0.312mg/kg/d M	0.625mg/kg/d M	1.25mg/kg/d M	2.5mg/kg/d M
Thymus: Lymphocyte Apoptosis						
<b>LESION RATES</b>						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	8/10 (80%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	8/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	80%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	8/10 (80%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	29 (T)	---
<b>STATISTICAL TESTS</b>						
POLY 3	P=0.005**	(e)	(e)	(e)	P<0.001**	(e)
POLY 1.5	P=0.005**	(e)	(e)	(e)	P<0.001**	(e)
POLY 6	P=0.005**	(e)	(e)	(e)	P<0.001**	(e)
COCH-ARM / FISHERS	P=0.098	(e)	(e)	(e)	P<0.001**	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P<0.001**	(e)

Experiment Number: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

## P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	0.156mg/kg/d F	0.312mg/kg/d F	0.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F
<b>Bone Marrow Hypocellularity</b>						
<b>LESION RATES</b>						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	---	---	29 (T)
<b>STATISTICAL TESTS</b>						
POLY 3	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	(e)

Experiment Number: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	0.156mg/kg/d F	0.312mg/kg/d F	0.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F
<b>Esophagus: Periesophageal Tissue Inflammation Granulomatous</b>						
<b>LESION RATES</b>						
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%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	29 (T)
<b>STATISTICAL TESTS</b>						
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: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	0.156mg/kg/d F	0.312mg/kg/d F	0.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F
<b>Heart</b>						
<b>Cardiomyopathy</b>						
<b>LESION RATES</b>						
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	---	---	---	---	---	---
<b>STATISTICAL TESTS</b>						
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: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	0.156mg/kg/d F	0.312mg/kg/d F	0.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F
<b>Heart: Epicardium Fibrosis</b>						
<b>LESION RATES</b>						
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)	---	---	---	---	---
<b>STATISTICAL TESTS</b>						
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: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	0.156mg/kg/d F	0.312mg/kg/d F	0.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F
<b>Heart: Epicardium Infiltration Cellular Mixed Cell</b>						
<b>LESION RATES</b>						
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)	---	---	---	---	---
<b>STATISTICAL TESTS</b>						
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: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	0.156mg/kg/d F	0.312mg/kg/d F	0.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F
<b>Heart: Epicardium Inflammation Granulomatous</b>						
<b>LESION RATES</b>						
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	2/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	20%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	2/10 (20%)
FIRST INCIDENCE	---	---	---	---	---	29 (T)
<b>STATISTICAL TESTS</b>						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.227
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.227
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.227
COCH-ARM / FISHERS	P=0.132	(e)	(e)	(e)	(e)	P=0.237
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.066

Experiment Number: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

## P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	0.156mg/kg/d F	0.312mg/kg/d F	0.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F
<b>Kidney</b>						
<b>Nephropathy Chronic Progressive</b>						
<b>LESION RATES</b>						
<b>OVERALL (a)</b>	5/10 (50%)	7/10 (70%)	6/10 (60%)	6/10 (60%)	5/10 (50%)	0/10 (0%)
<b>POLY-3 RATE (b)</b>	5/10.00	7/10.00	6/10.00	6/10.00	5/10.00	0/10.00
<b>POLY-3 PERCENT (g)</b>	50%	70%	60%	60%	50%	0%
<b>TERMINAL (d)</b>	5/10 (50%)	7/10 (70%)	6/10 (60%)	6/10 (60%)	5/10 (50%)	0/10 (0%)
<b>FIRST INCIDENCE</b>	29 (T)	29 (T)	29 (T)	29 (T)	29 (T)	---
<b>STATISTICAL TESTS</b>						
<b>POLY 3</b>	P<0.001N**	P=0.329	P=0.500	P=0.500	P=0.664	P=0.008N**
<b>POLY 1.5</b>	P<0.001N**	P=0.329	P=0.500	P=0.500	P=0.664	P=0.008N**
<b>POLY 6</b>	P<0.001N**	P=0.329	P=0.500	P=0.500	P=0.664	P=0.008N**
<b>COCH-ARM / FISHERS</b>	P=0.002N**	P=0.325	P=0.500	P=0.500	P=0.672N	P=0.016N*
<b>MAX-ISO-POLY-3</b>	P<0.001N**	P=0.188	P=0.332	P=0.332	P=1.000	P<0.001N**



Experiment Number: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	0.156mg/kg/d F	0.312mg/kg/d F	0.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F
<b>Liver</b>						
<b>Infiltration Cellular Mixed Cell</b>						
<b>LESION RATES</b>						
OVERALL (a)	3/10 (30%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	2/10 (20%)
POLY-3 RATE (b)	3/10.00	0/10.00	0/10.00	0/10.00	1/10.00	2/10.00
POLY-3 PERCENT (g)	30%	0%	0%	0%	10%	20%
TERMINAL (d)	3/10 (30%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	2/10 (20%)
FIRST INCIDENCE	29 (T)	---	---	---	29 (T)	29 (T)
<b>STATISTICAL TESTS</b>						
POLY 3	P=0.343	P=0.095N	P=0.095N	P=0.095N	P=0.292N	P=0.500N
POLY 1.5	P=0.343	P=0.095N	P=0.095N	P=0.095N	P=0.292N	P=0.500N
POLY 6	P=0.343	P=0.095N	P=0.095N	P=0.095N	P=0.292N	P=0.500N
COCH-ARM / FISHERS	P=0.347	P=0.105N	P=0.105N	P=0.105N	P=0.291N	P=0.500N
MAX-ISO-POLY-3	P=0.033N*	P=0.025N*	P=0.025N*	P=0.025N*	P=0.136N	P=0.310N

Experiment Number: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

## P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	0.156mg/kg/d F	0.312mg/kg/d F	0.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F
<b>Liver: Hepatocyte Cytoplasmic Alteration</b>						
<b>LESION RATES</b>						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	8/10 (80%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	8/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	80%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	8/10 (80%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	29 (T)	29 (T)	29 (T)
<b>STATISTICAL TESTS</b>						
POLY 3	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P<0.001**	(e)	(e)

Experiment Number: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

## P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	0.156mg/kg/d F	0.312mg/kg/d F	0.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F
<b>Liver: Hepatocyte Hypertrophy</b>						
<b>LESION RATES</b>						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	8/10 (80%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	8/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	80%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	8/10 (80%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	---	29 (T)	29 (T)
<b>STATISTICAL TESTS</b>						
POLY 3	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P<0.001**	(e)

Experiment Number: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

## P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	0.156mg/kg/d F	0.312mg/kg/d F	0.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F
<b>Liver: Hepatocyte Necrosis</b>						
<b>LESION RATES</b>						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	4/10 (40%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	1/10.00	4/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	40%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	4/10 (40%)
FIRST INCIDENCE	---	---	---	---	29 (T)	29 (T)
<b>STATISTICAL TESTS</b>						
POLY 3	P<0.001**	(e)	(e)	(e)	P=0.500	P=0.033*
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.500	P=0.033*
POLY 6	P<0.001**	(e)	(e)	(e)	P=0.500	P=0.033*
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P=0.500	P=0.043*
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P=0.158	P=0.007**

Experiment Number: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

## P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	0.156mg/kg/d F	0.312mg/kg/d F	0.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F
<b>Liver: Hepatocyte Vacuolization Cytoplasmic</b>						
<b>LESION RATES</b>						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	1/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	---	29 (T)	29 (T)
<b>STATISTICAL TESTS</b>						
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	(e)

Experiment Number: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	0.156mg/kg/d F	0.312mg/kg/d F	0.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F
<b>Lung</b>						
<b>Infiltration Cellular Mixed Cell</b>						
<b>LESION RATES</b>						
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	---	---	---	---	---	---
<b>STATISTICAL TESTS</b>						
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: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	0.156mg/kg/d F	0.312mg/kg/d F	0.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F
<b>Lung: Bronchiole Inflammation Granulomatous</b>						
<b>LESION RATES</b>						
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%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	29 (T)
<b>STATISTICAL TESTS</b>						
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: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	0.156mg/kg/d F	0.312mg/kg/d F	0.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F
<b>Lung: Interstitium Inflammation Granulomatous</b>						
<b>LESION RATES</b>						
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)	---	---	---	---	---
<b>STATISTICAL TESTS</b>						
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: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	0.156mg/kg/d F	0.312mg/kg/d F	0.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F
<b>Lung: Serosa Fibrosis</b>						
<b>LESION RATES</b>						
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)	---	---	---	---	---
<b>STATISTICAL TESTS</b>						
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: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	0.156mg/kg/d F	0.312mg/kg/d F	0.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F
<b>Lymph Node: Mediastinal Inflammation Granulomatous</b>						
<b>LESION RATES</b>						
OVERALL (a)	0/0 (0%)	0/0 (0%)	1/1 (100%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	0/0.00	1/1.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	100%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	1/1 (100%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	29 (T)	---	---	---
<b>STATISTICAL TESTS</b>						
POLY 3	(e)	(e)	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	(e)

Experiment Number: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	0.156mg/kg/d F	0.312mg/kg/d F	0.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F
<b>Nose: Respiratory Epithelium Degeneration</b>						
<b>LESION RATES</b>						
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	0/10.00
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%)	0/10 (0%)
FIRST INCIDENCE	---	29 (T)	---	---	---	---
<b>STATISTICAL TESTS</b>						
POLY 3	P=0.488N	P=0.500	(e)	(e)	(e)	(e)
POLY 1.5	P=0.488N	P=0.500	(e)	(e)	(e)	(e)
POLY 6	P=0.488N	P=0.500	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.488N	P=0.500	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.193N	P=0.158	(e)	(e)	(e)	(e)

Experiment Number: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	0.156mg/kg/d F	0.312mg/kg/d F	0.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F
<b>Nose: Respiratory Epithelium Hyperplasia</b>						
<b>LESION RATES</b>						
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	0/10.00
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%)	0/10 (0%)
FIRST INCIDENCE	---	29 (T)	---	---	---	---
<b>STATISTICAL TESTS</b>						
POLY 3	P=0.488N	P=0.500	(e)	(e)	(e)	(e)
POLY 1.5	P=0.488N	P=0.500	(e)	(e)	(e)	(e)
POLY 6	P=0.488N	P=0.500	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.488N	P=0.500	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.193N	P=0.158	(e)	(e)	(e)	(e)

Experiment Number: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	0.156mg/kg/d F	0.312mg/kg/d F	0.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F
<b>Nose: Respiratory Epithelium Inflammation Chronic</b>						
<b>LESION RATES</b>						
OVERALL (a)	1/10 (10%)	2/10 (20%)	0/10 (0%)	3/10 (30%)	2/10 (20%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	2/10.00	0/10.00	3/10.00	2/10.00	0/10.00
POLY-3 PERCENT (g)	10%	20%	0%	30%	20%	0%
TERMINAL (d)	1/10 (10%)	2/10 (20%)	0/10 (0%)	3/10 (30%)	2/10 (20%)	0/10 (0%)
FIRST INCIDENCE	29 (T)	29 (T)	---	29 (T)	29 (T)	---
<b>STATISTICAL TESTS</b>						
POLY 3	P=0.306N	P=0.500	P=0.500N	P=0.292	P=0.500	P=0.500N
POLY 1.5	P=0.306N	P=0.500	P=0.500N	P=0.292	P=0.500	P=0.500N
POLY 6	P=0.306N	P=0.500	P=0.500N	P=0.292	P=0.500	P=0.500N
COCH-ARM / FISHERS	P=0.306N	P=0.500	P=0.500N	P=0.291	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.145N	P=0.274	P=0.158N	P=0.136	P=0.274	P=0.158N

Experiment Number: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	0.156mg/kg/d F	0.312mg/kg/d F	0.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F
<b>Stomach, Forestomach Inflammation</b>						
<b>LESION RATES</b>						
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	---	---	---	---	---	---
<b>STATISTICAL TESTS</b>						
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: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	0.156mg/kg/d F	0.312mg/kg/d F	0.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F
<b>Stomach, Forestomach Ulcer</b>						
<b>LESION RATES</b>						
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	---	---	---	---	---	---
<b>STATISTICAL TESTS</b>						
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: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	0.156mg/kg/d F	0.312mg/kg/d F	0.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F
<b>Stomach, Forestomach: Epithelium Hyperplasia</b>						
<b>LESION RATES</b>						
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	---	---	---	---	---	---
<b>STATISTICAL TESTS</b>						
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: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

## P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

Time Report Requested: 12:37:08

First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	0.156mg/kg/d F	0.312mg/kg/d F	0.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F
Thymus Atrophy						
<b>LESION RATES</b>						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	8/10 (80%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	8/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	80%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	8/10 (80%)
FIRST INCIDENCE	---	---	---	---	---	29 (T)
<b>STATISTICAL TESTS</b>						
POLY 3	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**

Experiment Number: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

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First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	0.156mg/kg/d F	0.312mg/kg/d F	0.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F
Thymus: Lymphocyte Apoptosis						
<b>LESION RATES</b>						
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	---	---	---	---	---	---
<b>STATISTICAL TESTS</b>						
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: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

## P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

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First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	0.156mg/kg/d F	0.312mg/kg/d F	0.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F
<b>Uterus Dilation</b>						
<b>LESION RATES</b>						
OVERALL (a)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	2/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	20%	0%	0%	0%	0%	0%
TERMINAL (d)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	29 (T)	---	---	---	---	---
<b>STATISTICAL TESTS</b>						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.227N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.227N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.227N
COCH-ARM / FISHERS	P=0.132N	(e)	(e)	(e)	(e)	P=0.237N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.066N

Experiment Number: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 02/06/2018

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First Dose M/F: 02/07/12 / 02/08/12

Lab: BAT

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

DOSE	Females					
	0mg/kg/d F	0.156mg/kg/d F	0.312mg/kg/d F	0.625mg/kg/d F	1.25mg/kg/d F	2.5mg/kg/d F
<b>Uterus: Bilateral Dilation</b>						
<b>LESION RATES</b>						
OVERALL (a)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	2/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	20%	0%	0%	0%	0%	0%
TERMINAL (d)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	29 (T)	---	---	---	---	---
<b>STATISTICAL TESTS</b>						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.227N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.227N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.227N
COCH-ARM / FISHERS	P=0.132N	(e)	(e)	(e)	(e)	P=0.237N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.066N

Experiment Number: 20615 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorodecanoic Acid

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First Dose M/F: 02/07/12 / 02/08/12

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 \*\*\*