

**Experiment Number:** 20614 - 01  
**Test Type:** CHRONIC  
**Route:** DOSED FEED  
**Species/Strain:** RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
Perfluorooctanoic Acid  
**CAS Number:** 335-67-1

**Date Report Requested:** 07/26/2018  
**Time Report Requested:** 19:57:52  
**First Dose M/F:** 10/27/08 / 10/28/08  
**Lab:** BAT

Male SSACs 0-0, 0-150, 0-300

<b>NTP Study Number:</b>	C20614		
<b>Lock Date:</b>	01/10/2012		
<b>Cage Range:</b>	ALL		
<b>Date Range:</b>	ALL		
<b>Reasons For Removal:</b>	25017 SSAC		
<b>Removal Date Range:</b>	ALL		
<b>Treatment Groups:</b>	Include 001 0/0 ppm	Include 003 0/150 ppm	Include 007 0/300 ppm
<b>Study Gender:</b>	Both		
<b>TDMSE Version:</b>	2.5.0.0_sfh		
<b>PWG Approval Date:</b>	07/25/2018		

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

**MALE RATS**

**Organ**

Heart

Kidney

Kidney: Renal Tubule

Liver

Liver: Hepatocyte

Liver: Hepatocyte, Centrilobular

Spleen: Lymphoid Follicle

Stomach, Glandular: Submucosa

Thyroid Gland: Follicular Cell

**Morphology**

Cardiomyopathy

Accumulation, Hyaline Droplet

Nephropathy Chronic Progressive

Mineral

Necrosis

Pigment

Cytoplasmic Alteration

Hypertrophy

Single Cell Death

Hypertrophy

Atrophy

Inflammation Chronic

Hypertrophy

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
LAST REMOVAL AT 16 WEEKS**

---

DOSE	Males		
	0/0 ppm	0/150 ppm	0/300 ppm
<b>Adrenal Cortex Hyperplasia</b>			
<b>LESION RATES</b>			
OVERALL (a)	1/10 (10%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%
INT SACRIFICE 1	1/10 (10%)	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	109 (I)	---	---
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.270N	P=0.500N	P=0.500N
POLY 1.5	P=0.270N	P=0.500N	P=0.500N
POLY 6	P=0.270N	P=0.500N	P=0.500N
COCH-ARM / FISHERS	P=0.267N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.152N	P=0.159N	P=0.159N

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---

DOSE	Males		
	0/0 ppm	0/150 ppm	0/300 ppm
<b>Adrenal Cortex Hypertrophy</b>			
<b>LESION RATES</b>			
OVERALL (a)	2/10 (20%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	2/10.00	1/10.00	0/10.00
POLY-3 PERCENT (g)	20%	10%	0%
INT SACRIFICE 1	2/10 (20%)	1/10 (10%)	0/10 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	109 (I)	109 (I)	---
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.135N	P=0.500N	P=0.227N
POLY 1.5	P=0.135N	P=0.500N	P=0.227N
POLY 6	P=0.135N	P=0.500N	P=0.227N
COCH-ARM / FISHERS	P=0.132N	P=0.500N	P=0.237N
MAX-ISO-POLY-3	P=0.096N	P=0.275N	P=0.067N

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---

DOSE	Males		
	0/0 ppm	0/150 ppm	0/300 ppm
<b>Adrenal Cortex</b>			
<b>Vacuolization Cytoplasmic</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	10%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)	1/10 (10%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	109 (I)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.270	(e)	P=0.500
POLY 1.5	P=0.270	(e)	P=0.500
POLY 6	P=0.270	(e)	P=0.500
COCH-ARM / FISHERS	P=0.267	(e)	P=0.500
MAX-ISO-POLY-3	P=0.152	(e)	P=0.159

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
LAST REMOVAL AT 16 WEEKS**

---

DOSE	Males		
	0/0 ppm	0/150 ppm	0/300 ppm
<b>Heart</b>			
<b>Cardiomyopathy</b>			
<b>LESION RATES</b>			
OVERALL (a)	4/10 (40%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	4/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	40%	0%	0%
INT SACRIFICE 1	4/10 (40%)	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	109 (I)	---	---
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.004N**	P=0.033N*	P=0.033N*
POLY 1.5	P=0.004N**	P=0.033N*	P=0.033N*
POLY 6	P=0.004N**	P=0.033N*	P=0.033N*
COCH-ARM / FISHERS	P=0.011N*	P=0.043N*	P=0.043N*
MAX-ISO-POLY-3	P<0.001N**	P=0.007N**	P=0.007N**

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---

DOSE	Males		
	0/0 ppm	0/150 ppm	0/300 ppm
<b>Kidney</b>			
Accumulation, Hyaline Droplet			
<b>LESION RATES</b>			
OVERALL (a)	2/10 (20%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	2/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	20%	0%	0%
INT SACRIFICE 1	2/10 (20%)	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	109 (I)	---	---
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.084N	P=0.227N	P=0.227N
POLY 1.5	P=0.084N	P=0.227N	P=0.227N
POLY 6	P=0.084N	P=0.227N	P=0.227N
COCH-ARM / FISHERS	P=0.089N	P=0.237N	P=0.237N
MAX-ISO-POLY-3	P=0.043N*	P=0.067N	P=0.067N

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---

DOSE	Males		
	0/0 ppm	0/150 ppm	0/300 ppm
<b>Kidney Fibrosis Focal</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	10%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)	1/10 (10%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	109 (I)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.270	(e)	P=0.500
POLY 1.5	P=0.270	(e)	P=0.500
POLY 6	P=0.270	(e)	P=0.500
COCH-ARM / FISHERS	P=0.267	(e)	P=0.500
MAX-ISO-POLY-3	P=0.152	(e)	P=0.159

---



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LAST REMOVAL AT 16 WEEKS**

---

DOSE	Males		
	0/0 ppm	0/150 ppm	0/300 ppm
<b>Kidney</b>			
<b>Nephropathy Chronic Progressive</b>			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	10/10 (100%)	4/10 (40%)	4/10 (40%)
POLY-3 RATE (b)	10/10.00	4/10.00	4/10.00
POLY-3 PERCENT (g)	100%	40%	40%
INT SACRIFICE 1	10/10 (100%)	4/10 (40%)	4/10 (40%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	109 (I)	109 (I)	109 (I)
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.002N**	P<0.001N**	P<0.001N**
POLY 1.5	P=0.002N**	P<0.001N**	P<0.001N**
POLY 6	P=0.002N**	P<0.001N**	P<0.001N**
COCH-ARM / FISHERS	P=0.006N**	P=0.005N**	P=0.005N**
MAX-ISO-POLY-3	P<0.001N**	P<0.001N**	P<0.001N**

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---

DOSE	Males		
	0/0 ppm	0/150 ppm	0/300 ppm
<b>Kidney: Pelvis Dilation</b>			
<b>LESION RATES</b>			
OVERALL (a)	1/10 (10%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%
INT SACRIFICE 1	1/10 (10%)	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	109 (I)	---	---
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.270N	P=0.500N	P=0.500N
POLY 1.5	P=0.270N	P=0.500N	P=0.500N
POLY 6	P=0.270N	P=0.500N	P=0.500N
COCH-ARM / FISHERS	P=0.267N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.152N	P=0.159N	P=0.159N

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LAST REMOVAL AT 16 WEEKS**

---

DOSE	Males		
	0/0 ppm	0/150 ppm	0/300 ppm
<b>Kidney: Renal Tubule Mineral</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	4/10 (40%)	5/10 (50%)
POLY-3 RATE (b)	0/10.00	4/10.00	5/10.00
POLY-3 PERCENT (g)	0%	40%	50%
INT SACRIFICE 1	0/10 (0%)	4/10 (40%)	5/10 (50%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	109 (I)	109 (I)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.009**	P=0.033*	P=0.008**
POLY 1.5	P=0.009**	P=0.033*	P=0.008**
POLY 6	P=0.009**	P=0.033*	P=0.008**
COCH-ARM / FISHERS	P=0.014*	P=0.043*	P=0.016*
MAX-ISO-POLY-3	P=0.005**	P=0.007**	P<0.001**

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LAST REMOVAL AT 16 WEEKS**

---

DOSE	Males		
	0/0 ppm	0/150 ppm	0/300 ppm
<hr/>			
Liver			
Clear Cell Focus			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	1/10.00	0/10.00
POLY-3 PERCENT (g)	0%	10%	0%
INT SACRIFICE 1	0/10 (0%)	1/10 (10%)	0/10 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	109 (l)	---
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.730	P=0.500	(e)
POLY 1.5	P=0.730	P=0.500	(e)
POLY 6	P=0.730	P=0.500	(e)
COCH-ARM / FISHERS	P=0.733	P=0.500	(e)
MAX-ISO-POLY-3	P=0.376N	P=0.159	(e)

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LAST REMOVAL AT 16 WEEKS**

---

DOSE	Males		
	0/0 ppm	0/150 ppm	0/300 ppm
<hr/>			
Liver			
Extramedullary Hematopoiesis			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	1/10.00	0/10.00
POLY-3 PERCENT (g)	0%	10%	0%
INT SACRIFICE 1	0/10 (0%)	1/10 (10%)	0/10 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	109 (l)	---
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.730	P=0.500	(e)
POLY 1.5	P=0.730	P=0.500	(e)
POLY 6	P=0.730	P=0.500	(e)
COCH-ARM / FISHERS	P=0.733	P=0.500	(e)
MAX-ISO-POLY-3	P=0.376N	P=0.159	(e)

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LAST REMOVAL AT 16 WEEKS**

---

DOSE	Males		
	0/0 ppm	0/150 ppm	0/300 ppm
<hr/>			
Liver Inflammation Focal			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	8/10 (80%)	9/10 (90%)	8/10 (80%)
POLY-3 RATE (b)	8/10.00	9/10.00	8/10.00
POLY-3 PERCENT (g)	80%	90%	80%
INT SACRIFICE 1	8/10 (80%)	9/10 (90%)	8/10 (80%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	109 (I)	109 (I)	109 (I)
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.613	P=0.500	P=0.702
POLY 1.5	P=0.613	P=0.500	P=0.702
POLY 6	P=0.613	P=0.500	P=0.702
COCH-ARM / FISHERS	P=0.618	P=0.500	P=0.709N
MAX-ISO-POLY-3	P=0.529N	P=0.275	P=1.000

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LAST REMOVAL AT 16 WEEKS**

---

DOSE	Males		
	0/0 ppm	0/150 ppm	0/300 ppm
<hr/>			
Liver Necrosis			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	6/10 (60%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	6/10.00	2/10.00
POLY-3 PERCENT (g)	0%	60%	20%
INT SACRIFICE 1	0/10 (0%)	6/10 (60%)	2/10 (20%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	109 (I)	109 (I)
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.192	P<0.001**	P=0.227
POLY 1.5	P=0.192	P<0.001**	P=0.227
POLY 6	P=0.192	P<0.001**	P=0.227
COCH-ARM / FISHERS	P=0.224	P=0.005**	P=0.237
MAX-ISO-POLY-3	P=0.013*	P<0.001**	P=0.067

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---

DOSE	Males		
	0/0 ppm	0/150 ppm	0/300 ppm
<hr/>			
Liver Pigment			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	8/10 (80%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	8/10.00	10/10.00
POLY-3 PERCENT (g)	0%	80%	100%
INT SACRIFICE 1	0/10 (0%)	8/10 (80%)	10/10 (100%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	109 (l)	109 (l)
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	(e)

---



Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

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

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 07/26/2018

Time Report Requested: 19:57:52

First Dose M/F: 10/27/08 / 10/28/08

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
LAST REMOVAL AT 16 WEEKS**

---

DOSE	Males		
	0/0 ppm	0/150 ppm	0/300 ppm
<hr/>			
Liver: Bile Duct Hyperplasia			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	10%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)	1/10 (10%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	109 (I)
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.270	(e)	P=0.500
POLY 1.5	P=0.270	(e)	P=0.500
POLY 6	P=0.270	(e)	P=0.500
COCH-ARM / FISHERS	P=0.267	(e)	P=0.500
MAX-ISO-POLY-3	P=0.152	(e)	P=0.159

---

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

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

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 07/26/2018

Time Report Requested: 19:57:52

First Dose M/F: 10/27/08 / 10/28/08

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
LAST REMOVAL AT 16 WEEKS**

---

DOSE	Males		
	0/0 ppm	0/150 ppm	0/300 ppm
<hr/>			
Liver: Hepatocyte Cytoplasmic Alteration			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	100%	100%
INT SACRIFICE 1	0/10 (0%)	10/10 (100%)	10/10 (100%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	109 (l)	109 (l)
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)

---

Experiment Number: 20614 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Perfluorooctanoic Acid  
 CAS Number: 335-67-1

Date Report Requested: 07/26/2018  
 Time Report Requested: 19:57:52  
 First Dose M/F: 10/27/08 / 10/28/08  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
 LAST REMOVAL AT 16 WEEKS**

DOSE	Males		
	0/0 ppm	0/150 ppm	0/300 ppm
<b>Liver: Hepatocyte Hypertrophy</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	10/10 (100%)	6/10 (60%)
POLY-3 RATE (b)	0/10.00	10/10.00	6/10.00
POLY-3 PERCENT (g)	0%	100%	60%
INT SACRIFICE 1	0/10 (0%)	10/10 (100%)	6/10 (60%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	109 (l)	109 (l)
<b>STATISTICAL TESTS</b>			
POLY 3	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P=0.007**	P<0.001**	P=0.005**
MAX-ISO-POLY-3	P<0.001**	(e)	P<0.001**

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

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

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 07/26/2018

Time Report Requested: 19:57:52

First Dose M/F: 10/27/08 / 10/28/08

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
LAST REMOVAL AT 16 WEEKS**

---

DOSE	Males		
	0/0 ppm	0/150 ppm	0/300 ppm
<hr/>			
Liver: Hepatocyte			
Single Cell Death			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	100%	100%
INT SACRIFICE 1	0/10 (0%)	10/10 (100%)	10/10 (100%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	109 (l)	109 (l)
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)

---

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

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

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 07/26/2018

Time Report Requested: 19:57:52

First Dose M/F: 10/27/08 / 10/28/08

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
LAST REMOVAL AT 16 WEEKS**

---

DOSE	Males		
	0/0 ppm	0/150 ppm	0/300 ppm
<hr/>			
Liver: Hepatocyte, Centrilobular Hypertrophy			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/10 (0%)	4/10 (40%)
POLY-3 RATE (b)	0/10.00	0/10.00	4/10.00
POLY-3 PERCENT (g)	0%	0%	40%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)	4/10 (40%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	109 (I)
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.004**	(e)	P=0.033*
POLY 1.5	P=0.004**	(e)	P=0.033*
POLY 6	P=0.004**	(e)	P=0.033*
COCH-ARM / FISHERS	P=0.011*	(e)	P=0.043*
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.007**

---

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

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

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 07/26/2018

Time Report Requested: 19:57:52

First Dose M/F: 10/27/08 / 10/28/08

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
LAST REMOVAL AT 16 WEEKS**

DOSE	Males		
	0/0 ppm	0/150 ppm	0/300 ppm
<b>Lung</b>			
<b>Inflammation Chronic</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	1/10 (10%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	1/10.00	1/10.00
POLY-3 PERCENT (g)	0%	10%	10%
INT SACRIFICE 1	0/10 (0%)	1/10 (10%)	1/10 (10%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	109 (I)	109 (I)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.333	P=0.500	P=0.500
POLY 1.5	P=0.333	P=0.500	P=0.500
POLY 6	P=0.333	P=0.500	P=0.500
COCH-ARM / FISHERS	P=0.327	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.269	P=0.159	P=0.159

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

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

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 07/26/2018

Time Report Requested: 19:57:52

First Dose M/F: 10/27/08 / 10/28/08

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
LAST REMOVAL AT 16 WEEKS**

---

DOSE	Males		
	0/0 ppm	0/150 ppm	0/300 ppm
<b>Lung: Alveolus Infiltration Cellular Histiocyte</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	1/10.00	0/10.00
POLY-3 PERCENT (g)	0%	10%	0%
INT SACRIFICE 1	0/10 (0%)	1/10 (10%)	0/10 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	109 (l)	---
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.730	P=0.500	(e)
POLY 1.5	P=0.730	P=0.500	(e)
POLY 6	P=0.730	P=0.500	(e)
COCH-ARM / FISHERS	P=0.733	P=0.500	(e)
MAX-ISO-POLY-3	P=0.376N	P=0.159	(e)

---

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

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

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 07/26/2018

Time Report Requested: 19:57:52

First Dose M/F: 10/27/08 / 10/28/08

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
LAST REMOVAL AT 16 WEEKS**

---

DOSE	Males		
	0/0 ppm	0/150 ppm	0/300 ppm
<b>Lymph Node, Mandibular Atrophy</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	2/10 (20%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	2/10.00	1/10.00
POLY-3 PERCENT (g)	0%	20%	10%
INT SACRIFICE 1	0/10 (0%)	2/10 (20%)	1/10 (10%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	109 (I)	109 (I)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.357	P=0.227	P=0.500
POLY 1.5	P=0.357	P=0.227	P=0.500
POLY 6	P=0.357	P=0.227	P=0.500
COCH-ARM / FISHERS	P=0.355	P=0.237	P=0.500
MAX-ISO-POLY-3	P=0.187	P=0.067	P=0.159

---



Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

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

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 07/26/2018

Time Report Requested: 19:57:52

First Dose M/F: 10/27/08 / 10/28/08

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
LAST REMOVAL AT 16 WEEKS**

---

DOSE	Males		
	0/0 ppm	0/150 ppm	0/300 ppm
<b>Lymph Node, Mesenteric Atrophy</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	10%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)	1/10 (10%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	109 (I)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.270	(e)	P=0.500
POLY 1.5	P=0.270	(e)	P=0.500
POLY 6	P=0.270	(e)	P=0.500
COCH-ARM / FISHERS	P=0.267	(e)	P=0.500
MAX-ISO-POLY-3	P=0.152	(e)	P=0.159

---

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

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

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 07/26/2018

Time Report Requested: 19:57:52

First Dose M/F: 10/27/08 / 10/28/08

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
LAST REMOVAL AT 16 WEEKS**

---

DOSE	Males		
	0/0 ppm	0/150 ppm	0/300 ppm
<hr/>			
Parathyroid Gland Atrophy			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/9 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/9.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	10%
INT SACRIFICE 1	0/10 (0%)	0/9 (0%)	1/10 (10%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	109 (l)
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.274	(e)	P=0.500
POLY 1.5	P=0.274	(e)	P=0.500
POLY 6	P=0.274	(e)	P=0.500
COCH-ARM / FISHERS	P=0.270	(e)	P=0.500
MAX-ISO-POLY-3	P=0.158	(e)	P=0.159

---

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

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

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 07/26/2018

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First Dose M/F: 10/27/08 / 10/28/08

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
LAST REMOVAL AT 16 WEEKS**

---

DOSE	Males		
	0/0 ppm	0/150 ppm	0/300 ppm
<b>Pituitary Gland Cyst</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	10%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)	1/10 (10%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	109 (I)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.270	(e)	P=0.500
POLY 1.5	P=0.270	(e)	P=0.500
POLY 6	P=0.270	(e)	P=0.500
COCH-ARM / FISHERS	P=0.267	(e)	P=0.500
MAX-ISO-POLY-3	P=0.152	(e)	P=0.159

---

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

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

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 07/26/2018

Time Report Requested: 19:57:52

First Dose M/F: 10/27/08 / 10/28/08

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
LAST REMOVAL AT 16 WEEKS**

---

DOSE	Males		
	0/0 ppm	0/150 ppm	0/300 ppm
<b>Pituitary Gland: Pars Distalis Cyst</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	1/10.00	0/10.00
POLY-3 PERCENT (g)	0%	10%	0%
INT SACRIFICE 1	0/10 (0%)	1/10 (10%)	0/10 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	109 (l)	---
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.730	P=0.500	(e)
POLY 1.5	P=0.730	P=0.500	(e)
POLY 6	P=0.730	P=0.500	(e)
COCH-ARM / FISHERS	P=0.733	P=0.500	(e)
MAX-ISO-POLY-3	P=0.376N	P=0.159	(e)

---

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

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

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 07/26/2018

Time Report Requested: 19:57:52

First Dose M/F: 10/27/08 / 10/28/08

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
LAST REMOVAL AT 16 WEEKS**

---

DOSE	Males		
	0/0 ppm	0/150 ppm	0/300 ppm
<b>Spleen: Lymphoid Follicle Atrophy</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/10 (0%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	0/10.00	3/10.00
POLY-3 PERCENT (g)	0%	0%	30%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)	3/10 (30%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	109 (I)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.023*	(e)	P=0.095
POLY 1.5	P=0.023*	(e)	P=0.095
POLY 6	P=0.023*	(e)	P=0.095
COCH-ARM / FISHERS	P=0.031*	(e)	P=0.105
MAX-ISO-POLY-3	P=0.010**	(e)	P=0.025*

---

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

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

Perfluorooctanoic Acid

CAS Number: 335-67-1

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First Dose M/F: 10/27/08 / 10/28/08

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
LAST REMOVAL AT 16 WEEKS**

---

DOSE	Males		
	0/0 ppm	0/150 ppm	0/300 ppm
<b>Stomach, Glandular: Epithelium Erosion</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	10%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)	1/10 (10%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	109 (I)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.270	(e)	P=0.500
POLY 1.5	P=0.270	(e)	P=0.500
POLY 6	P=0.270	(e)	P=0.500
COCH-ARM / FISHERS	P=0.267	(e)	P=0.500
MAX-ISO-POLY-3	P=0.152	(e)	P=0.159

---

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

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

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 07/26/2018

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First Dose M/F: 10/27/08 / 10/28/08

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
LAST REMOVAL AT 16 WEEKS**

DOSE	Males		
	0/0 ppm	0/150 ppm	0/300 ppm
<b>Stomach, Glandular: Submucosa Inflammation Chronic</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	2/10 (20%)	5/10 (50%)
POLY-3 RATE (b)	0/10.00	2/10.00	5/10.00
POLY-3 PERCENT (g)	0%	20%	50%
INT SACRIFICE 1	0/10 (0%)	2/10 (20%)	5/10 (50%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	109 (I)	109 (I)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.005**	P=0.227	P=0.008**
POLY 1.5	P=0.005**	P=0.227	P=0.008**
POLY 6	P=0.005**	P=0.227	P=0.008**
COCH-ARM / FISHERS	P=0.009**	P=0.237	P=0.016*
MAX-ISO-POLY-3	P=0.003**	P=0.067	P<0.001**

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

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

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 07/26/2018

Time Report Requested: 19:57:52

First Dose M/F: 10/27/08 / 10/28/08

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
LAST REMOVAL AT 16 WEEKS**

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DOSE	Males		
	0/0 ppm	0/150 ppm	0/300 ppm
<hr/>			
Thymus Atrophy			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	1/10 (10%)	0/10 (0%)	3/10 (30%)
POLY-3 RATE (b)	1/10.00	0/10.00	3/10.00
POLY-3 PERCENT (g)	10%	0%	30%
INT SACRIFICE 1	1/10 (10%)	0/10 (0%)	3/10 (30%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	109 (I)	---	109 (I)
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.157	P=0.500N	P=0.292
POLY 1.5	P=0.157	P=0.500N	P=0.292
POLY 6	P=0.157	P=0.500N	P=0.292
COCH-ARM / FISHERS	P=0.162	P=0.500N	P=0.291
MAX-ISO-POLY-3	P=0.062	P=0.159N	P=0.136

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Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 07/26/2018

Time Report Requested: 19:57:52

First Dose M/F: 10/27/08 / 10/28/08

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
LAST REMOVAL AT 16 WEEKS

DOSE	Males		
	0/0 ppm	0/150 ppm	0/300 ppm
<b>Thyroid Gland: Follicular Cell Hypertrophy</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	2/10 (20%)	6/10 (60%)
POLY-3 RATE (b)	0/10.00	2/10.00	6/10.00
POLY-3 PERCENT (g)	0%	20%	60%
INT SACRIFICE 1	0/10 (0%)	2/10 (20%)	6/10 (60%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	109 (I)	109 (I)
<b>STATISTICAL TESTS</b>			
POLY 3	P<0.001**	P=0.227	P<0.001**
POLY 1.5	P<0.001**	P=0.227	P<0.001**
POLY 6	P<0.001**	P=0.227	P<0.001**
COCH-ARM / FISHERS	P=0.003**	P=0.237	P=0.005**
MAX-ISO-POLY-3	P<0.001**	P=0.067	P<0.001**

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

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

Perfluorooctanoic Acid

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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 \*\*\*