

Experiment Number: 20614 - 02
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: 06/07/2018
Time Report Requested: 16:20:03
First Dose M/F: 07/27/09 / NA
Lab: BAT

Custom Rpt (Litter-Based) -- 0-0, 300-0

NTP Study Number:	C20614B		
Lock Date:	01/10/2012		
Cage Range:	ALL		
Date Range:	ALL		
Reasons For Removal:	25021 TSAC	25020 NATD	25019 MSAC
Removal Date Range:	ALL		
Treatment Groups:	Include 001 0/0 ppm	Include 002 300/0 ppm	
Study Gender:	Male		
TDMSE Version:	2.5.0.0_sfh		
PWG Approval Date:	NONE		

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

MALE RATS

Organ

Adrenal Cortex

Nose: Olfactory Epithelium

Morphology

Degeneration Cystic

Accumulation, Hyaline Droplet

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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Adrenal Cortex
Degeneration Cystic

LESION RATES

OVERALL (a)	5/50 (10%)	12/50 (24%)
LITTERS (b)	4/25 (16%)	11/25 (44%)
POLY-3 RATE (c)	5/43.13	12/44.30
POLY-3 PERCENT (g)	11.6%	27.1%
TERMINAL (d)	5/36 (14%)	6/35 (17%)
FIRST INCIDENCE	743 (T)	617

STATISTICAL TESTS

POLY 3	P=0.057
POLY 1.5	P=0.057
POLY 6	P=0.060
RAO-SCOTT	P=0.063
LITTER C-A/FISHERS	P=0.031*

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TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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**Adrenal Cortex
Hypertrophy**

LESION RATES

OVERALL (a)	18/50 (36%)	23/50 (46%)
LITTERS (b)	16/25 (64%)	18/25 (72%)
POLY-3 RATE (c)	18/43.13	23/43.60
POLY-3 PERCENT (g)	41.7%	52.8%
TERMINAL (d)	18/36 (50%)	20/35 (57%)
FIRST INCIDENCE	743 (T)	660

STATISTICAL TESTS

POLY 3	P=0.205
POLY 1.5	P=0.215
POLY 6	P=0.201
RAO-SCOTT	P=0.200
LITTER C-A/FISHERS	P=0.381

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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Adrenal Cortex: Zona Fasciculata
Hyperplasia

LESION RATES

OVERALL (a)	2/50 (4%)	6/50 (12%)
LITTERS (b)	2/25 (8%)	6/25 (24%)
POLY-3 RATE (c)	2/43.13	6/44.23
POLY-3 PERCENT (g)	4.6%	13.6%
TERMINAL (d)	2/36 (6%)	3/35 (9%)
FIRST INCIDENCE	743 (T)	583

STATISTICAL TESTS

POLY 3	P=0.141
POLY 1.5	P=0.140
POLY 6	P=0.143
RAO-SCOTT	P=0.157
LITTER C-A/FISHERS	P=0.123

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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**Adrenal Medulla
Hyperplasia**

LESION RATES

OVERALL (a)	13/50 (26%)	6/50 (12%)
LITTERS (b)	12/25 (48%)	6/25 (24%)
POLY-3 RATE (c)	13/43.71	6/43.70
POLY-3 PERCENT (g)	29.7%	13.7%
TERMINAL (d)	11/36 (31%)	4/35 (11%)
FIRST INCIDENCE	624	617

STATISTICAL TESTS

POLY 3	P=0.058N
POLY 1.5	P=0.056N
POLY 6	P=0.059N
RAO-SCOTT	P=0.067N
LITTER C-A/FISHERS	P=0.070N

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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**Blood Vessel
Inflammation**

LESION RATES

OVERALL (a)	5/50 (10%)	5/50 (10%)
LITTERS (b)	5/25 (20%)	5/25 (20%)
POLY-3 RATE (c)	5/43.13	5/43.83
POLY-3 PERCENT (g)	11.6%	11.4%
TERMINAL (d)	5/36 (14%)	2/35 (6%)
FIRST INCIDENCE	743 (T)	660

STATISTICAL TESTS

POLY 3	P=0.620N
POLY 1.5	P=0.619N
POLY 6	P=0.618N
RAO-SCOTT	P=0.604N
LITTER C-A/FISHERS	P=0.637

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Time Report Requested: 16:20:03

First Dose M/F: 07/27/09 / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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**Blood Vessel
Inflammation Chronic**

LESION RATES

OVERALL (a)	4/50 (8%)	9/50 (18%)
LITTERS (b)	4/25 (16%)	8/25 (32%)
POLY-3 RATE (c)	4/43.69	9/44.16
POLY-3 PERCENT (g)	9.2%	20.4%
TERMINAL (d)	2/36 (6%)	5/35 (14%)
FIRST INCIDENCE	655	617

STATISTICAL TESTS

POLY 3	P=0.118
POLY 1.5	P=0.120
POLY 6	P=0.116
RAO-SCOTT	P=0.143
LITTER C-A/FISHERS	P=0.160

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First Dose M/F: 07/27/09 / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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**Bone Marrow
Hyperplasia**

LESION RATES

OVERALL (a)	4/50 (8%)	6/50 (12%)
LITTERS (b)	4/25 (16%)	6/25 (24%)
POLY-3 RATE (c)	4/44.51	6/45.25
POLY-3 PERCENT (g)	9%	13.3%
TERMINAL (d)	1/36 (3%)	0/35 (0%)
FIRST INCIDENCE	302	568

STATISTICAL TESTS

POLY 3	P=0.380
POLY 1.5	P=0.378
POLY 6	P=0.387
RAO-SCOTT	P=0.366
LITTER C-A/FISHERS	P=0.363

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Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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**Brain
Necrosis**

LESION RATES

OVERALL (a)	2/50 (4%)	2/50 (4%)
LITTERS (b)	2/25 (8%)	2/25 (8%)
POLY-3 RATE (c)	2/43.50	2/44.96
POLY-3 PERCENT (g)	4.6%	4.5%
TERMINAL (d)	0/36 (0%)	0/35 (0%)
FIRST INCIDENCE	689	247

STATISTICAL TESTS

POLY 3	P=0.682N
POLY 1.5	P=0.681N
POLY 6	P=0.684N
RAO-SCOTT	P=0.662N
LITTER C-A/FISHERS	P=0.695

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First Dose M/F: 07/27/09 / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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Eye: Retina
Degeneration

LESION RATES

OVERALL (a)	3/50 (6%)	4/50 (8%)
LITTERS (b)	3/25 (12%)	4/25 (16%)
POLY-3 RATE (c)	3/43.71	4/43.27
POLY-3 PERCENT (g)	6.9%	9.2%
TERMINAL (d)	1/36 (3%)	4/35 (11%)
FIRST INCIDENCE	624	743 (T)

STATISTICAL TESTS

POLY 3	P=0.495
POLY 1.5	P=0.502
POLY 6	P=0.486
RAO-SCOTT	P=0.478
LITTER C-A/FISHERS	P=0.500

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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Harderian Gland
Hyperplasia

LESION RATES

OVERALL (a)	2/50 (4%)	1/50 (2%)
LITTERS (b)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	2/43.13	1/43.27
POLY-3 PERCENT (g)	4.6%	2.3%
TERMINAL (d)	2/36 (6%)	1/35 (3%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.499N
POLY 1.5	P=0.496N
POLY 6	P=0.501N
RAO-SCOTT	P=0.497N
LITTER C-A/FISHERS	P=0.500N

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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Heart
Cardiomyopathy

LESION RATES

OVERALL (a)	29/50 (58%)	33/50 (66%)
LITTERS (b)	22/25 (88%)	22/25 (88%)
POLY-3 RATE (c)	29/46.36	33/47.73
POLY-3 PERCENT (g)	62.6%	69.1%
TERMINAL (d)	23/36 (64%)	22/35 (63%)
FIRST INCIDENCE	137	351

STATISTICAL TESTS

POLY 3	P=0.323
POLY 1.5	P=0.302
POLY 6	P=0.350
RAO-SCOTT	P=0.320
LITTER C-A/FISHERS	P=0.666

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First Dose M/F: 07/27/09 / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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**Intestine Large, Colon
Parasite Metazoan**

LESION RATES

OVERALL (a)	7/49 (14%)	8/50 (16%)
LITTERS (b)	7/25 (28%)	8/25 (32%)
POLY-3 RATE (c)	7/42.22	8/43.57
POLY-3 PERCENT (g)	16.6%	18.4%
TERMINAL (d)	7/36 (19%)	7/35 (20%)
FIRST INCIDENCE	743 (T)	660

STATISTICAL TESTS

POLY 3	P=0.527
POLY 1.5	P=0.530
POLY 6	P=0.525
RAO-SCOTT	P=0.512
LITTER C-A/FISHERS	P=0.500

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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Islets, Pancreatic
Hyperplasia

LESION RATES

OVERALL (a)	3/50 (6%)	2/50 (4%)
LITTERS (b)	3/25 (12%)	2/25 (8%)
POLY-3 RATE (c)	3/43.13	2/43.57
POLY-3 PERCENT (g)	7%	4.6%
TERMINAL (d)	3/36 (8%)	1/35 (3%)
FIRST INCIDENCE	743 (T)	660

STATISTICAL TESTS

POLY 3	P=0.495N
POLY 1.5	P=0.493N
POLY 6	P=0.495N
RAO-SCOTT	P=0.487N
LITTER C-A/FISHERS	P=0.500N

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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**Kidney
Infarct**

LESION RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)
LITTERS (b)	1/25 (4%)	2/25 (8%)
POLY-3 RATE (c)	1/43.13	2/43.27
POLY-3 PERCENT (g)	2.3%	4.6%
TERMINAL (d)	1/36 (3%)	2/35 (6%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.501
POLY 1.5	P=0.504
POLY 6	P=0.499
RAO-SCOTT	P=0.499
LITTER C-A/FISHERS	P=0.500

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TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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Kidney
Nephropathy Chronic Progressive

LESION RATES

OVERALL (a)	48/50 (96%)	48/50 (96%)
LITTERS (b)	25/25 (100%)	25/25 (100%)
POLY-3 RATE (c)	48/48.07	48/48.16
POLY-3 PERCENT (g)	99.9%	99.7%
TERMINAL (d)	36/36 (100%)	35/35 (100%)
FIRST INCIDENCE	194	351

STATISTICAL TESTS

POLY 3	P=1.000N
POLY 1.5	P=0.950N
POLY 6	P=1.000N
RAO-SCOTT	P=0.967N
LITTER C-A/FISHERS	P=1.000

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
------	---------	-----------

**Kidney: Cortex
Cyst**

LESION RATES

OVERALL (a)	1/50 (2%)	3/50 (6%)
LITTERS (b)	1/25 (4%)	3/25 (12%)
POLY-3 RATE (c)	1/43.13	3/43.30
POLY-3 PERCENT (g)	2.3%	6.9%
TERMINAL (d)	1/36 (3%)	1/35 (3%)
FIRST INCIDENCE	743 (T)	739

STATISTICAL TESTS

POLY 3	P=0.306
POLY 1.5	P=0.309
POLY 6	P=0.305
RAO-SCOTT	P=0.326
LITTER C-A/FISHERS	P=0.305

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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**Kidney: Papilla, Urothelium
Hyperplasia**

LESION RATES

OVERALL (a)	2/50 (4%)	3/50 (6%)
LITTERS (b)	2/25 (8%)	3/25 (12%)
POLY-3 RATE (c)	2/43.13	3/44.38
POLY-3 PERCENT (g)	4.6%	6.8%
TERMINAL (d)	2/36 (6%)	0/35 (0%)
FIRST INCIDENCE	743 (T)	617

STATISTICAL TESTS

POLY 3	P=0.513
POLY 1.5	P=0.511
POLY 6	P=0.518
RAO-SCOTT	P=0.500
LITTER C-A/FISHERS	P=0.500

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Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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Liver

Clear Cell Focus

LESION RATES

OVERALL (a)	35/50 (70%)	35/50 (70%)
LITTERS (b)	22/25 (88%)	22/25 (88%)
POLY-3 RATE (c)	35/44.33	35/44.01
POLY-3 PERCENT (g)	79%	79.5%
TERMINAL (d)	32/36 (89%)	33/35 (94%)
FIRST INCIDENCE	302	484

STATISTICAL TESTS

POLY 3	P=0.583
POLY 1.5	P=0.594N
POLY 6	P=0.558
RAO-SCOTT	P=0.567
LITTER C-A/FISHERS	P=0.666

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Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
------	---------	-----------

Liver
Degeneration Cystic

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	0/25 (0%)
POLY-3 RATE (c)	2/43.13	0/43.27
POLY-3 PERCENT (g)	4.6%	0%
TERMINAL (d)	2/36 (6%)	0/35 (0%)
FIRST INCIDENCE	743 (T)	---

STATISTICAL TESTS

POLY 3	P=0.236N
POLY 1.5	P=0.235N
POLY 6	P=0.237N
RAO-SCOTT	P=0.330N
LITTER C-A/FISHERS	P=0.245N

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 16:20:03

First Dose M/F: 07/27/09 / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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Liver
Eosinophilic Focus

LESION RATES

OVERALL (a)	3/50 (6%)	2/50 (4%)
LITTERS (b)	3/25 (12%)	2/25 (8%)
POLY-3 RATE (c)	3/43.44	2/43.27
POLY-3 PERCENT (g)	6.9%	4.6%
TERMINAL (d)	2/36 (6%)	2/35 (6%)
FIRST INCIDENCE	655	743 (T)

STATISTICAL TESTS

POLY 3	P=0.502N
POLY 1.5	P=0.497N
POLY 6	P=0.507N
RAO-SCOTT	P=0.490N
LITTER C-A/FISHERS	P=0.500N

Experiment Number: 20614 - 02
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: 06/07/2018
Time Report Requested: 16:20:03
First Dose M/F: 07/27/09 / NA
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
------	---------	-----------

Liver
Extramedullary Hematopoiesis

LESION RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)
LITTERS (b)	1/25 (4%)	2/25 (8%)
POLY-3 RATE (c)	1/43.13	2/44.34
POLY-3 PERCENT (g)	2.3%	4.5%
TERMINAL (d)	1/36 (3%)	0/35 (0%)
FIRST INCIDENCE	743 (T)	568

STATISTICAL TESTS

POLY 3	P=0.510
POLY 1.5	P=0.509
POLY 6	P=0.512
RAO-SCOTT	P=0.508
LITTER C-A/FISHERS	P=0.500

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 16:20:03

First Dose M/F: 07/27/09 / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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Liver
Inflammation Focal

LESION RATES

OVERALL (a)	15/50 (30%)	13/50 (26%)
LITTERS (b)	11/25 (44%)	9/25 (36%)
POLY-3 RATE (c)	15/43.44	13/45.73
POLY-3 PERCENT (g)	34.5%	28.4%
TERMINAL (d)	14/36 (39%)	9/35 (26%)
FIRST INCIDENCE	655	366

STATISTICAL TESTS

POLY 3	P=0.348N
POLY 1.5	P=0.359N
POLY 6	P=0.335N
RAO-SCOTT	P=0.393N
LITTER C-A/FISHERS	P=0.387N

Experiment Number: 20614 - 02
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: 06/07/2018
Time Report Requested: 16:20:03
First Dose M/F: 07/27/09 / NA
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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Liver
Necrosis

LESION RATES

OVERALL (a)	2/50 (4%)	1/50 (2%)
LITTERS (b)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	2/43.53	1/43.27
POLY-3 PERCENT (g)	4.6%	2.3%
TERMINAL (d)	1/36 (3%)	1/35 (3%)
FIRST INCIDENCE	624	743 (T)

STATISTICAL TESTS

POLY 3	P=0.502N
POLY 1.5	P=0.498N
POLY 6	P=0.506N
RAO-SCOTT	P=0.507N
LITTER C-A/FISHERS	P=0.500N

Experiment Number: 20614 - 02
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: 06/07/2018
Time Report Requested: 16:20:03
First Dose M/F: 07/27/09 / NA
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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Liver: Bile Duct
Hyperplasia

LESION RATES

OVERALL (a)	24/50 (48%)	25/50 (50%)
LITTERS (b)	20/25 (80%)	19/25 (76%)
POLY-3 RATE (c)	24/43.79	25/45.15
POLY-3 PERCENT (g)	54.8%	55.4%
TERMINAL (d)	21/36 (58%)	19/35 (54%)
FIRST INCIDENCE	655	478

STATISTICAL TESTS

POLY 3	P=0.564
POLY 1.5	P=0.557
POLY 6	P=0.573
RAO-SCOTT	P=0.554
LITTER C-A/FISHERS	P=0.500N

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 16:20:03

First Dose M/F: 07/27/09 / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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Lung
Foreign Body

LESION RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)
LITTERS (b)	1/25 (4%)	2/25 (8%)
POLY-3 RATE (c)	1/43.13	2/43.27
POLY-3 PERCENT (g)	2.3%	4.6%
TERMINAL (d)	1/36 (3%)	2/35 (6%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.501
POLY 1.5	P=0.504
POLY 6	P=0.499
RAO-SCOTT	P=0.499
LITTER C-A/FISHERS	P=0.500

Experiment Number: 20614 - 02
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: 06/07/2018
Time Report Requested: 16:20:03
First Dose M/F: 07/27/09 / NA
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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Lung
Infiltration Cellular Histiocyte

LESION RATES

OVERALL (a)	23/50 (46%)	17/50 (34%)
LITTERS (b)	18/25 (72%)	12/25 (48%)
POLY-3 RATE (c)	23/44.44	17/44.04
POLY-3 PERCENT (g)	51.8%	38.6%
TERMINAL (d)	18/36 (50%)	14/35 (40%)
FIRST INCIDENCE	584	478

STATISTICAL TESTS

POLY 3	P=0.149N
POLY 1.5	P=0.137N
POLY 6	P=0.169N
RAO-SCOTT	P=0.180N
LITTER C-A/FISHERS	P=0.074N

Experiment Number: 20614 - 02
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: 06/07/2018
Time Report Requested: 16:20:03
First Dose M/F: 07/27/09 / NA
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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Lung
Inflammation Chronic

LESION RATES

OVERALL (a)	5/50 (10%)	4/50 (8%)
LITTERS (b)	4/25 (16%)	4/25 (16%)
POLY-3 RATE (c)	5/43.91	4/44.13
POLY-3 PERCENT (g)	11.4%	9.1%
TERMINAL (d)	2/36 (6%)	2/35 (6%)
FIRST INCIDENCE	584	617

STATISTICAL TESTS

POLY 3	P=0.497N
POLY 1.5	P=0.493N
POLY 6	P=0.500N
RAO-SCOTT	P=0.510N
LITTER C-A/FISHERS	P=0.649

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 16:20:03

First Dose M/F: 07/27/09 / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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Lung
Inflammation Granulomatous Focal

LESION RATES

OVERALL (a)	7/50 (14%)	5/50 (10%)
LITTERS (b)	6/25 (24%)	5/25 (20%)
POLY-3 RATE (c)	7/43.13	5/43.29
POLY-3 PERCENT (g)	16.2%	11.6%
TERMINAL (d)	7/36 (19%)	4/35 (11%)
FIRST INCIDENCE	743 (T)	739

STATISTICAL TESTS

POLY 3	P=0.376N
POLY 1.5	P=0.371N
POLY 6	P=0.379N
RAO-SCOTT	P=0.389N
LITTER C-A/FISHERS	P=0.500N

Experiment Number: 20614 - 02
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: 06/07/2018
Time Report Requested: 16:20:03
First Dose M/F: 07/27/09 / NA
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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Lymph Node, Mandibular
Atrophy

LESION RATES

OVERALL (a)	0/49 (0%)	3/50 (6%)
LITTERS (b)	0/25 (0%)	3/25 (12%)
POLY-3 RATE (c)	0/42.22	3/43.53
POLY-3 PERCENT (g)	0%	6.9%
TERMINAL (d)	0/36 (0%)	2/35 (6%)
FIRST INCIDENCE	---	673

STATISTICAL TESTS

POLY 3	P=0.124
POLY 1.5	P=0.125
POLY 6	P=0.123
RAO-SCOTT	P=0.203
LITTER C-A/FISHERS	P=0.117

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 16:20:03

First Dose M/F: 07/27/09 / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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Lymph Node, Mandibular
Ectasia

LESION RATES

OVERALL (a)	3/49 (6%)	0/50 (0%)
LITTERS (b)	3/25 (12%)	0/25 (0%)
POLY-3 RATE (c)	3/42.22	0/43.27
POLY-3 PERCENT (g)	7.1%	0%
TERMINAL (d)	3/36 (8%)	0/35 (0%)
FIRST INCIDENCE	743 (T)	---

STATISTICAL TESTS

POLY 3	P=0.114N
POLY 1.5	P=0.113N
POLY 6	P=0.115N
RAO-SCOTT	P=0.196N
LITTER C-A/FISHERS	P=0.117N

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 16:20:03

First Dose M/F: 07/27/09 / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
------	---------	-----------

Lymph Node, Mandibular
Hyperplasia Lymphoid

LESION RATES

OVERALL (a)	2/49 (4%)	2/50 (4%)
LITTERS (b)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	2/42.22	2/43.29
POLY-3 PERCENT (g)	4.7%	4.6%
TERMINAL (d)	2/36 (6%)	1/35 (3%)
FIRST INCIDENCE	743 (T)	739

STATISTICAL TESTS

POLY 3	P=0.685N
POLY 1.5	P=0.682N
POLY 6	P=0.688N
RAO-SCOTT	P=0.700N
LITTER C-A/FISHERS	P=0.500N

Experiment Number: 20614 - 02
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: 06/07/2018
Time Report Requested: 16:20:03
First Dose M/F: 07/27/09 / NA
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
------	---------	-----------

Lymph Node, Mandibular
Infiltration Cellular Plasma Cell

LESION RATES

OVERALL (a)	2/49 (4%)	3/50 (6%)
LITTERS (b)	2/25 (8%)	3/25 (12%)
POLY-3 RATE (c)	2/42.22	3/44.25
POLY-3 PERCENT (g)	4.7%	6.8%
TERMINAL (d)	2/36 (6%)	1/35 (3%)
FIRST INCIDENCE	743 (T)	568

STATISTICAL TESTS

POLY 3	P=0.521
POLY 1.5	P=0.521
POLY 6	P=0.524
RAO-SCOTT	P=0.507
LITTER C-A/FISHERS	P=0.500

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 16:20:03

First Dose M/F: 07/27/09 / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
------	---------	-----------

**Nose: Glands, Respiratory Epithelium
Inflammation**

LESION RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	0/43.13	2/43.27
POLY-3 PERCENT (g)	0%	4.6%
TERMINAL (d)	0/36 (0%)	2/35 (6%)
FIRST INCIDENCE	---	743 (T)

STATISTICAL TESTS

POLY 3	P=0.238
POLY 1.5	P=0.240
POLY 6	P=0.236
RAO-SCOTT	P=0.346
LITTER C-A/FISHERS	P=0.245

Experiment Number: 20614 - 02
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: 06/07/2018
Time Report Requested: 16:20:03
First Dose M/F: 07/27/09 / NA
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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Nose: Olfactory Epithelium
Accumulation, Hyaline Droplet

LESION RATES

OVERALL (a)	40/50 (80%)	45/50 (90%)
LITTERS (b)	24/25 (96%)	25/25 (100%)
POLY-3 RATE (c)	40/46.56	45/46.93
POLY-3 PERCENT (g)	85.9%	95.9%
TERMINAL (d)	32/36 (89%)	35/35 (100%)
FIRST INCIDENCE	302	351

STATISTICAL TESTS

POLY 3	P=0.072
POLY 1.5	P=0.106
POLY 6	P=0.042*
RAO-SCOTT	P=0.143
LITTER C-A/FISHERS	P=0.500

Experiment Number: 20614 - 02
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: 06/07/2018
Time Report Requested: 16:20:03
First Dose M/F: 07/27/09 / NA
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
------	---------	-----------

Nose: Respiratory Epithelium
Inflammation

LESION RATES

OVERALL (a)	4/50 (8%)	3/50 (6%)
LITTERS (b)	3/25 (12%)	3/25 (12%)
POLY-3 RATE (c)	4/43.64	3/43.27
POLY-3 PERCENT (g)	9.2%	6.9%
TERMINAL (d)	2/36 (6%)	3/35 (9%)
FIRST INCIDENCE	655	743 (T)

STATISTICAL TESTS

POLY 3	P=0.505N
POLY 1.5	P=0.497N
POLY 6	P=0.513N
RAO-SCOTT	P=0.528N
LITTER C-A/FISHERS	P=0.666

Experiment Number: 20614 - 02
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: 06/07/2018
Time Report Requested: 16:20:03
First Dose M/F: 07/27/09 / NA
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
------	---------	-----------

**Nose: Respiratory Epithelium
Metaplasia**

LESION RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	0/43.13	2/43.27
POLY-3 PERCENT (g)	0%	4.6%
TERMINAL (d)	0/36 (0%)	2/35 (6%)
FIRST INCIDENCE	---	743 (T)

STATISTICAL TESTS

POLY 3	P=0.238
POLY 1.5	P=0.240
POLY 6	P=0.236
RAO-SCOTT	P=0.331
LITTER C-A/FISHERS	P=0.245

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 16:20:03

First Dose M/F: 07/27/09 / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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Pancreas: Acinus
Atrophy

LESION RATES

OVERALL (a)	13/50 (26%)	9/50 (18%)
LITTERS (b)	12/25 (48%)	9/25 (36%)
POLY-3 RATE (c)	13/44.47	9/43.83
POLY-3 PERCENT (g)	29.2%	20.5%
TERMINAL (d)	11/36 (31%)	8/35 (23%)
FIRST INCIDENCE	302	568

STATISTICAL TESTS

POLY 3	P=0.242N
POLY 1.5	P=0.234N
POLY 6	P=0.247N
RAO-SCOTT	P=0.233N
LITTER C-A/FISHERS	P=0.284N

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 16:20:03

First Dose M/F: 07/27/09 / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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**Pancreas: Acinus
Hyperplasia**

LESION RATES

OVERALL (a)	18/50 (36%)	23/50 (46%)
LITTERS (b)	15/25 (60%)	16/25 (64%)
POLY-3 RATE (c)	18/43.64	23/43.74
POLY-3 PERCENT (g)	41.3%	52.6%
TERMINAL (d)	17/36 (47%)	19/35 (54%)
FIRST INCIDENCE	584	617

STATISTICAL TESTS

POLY 3	P=0.195
POLY 1.5	P=0.209
POLY 6	P=0.185
RAO-SCOTT	P=0.214
LITTER C-A/FISHERS	P=0.500

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 16:20:03

First Dose M/F: 07/27/09 / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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Parathyroid Gland
Hyperplasia

LESION RATES

OVERALL (a)	2/41 (5%)	3/46 (7%)
LITTERS (b)	2/25 (8%)	3/25 (12%)
POLY-3 RATE (c)	2/35.47	3/42.75
POLY-3 PERCENT (g)	5.6%	7%
TERMINAL (d)	1/29 (3%)	0/34 (0%)
FIRST INCIDENCE	655	617

STATISTICAL TESTS

POLY 3	P=0.584
POLY 1.5	P=0.577
POLY 6	P=0.592
RAO-SCOTT	P=0.568
LITTER C-A/FISHERS	P=0.500

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 16:20:03

First Dose M/F: 07/27/09 / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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Pituitary Gland: Pars Distalis
Hyperplasia

LESION RATES

OVERALL (a)	23/50 (46%)	16/50 (32%)
LITTERS (b)	16/25 (64%)	13/25 (52%)
POLY-3 RATE (c)	23/43.91	16/43.32
POLY-3 PERCENT (g)	52.4%	36.9%
TERMINAL (d)	20/36 (56%)	13/35 (37%)
FIRST INCIDENCE	584	739

STATISTICAL TESTS

POLY 3	P=0.105N
POLY 1.5	P=0.097N
POLY 6	P=0.115N
RAO-SCOTT	P=0.125N
LITTER C-A/FISHERS	P=0.284N

Experiment Number: 20614 - 02
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: 06/07/2018
Time Report Requested: 16:20:03
First Dose M/F: 07/27/09 / NA
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
------	---------	-----------

Prostate: Epithelium, Ventral
Hyperplasia

LESION RATES

OVERALL (a)	5/50 (10%)	2/50 (4%)
LITTERS (b)	5/25 (20%)	2/25 (8%)
POLY-3 RATE (c)	5/43.53	2/43.29
POLY-3 PERCENT (g)	11.5%	4.6%
TERMINAL (d)	4/36 (11%)	1/35 (3%)
FIRST INCIDENCE	624	739

STATISTICAL TESTS

POLY 3	P=0.218N
POLY 1.5	P=0.213N
POLY 6	P=0.222N
RAO-SCOTT	P=0.240N
LITTER C-A/FISHERS	P=0.209N

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 16:20:03

First Dose M/F: 07/27/09 / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
------	---------	-----------

Prostate: Ventral
Inflammation Chronic

LESION RATES

OVERALL (a)	4/50 (8%)	6/50 (12%)
LITTERS (b)	4/25 (16%)	6/25 (24%)
POLY-3 RATE (c)	4/43.13	6/43.84
POLY-3 PERCENT (g)	9.3%	13.7%
TERMINAL (d)	4/36 (11%)	4/35 (11%)
FIRST INCIDENCE	743 (T)	568

STATISTICAL TESTS

POLY 3	P=0.379
POLY 1.5	P=0.381
POLY 6	P=0.380
RAO-SCOTT	P=0.362
LITTER C-A/FISHERS	P=0.363

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 16:20:03

First Dose M/F: 07/27/09 / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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Salivary Glands
Atrophy

LESION RATES

OVERALL (a)	2/49 (4%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	0/25 (0%)
POLY-3 RATE (c)	2/42.22	0/43.27
POLY-3 PERCENT (g)	4.7%	0%
TERMINAL (d)	2/36 (6%)	0/35 (0%)
FIRST INCIDENCE	743 (T)	---

STATISTICAL TESTS

POLY 3	P=0.232N
POLY 1.5	P=0.230N
POLY 6	P=0.233N
RAO-SCOTT	P=0.327N
LITTER C-A/FISHERS	P=0.245N

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 16:20:03

First Dose M/F: 07/27/09 / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
------	---------	-----------

**Seminal Vesicle
Inflammation**

LESION RATES

OVERALL (a)	0/50 (0%)	3/50 (6%)
LITTERS (b)	0/25 (0%)	3/25 (12%)
POLY-3 RATE (c)	0/43.13	3/43.84
POLY-3 PERCENT (g)	0%	6.8%
TERMINAL (d)	0/36 (0%)	1/35 (3%)
FIRST INCIDENCE	---	568

STATISTICAL TESTS

POLY 3	P=0.121
POLY 1.5	P=0.122
POLY 6	P=0.121
RAO-SCOTT	P=0.193
LITTER C-A/FISHERS	P=0.117

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 16:20:03

First Dose M/F: 07/27/09 / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
------	---------	-----------

Skin
Foreign Body

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	0/25 (0%)
POLY-3 RATE (c)	2/43.22	0/43.27
POLY-3 PERCENT (g)	4.6%	0%
TERMINAL (d)	1/36 (3%)	0/35 (0%)
FIRST INCIDENCE	718	---

STATISTICAL TESTS

POLY 3	P=0.237N
POLY 1.5	P=0.235N
POLY 6	P=0.238N
RAO-SCOTT	P=0.331N
LITTER C-A/FISHERS	P=0.245N

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 16:20:03

First Dose M/F: 07/27/09 / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
------	---------	-----------

Skin
Inflammation

LESION RATES

OVERALL (a)	4/50 (8%)	0/50 (0%)
LITTERS (b)	4/25 (16%)	0/25 (0%)
POLY-3 RATE (c)	4/43.74	0/43.27
POLY-3 PERCENT (g)	9.2%	0%
TERMINAL (d)	2/36 (6%)	0/35 (0%)
FIRST INCIDENCE	584	---

STATISTICAL TESTS

POLY 3	P=0.061N
POLY 1.5	P=0.060N
POLY 6	P=0.063N
RAO-SCOTT	P=0.114N
LITTER C-A/FISHERS	P=0.055N

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 16:20:03

First Dose M/F: 07/27/09 / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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Spleen
Extramedullary Hematopoiesis

LESION RATES

OVERALL (a)	37/50 (74%)	40/50 (80%)
LITTERS (b)	24/25 (96%)	23/25 (92%)
POLY-3 RATE (c)	37/45.00	40/46.78
POLY-3 PERCENT (g)	82.2%	85.5%
TERMINAL (d)	33/36 (92%)	33/35 (94%)
FIRST INCIDENCE	302	247

STATISTICAL TESTS

POLY 3	P=0.440
POLY 1.5	P=0.421
POLY 6	P=0.475
RAO-SCOTT	P=0.434
LITTER C-A/FISHERS	P=0.500N

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 16:20:03

First Dose M/F: 07/27/09 / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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Spleen
Pigment

LESION RATES

OVERALL (a)	30/50 (60%)	34/50 (68%)
LITTERS (b)	21/25 (84%)	22/25 (88%)
POLY-3 RATE (c)	30/48.97	34/46.31
POLY-3 PERCENT (g)	61.3%	73.4%
TERMINAL (d)	20/36 (56%)	28/35 (80%)
FIRST INCIDENCE	137	366

STATISTICAL TESTS

POLY 3	P=0.144
POLY 1.5	P=0.175
POLY 6	P=0.124
RAO-SCOTT	P=0.156
LITTER C-A/FISHERS	P=0.500

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 16:20:03

First Dose M/F: 07/27/09 / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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**Spleen: Lymphoid Follicle
Atrophy**

LESION RATES

OVERALL (a)	3/50 (6%)	6/50 (12%)
LITTERS (b)	3/25 (12%)	5/25 (20%)
POLY-3 RATE (c)	3/43.65	6/46.19
POLY-3 PERCENT (g)	6.9%	13%
TERMINAL (d)	0/36 (0%)	1/35 (3%)
FIRST INCIDENCE	675	247

STATISTICAL TESTS

POLY 3	P=0.271
POLY 1.5	P=0.267
POLY 6	P=0.273
RAO-SCOTT	P=0.312
LITTER C-A/FISHERS	P=0.351

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 16:20:03

First Dose M/F: 07/27/09 / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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Stomach, Forestomach
Inflammation

LESION RATES

OVERALL (a)	3/50 (6%)	4/50 (8%)
LITTERS (b)	3/25 (12%)	4/25 (16%)
POLY-3 RATE (c)	3/44.48	4/44.77
POLY-3 PERCENT (g)	6.7%	8.9%
TERMINAL (d)	0/36 (0%)	1/35 (3%)
FIRST INCIDENCE	194	484

STATISTICAL TESTS

POLY 3	P=0.503
POLY 1.5	P=0.504
POLY 6	P=0.505
RAO-SCOTT	P=0.491
LITTER C-A/FISHERS	P=0.500

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 16:20:03

First Dose M/F: 07/27/09 / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
------	---------	-----------

Stomach, Forestomach: Epithelium
Erosion

LESION RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	0/43.13	2/44.05
POLY-3 PERCENT (g)	0%	4.5%
TERMINAL (d)	0/36 (0%)	0/35 (0%)
FIRST INCIDENCE	---	583

STATISTICAL TESTS

POLY 3	P=0.242
POLY 1.5	P=0.242
POLY 6	P=0.243
RAO-SCOTT	P=0.336
LITTER C-A/FISHERS	P=0.245

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 16:20:03

First Dose M/F: 07/27/09 / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
------	---------	-----------

Stomach, Forestomach: Epithelium
Hyperplasia

LESION RATES

OVERALL (a)	5/50 (10%)	6/50 (12%)
LITTERS (b)	5/25 (20%)	6/25 (24%)
POLY-3 RATE (c)	5/44.48	6/44.51
POLY-3 PERCENT (g)	11.2%	13.5%
TERMINAL (d)	2/36 (6%)	4/35 (11%)
FIRST INCIDENCE	194	484

STATISTICAL TESTS

POLY 3	P=0.500
POLY 1.5	P=0.503
POLY 6	P=0.499
RAO-SCOTT	P=0.486
LITTER C-A/FISHERS	P=0.500

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 16:20:03

First Dose M/F: 07/27/09 / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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Testes

Edema

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	0/25 (0%)
POLY-3 RATE (c)	2/43.13	0/43.27
POLY-3 PERCENT (g)	4.6%	0%
TERMINAL (d)	2/36 (6%)	0/35 (0%)
FIRST INCIDENCE	743 (T)	---

STATISTICAL TESTS

POLY 3	P=0.236N
POLY 1.5	P=0.235N
POLY 6	P=0.237N
RAO-SCOTT	P=0.332N
LITTER C-A/FISHERS	P=0.245N

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 16:20:03

First Dose M/F: 07/27/09 / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
------	---------	-----------

Testes: Bilateral, Germinal Epithelium
Degeneration

LESION RATES

OVERALL (a)	6/50 (12%)	9/50 (18%)
LITTERS (b)	5/25 (20%)	8/25 (32%)
POLY-3 RATE (c)	6/43.44	9/43.99
POLY-3 PERCENT (g)	13.8%	20.5%
TERMINAL (d)	5/36 (14%)	5/35 (14%)
FIRST INCIDENCE	655	617

STATISTICAL TESTS

POLY 3	P=0.295
POLY 1.5	P=0.298
POLY 6	P=0.295
RAO-SCOTT	P=0.306
LITTER C-A/FISHERS	P=0.260

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 16:20:03

First Dose M/F: 07/27/09 / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
------	---------	-----------

Testes: Germinal Epithelium
Degeneration

LESION RATES

OVERALL (a)	14/50 (28%)	13/50 (26%)
LITTERS (b)	12/25 (48%)	12/25 (48%)
POLY-3 RATE (c)	14/44.55	13/44.71
POLY-3 PERCENT (g)	31.4%	29.1%
TERMINAL (d)	11/36 (31%)	8/35 (23%)
FIRST INCIDENCE	304	484

STATISTICAL TESTS

POLY 3	P=0.495N
POLY 1.5	P=0.490N
POLY 6	P=0.495N
RAO-SCOTT	P=0.488N
LITTER C-A/FISHERS	P=0.611

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 16:20:03

First Dose M/F: 07/27/09 / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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Testes: Interstitial Cell
Hyperplasia

LESION RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)
LITTERS (b)	1/25 (4%)	2/25 (8%)
POLY-3 RATE (c)	1/43.13	2/43.27
POLY-3 PERCENT (g)	2.3%	4.6%
TERMINAL (d)	1/36 (3%)	2/35 (6%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.501
POLY 1.5	P=0.504
POLY 6	P=0.499
RAO-SCOTT	P=0.505
LITTER C-A/FISHERS	P=0.500

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 16:20:03

First Dose M/F: 07/27/09 / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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Thymus
Atrophy

LESION RATES

OVERALL (a)	45/48 (94%)	45/48 (94%)
LITTERS (b)	25/25 (100%)	25/25 (100%)
POLY-3 RATE (c)	45/45.67	45/47.02
POLY-3 PERCENT (g)	98.5%	95.7%
TERMINAL (d)	35/35 (100%)	32/33 (97%)
FIRST INCIDENCE	194	351

STATISTICAL TESTS

POLY 3	P=0.418N
POLY 1.5	P=0.491N
POLY 6	P=0.344N
RAO-SCOTT	P=0.466N
LITTER C-A/FISHERS	P=1.000

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 16:20:03

First Dose M/F: 07/27/09 / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
------	---------	-----------

Thymus: Epithelial Cell
Hyperplasia

LESION RATES

OVERALL (a)	0/48 (0%)	2/48 (4%)
LITTERS (b)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	0/41.30	2/41.57
POLY-3 PERCENT (g)	0%	4.8%
TERMINAL (d)	0/35 (0%)	1/33 (3%)
FIRST INCIDENCE	---	660

STATISTICAL TESTS

POLY 3	P=0.238
POLY 1.5	P=0.240
POLY 6	P=0.237
RAO-SCOTT	P=0.330
LITTER C-A/FISHERS	P=0.245

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 16:20:03

First Dose M/F: 07/27/09 / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
-------------	----------------	------------------

Thyroid Gland: C-Cell
Hyperplasia

LESION RATES

OVERALL (a)	11/49 (22%)	11/50 (22%)
LITTERS (b)	10/25 (40%)	10/25 (40%)
POLY-3 RATE (c)	11/42.22	11/43.27
POLY-3 PERCENT (g)	26.1%	25.4%
TERMINAL (d)	11/36 (31%)	11/35 (31%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.572N
POLY 1.5	P=0.562N
POLY 6	P=0.579N
RAO-SCOTT	P=0.560N
LITTER C-A/FISHERS	P=0.613

Experiment Number: 20614 - 02
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: 06/07/2018
Time Report Requested: 16:20:03
First Dose M/F: 07/27/09 / NA
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/0 ppm	300/0 ppm
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Thyroid Gland: Follicular Cell
Hypertrophy

LESION RATES

OVERALL (a)	8/49 (16%)	12/50 (24%)
LITTERS (b)	8/25 (32%)	11/25 (44%)
POLY-3 RATE (c)	8/43.83	12/44.42
POLY-3 PERCENT (g)	18.3%	27%
TERMINAL (d)	5/36 (14%)	10/35 (29%)
FIRST INCIDENCE	137	484

STATISTICAL TESTS

POLY 3	P=0.233
POLY 1.5	P=0.239
POLY 6	P=0.227
RAO-SCOTT	P=0.242
LITTER C-A/FISHERS	P=0.280

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 16:20:03

First Dose M/F: 07/27/09 / NA

Lab: BAT

LEGEND

- (a) Number of tumor-bearing animals/number of animals examined at site.
- (b) Number of litters with tumor-bearing animals/number of litters examined at site
- (c) 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.
- (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 Rao-Scott statistic performs the Poly-3 test with an adjustment for within-litter correlation.
The Litter C-A/Fishers statistic compares directly the litter incidence rates.

*** END OF REPORT ***