

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: 17:26:57
First Dose M/F: 07/27/09 / NA
Lab: BAT

Custom Rpt (Litter-Based) -- 0-40, 300-40

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 005 0/40 ppm	Include 006 300/40 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 PERFLUOROOCTANOIC ACID

MALE RATS

Organ

Liver
Spleen

Morphology

Necrosis
Pigment

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

Males

DOSE	0/40 ppm	300/40 ppm
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Adrenal Cortex
Degeneration Cystic

LESION RATES

OVERALL (a)	4/50 (8%)	3/50 (6%)
LITTERS (b)	4/25 (16%)	3/25 (12%)
POLY-3 RATE (c)	4/42.02	3/45.82
POLY-3 PERCENT (g)	9.5%	6.6%
TERMINAL (d)	4/35 (11%)	2/38 (5%)
FIRST INCIDENCE	743 (T)	701

STATISTICAL TESTS

POLY 3	P=0.453N
POLY 1.5	P=0.466N
POLY 6	P=0.443N
RAO-SCOTT	P=0.443N
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	0/40 ppm	300/40 ppm
------	----------	------------

Adrenal Cortex
Hypertrophy

LESION RATES

OVERALL (a)	15/50 (30%)	20/50 (40%)
LITTERS (b)	14/25 (56%)	15/25 (60%)
POLY-3 RATE (c)	15/43.04	20/46.11
POLY-3 PERCENT (g)	34.9%	43.4%
TERMINAL (d)	12/35 (34%)	18/38 (47%)
FIRST INCIDENCE	533	648

STATISTICAL TESTS

POLY 3	P=0.272
POLY 1.5	P=0.252
POLY 6	P=0.279
RAO-SCOTT	P=0.284
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	0/40 ppm	300/40 ppm
------	----------	------------

Adrenal Cortex: Zona Fasciculata
Hyperplasia

LESION RATES

OVERALL (a)	2/50 (4%)	4/50 (8%)
LITTERS (b)	2/25 (8%)	4/25 (16%)
POLY-3 RATE (c)	2/42.02	4/45.77
POLY-3 PERCENT (g)	4.8%	8.7%
TERMINAL (d)	2/35 (6%)	3/38 (8%)
FIRST INCIDENCE	743 (T)	715

STATISTICAL TESTS

POLY 3	P=0.377
POLY 1.5	P=0.366
POLY 6	P=0.385
RAO-SCOTT	P=0.373
LITTER C-A/FISHERS	P=0.334

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Species/Strain: RATS/HSD

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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	0/40 ppm	300/40 ppm
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Adrenal Medulla
Hyperplasia

LESION RATES

OVERALL (a)	5/50 (10%)	5/50 (10%)
LITTERS (b)	5/25 (20%)	5/25 (20%)
POLY-3 RATE (c)	5/42.83	5/46.09
POLY-3 PERCENT (g)	11.7%	10.9%
TERMINAL (d)	3/35 (9%)	3/38 (8%)
FIRST INCIDENCE	533	624

STATISTICAL TESTS

POLY 3	P=0.583N
POLY 1.5	P=0.596N
POLY 6	P=0.577N
RAO-SCOTT	P=0.569N
LITTER C-A/FISHERS	P=0.637

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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	0/40 ppm	300/40 ppm
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**Blood Vessel
Inflammation**

LESION RATES

OVERALL (a)	2/50 (4%)	2/50 (4%)
LITTERS (b)	2/25 (8%)	2/25 (8%)
POLY-3 RATE (c)	2/42.24	2/46.23
POLY-3 PERCENT (g)	4.7%	4.3%
TERMINAL (d)	1/35 (3%)	1/38 (3%)
FIRST INCIDENCE	683	561

STATISTICAL TESTS

POLY 3	P=0.661N
POLY 1.5	P=0.670N
POLY 6	P=0.655N
RAO-SCOTT	P=0.643N
LITTER C-A/FISHERS	P=0.695

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Species/Strain: RATS/HSD

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CAS Number: 335-67-1

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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	0/40 ppm	300/40 ppm
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**Blood Vessel
Inflammation Chronic**

LESION RATES

OVERALL (a)	4/50 (8%)	5/50 (10%)
LITTERS (b)	4/25 (16%)	4/25 (16%)
POLY-3 RATE (c)	4/42.19	5/46.01
POLY-3 PERCENT (g)	9.5%	10.9%
TERMINAL (d)	3/35 (9%)	3/38 (8%)
FIRST INCIDENCE	697	648

STATISTICAL TESTS

POLY 3	P=0.554
POLY 1.5	P=0.539
POLY 6	P=0.564
RAO-SCOTT	P=0.559
LITTER C-A/FISHERS	P=0.649

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Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

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Time Report Requested: 17:26:57

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	0/40 ppm	300/40 ppm
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**Blood Vessel
Mineral**

LESION RATES

OVERALL (a)	4/50 (8%)	2/50 (4%)
LITTERS (b)	4/25 (16%)	2/25 (8%)
POLY-3 RATE (c)	4/43.39	2/46.00
POLY-3 PERCENT (g)	9.2%	4.4%
TERMINAL (d)	1/35 (3%)	1/38 (3%)
FIRST INCIDENCE	533	648

STATISTICAL TESTS

POLY 3	P=0.311N
POLY 1.5	P=0.317N
POLY 6	P=0.309N
RAO-SCOTT	P=0.320N
LITTER C-A/FISHERS	P=0.334N

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

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Perfluorooctanoic Acid

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Time Report Requested: 17:26:57

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	0/40 ppm	300/40 ppm
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**Bone Marrow
Hyperplasia**

LESION RATES

OVERALL (a)	4/50 (8%)	8/50 (16%)
LITTERS (b)	4/25 (16%)	8/25 (32%)
POLY-3 RATE (c)	4/44.64	8/47.93
POLY-3 PERCENT (g)	9%	16.7%
TERMINAL (d)	0/35 (0%)	3/38 (8%)
FIRST INCIDENCE	134	116

STATISTICAL TESTS

POLY 3	P=0.214
POLY 1.5	P=0.204
POLY 6	P=0.220
RAO-SCOTT	P=0.208
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	0/40 ppm	300/40 ppm
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Brain
Necrosis

LESION RATES

OVERALL (a)	2/50 (4%)	1/50 (2%)
LITTERS (b)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	2/43.96	1/45.77
POLY-3 PERCENT (g)	4.6%	2.2%
TERMINAL (d)	0/35 (0%)	0/38 (0%)
FIRST INCIDENCE	218	715

STATISTICAL TESTS

POLY 3	P=0.486N
POLY 1.5	P=0.492N
POLY 6	P=0.481N
RAO-SCOTT	P=0.496N
LITTER C-A/FISHERS	P=0.500N

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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	0/40 ppm	300/40 ppm
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Eye: Cornea
Inflammation

LESION RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)
LITTERS (b)	1/25 (4%)	2/25 (8%)
POLY-3 RATE (c)	1/42.24	2/45.68
POLY-3 PERCENT (g)	2.4%	4.4%
TERMINAL (d)	0/35 (0%)	1/38 (3%)
FIRST INCIDENCE	683	739

STATISTICAL TESTS

POLY 3	P=0.527
POLY 1.5	P=0.520
POLY 6	P=0.531
RAO-SCOTT	P=0.526
LITTER C-A/FISHERS	P=0.500

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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	0/40 ppm	300/40 ppm
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Eye: Retina
Degeneration

LESION RATES

OVERALL (a)	2/50 (4%)	4/50 (8%)
LITTERS (b)	2/25 (8%)	4/25 (16%)
POLY-3 RATE (c)	2/42.02	4/46.00
POLY-3 PERCENT (g)	4.8%	8.7%
TERMINAL (d)	2/35 (6%)	3/38 (8%)
FIRST INCIDENCE	743 (T)	648

STATISTICAL TESTS

POLY 3	P=0.380
POLY 1.5	P=0.367
POLY 6	P=0.389
RAO-SCOTT	P=0.375
LITTER C-A/FISHERS	P=0.334

Experiment Number: 20614 - 02
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Route: DOSED FEED
Species/Strain: RATS/HSD

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Lab: BAT

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

Males

DOSE	0/40 ppm	300/40 ppm
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Heart
Cardiomyopathy

LESION RATES

OVERALL (a)	28/50 (56%)	24/50 (48%)
LITTERS (b)	21/25 (84%)	18/25 (72%)
POLY-3 RATE (c)	28/45.91	24/48.39
POLY-3 PERCENT (g)	61%	49.6%
TERMINAL (d)	21/35 (60%)	16/38 (42%)
FIRST INCIDENCE	241	116

STATISTICAL TESTS

POLY 3	P=0.182N
POLY 1.5	P=0.199N
POLY 6	P=0.171N
RAO-SCOTT	P=0.192N
LITTER C-A/FISHERS	P=0.248N

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Species/Strain: RATS/HSD

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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	0/40 ppm	300/40 ppm
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Heart
Mineral

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	0/25 (0%)
POLY-3 RATE (c)	2/43.62	0/45.66
POLY-3 PERCENT (g)	4.6%	0%
TERMINAL (d)	0/35 (0%)	0/38 (0%)
FIRST INCIDENCE	218	---

STATISTICAL TESTS

POLY 3	P=0.227N
POLY 1.5	P=0.230N
POLY 6	P=0.226N
RAO-SCOTT	P=0.335N
LITTER C-A/FISHERS	P=0.245N

Experiment Number: 20614 - 02

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Species/Strain: RATS/HSD

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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	0/40 ppm	300/40 ppm
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Intestine Large, Colon
Parasite Metazoan

LESION RATES

OVERALL (a)	12/50 (24%)	10/50 (20%)
LITTERS (b)	10/25 (40%)	9/25 (36%)
POLY-3 RATE (c)	12/44.24	10/46.15
POLY-3 PERCENT (g)	27.1%	21.7%
TERMINAL (d)	9/35 (26%)	7/38 (18%)
FIRST INCIDENCE	241	683

STATISTICAL TESTS

POLY 3	P=0.360N
POLY 1.5	P=0.373N
POLY 6	P=0.350N
RAO-SCOTT	P=0.362N
LITTER C-A/FISHERS	P=0.500N

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

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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	0/40 ppm	300/40 ppm
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Islets, Pancreatic
Hyperplasia

LESION RATES

OVERALL (a)	6/50 (12%)	8/50 (16%)
LITTERS (b)	6/25 (24%)	6/25 (24%)
POLY-3 RATE (c)	6/42.05	8/45.66
POLY-3 PERCENT (g)	14.3%	17.5%
TERMINAL (d)	5/35 (14%)	8/38 (21%)
FIRST INCIDENCE	736	743 (T)

STATISTICAL TESTS

POLY 3	P=0.451
POLY 1.5	P=0.433
POLY 6	P=0.462
RAO-SCOTT	P=0.469
LITTER C-A/FISHERS	P=0.629

Experiment Number: 20614 - 02
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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	0/40 ppm	300/40 ppm
------	----------	------------

Kidney
Infarct

LESION RATES

OVERALL (a)	3/50 (6%)	4/50 (8%)
LITTERS (b)	3/25 (12%)	4/25 (16%)
POLY-3 RATE (c)	3/42.09	4/45.66
POLY-3 PERCENT (g)	7.1%	8.8%
TERMINAL (d)	2/35 (6%)	4/38 (11%)
FIRST INCIDENCE	725	743 (T)

STATISTICAL TESTS

POLY 3	P=0.544
POLY 1.5	P=0.532
POLY 6	P=0.551
RAO-SCOTT	P=0.526
LITTER C-A/FISHERS	P=0.500

Experiment Number: 20614 - 02

Test Type: CHRONIC

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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	0/40 ppm	300/40 ppm
------	----------	------------

Kidney
Mineral

LESION RATES

OVERALL (a)	3/50 (6%)	0/50 (0%)
LITTERS (b)	3/25 (12%)	0/25 (0%)
POLY-3 RATE (c)	3/43.41	0/45.66
POLY-3 PERCENT (g)	6.9%	0%
TERMINAL (d)	0/35 (0%)	0/38 (0%)
FIRST INCIDENCE	314	---

STATISTICAL TESTS

POLY 3	P=0.110N
POLY 1.5	P=0.112N
POLY 6	P=0.109N
RAO-SCOTT	P=0.190N
LITTER C-A/FISHERS	P=0.117N

Experiment Number: 20614 - 02

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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	0/40 ppm	300/40 ppm
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**Kidney
Nephropathy Chronic Progressive**

LESION RATES

OVERALL (a)	47/50 (94%)	48/50 (96%)
LITTERS (b)	25/25 (100%)	25/25 (100%)
POLY-3 RATE (c)	47/48.03	48/49.65
POLY-3 PERCENT (g)	97.9%	96.7%
TERMINAL (d)	35/35 (100%)	37/38 (97%)
FIRST INCIDENCE	134	116

STATISTICAL TESTS

POLY 3	P=0.617N
POLY 1.5	P=0.684N
POLY 6	P=0.564N
RAO-SCOTT	P=0.601N
LITTER C-A/FISHERS	P=1.000

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Lab: BAT

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

Males

DOSE	0/40 ppm	300/40 ppm
------	----------	------------

**Kidney: Cortex
Cyst**

LESION RATES

OVERALL (a)	2/50 (4%)	1/50 (2%)
LITTERS (b)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	2/42.02	1/45.68
POLY-3 PERCENT (g)	4.8%	2.2%
TERMINAL (d)	2/35 (6%)	0/38 (0%)
FIRST INCIDENCE	743 (T)	739

STATISTICAL TESTS

POLY 3	P=0.471N
POLY 1.5	P=0.479N
POLY 6	P=0.466N
RAO-SCOTT	P=0.485N
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: 17:26:57
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	0/40 ppm	300/40 ppm
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Liver
Basophilic Focus

LESION RATES

OVERALL (a)	2/50 (4%)	1/50 (2%)
LITTERS (b)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	2/43.01	1/46.00
POLY-3 PERCENT (g)	4.7%	2.2%
TERMINAL (d)	0/35 (0%)	0/38 (0%)
FIRST INCIDENCE	241	648

STATISTICAL TESTS

POLY 3	P=0.477N
POLY 1.5	P=0.484N
POLY 6	P=0.471N
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: 17:26:57
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	0/40 ppm	300/40 ppm
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Liver
Clear Cell Focus

LESION RATES

OVERALL (a)	33/50 (66%)	33/50 (66%)
LITTERS (b)	22/25 (88%)	23/25 (92%)
POLY-3 RATE (c)	33/42.05	33/46.07
POLY-3 PERCENT (g)	78.5%	71.6%
TERMINAL (d)	32/35 (91%)	32/38 (84%)
FIRST INCIDENCE	736	624

STATISTICAL TESTS

POLY 3	P=0.301N
POLY 1.5	P=0.392N
POLY 6	P=0.229N
RAO-SCOTT	P=0.300N
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: 17:26:57
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	0/40 ppm	300/40 ppm
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Liver
Degeneration Cystic

LESION RATES

OVERALL (a)	7/50 (14%)	3/50 (6%)
LITTERS (b)	6/25 (24%)	3/25 (12%)
POLY-3 RATE (c)	7/42.02	3/45.66
POLY-3 PERCENT (g)	16.7%	6.6%
TERMINAL (d)	7/35 (20%)	3/38 (8%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.125N
POLY 1.5	P=0.134N
POLY 6	P=0.119N
RAO-SCOTT	P=0.166N
LITTER C-A/FISHERS	P=0.232N

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: 17:26:57
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	0/40 ppm	300/40 ppm
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Liver
Eosinophilic Focus

LESION RATES

OVERALL (a)	5/50 (10%)	1/50 (2%)
LITTERS (b)	4/25 (16%)	1/25 (4%)
POLY-3 RATE (c)	5/42.24	1/45.66
POLY-3 PERCENT (g)	11.8%	2.2%
TERMINAL (d)	4/35 (11%)	1/38 (3%)
FIRST INCIDENCE	683	743 (T)

STATISTICAL TESTS

POLY 3	P=0.084N
POLY 1.5	P=0.089N
POLY 6	P=0.082N
RAO-SCOTT	P=0.172N
LITTER C-A/FISHERS	P=0.174N

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: 17:26:57

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	0/40 ppm	300/40 ppm
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Liver
Extramedullary Hematopoiesis

LESION RATES

OVERALL (a)	4/50 (8%)	0/50 (0%)
LITTERS (b)	4/25 (16%)	0/25 (0%)
POLY-3 RATE (c)	4/44.34	0/45.66
POLY-3 PERCENT (g)	9%	0%
TERMINAL (d)	1/35 (3%)	0/38 (0%)
FIRST INCIDENCE	134	---

STATISTICAL TESTS

POLY 3	P=0.057N
POLY 1.5	P=0.058N
POLY 6	P=0.056N
RAO-SCOTT	P=0.119N
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: 17:26:57

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	0/40 ppm	300/40 ppm
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Liver
Fatty Change

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	0/25 (0%)
POLY-3 RATE (c)	2/42.02	0/45.66
POLY-3 PERCENT (g)	4.8%	0%
TERMINAL (d)	2/35 (6%)	0/38 (0%)
FIRST INCIDENCE	743 (T)	---

STATISTICAL TESTS

POLY 3	P=0.219N
POLY 1.5	P=0.224N
POLY 6	P=0.216N
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: 17:26:57

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	0/40 ppm	300/40 ppm
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Liver
Fatty Change Focal

LESION RATES

OVERALL (a)	3/50 (6%)	1/50 (2%)
LITTERS (b)	3/25 (12%)	1/25 (4%)
POLY-3 RATE (c)	3/42.02	1/45.66
POLY-3 PERCENT (g)	7.1%	2.2%
TERMINAL (d)	3/35 (9%)	1/38 (3%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.276N
POLY 1.5	P=0.284N
POLY 6	P=0.271N
RAO-SCOTT	P=0.313N
LITTER C-A/FISHERS	P=0.305N

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: 17:26:57
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	0/40 ppm	300/40 ppm
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Liver
Inflammation Focal

LESION RATES

OVERALL (a)	18/50 (36%)	19/50 (38%)
LITTERS (b)	15/25 (60%)	15/25 (60%)
POLY-3 RATE (c)	18/42.81	19/46.48
POLY-3 PERCENT (g)	42%	40.9%
TERMINAL (d)	16/35 (46%)	15/38 (40%)
FIRST INCIDENCE	533	624

STATISTICAL TESTS

POLY 3	P=0.541N
POLY 1.5	P=0.577N
POLY 6	P=0.513N
RAO-SCOTT	P=0.532N
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: 17:26:57

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	0/40 ppm	300/40 ppm
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Liver
Mixed Cell Focus

LESION RATES

OVERALL (a)	9/50 (18%)	4/50 (8%)
LITTERS (b)	8/25 (32%)	4/25 (16%)
POLY-3 RATE (c)	9/42.02	4/45.66
POLY-3 PERCENT (g)	21.4%	8.8%
TERMINAL (d)	9/35 (26%)	4/38 (11%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.085N
POLY 1.5	P=0.093N
POLY 6	P=0.080N
RAO-SCOTT	P=0.106N
LITTER C-A/FISHERS	P=0.160N

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: 17:26:57

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	0/40 ppm	300/40 ppm
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Liver
Necrosis

LESION RATES

OVERALL (a)	23/50 (46%)	14/50 (28%)
LITTERS (b)	18/25 (72%)	12/25 (48%)
POLY-3 RATE (c)	23/43.94	14/46.01
POLY-3 PERCENT (g)	52.3%	30.4%
TERMINAL (d)	20/35 (57%)	13/38 (34%)
FIRST INCIDENCE	134	645

STATISTICAL TESTS

POLY 3	P=0.026N*
POLY 1.5	P=0.032N*
POLY 6	P=0.023N*
RAO-SCOTT	P=0.028N*
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: 17:26:57
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	0/40 ppm	300/40 ppm
<hr/>		
Liver Pigment		
<hr/>		
LESION RATES		
OVERALL (a)	15/50 (30%)	11/50 (22%)
LITTERS (b)	12/25 (48%)	10/25 (40%)
POLY-3 RATE (c)	15/43.01	11/45.89
POLY-3 PERCENT (g)	34.9%	24%
TERMINAL (d)	13/35 (37%)	10/38 (26%)
FIRST INCIDENCE	502	683
<hr/>		
STATISTICAL TESTS		
POLY 3		P=0.185N
POLY 1.5		P=0.200N
POLY 6		P=0.177N
RAO-SCOTT		P=0.198N
LITTER C-A/FISHERS		P=0.388N

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: 17:26:57

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	0/40 ppm	300/40 ppm
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Liver: Bile Duct
Hyperplasia

LESION RATES

OVERALL (a)	3/50 (6%)	2/50 (4%)
LITTERS (b)	3/25 (12%)	2/25 (8%)
POLY-3 RATE (c)	3/42.02	2/45.66
POLY-3 PERCENT (g)	7.1%	4.4%
TERMINAL (d)	3/35 (9%)	2/38 (5%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.462N
POLY 1.5	P=0.473N
POLY 6	P=0.456N
RAO-SCOTT	P=0.457N
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: 17:26:57

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	0/40 ppm	300/40 ppm
------	----------	------------

Liver: Hepatocyte
Cytoplasmic Alteration

LESION RATES

OVERALL (a)	34/50 (68%)	29/50 (58%)
LITTERS (b)	22/25 (88%)	21/25 (84%)
POLY-3 RATE (c)	34/47.21	29/46.88
POLY-3 PERCENT (g)	72%	61.9%
TERMINAL (d)	27/35 (77%)	27/38 (71%)
FIRST INCIDENCE	134	116

STATISTICAL TESTS

POLY 3	P=0.198N
POLY 1.5	P=0.199N
POLY 6	P=0.205N
RAO-SCOTT	P=0.200N
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: 17:26:57

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	0/40 ppm	300/40 ppm
------	----------	------------

Liver: Hepatocyte
Hypertrophy

LESION RATES

OVERALL (a)	34/50 (68%)	29/50 (58%)
LITTERS (b)	22/25 (88%)	22/25 (88%)
POLY-3 RATE (c)	34/47.21	29/48.18
POLY-3 PERCENT (g)	72%	60.2%
TERMINAL (d)	27/35 (77%)	26/38 (68%)
FIRST INCIDENCE	134	116

STATISTICAL TESTS

POLY 3	P=0.152N
POLY 1.5	P=0.164N
POLY 6	P=0.151N
RAO-SCOTT	P=0.155N
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: 17:26:57

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	0/40 ppm	300/40 ppm
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Liver: Hepatocyte
Single Cell Death

LESION RATES

OVERALL (a)	11/50 (22%)	5/50 (10%)
LITTERS (b)	9/25 (36%)	4/25 (16%)
POLY-3 RATE (c)	11/45.65	5/46.66
POLY-3 PERCENT (g)	24.1%	10.7%
TERMINAL (d)	7/35 (20%)	4/38 (11%)
FIRST INCIDENCE	134	116

STATISTICAL TESTS

POLY 3	P=0.076N
POLY 1.5	P=0.079N
POLY 6	P=0.073N
RAO-SCOTT	P=0.109N
LITTER C-A/FISHERS	P=0.098N

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: 17:26:57

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	0/40 ppm	300/40 ppm
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Lung
Foreign Body

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	0/25 (0%)
POLY-3 RATE (c)	2/42.65	0/45.66
POLY-3 PERCENT (g)	4.7%	0%
TERMINAL (d)	1/35 (3%)	0/38 (0%)
FIRST INCIDENCE	535	---

STATISTICAL TESTS

POLY 3	P=0.222N
POLY 1.5	P=0.226N
POLY 6	P=0.220N
RAO-SCOTT	P=0.337N
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: 17:26:57
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	0/40 ppm	300/40 ppm
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Lung
Infiltration Cellular Histiocyte

LESION RATES

OVERALL (a)	25/50 (50%)	25/50 (50%)
LITTERS (b)	17/25 (68%)	18/25 (72%)
POLY-3 RATE (c)	25/46.37	25/46.30
POLY-3 PERCENT (g)	53.9%	54%
TERMINAL (d)	17/35 (49%)	22/38 (58%)
FIRST INCIDENCE	218	645

STATISTICAL TESTS

POLY 3	P=0.580
POLY 1.5	P=0.581N
POLY 6	P=0.571
RAO-SCOTT	P=0.579
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: 17:26:57

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	0/40 ppm	300/40 ppm
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Lung
Inflammation Acute

LESION RATES

OVERALL (a)	3/50 (6%)	0/50 (0%)
LITTERS (b)	3/25 (12%)	0/25 (0%)
POLY-3 RATE (c)	3/42.72	0/45.66
POLY-3 PERCENT (g)	7%	0%
TERMINAL (d)	1/35 (3%)	0/38 (0%)
FIRST INCIDENCE	535	---

STATISTICAL TESTS

POLY 3	P=0.107N
POLY 1.5	P=0.110N
POLY 6	P=0.106N
RAO-SCOTT	P=0.194N
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: 17:26:57

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	0/40 ppm	300/40 ppm
------	----------	------------

Lung
Inflammation Chronic

LESION RATES

OVERALL (a)	5/50 (10%)	5/50 (10%)
LITTERS (b)	5/25 (20%)	5/25 (20%)
POLY-3 RATE (c)	5/42.83	5/45.68
POLY-3 PERCENT (g)	11.7%	11%
TERMINAL (d)	3/35 (9%)	4/38 (11%)
FIRST INCIDENCE	533	739

STATISTICAL TESTS

POLY 3	P=0.589N
POLY 1.5	P=0.599N
POLY 6	P=0.586N
RAO-SCOTT	P=0.575N
LITTER C-A/FISHERS	P=0.637

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: 17:26:57
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	0/40 ppm	300/40 ppm
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Lung
Inflammation Granulomatous Focal

LESION RATES

OVERALL (a)	2/50 (4%)	3/50 (6%)
LITTERS (b)	2/25 (8%)	3/25 (12%)
POLY-3 RATE (c)	2/42.02	3/45.66
POLY-3 PERCENT (g)	4.8%	6.6%
TERMINAL (d)	2/35 (6%)	3/38 (8%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.538
POLY 1.5	P=0.527
POLY 6	P=0.544
RAO-SCOTT	P=0.523
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: 17:26:57
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	0/40 ppm	300/40 ppm
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Lung: Alveolar Epithelium
Hyperplasia

LESION RATES

OVERALL (a)	2/50 (4%)	2/50 (4%)
LITTERS (b)	2/25 (8%)	2/25 (8%)
POLY-3 RATE (c)	2/42.02	2/45.82
POLY-3 PERCENT (g)	4.8%	4.4%
TERMINAL (d)	2/35 (6%)	1/38 (3%)
FIRST INCIDENCE	743 (T)	701

STATISTICAL TESTS

POLY 3	P=0.662N
POLY 1.5	P=0.671N
POLY 6	P=0.656N
RAO-SCOTT	P=0.642N
LITTER C-A/FISHERS	P=0.695

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: 17:26:57

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	0/40 ppm	300/40 ppm
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Lymph Node, Mandibular
Atrophy

LESION RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)
LITTERS (b)	1/25 (4%)	2/25 (8%)
POLY-3 RATE (c)	1/42.02	2/46.37
POLY-3 PERCENT (g)	2.4%	4.3%
TERMINAL (d)	1/35 (3%)	0/38 (0%)
FIRST INCIDENCE	743 (T)	561

STATISTICAL TESTS

POLY 3	P=0.534
POLY 1.5	P=0.524
POLY 6	P=0.542
RAO-SCOTT	P=0.531
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: 17:26:57

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	0/40 ppm	300/40 ppm
------	----------	------------

Lymph Node, Mandibular
Infiltration Cellular Plasma Cell

LESION RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	0/42.02	2/46.00
POLY-3 PERCENT (g)	0%	4.4%
TERMINAL (d)	0/35 (0%)	1/38 (3%)
FIRST INCIDENCE	---	648

STATISTICAL TESTS

POLY 3	P=0.258
POLY 1.5	P=0.252
POLY 6	P=0.263
RAO-SCOTT	P=0.351
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: 17:26:57

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	0/40 ppm	300/40 ppm
------	----------	------------

**Nose: Glands, Respiratory Epithelium
Inflammation**

LESION RATES

OVERALL (a)	2/50 (4%)	8/50 (16%)
LITTERS (b)	2/25 (8%)	7/25 (28%)
POLY-3 RATE (c)	2/42.02	8/46.23
POLY-3 PERCENT (g)	4.8%	17.3%
TERMINAL (d)	2/35 (6%)	7/38 (18%)
FIRST INCIDENCE	743 (T)	561

STATISTICAL TESTS

POLY 3	P=0.063
POLY 1.5	P=0.057
POLY 6	P=0.067
RAO-SCOTT	P=0.103
LITTER C-A/FISHERS	P=0.069

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: 17:26:57
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	0/40 ppm	300/40 ppm
------	----------	------------

Nose: Olfactory Epithelium
Accumulation, Hyaline Droplet

LESION RATES

OVERALL (a)	42/50 (84%)	44/50 (88%)
LITTERS (b)	25/25 (100%)	25/25 (100%)
POLY-3 RATE (c)	42/46.70	44/47.49
POLY-3 PERCENT (g)	89.9%	92.7%
TERMINAL (d)	33/35 (94%)	37/38 (97%)
FIRST INCIDENCE	314	561

STATISTICAL TESTS

POLY 3	P=0.458
POLY 1.5	P=0.452
POLY 6	P=0.443
RAO-SCOTT	P=0.451
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: 17:26:57

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	0/40 ppm	300/40 ppm
------	----------	------------

Nose: Olfactory Epithelium, Respiratory Epithelium
Inflammation

LESION RATES

OVERALL (a)	2/50 (4%)	1/50 (2%)
LITTERS (b)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	2/42.60	1/45.68
POLY-3 PERCENT (g)	4.7%	2.2%
TERMINAL (d)	1/35 (3%)	0/38 (0%)
FIRST INCIDENCE	557	739

STATISTICAL TESTS

POLY 3	P=0.476N
POLY 1.5	P=0.482N
POLY 6	P=0.473N
RAO-SCOTT	P=0.489N
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: 17:26:57

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	0/40 ppm	300/40 ppm
------	----------	------------

**Nose: Respiratory Epithelium
Inflammation**

LESION RATES

OVERALL (a)	1/50 (2%)	4/50 (8%)
LITTERS (b)	1/25 (4%)	4/25 (16%)
POLY-3 RATE (c)	1/42.02	4/45.82
POLY-3 PERCENT (g)	2.4%	8.7%
TERMINAL (d)	1/35 (3%)	3/38 (8%)
FIRST INCIDENCE	743 (T)	701

STATISTICAL TESTS

POLY 3	P=0.206
POLY 1.5	P=0.198
POLY 6	P=0.212
RAO-SCOTT	P=0.245
LITTER C-A/FISHERS	P=0.174

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: 17:26:57

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	0/40 ppm	300/40 ppm
------	----------	------------

**Pancreas
Inflammation Chronic**

LESION RATES

OVERALL (a)	2/50 (4%)	5/50 (10%)
LITTERS (b)	2/25 (8%)	5/25 (20%)
POLY-3 RATE (c)	2/42.02	5/45.66
POLY-3 PERCENT (g)	4.8%	11%
TERMINAL (d)	2/35 (6%)	5/38 (13%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.251
POLY 1.5	P=0.241
POLY 6	P=0.257
RAO-SCOTT	P=0.255
LITTER C-A/FISHERS	P=0.209

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: 17:26:57

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	0/40 ppm	300/40 ppm
------	----------	------------

Pancreas: Acinus
Atrophy

LESION RATES

OVERALL (a)	12/50 (24%)	14/50 (28%)
LITTERS (b)	11/25 (44%)	12/25 (48%)
POLY-3 RATE (c)	12/42.02	14/45.77
POLY-3 PERCENT (g)	28.6%	30.6%
TERMINAL (d)	12/35 (34%)	13/38 (34%)
FIRST INCIDENCE	743 (T)	715

STATISTICAL TESTS

POLY 3	P=0.510
POLY 1.5	P=0.481
POLY 6	P=0.531
RAO-SCOTT	P=0.502
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: 17:26:57

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	0/40 ppm	300/40 ppm
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**Pancreas: Acinus
Hyperplasia**

LESION RATES

OVERALL (a)	37/50 (74%)	38/50 (76%)
LITTERS (b)	24/25 (96%)	24/25 (96%)
POLY-3 RATE (c)	37/44.35	38/46.31
POLY-3 PERCENT (g)	83.4%	82.1%
TERMINAL (d)	31/35 (89%)	33/38 (87%)
FIRST INCIDENCE	502	683

STATISTICAL TESTS

POLY 3	P=0.544N
POLY 1.5	P=0.573N
POLY 6	P=0.547N
RAO-SCOTT	P=0.532N
LITTER C-A/FISHERS	P=0.755

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: 17:26:57

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	0/40 ppm	300/40 ppm
------	----------	------------

Pituitary Gland: Pars Distalis
Hyperplasia

LESION RATES

OVERALL (a)	24/50 (48%)	17/50 (34%)
LITTERS (b)	16/25 (64%)	13/25 (52%)
POLY-3 RATE (c)	24/43.52	17/46.09
POLY-3 PERCENT (g)	55.2%	36.9%
TERMINAL (d)	21/35 (60%)	15/38 (40%)
FIRST INCIDENCE	502	624

STATISTICAL TESTS

POLY 3	P=0.061N
POLY 1.5	P=0.071N
POLY 6	P=0.055N
RAO-SCOTT	P=0.086N
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: 17:26:57

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	0/40 ppm	300/40 ppm
------	----------	------------

Prostate
Inflammation

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	0/25 (0%)
POLY-3 RATE (c)	2/42.19	0/45.66
POLY-3 PERCENT (g)	4.7%	0%
TERMINAL (d)	1/35 (3%)	0/38 (0%)
FIRST INCIDENCE	697	---

STATISTICAL TESTS

POLY 3	P=0.220N
POLY 1.5	P=0.225N
POLY 6	P=0.218N
RAO-SCOTT	P=0.333N
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: 17:26:57

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	0/40 ppm	300/40 ppm
------	----------	------------

Prostate: Epithelium, Ventral
Hyperplasia

LESION RATES

OVERALL (a)	2/50 (4%)	5/50 (10%)
LITTERS (b)	2/25 (8%)	5/25 (20%)
POLY-3 RATE (c)	2/42.02	5/45.66
POLY-3 PERCENT (g)	4.8%	11%
TERMINAL (d)	2/35 (6%)	5/38 (13%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.251
POLY 1.5	P=0.241
POLY 6	P=0.257
RAO-SCOTT	P=0.255
LITTER C-A/FISHERS	P=0.209

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: 17:26:57

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	0/40 ppm	300/40 ppm
------	----------	------------

Prostate: Ventral
Inflammation Chronic

LESION RATES

OVERALL (a)	8/50 (16%)	10/50 (20%)
LITTERS (b)	8/25 (32%)	9/25 (36%)
POLY-3 RATE (c)	8/42.12	10/45.76
POLY-3 PERCENT (g)	19%	21.9%
TERMINAL (d)	6/35 (17%)	8/38 (21%)
FIRST INCIDENCE	725	722

STATISTICAL TESTS

POLY 3	P=0.473
POLY 1.5	P=0.452
POLY 6	P=0.487
RAO-SCOTT	P=0.463
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: 17:26:57

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	0/40 ppm	300/40 ppm
------	----------	------------

Skin
Inflammation

LESION RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)
LITTERS (b)	1/25 (4%)	2/25 (8%)
POLY-3 RATE (c)	1/42.02	2/46.00
POLY-3 PERCENT (g)	2.4%	4.4%
TERMINAL (d)	1/35 (3%)	1/38 (3%)
FIRST INCIDENCE	743 (T)	648

STATISTICAL TESTS

POLY 3	P=0.531
POLY 1.5	P=0.522
POLY 6	P=0.538
RAO-SCOTT	P=0.528
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: 17:26:57

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	0/40 ppm	300/40 ppm
------	----------	------------

Spleen
Extramedullary Hematopoiesis

LESION RATES

OVERALL (a)	38/50 (76%)	40/50 (80%)
LITTERS (b)	23/25 (92%)	24/25 (96%)
POLY-3 RATE (c)	38/43.93	40/46.83
POLY-3 PERCENT (g)	86.5%	85.4%
TERMINAL (d)	32/35 (91%)	34/38 (90%)
FIRST INCIDENCE	502	624

STATISTICAL TESTS

POLY 3	P=0.565N
POLY 1.5	P=0.601
POLY 6	P=0.520N
RAO-SCOTT	P=0.552N
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: 17:26:57

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	0/40 ppm	300/40 ppm
------	----------	------------

Spleen
Pigment

LESION RATES

OVERALL (a)	31/50 (62%)	39/50 (78%)
LITTERS (b)	21/25 (84%)	23/25 (92%)
POLY-3 RATE (c)	31/46.39	39/46.96
POLY-3 PERCENT (g)	66.8%	83.1%
TERMINAL (d)	22/35 (63%)	32/38 (84%)
FIRST INCIDENCE	218	561

STATISTICAL TESTS

POLY 3	P=0.052
POLY 1.5	P=0.052
POLY 6	P=0.050*
RAO-SCOTT	P=0.078
LITTER C-A/FISHERS	P=0.334

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: 17:26:57

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	0/40 ppm	300/40 ppm
------	----------	------------

Spleen: Lymphoid Follicle
Atrophy

LESION RATES

OVERALL (a)	4/50 (8%)	8/50 (16%)
LITTERS (b)	4/25 (16%)	7/25 (28%)
POLY-3 RATE (c)	4/45.17	8/48.81
POLY-3 PERCENT (g)	8.9%	16.4%
TERMINAL (d)	0/35 (0%)	1/38 (3%)
FIRST INCIDENCE	218	116

STATISTICAL TESTS

POLY 3	P=0.217
POLY 1.5	P=0.207
POLY 6	P=0.227
RAO-SCOTT	P=0.248
LITTER C-A/FISHERS	P=0.248

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: 17:26:57

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	0/40 ppm	300/40 ppm
------	----------	------------

Stomach, Forestomach
Inflammation

LESION RATES

OVERALL (a)	1/50 (2%)	3/50 (6%)
LITTERS (b)	1/25 (4%)	3/25 (12%)
POLY-3 RATE (c)	1/43.01	3/47.23
POLY-3 PERCENT (g)	2.3%	6.4%
TERMINAL (d)	0/35 (0%)	1/38 (3%)
FIRST INCIDENCE	134	116

STATISTICAL TESTS

POLY 3	P=0.340
POLY 1.5	P=0.330
POLY 6	P=0.347
RAO-SCOTT	P=0.362
LITTER C-A/FISHERS	P=0.305

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: 17:26:57

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	0/40 ppm	300/40 ppm
------	----------	------------

Stomach, Forestomach: Epithelium
Hyperplasia

LESION RATES

OVERALL (a)	2/50 (4%)	2/50 (4%)
LITTERS (b)	2/25 (8%)	2/25 (8%)
POLY-3 RATE (c)	2/43.01	2/46.66
POLY-3 PERCENT (g)	4.7%	4.3%
TERMINAL (d)	1/35 (3%)	1/38 (3%)
FIRST INCIDENCE	134	116

STATISTICAL TESTS

POLY 3	P=0.664N
POLY 1.5	P=0.672N
POLY 6	P=0.659N
RAO-SCOTT	P=0.648N
LITTER C-A/FISHERS	P=0.695

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: 17:26:57

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	0/40 ppm	300/40 ppm
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Testes: Bilateral, Germinal Epithelium
Degeneration

LESION RATES

OVERALL (a)	4/50 (8%)	4/49 (8%)
LITTERS (b)	4/25 (16%)	3/25 (12%)
POLY-3 RATE (c)	4/42.22	4/44.81
POLY-3 PERCENT (g)	9.5%	8.9%
TERMINAL (d)	2/35 (6%)	3/38 (8%)
FIRST INCIDENCE	697	739

STATISTICAL TESTS

POLY 3	P=0.610N
POLY 1.5	P=0.622N
POLY 6	P=0.604N
RAO-SCOTT	P=0.613N
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: 17:26:57

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	0/40 ppm	300/40 ppm
------	----------	------------

Testes: Germinal Epithelium
Degeneration

LESION RATES

OVERALL (a)	11/50 (22%)	10/49 (20%)
LITTERS (b)	9/25 (36%)	8/25 (32%)
POLY-3 RATE (c)	11/43.48	10/45.30
POLY-3 PERCENT (g)	25.3%	22.1%
TERMINAL (d)	6/35 (17%)	7/38 (18%)
FIRST INCIDENCE	241	624

STATISTICAL TESTS

POLY 3	P=0.457N
POLY 1.5	P=0.477N
POLY 6	P=0.445N
RAO-SCOTT	P=0.473N
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: 17:26:57

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	0/40 ppm	300/40 ppm
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Thymus
Atrophy

LESION RATES

OVERALL (a)	47/48 (98%)	46/47 (98%)
LITTERS (b)	25/25 (100%)	25/25 (100%)
POLY-3 RATE (c)	47/47.93	46/47.00
POLY-3 PERCENT (g)	98.1%	97.9%
TERMINAL (d)	34/34 (100%)	35/36 (97%)
FIRST INCIDENCE	134	116

STATISTICAL TESTS

POLY 3	P=0.747N
POLY 1.5	P=0.752N
POLY 6	P=0.739N
RAO-SCOTT	P=0.750N
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: 17:26:57

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	0/40 ppm	300/40 ppm
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Thyroid Gland: C-Cell
Hyperplasia

LESION RATES

OVERALL (a)	8/50 (16%)	10/50 (20%)
LITTERS (b)	8/25 (32%)	8/25 (32%)
POLY-3 RATE (c)	8/42.24	10/46.07
POLY-3 PERCENT (g)	18.9%	21.7%
TERMINAL (d)	7/35 (20%)	9/38 (24%)
FIRST INCIDENCE	683	624

STATISTICAL TESTS

POLY 3	P=0.477
POLY 1.5	P=0.454
POLY 6	P=0.492
RAO-SCOTT	P=0.480
LITTER C-A/FISHERS	P=0.619

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: 17:26:57

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	0/40 ppm	300/40 ppm
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Thyroid Gland: Follicular Cell
Hyperplasia

LESION RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)
LITTERS (b)	1/25 (4%)	2/25 (8%)
POLY-3 RATE (c)	1/42.02	2/45.66
POLY-3 PERCENT (g)	2.4%	4.4%
TERMINAL (d)	1/35 (3%)	2/38 (5%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.529
POLY 1.5	P=0.521
POLY 6	P=0.534
RAO-SCOTT	P=0.526
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: 17:26:57

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	0/40 ppm	300/40 ppm
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Thyroid Gland: Follicular Cell
Hypertrophy

LESION RATES

OVERALL (a)	7/50 (14%)	9/50 (18%)
LITTERS (b)	5/25 (20%)	7/25 (28%)
POLY-3 RATE (c)	7/43.01	9/46.82
POLY-3 PERCENT (g)	16.3%	19.2%
TERMINAL (d)	3/35 (9%)	7/38 (18%)
FIRST INCIDENCE	557	116

STATISTICAL TESTS

POLY 3	P=0.465
POLY 1.5	P=0.451
POLY 6	P=0.467
RAO-SCOTT	P=0.497
LITTER C-A/FISHERS	P=0.371

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

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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 ***