

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: 17:35:34
First Dose M/F: 07/27/09 / NA
Lab: BAT

Custom Rpt (Litter-Based) -- 0-80, 300-80

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 007 0/80 ppm	Include 008 300/80 ppm	
Study Gender:	Male		
TDMSE Version:	2.5.0.0_sfh		
PWG Approval Date:	NONE		

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: 17:35:34

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

Lab: BAT

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

MALE RATS

Organ

Adrenal Cortex

Nose: Respiratory Epithelium

Spleen

Morphology

Degeneration Cystic

Inflammation

Extramedullary Hematopoiesis

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Adrenal Cortex
Degeneration Cystic

LESION RATES

OVERALL (a)	0/50 (0%)	6/50 (12%)
LITTERS (b)	0/25 (0%)	6/26 (23%)
POLY-3 RATE (c)	0/41.66	6/44.73
POLY-3 PERCENT (g)	0%	13.4%
TERMINAL (d)	0/37 (0%)	6/39 (15%)
FIRST INCIDENCE	---	743 (T)

STATISTICAL TESTS

POLY 3	P=0.019*
POLY 1.5	P=0.019*
POLY 6	P=0.019*
RAO-SCOTT	P=0.043*
LITTER C-A/FISHERS	P=0.013*

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: 17:35:34

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	0/80 ppm	300/80 ppm
-------------	-----------------	-------------------

**Adrenal Cortex
Hypertrophy**

LESION RATES

OVERALL (a)	16/50 (32%)	17/50 (34%)
LITTERS (b)	13/25 (52%)	15/26 (58%)
POLY-3 RATE (c)	16/43.13	17/44.94
POLY-3 PERCENT (g)	37.1%	37.8%
TERMINAL (d)	14/37 (38%)	16/39 (41%)
FIRST INCIDENCE	473	689

STATISTICAL TESTS

POLY 3	P=0.559
POLY 1.5	P=0.554
POLY 6	P=0.551
RAO-SCOTT	P=0.552
LITTER C-A/FISHERS	P=0.450

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

**Adrenal Cortex: Zona Fasciculata
Hyperplasia**

LESION RATES

OVERALL (a)	1/50 (2%)	5/50 (10%)
LITTERS (b)	1/25 (4%)	5/26 (19%)
POLY-3 RATE (c)	1/41.66	5/45.33
POLY-3 PERCENT (g)	2.4%	11%
TERMINAL (d)	1/37 (3%)	3/39 (8%)
FIRST INCIDENCE	743 (T)	629

STATISTICAL TESTS

POLY 3	P=0.122
POLY 1.5	P=0.117
POLY 6	P=0.124
RAO-SCOTT	P=0.151
LITTER C-A/FISHERS	P=0.104

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Adrenal Medulla
Hyperplasia

LESION RATES

OVERALL (a)	2/50 (4%)	2/50 (4%)
LITTERS (b)	2/25 (8%)	2/26 (8%)
POLY-3 RATE (c)	2/41.66	2/44.73
POLY-3 PERCENT (g)	4.8%	4.5%
TERMINAL (d)	2/37 (5%)	2/39 (5%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.668N
POLY 1.5	P=0.673N
POLY 6	P=0.668N
RAO-SCOTT	P=0.644N
LITTER C-A/FISHERS	P=0.680N

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: 17:35:34

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	0/80 ppm	300/80 ppm
-------------	-----------------	-------------------

**Blood Vessel
Inflammation Chronic**

LESION RATES

OVERALL (a)	2/50 (4%)	3/50 (6%)
LITTERS (b)	2/25 (8%)	3/26 (12%)
POLY-3 RATE (c)	2/41.66	3/45.16
POLY-3 PERCENT (g)	4.8%	6.6%
TERMINAL (d)	2/37 (5%)	2/39 (5%)
FIRST INCIDENCE	743 (T)	617

STATISTICAL TESTS

POLY 3	P=0.537
POLY 1.5	P=0.529
POLY 6	P=0.540
RAO-SCOTT	P=0.523
LITTER C-A/FISHERS	P=0.519

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: 17:35:34

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	0/80 ppm	300/80 ppm
-------------	-----------------	-------------------

Blood Vessel

Mineral

LESION RATES

OVERALL (a)	4/50 (8%)	4/50 (8%)
LITTERS (b)	4/25 (16%)	4/26 (15%)
POLY-3 RATE (c)	4/41.82	4/44.94
POLY-3 PERCENT (g)	9.6%	8.9%
TERMINAL (d)	3/37 (8%)	3/39 (8%)
FIRST INCIDENCE	701	689

STATISTICAL TESTS

POLY 3	P=0.603N
POLY 1.5	P=0.611N
POLY 6	P=0.603N
RAO-SCOTT	P=0.585N
LITTER C-A/FISHERS	P=0.626N

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: 17:35:34

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	0/80 ppm	300/80 ppm
-------------	-----------------	-------------------

Blood Vessel: Aorta

Mineral

LESION RATES

OVERALL (a)	1/50 (2%)	4/50 (8%)
LITTERS (b)	1/25 (4%)	4/26 (15%)
POLY-3 RATE (c)	1/41.66	4/45.16
POLY-3 PERCENT (g)	2.4%	8.9%
TERMINAL (d)	1/37 (3%)	3/39 (8%)
FIRST INCIDENCE	743 (T)	617

STATISTICAL TESTS

POLY 3	P=0.204
POLY 1.5	P=0.198
POLY 6	P=0.206
RAO-SCOTT	P=0.234
LITTER C-A/FISHERS	P=0.187

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

**Bone Marrow
Hyperplasia**

LESION RATES

OVERALL (a)	5/50 (10%)	9/50 (18%)
LITTERS (b)	5/25 (20%)	9/26 (35%)
POLY-3 RATE (c)	5/45.23	9/48.55
POLY-3 PERCENT (g)	11.1%	18.5%
TERMINAL (d)	0/37 (0%)	2/39 (5%)
FIRST INCIDENCE	108	134

STATISTICAL TESTS

POLY 3	P=0.235
POLY 1.5	P=0.222
POLY 6	P=0.246
RAO-SCOTT	P=0.228
LITTER C-A/FISHERS	P=0.197

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Brain
Necrosis

LESION RATES

OVERALL (a)	3/50 (6%)	0/50 (0%)
LITTERS (b)	3/25 (12%)	0/26 (0%)
POLY-3 RATE (c)	3/44.63	0/44.73
POLY-3 PERCENT (g)	6.7%	0%
TERMINAL (d)	0/37 (0%)	0/39 (0%)
FIRST INCIDENCE	108	---

STATISTICAL TESTS

POLY 3	P=0.118N
POLY 1.5	P=0.119N
POLY 6	P=0.119N
RAO-SCOTT	P=0.197N
LITTER C-A/FISHERS	P=0.110N

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Eye: Cornea
Inflammation

LESION RATES

OVERALL (a)	1/50 (2%)	3/50 (6%)
LITTERS (b)	1/25 (4%)	3/26 (12%)
POLY-3 RATE (c)	1/41.82	3/44.73
POLY-3 PERCENT (g)	2.4%	6.7%
TERMINAL (d)	0/37 (0%)	3/39 (8%)
FIRST INCIDENCE	701	743 (T)

STATISTICAL TESTS

POLY 3	P=0.330
POLY 1.5	P=0.326
POLY 6	P=0.329
RAO-SCOTT	P=0.351
LITTER C-A/FISHERS	P=0.320

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: 17:35:34
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	0/80 ppm	300/80 ppm
------	----------	------------

Eye: Retina
Degeneration

LESION RATES

OVERALL (a)	5/50 (10%)	6/50 (12%)
LITTERS (b)	5/25 (20%)	5/26 (19%)
POLY-3 RATE (c)	5/41.66	6/44.73
POLY-3 PERCENT (g)	12%	13.4%
TERMINAL (d)	5/37 (14%)	6/39 (15%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.550
POLY 1.5	P=0.540
POLY 6	P=0.551
RAO-SCOTT	P=0.548
LITTER C-A/FISHERS	P=0.610N

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Heart
Cardiomyopathy

LESION RATES

OVERALL (a)	25/50 (50%)	24/50 (48%)
LITTERS (b)	18/25 (72%)	20/26 (77%)
POLY-3 RATE (c)	25/43.14	24/45.18
POLY-3 PERCENT (g)	58%	53.1%
TERMINAL (d)	21/37 (57%)	22/39 (56%)
FIRST INCIDENCE	432	617

STATISTICAL TESTS

POLY 3	P=0.403N
POLY 1.5	P=0.414N
POLY 6	P=0.420N
RAO-SCOTT	P=0.407N
LITTER C-A/FISHERS	P=0.467

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Heart: Valve
Degeneration

LESION RATES

OVERALL (a)	3/50 (6%)	0/50 (0%)
LITTERS (b)	3/25 (12%)	0/26 (0%)
POLY-3 RATE (c)	3/41.66	0/44.73
POLY-3 PERCENT (g)	7.2%	0%
TERMINAL (d)	3/37 (8%)	0/39 (0%)
FIRST INCIDENCE	743 (T)	---

STATISTICAL TESTS

POLY 3	P=0.106N
POLY 1.5	P=0.109N
POLY 6	P=0.106N
RAO-SCOTT	P=0.188N
LITTER C-A/FISHERS	P=0.110N

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Intestine Large, Colon
Parasite Metazoan

LESION RATES

OVERALL (a)	9/50 (18%)	7/50 (14%)
LITTERS (b)	9/25 (36%)	7/26 (27%)
POLY-3 RATE (c)	9/42.52	7/44.75
POLY-3 PERCENT (g)	21.2%	15.6%
TERMINAL (d)	7/37 (19%)	6/39 (15%)
FIRST INCIDENCE	456	739

STATISTICAL TESTS

POLY 3	P=0.349N
POLY 1.5	P=0.355N
POLY 6	P=0.353N
RAO-SCOTT	P=0.335N
LITTER C-A/FISHERS	P=0.346N

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Islets, Pancreatic
Hyperplasia

LESION RATES

OVERALL (a)	3/50 (6%)	9/50 (18%)
LITTERS (b)	3/25 (12%)	8/26 (31%)
POLY-3 RATE (c)	3/41.66	9/44.73
POLY-3 PERCENT (g)	7.2%	20.1%
TERMINAL (d)	3/37 (8%)	9/39 (23%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.076
POLY 1.5	P=0.073
POLY 6	P=0.076
RAO-SCOTT	P=0.104
LITTER C-A/FISHERS	P=0.098

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Kidney
Infarct

LESION RATES

OVERALL (a)	7/50 (14%)	2/50 (4%)
LITTERS (b)	7/25 (28%)	2/26 (8%)
POLY-3 RATE (c)	7/41.66	2/44.73
POLY-3 PERCENT (g)	16.8%	4.5%
TERMINAL (d)	7/37 (19%)	2/39 (5%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.062N
POLY 1.5	P=0.065N
POLY 6	P=0.062N
RAO-SCOTT	P=0.074N
LITTER C-A/FISHERS	P=0.061N

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: 17:35:34
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	0/80 ppm	300/80 ppm
------	----------	------------

Kidney
Nephropathy Chronic Progressive

LESION RATES

OVERALL (a)	47/50 (94%)	44/50 (88%)
LITTERS (b)	25/25 (100%)	24/26 (92%)
POLY-3 RATE (c)	47/48.40	44/48.12
POLY-3 PERCENT (g)	97.1%	91.4%
TERMINAL (d)	36/37 (97%)	37/39 (95%)
FIRST INCIDENCE	108	134

STATISTICAL TESTS

POLY 3	P=0.198N
POLY 1.5	P=0.194N
POLY 6	P=0.256N
RAO-SCOTT	P=0.265N
LITTER C-A/FISHERS	P=0.255N

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Liver
Basophilic Focus

LESION RATES

OVERALL (a)	2/50 (4%)	2/50 (4%)
LITTERS (b)	2/25 (8%)	1/26 (4%)
POLY-3 RATE (c)	2/41.66	2/44.73
POLY-3 PERCENT (g)	4.8%	4.5%
TERMINAL (d)	2/37 (5%)	2/39 (5%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.668N
POLY 1.5	P=0.673N
POLY 6	P=0.668N
RAO-SCOTT	P=0.685N
LITTER C-A/FISHERS	P=0.485N

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Liver
Clear Cell Focus

LESION RATES

OVERALL (a)	31/50 (62%)	38/50 (76%)
LITTERS (b)	20/25 (80%)	23/26 (88%)
POLY-3 RATE (c)	31/42.11	38/44.84
POLY-3 PERCENT (g)	73.6%	84.7%
TERMINAL (d)	30/37 (81%)	37/39 (95%)
FIRST INCIDENCE	609	715

STATISTICAL TESTS

POLY 3	P=0.138
POLY 1.5	P=0.135
POLY 6	P=0.116
RAO-SCOTT	P=0.203
LITTER C-A/FISHERS	P=0.329

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Liver
Degeneration Cystic

LESION RATES

OVERALL (a)	8/50 (16%)	11/50 (22%)
LITTERS (b)	8/25 (32%)	9/26 (35%)
POLY-3 RATE (c)	8/41.72	11/45.04
POLY-3 PERCENT (g)	19.2%	24.4%
TERMINAL (d)	7/37 (19%)	9/39 (23%)
FIRST INCIDENCE	726	689

STATISTICAL TESTS

POLY 3	P=0.371
POLY 1.5	P=0.357
POLY 6	P=0.376
RAO-SCOTT	P=0.382
LITTER C-A/FISHERS	P=0.540

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Liver
Eosinophilic Focus

LESION RATES

OVERALL (a)	9/50 (18%)	7/50 (14%)
LITTERS (b)	8/25 (32%)	7/26 (27%)
POLY-3 RATE (c)	9/41.82	7/44.73
POLY-3 PERCENT (g)	21.5%	15.7%
TERMINAL (d)	8/37 (22%)	7/39 (18%)
FIRST INCIDENCE	701	743 (T)

STATISTICAL TESTS

POLY 3	P=0.336N
POLY 1.5	P=0.346N
POLY 6	P=0.337N
RAO-SCOTT	P=0.344N
LITTER C-A/FISHERS	P=0.464N

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: 17:35:34
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	0/80 ppm	300/80 ppm
<hr/>		
Liver		
Inflammation Focal		
<hr/>		
LESION RATES		
OVERALL (a)	24/50 (48%)	24/50 (48%)
LITTERS (b)	17/25 (68%)	19/26 (73%)
POLY-3 RATE (c)	24/42.40	24/45.16
POLY-3 PERCENT (g)	56.6%	53.2%
TERMINAL (d)	23/37 (62%)	23/39 (59%)
FIRST INCIDENCE	473	617
<hr/>		
STATISTICAL TESTS		
POLY 3		P=0.456N
POLY 1.5		P=0.480N
POLY 6		P=0.452N
RAO-SCOTT		P=0.455N
LITTER C-A/FISHERS		P=0.464

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: 17:35:34
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	0/80 ppm	300/80 ppm
------	----------	------------

Liver
Mixed Cell Focus

LESION RATES

OVERALL (a)	6/50 (12%)	9/50 (18%)
LITTERS (b)	6/25 (24%)	7/26 (27%)
POLY-3 RATE (c)	6/41.72	9/44.94
POLY-3 PERCENT (g)	14.4%	20%
TERMINAL (d)	5/37 (14%)	8/39 (21%)
FIRST INCIDENCE	726	689

STATISTICAL TESTS

POLY 3	P=0.342
POLY 1.5	P=0.331
POLY 6	P=0.344
RAO-SCOTT	P=0.366
LITTER C-A/FISHERS	P=0.533

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Liver
Necrosis

LESION RATES

OVERALL (a)	20/50 (40%)	21/50 (42%)
LITTERS (b)	16/25 (64%)	16/26 (62%)
POLY-3 RATE (c)	20/44.41	21/46.01
POLY-3 PERCENT (g)	45%	45.7%
TERMINAL (d)	16/37 (43%)	18/39 (46%)
FIRST INCIDENCE	414	527

STATISTICAL TESTS

POLY 3	P=0.561
POLY 1.5	P=0.556
POLY 6	P=0.554
RAO-SCOTT	P=0.558
LITTER C-A/FISHERS	P=0.543N

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Liver
Pigment

LESION RATES

OVERALL (a)	30/50 (60%)	26/50 (52%)
LITTERS (b)	21/25 (84%)	16/26 (62%)
POLY-3 RATE (c)	30/43.29	26/46.21
POLY-3 PERCENT (g)	69.3%	56.3%
TERMINAL (d)	27/37 (73%)	22/39 (56%)
FIRST INCIDENCE	414	134

STATISTICAL TESTS

POLY 3	P=0.141N
POLY 1.5	P=0.157N
POLY 6	P=0.137N
RAO-SCOTT	P=0.175N
LITTER C-A/FISHERS	P=0.068N

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Liver: Bile Duct
Hyperplasia

LESION RATES

OVERALL (a)	1/50 (2%)	5/50 (10%)
LITTERS (b)	1/25 (4%)	4/26 (15%)
POLY-3 RATE (c)	1/41.66	5/44.73
POLY-3 PERCENT (g)	2.4%	11.2%
TERMINAL (d)	1/37 (3%)	5/39 (13%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.118
POLY 1.5	P=0.115
POLY 6	P=0.118
RAO-SCOTT	P=0.201
LITTER C-A/FISHERS	P=0.187

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Liver: Hepatocyte
Cytoplasmic Alteration

LESION RATES

OVERALL (a)	46/50 (92%)	41/50 (82%)
LITTERS (b)	25/25 (100%)	23/26 (88%)
POLY-3 RATE (c)	46/48.75	41/46.59
POLY-3 PERCENT (g)	94.4%	88%
TERMINAL (d)	35/37 (95%)	37/39 (95%)
FIRST INCIDENCE	108	134

STATISTICAL TESTS

POLY 3	P=0.208N
POLY 1.5	P=0.160N
POLY 6	P=0.302N
RAO-SCOTT	P=0.231N
LITTER C-A/FISHERS	P=0.125N

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Liver: Hepatocyte
Hypertrophy

LESION RATES

OVERALL (a)	43/50 (86%)	42/50 (84%)
LITTERS (b)	24/25 (96%)	23/26 (88%)
POLY-3 RATE (c)	43/46.10	42/46.86
POLY-3 PERCENT (g)	93.3%	89.6%
TERMINAL (d)	36/37 (97%)	37/39 (95%)
FIRST INCIDENCE	108	134

STATISTICAL TESTS

POLY 3	P=0.385N
POLY 1.5	P=0.405N
POLY 6	P=0.397N
RAO-SCOTT	P=0.388N
LITTER C-A/FISHERS	P=0.320N

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Liver: Hepatocyte
Single Cell Death

LESION RATES

OVERALL (a)	24/50 (48%)	29/50 (58%)
LITTERS (b)	16/25 (64%)	20/26 (77%)
POLY-3 RATE (c)	24/46.14	29/46.62
POLY-3 PERCENT (g)	52%	62.2%
TERMINAL (d)	19/37 (51%)	26/39 (67%)
FIRST INCIDENCE	108	134

STATISTICAL TESTS

POLY 3	P=0.214
POLY 1.5	P=0.213
POLY 6	P=0.207
RAO-SCOTT	P=0.240
LITTER C-A/FISHERS	P=0.241

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: 17:35:34
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	0/80 ppm	300/80 ppm
------	----------	------------

Lung
Infiltration Cellular Histiocyte

LESION RATES

OVERALL (a)	22/50 (44%)	23/50 (46%)
LITTERS (b)	16/25 (64%)	16/26 (62%)
POLY-3 RATE (c)	22/44.09	23/45.48
POLY-3 PERCENT (g)	49.9%	50.6%
TERMINAL (d)	17/37 (46%)	21/39 (54%)
FIRST INCIDENCE	432	527

STATISTICAL TESTS

POLY 3	P=0.559
POLY 1.5	P=0.559
POLY 6	P=0.541
RAO-SCOTT	P=0.558
LITTER C-A/FISHERS	P=0.543N

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: 17:35:34
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	0/80 ppm	300/80 ppm
------	----------	------------

Lung
Inflammation Chronic

LESION RATES

OVERALL (a)	5/50 (10%)	6/50 (12%)
LITTERS (b)	4/25 (16%)	5/26 (19%)
POLY-3 RATE (c)	5/41.66	6/45.16
POLY-3 PERCENT (g)	12%	13.3%
TERMINAL (d)	5/37 (14%)	5/39 (13%)
FIRST INCIDENCE	743 (T)	617

STATISTICAL TESTS

POLY 3	P=0.556
POLY 1.5	P=0.544
POLY 6	P=0.561
RAO-SCOTT	P=0.567
LITTER C-A/FISHERS	P=0.526

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: 17:35:34
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	0/80 ppm	300/80 ppm
------	----------	------------

Lung
Inflammation Granulomatous Focal

LESION RATES

OVERALL (a)	4/50 (8%)	6/50 (12%)
LITTERS (b)	3/25 (12%)	5/26 (19%)
POLY-3 RATE (c)	4/42.40	6/45.33
POLY-3 PERCENT (g)	9.4%	13.2%
TERMINAL (d)	3/37 (8%)	5/39 (13%)
FIRST INCIDENCE	473	550

STATISTICAL TESTS

POLY 3	P=0.412
POLY 1.5	P=0.404
POLY 6	P=0.413
RAO-SCOTT	P=0.447
LITTER C-A/FISHERS	P=0.374

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: 17:35:34

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	0/80 ppm	300/80 ppm
-------------	-----------------	-------------------

**Lung: Alveolar Epithelium
Hyperplasia**

LESION RATES

OVERALL (a)	2/50 (4%)	2/50 (4%)
LITTERS (b)	2/25 (8%)	2/26 (8%)
POLY-3 RATE (c)	2/41.66	2/44.73
POLY-3 PERCENT (g)	4.8%	4.5%
TERMINAL (d)	2/37 (5%)	2/39 (5%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.668N
POLY 1.5	P=0.673N
POLY 6	P=0.668N
RAO-SCOTT	P=0.646N
LITTER C-A/FISHERS	P=0.680N

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: 17:35:34

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	0/80 ppm	300/80 ppm
-------------	-----------------	-------------------

**Lymph Node, Mandibular
Atrophy**

LESION RATES

OVERALL (a)	2/49 (4%)	3/50 (6%)
LITTERS (b)	2/25 (8%)	3/26 (12%)
POLY-3 RATE (c)	2/42.23	3/46.32
POLY-3 PERCENT (g)	4.7%	6.5%
TERMINAL (d)	1/37 (3%)	1/39 (3%)
FIRST INCIDENCE	432	134

STATISTICAL TESTS

POLY 3	P=0.542
POLY 1.5	P=0.538
POLY 6	P=0.541
RAO-SCOTT	P=0.529
LITTER C-A/FISHERS	P=0.519

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: 17:35:34
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	0/80 ppm	300/80 ppm
------	----------	------------

Lymph Node, Mandibular
Hyperplasia Lymphoid

LESION RATES

OVERALL (a)	1/49 (2%)	3/50 (6%)
LITTERS (b)	1/25 (4%)	3/26 (12%)
POLY-3 RATE (c)	1/41.43	3/44.73
POLY-3 PERCENT (g)	2.4%	6.7%
TERMINAL (d)	1/37 (3%)	3/39 (8%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.333
POLY 1.5	P=0.330
POLY 6	P=0.332
RAO-SCOTT	P=0.353
LITTER C-A/FISHERS	P=0.320

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: 17:35:34
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	0/80 ppm	300/80 ppm
------	----------	------------

Lymph Node, Mandibular
Infiltration Cellular Plasma Cell

LESION RATES

OVERALL (a)	4/49 (8%)	0/50 (0%)
LITTERS (b)	4/25 (16%)	0/26 (0%)
POLY-3 RATE (c)	4/41.43	0/44.73
POLY-3 PERCENT (g)	9.7%	0%
TERMINAL (d)	4/37 (11%)	0/39 (0%)
FIRST INCIDENCE	743 (T)	---

STATISTICAL TESTS

POLY 3	P=0.051N
POLY 1.5	P=0.052N
POLY 6	P=0.051N
RAO-SCOTT	P=0.112N
LITTER C-A/FISHERS	P=0.051N

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Lymph Node, Mesenteric
Hyperplasia Lymphoid

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	0/26 (0%)
POLY-3 RATE (c)	2/41.66	0/44.73
POLY-3 PERCENT (g)	4.8%	0%
TERMINAL (d)	2/37 (5%)	0/39 (0%)
FIRST INCIDENCE	743 (T)	---

STATISTICAL TESTS

POLY 3	P=0.222N
POLY 1.5	P=0.225N
POLY 6	P=0.221N
RAO-SCOTT	P=0.331N
LITTER C-A/FISHERS	P=0.235N

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: 17:35:34
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	0/80 ppm	300/80 ppm
------	----------	------------

Nose: Olfactory Epithelium
Accumulation, Hyaline Droplet

LESION RATES

OVERALL (a)	37/50 (74%)	42/50 (84%)
LITTERS (b)	23/25 (92%)	25/26 (96%)
POLY-3 RATE (c)	37/46.42	42/47.32
POLY-3 PERCENT (g)	79.7%	88.8%
TERMINAL (d)	29/37 (78%)	36/39 (92%)
FIRST INCIDENCE	414	298

STATISTICAL TESTS

POLY 3	P=0.170
POLY 1.5	P=0.195
POLY 6	P=0.129
RAO-SCOTT	P=0.223
LITTER C-A/FISHERS	P=0.485

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

**Nose: Respiratory Epithelium
Inflammation**

LESION RATES

OVERALL (a)	1/50 (2%)	7/50 (14%)
LITTERS (b)	1/25 (4%)	7/26 (27%)
POLY-3 RATE (c)	1/41.66	7/44.73
POLY-3 PERCENT (g)	2.4%	15.7%
TERMINAL (d)	1/37 (3%)	7/39 (18%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.038*
POLY 1.5	P=0.036*
POLY 6	P=0.038*
RAO-SCOTT	P=0.053
LITTER C-A/FISHERS	P=0.028*

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: 17:35:34
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	0/80 ppm	300/80 ppm
------	----------	------------

Pancreas
Inflammation Chronic

LESION RATES

OVERALL (a)	4/50 (8%)	5/50 (10%)
LITTERS (b)	4/25 (16%)	5/26 (19%)
POLY-3 RATE (c)	4/41.66	5/44.73
POLY-3 PERCENT (g)	9.6%	11.2%
TERMINAL (d)	4/37 (11%)	5/39 (13%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.545
POLY 1.5	P=0.536
POLY 6	P=0.545
RAO-SCOTT	P=0.526
LITTER C-A/FISHERS	P=0.526

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Pancreas: Acinus
Atrophy

LESION RATES

OVERALL (a)	7/50 (14%)	14/50 (28%)
LITTERS (b)	7/25 (28%)	13/26 (50%)
POLY-3 RATE (c)	7/41.66	14/44.84
POLY-3 PERCENT (g)	16.8%	31.2%
TERMINAL (d)	7/37 (19%)	13/39 (33%)
FIRST INCIDENCE	743 (T)	715

STATISTICAL TESTS

POLY 3	P=0.093
POLY 1.5	P=0.088
POLY 6	P=0.094
RAO-SCOTT	P=0.091
LITTER C-A/FISHERS	P=0.093

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Pancreas: Acinus
Hyperplasia

LESION RATES

OVERALL (a)	31/50 (62%)	33/50 (66%)
LITTERS (b)	21/25 (84%)	22/26 (85%)
POLY-3 RATE (c)	31/42.84	33/45.44
POLY-3 PERCENT (g)	72.4%	72.6%
TERMINAL (d)	29/37 (78%)	31/39 (80%)
FIRST INCIDENCE	478	550

STATISTICAL TESTS

POLY 3	P=0.586
POLY 1.5	P=0.556
POLY 6	P=0.580
RAO-SCOTT	P=0.576
LITTER C-A/FISHERS	P=0.626

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: 17:35:34
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	0/80 ppm	300/80 ppm
------	----------	------------

Pituitary Gland: Pars Distalis
Hyperplasia

LESION RATES

OVERALL (a)	18/50 (36%)	17/50 (34%)
LITTERS (b)	15/25 (60%)	15/26 (58%)
POLY-3 RATE (c)	18/41.66	17/45.00
POLY-3 PERCENT (g)	43.2%	37.8%
TERMINAL (d)	18/37 (49%)	16/39 (41%)
FIRST INCIDENCE	743 (T)	670

STATISTICAL TESTS

POLY 3	P=0.383N
POLY 1.5	P=0.409N
POLY 6	P=0.374N
RAO-SCOTT	P=0.376N
LITTER C-A/FISHERS	P=0.547N

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Prostate: Dorsal
Inflammation Chronic

LESION RATES

OVERALL (a)	2/50 (4%)	1/50 (2%)
LITTERS (b)	2/25 (8%)	1/26 (4%)
POLY-3 RATE (c)	2/41.66	1/44.73
POLY-3 PERCENT (g)	4.8%	2.2%
TERMINAL (d)	2/37 (5%)	1/39 (3%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.475N
POLY 1.5	P=0.480N
POLY 6	P=0.475N
RAO-SCOTT	P=0.490N
LITTER C-A/FISHERS	P=0.485N

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Prostate: Epithelium, Ventral
Hyperplasia

LESION RATES

OVERALL (a)	3/50 (6%)	3/50 (6%)
LITTERS (b)	3/25 (12%)	3/26 (12%)
POLY-3 RATE (c)	3/41.72	3/44.73
POLY-3 PERCENT (g)	7.2%	6.7%
TERMINAL (d)	2/37 (5%)	3/39 (8%)
FIRST INCIDENCE	726	743 (T)

STATISTICAL TESTS

POLY 3	P=0.630N
POLY 1.5	P=0.636N
POLY 6	P=0.631N
RAO-SCOTT	P=0.610N
LITTER C-A/FISHERS	P=0.647N

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: 17:35:34
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	0/80 ppm	300/80 ppm
------	----------	------------

Prostate: Ventral
Inflammation Chronic

LESION RATES

OVERALL (a)	9/50 (18%)	9/50 (18%)
LITTERS (b)	8/25 (32%)	7/26 (27%)
POLY-3 RATE (c)	9/44.07	9/44.73
POLY-3 PERCENT (g)	20.4%	20.1%
TERMINAL (d)	5/37 (14%)	9/39 (23%)
FIRST INCIDENCE	108	743 (T)

STATISTICAL TESTS

POLY 3	P=0.590N
POLY 1.5	P=0.588N
POLY 6	P=0.603N
RAO-SCOTT	P=0.588N
LITTER C-A/FISHERS	P=0.464N

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Skin
Inflammation

LESION RATES

OVERALL (a)	2/50 (4%)	4/50 (8%)
LITTERS (b)	2/25 (8%)	4/26 (15%)
POLY-3 RATE (c)	2/41.82	4/44.73
POLY-3 PERCENT (g)	4.8%	8.9%
TERMINAL (d)	1/37 (3%)	4/39 (10%)
FIRST INCIDENCE	701	743 (T)

STATISTICAL TESTS

POLY 3	P=0.369
POLY 1.5	P=0.363
POLY 6	P=0.367
RAO-SCOTT	P=0.363
LITTER C-A/FISHERS	P=0.353

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Skin
Ulcer

LESION RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)
LITTERS (b)	1/25 (4%)	2/26 (8%)
POLY-3 RATE (c)	1/41.82	2/44.73
POLY-3 PERCENT (g)	2.4%	4.5%
TERMINAL (d)	0/37 (0%)	2/39 (5%)
FIRST INCIDENCE	701	743 (T)

STATISTICAL TESTS

POLY 3	P=0.523
POLY 1.5	P=0.519
POLY 6	P=0.523
RAO-SCOTT	P=0.517
LITTER C-A/FISHERS	P=0.515

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: 17:35:34
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	0/80 ppm	300/80 ppm
------	----------	------------

Spleen
Extramedullary Hematopoiesis

LESION RATES

OVERALL (a)	37/50 (74%)	36/50 (72%)
LITTERS (b)	25/25 (100%)	21/26 (81%)
POLY-3 RATE (c)	37/43.16	36/47.48
POLY-3 PERCENT (g)	85.7%	75.8%
TERMINAL (d)	32/37 (87%)	31/39 (80%)
FIRST INCIDENCE	473	134

STATISTICAL TESTS

POLY 3	P=0.169N
POLY 1.5	P=0.224N
POLY 6	P=0.157N
RAO-SCOTT	P=0.209N
LITTER C-A/FISHERS	P=0.028N*

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Spleen
Pigment

LESION RATES

OVERALL (a)	27/50 (54%)	28/50 (56%)
LITTERS (b)	21/25 (84%)	20/26 (77%)
POLY-3 RATE (c)	27/43.60	28/46.55
POLY-3 PERCENT (g)	61.9%	60.2%
TERMINAL (d)	23/37 (62%)	23/39 (59%)
FIRST INCIDENCE	194	134

STATISTICAL TESTS

POLY 3	P=0.518N
POLY 1.5	P=0.544N
POLY 6	P=0.510N
RAO-SCOTT	P=0.512N
LITTER C-A/FISHERS	P=0.390N

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Spleen: Lymphoid Follicle
Atrophy

LESION RATES

OVERALL (a)	7/50 (14%)	2/50 (4%)
LITTERS (b)	6/25 (24%)	2/26 (8%)
POLY-3 RATE (c)	7/45.23	2/46.41
POLY-3 PERCENT (g)	15.5%	4.3%
TERMINAL (d)	1/37 (3%)	0/39 (0%)
FIRST INCIDENCE	108	134

STATISTICAL TESTS

POLY 3	P=0.073N
POLY 1.5	P=0.074N
POLY 6	P=0.074N
RAO-SCOTT	P=0.124N
LITTER C-A/FISHERS	P=0.112N

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Stomach, Forestomach
Inflammation

LESION RATES

OVERALL (a)	1/50 (2%)	4/50 (8%)
LITTERS (b)	1/25 (4%)	4/26 (15%)
POLY-3 RATE (c)	1/42.39	4/46.12
POLY-3 PERCENT (g)	2.4%	8.7%
TERMINAL (d)	0/37 (0%)	2/39 (5%)
FIRST INCIDENCE	478	134

STATISTICAL TESTS

POLY 3	P=0.205
POLY 1.5	P=0.201
POLY 6	P=0.206
RAO-SCOTT	P=0.239
LITTER C-A/FISHERS	P=0.187

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Stomach, Forestomach: Epithelium
Hyperplasia

LESION RATES

OVERALL (a)	4/50 (8%)	6/50 (12%)
LITTERS (b)	4/25 (16%)	6/26 (23%)
POLY-3 RATE (c)	4/41.66	6/46.23
POLY-3 PERCENT (g)	9.6%	13%
TERMINAL (d)	4/37 (11%)	3/39 (8%)
FIRST INCIDENCE	743 (T)	134

STATISTICAL TESTS

POLY 3	P=0.436
POLY 1.5	P=0.423
POLY 6	P=0.443
RAO-SCOTT	P=0.426
LITTER C-A/FISHERS	P=0.390

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Testes
Edema

LESION RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)
LITTERS (b)	1/25 (4%)	2/26 (8%)
POLY-3 RATE (c)	1/41.66	2/44.73
POLY-3 PERCENT (g)	2.4%	4.5%
TERMINAL (d)	1/37 (3%)	2/39 (5%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.525
POLY 1.5	P=0.520
POLY 6	P=0.525
RAO-SCOTT	P=0.517
LITTER C-A/FISHERS	P=0.515

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Testes: Bilateral, Germinal Epithelium
Degeneration

LESION RATES

OVERALL (a)	3/50 (6%)	6/50 (12%)
LITTERS (b)	3/25 (12%)	5/26 (19%)
POLY-3 RATE (c)	3/41.66	6/44.73
POLY-3 PERCENT (g)	7.2%	13.4%
TERMINAL (d)	3/37 (8%)	6/39 (15%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.278
POLY 1.5	P=0.271
POLY 6	P=0.278
RAO-SCOTT	P=0.320
LITTER C-A/FISHERS	P=0.374

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Testes: Germinal Epithelium
Degeneration

LESION RATES

OVERALL (a)	7/50 (14%)	10/50 (20%)
LITTERS (b)	6/25 (24%)	9/26 (35%)
POLY-3 RATE (c)	7/42.40	10/45.16
POLY-3 PERCENT (g)	16.5%	22.1%
TERMINAL (d)	6/37 (16%)	9/39 (23%)
FIRST INCIDENCE	473	617

STATISTICAL TESTS

POLY 3	P=0.347
POLY 1.5	P=0.338
POLY 6	P=0.348
RAO-SCOTT	P=0.354
LITTER C-A/FISHERS	P=0.301

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: 17:35:34
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	0/80 ppm	300/80 ppm
<hr/>		
Thymus Atrophy		
<hr/>		
LESION RATES		
OVERALL (a)	47/49 (96%)	43/45 (96%)
LITTERS (b)	25/25 (100%)	25/26 (96%)
POLY-3 RATE (c)	47/47.20	43/44.01
POLY-3 PERCENT (g)	99.6%	97.7%
TERMINAL (d)	37/37 (100%)	35/35 (100%)
FIRST INCIDENCE	161	134
<hr/>		
STATISTICAL TESTS		
POLY 3		P=0.576N
POLY 1.5		P=0.507N
POLY 6		P=0.883N
RAO-SCOTT		P=0.542N
LITTER C-A/FISHERS		P=0.510N

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Thyroid Gland: C-Cell
Hyperplasia

LESION RATES

OVERALL (a)	7/49 (14%)	8/50 (16%)
LITTERS (b)	7/25 (28%)	7/26 (27%)
POLY-3 RATE (c)	7/41.43	8/44.73
POLY-3 PERCENT (g)	16.9%	17.9%
TERMINAL (d)	7/37 (19%)	8/39 (21%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.565
POLY 1.5	P=0.558
POLY 6	P=0.562
RAO-SCOTT	P=0.556
LITTER C-A/FISHERS	P=0.589N

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: 17:35:34

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	0/80 ppm	300/80 ppm
------	----------	------------

Thyroid Gland: Follicular Cell
Hypertrophy

LESION RATES

OVERALL (a)	11/49 (22%)	19/50 (38%)
LITTERS (b)	10/25 (40%)	15/26 (58%)
POLY-3 RATE (c)	11/42.17	19/46.03
POLY-3 PERCENT (g)	26.1%	41.3%
TERMINAL (d)	10/37 (27%)	15/39 (39%)
FIRST INCIDENCE	473	550

STATISTICAL TESTS

POLY 3	P=0.099
POLY 1.5	P=0.092
POLY 6	P=0.103
RAO-SCOTT	P=0.118
LITTER C-A/FISHERS	P=0.163

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: 17:35:34

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 ***