

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: 17:06:40
First Dose M/F: 07/27/09 / NA
Lab: BAT

Custom Rpt (Litter-Based) -- 0-20, 300-20

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 003 0/20 ppm	Include 004 300/20 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: 17:06:40

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

Liver

Liver: Hepatocyte

Morphology

Inflammation Focal

Cytoplasmic Alteration

Hypertrophy

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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

Adrenal Cortex
Degeneration Cystic

LESION RATES

OVERALL (a)	2/50 (4%)	5/50 (10%)
LITTERS (b)	2/25 (8%)	5/25 (20%)
POLY-3 RATE (c)	2/47.90	5/44.81
POLY-3 PERCENT (g)	4.2%	11.2%
TERMINAL (d)	0/42 (0%)	3/38 (8%)
FIRST INCIDENCE	655	739

STATISTICAL TESTS

POLY 3	P=0.190
POLY 1.5	P=0.199
POLY 6	P=0.185
RAO-SCOTT	P=0.218
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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

Adrenal Cortex
Hypertrophy

LESION RATES

OVERALL (a)	24/50 (48%)	24/50 (48%)
LITTERS (b)	16/25 (64%)	18/25 (72%)
POLY-3 RATE (c)	24/47.66	24/45.00
POLY-3 PERCENT (g)	50.4%	53.3%
TERMINAL (d)	22/42 (52%)	23/38 (61%)
FIRST INCIDENCE	694	683

STATISTICAL TESTS

POLY 3	P=0.469
POLY 1.5	P=0.503
POLY 6	P=0.455
RAO-SCOTT	P=0.481
LITTER C-A/FISHERS	P=0.381

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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

Adrenal Cortex: Zona Fasciculata
Hyperplasia

LESION RATES

OVERALL (a)	5/50 (10%)	2/50 (4%)
LITTERS (b)	5/25 (20%)	2/25 (8%)
POLY-3 RATE (c)	5/47.35	2/44.81
POLY-3 PERCENT (g)	10.6%	4.5%
TERMINAL (d)	5/42 (12%)	1/38 (3%)
FIRST INCIDENCE	743 (T)	734

STATISTICAL TESTS

POLY 3	P=0.239N
POLY 1.5	P=0.233N
POLY 6	P=0.241N
RAO-SCOTT	P=0.255N
LITTER C-A/FISHERS	P=0.209N

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

Adrenal Medulla
Hyperplasia

LESION RATES

OVERALL (a)	5/50 (10%)	3/50 (6%)
LITTERS (b)	5/25 (20%)	3/25 (12%)
POLY-3 RATE (c)	5/47.67	3/44.79
POLY-3 PERCENT (g)	10.5%	6.7%
TERMINAL (d)	4/42 (10%)	2/38 (5%)
FIRST INCIDENCE	655	739

STATISTICAL TESTS

POLY 3	P=0.391N
POLY 1.5	P=0.381N
POLY 6	P=0.397N
RAO-SCOTT	P=0.387N
LITTER C-A/FISHERS	P=0.351N

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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

**Blood Vessel
Inflammation**

LESION RATES

OVERALL (a)	2/50 (4%)	5/50 (10%)
LITTERS (b)	2/25 (8%)	5/25 (20%)
POLY-3 RATE (c)	2/47.35	5/45.25
POLY-3 PERCENT (g)	4.2%	11.1%
TERMINAL (d)	2/42 (5%)	4/38 (11%)
FIRST INCIDENCE	743 (T)	599

STATISTICAL TESTS

POLY 3	P=0.198
POLY 1.5	P=0.203
POLY 6	P=0.198
RAO-SCOTT	P=0.218
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: 17:06:40

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	0/20 ppm	300/20 ppm
-------------	-----------------	-------------------

**Blood Vessel
Inflammation Chronic**

LESION RATES

OVERALL (a)	5/50 (10%)	6/50 (12%)
LITTERS (b)	5/25 (20%)	5/25 (20%)
POLY-3 RATE (c)	5/47.67	6/44.79
POLY-3 PERCENT (g)	10.5%	13.4%
TERMINAL (d)	4/42 (10%)	5/38 (13%)
FIRST INCIDENCE	655	739

STATISTICAL TESTS

POLY 3	P=0.457
POLY 1.5	P=0.470
POLY 6	P=0.450
RAO-SCOTT	P=0.472
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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

**Blood Vessel
Mineral**

LESION RATES

OVERALL (a)	2/50 (4%)	1/50 (2%)
LITTERS (b)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	2/47.35	1/44.78
POLY-3 PERCENT (g)	4.2%	2.2%
TERMINAL (d)	2/42 (5%)	1/38 (3%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.519N
POLY 1.5	P=0.514N
POLY 6	P=0.521N
RAO-SCOTT	P=0.528N
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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

Blood Vessel: Aorta

Mineral

LESION RATES

OVERALL (a)	1/50 (2%)	3/50 (6%)
LITTERS (b)	1/25 (4%)	3/25 (12%)
POLY-3 RATE (c)	1/47.35	3/44.78
POLY-3 PERCENT (g)	2.1%	6.7%
TERMINAL (d)	1/42 (2%)	3/38 (8%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.286
POLY 1.5	P=0.292
POLY 6	P=0.284
RAO-SCOTT	P=0.323
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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

Blood Vessel: Pulmonary Artery

Mineral

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	0/25 (0%)
POLY-3 RATE (c)	2/47.59	0/44.78
POLY-3 PERCENT (g)	4.2%	0%
TERMINAL (d)	1/42 (2%)	0/38 (0%)
FIRST INCIDENCE	679	---

STATISTICAL TESTS

POLY 3	P=0.251N
POLY 1.5	P=0.247N
POLY 6	P=0.253N
RAO-SCOTT	P=0.359N
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: 17:06:40
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	0/20 ppm	300/20 ppm
------	----------	------------

Bone Marrow
Hyperplasia

LESION RATES

OVERALL (a)	9/50 (18%)	9/50 (18%)
LITTERS (b)	8/25 (32%)	8/25 (32%)
POLY-3 RATE (c)	9/49.30	9/47.52
POLY-3 PERCENT (g)	18.3%	18.9%
TERMINAL (d)	4/42 (10%)	3/38 (8%)
FIRST INCIDENCE	116	465

STATISTICAL TESTS

POLY 3	P=0.569
POLY 1.5	P=0.573
POLY 6	P=0.571
RAO-SCOTT	P=0.571
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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

Eye: Cornea
Inflammation

LESION RATES

OVERALL (a)	3/50 (6%)	3/50 (6%)
LITTERS (b)	3/25 (12%)	3/25 (12%)
POLY-3 RATE (c)	3/47.58	3/44.78
POLY-3 PERCENT (g)	6.3%	6.7%
TERMINAL (d)	2/42 (5%)	3/38 (8%)
FIRST INCIDENCE	680	743 (T)

STATISTICAL TESTS

POLY 3	P=0.634
POLY 1.5	P=0.643
POLY 6	P=0.630
RAO-SCOTT	P=0.623
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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

Eye: Retina
Degeneration

LESION RATES

OVERALL (a)	3/50 (6%)	0/50 (0%)
LITTERS (b)	3/25 (12%)	0/25 (0%)
POLY-3 RATE (c)	3/47.35	0/44.78
POLY-3 PERCENT (g)	6.3%	0%
TERMINAL (d)	3/42 (7%)	0/38 (0%)
FIRST INCIDENCE	743 (T)	---

STATISTICAL TESTS

POLY 3	P=0.129N
POLY 1.5	P=0.126N
POLY 6	P=0.130N
RAO-SCOTT	P=0.212N
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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

Heart
Cardiomyopathy

LESION RATES

OVERALL (a)	32/50 (64%)	32/50 (64%)
LITTERS (b)	20/25 (80%)	21/25 (84%)
POLY-3 RATE (c)	32/48.60	32/45.51
POLY-3 PERCENT (g)	65.8%	70.3%
TERMINAL (d)	27/42 (64%)	27/38 (71%)
FIRST INCIDENCE	655	599

STATISTICAL TESTS

POLY 3	P=0.403
POLY 1.5	P=0.463
POLY 6	P=0.363
RAO-SCOTT	P=0.425
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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

Intestine Large, Colon
Parasite Metazoan

LESION RATES

OVERALL (a)	10/50 (20%)	5/50 (10%)
LITTERS (b)	9/25 (36%)	4/25 (16%)
POLY-3 RATE (c)	10/47.47	5/45.00
POLY-3 PERCENT (g)	21.1%	11.1%
TERMINAL (d)	9/42 (21%)	4/38 (11%)
FIRST INCIDENCE	711	683

STATISTICAL TESTS

POLY 3	P=0.155N
POLY 1.5	P=0.148N
POLY 6	P=0.156N
RAO-SCOTT	P=0.170N
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: 17:06:40
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	0/20 ppm	300/20 ppm
------	----------	------------

Islets, Pancreatic
Hyperplasia

LESION RATES

OVERALL (a)	6/50 (12%)	2/50 (4%)
LITTERS (b)	6/25 (24%)	2/25 (8%)
POLY-3 RATE (c)	6/47.35	2/44.78
POLY-3 PERCENT (g)	12.7%	4.5%
TERMINAL (d)	6/42 (14%)	2/38 (5%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.152N
POLY 1.5	P=0.147N
POLY 6	P=0.153N
RAO-SCOTT	P=0.175N
LITTER C-A/FISHERS	P=0.123N

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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

Kidney
Accumulation, Hyaline Droplet

LESION RATES

OVERALL (a)	2/50 (4%)	1/50 (2%)
LITTERS (b)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	2/47.63	1/45.53
POLY-3 PERCENT (g)	4.2%	2.2%
TERMINAL (d)	1/42 (2%)	0/38 (0%)
FIRST INCIDENCE	666	465

STATISTICAL TESTS

POLY 3	P=0.516N
POLY 1.5	P=0.511N
POLY 6	P=0.517N
RAO-SCOTT	P=0.529N
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: 17:06:40
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	0/20 ppm	300/20 ppm
------	----------	------------

Kidney
Infarct

LESION RATES

OVERALL (a)	5/50 (10%)	2/50 (4%)
LITTERS (b)	4/25 (16%)	2/25 (8%)
POLY-3 RATE (c)	5/47.35	2/44.78
POLY-3 PERCENT (g)	10.6%	4.5%
TERMINAL (d)	5/42 (12%)	2/38 (5%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.240N
POLY 1.5	P=0.233N
POLY 6	P=0.242N
RAO-SCOTT	P=0.311N
LITTER C-A/FISHERS	P=0.334N

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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

**Kidney
Nephropathy Chronic Progressive**

LESION RATES

OVERALL (a)	49/50 (98%)	49/50 (98%)
LITTERS (b)	25/25 (100%)	25/25 (100%)
POLY-3 RATE (c)	49/50.00	49/50.00
POLY-3 PERCENT (g)	98%	98%
TERMINAL (d)	41/42 (98%)	37/38 (97%)
FIRST INCIDENCE	116	238

STATISTICAL TESTS

POLY 3	P=0.760
POLY 1.5	P=0.760
POLY 6	P=0.760
RAO-SCOTT	P=0.765N
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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

**Kidney: Papilla, Urothelium
Hyperplasia**

LESION RATES

OVERALL (a)	3/50 (6%)	2/50 (4%)
LITTERS (b)	3/25 (12%)	2/25 (8%)
POLY-3 RATE (c)	3/47.67	2/44.79
POLY-3 PERCENT (g)	6.3%	4.5%
TERMINAL (d)	2/42 (5%)	1/38 (3%)
FIRST INCIDENCE	655	739

STATISTICAL TESTS

POLY 3	P=0.528N
POLY 1.5	P=0.519N
POLY 6	P=0.533N
RAO-SCOTT	P=0.527N
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: 17:06:40
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	0/20 ppm	300/20 ppm
------	----------	------------

Liver
Clear Cell Focus

LESION RATES

OVERALL (a)	37/50 (74%)	38/50 (76%)
LITTERS (b)	24/25 (96%)	23/25 (92%)
POLY-3 RATE (c)	37/47.47	38/45.14
POLY-3 PERCENT (g)	77.9%	84.2%
TERMINAL (d)	36/42 (86%)	35/38 (92%)
FIRST INCIDENCE	711	683

STATISTICAL TESTS

POLY 3	P=0.300
POLY 1.5	P=0.359
POLY 6	P=0.286
RAO-SCOTT	P=0.301
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: 17:06:40
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	0/20 ppm	300/20 ppm
------	----------	------------

Liver
Degeneration Cystic

LESION RATES

OVERALL (a)	5/50 (10%)	3/50 (6%)
LITTERS (b)	5/25 (20%)	3/25 (12%)
POLY-3 RATE (c)	5/47.63	3/44.78
POLY-3 PERCENT (g)	10.5%	6.7%
TERMINAL (d)	4/42 (10%)	3/38 (8%)
FIRST INCIDENCE	666	743 (T)

STATISTICAL TESTS

POLY 3	P=0.391N
POLY 1.5	P=0.380N
POLY 6	P=0.396N
RAO-SCOTT	P=0.389N
LITTER C-A/FISHERS	P=0.351N

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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

Liver
Eosinophilic Focus

LESION RATES

OVERALL (a)	6/50 (12%)	5/50 (10%)
LITTERS (b)	6/25 (24%)	5/25 (20%)
POLY-3 RATE (c)	6/47.59	5/44.78
POLY-3 PERCENT (g)	12.6%	11.2%
TERMINAL (d)	5/42 (12%)	5/38 (13%)
FIRST INCIDENCE	679	743 (T)

STATISTICAL TESTS

POLY 3	P=0.542N
POLY 1.5	P=0.529N
POLY 6	P=0.549N
RAO-SCOTT	P=0.533N
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: 17:06:40
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	0/20 ppm	300/20 ppm
------	----------	------------

Liver
Extramedullary Hematopoiesis

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	0/25 (0%)
POLY-3 RATE (c)	2/47.35	0/44.78
POLY-3 PERCENT (g)	4.2%	0%
TERMINAL (d)	2/42 (5%)	0/38 (0%)
FIRST INCIDENCE	743 (T)	---

STATISTICAL TESTS

POLY 3	P=0.250N
POLY 1.5	P=0.246N
POLY 6	P=0.251N
RAO-SCOTT	P=0.357N
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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

Liver
Inflammation Focal

LESION RATES

OVERALL (a)	19/50 (38%)	11/50 (22%)
LITTERS (b)	16/25 (64%)	8/25 (32%)
POLY-3 RATE (c)	19/47.35	11/45.66
POLY-3 PERCENT (g)	40.1%	24.1%
TERMINAL (d)	19/42 (45%)	9/38 (24%)
FIRST INCIDENCE	743 (T)	465

STATISTICAL TESTS

POLY 3	P=0.074N
POLY 1.5	P=0.071N
POLY 6	P=0.072N
RAO-SCOTT	P=0.090N
LITTER C-A/FISHERS	P=0.023N*

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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

Liver
Mixed Cell Focus

LESION RATES

OVERALL (a)	4/50 (8%)	4/50 (8%)
LITTERS (b)	4/25 (16%)	4/25 (16%)
POLY-3 RATE (c)	4/47.35	4/44.78
POLY-3 PERCENT (g)	8.5%	8.9%
TERMINAL (d)	4/42 (10%)	4/38 (11%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.612
POLY 1.5	P=0.621
POLY 6	P=0.609
RAO-SCOTT	P=0.602
LITTER C-A/FISHERS	P=0.649

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

Liver
Necrosis

LESION RATES

OVERALL (a)	17/50 (34%)	11/50 (22%)
LITTERS (b)	14/25 (56%)	11/25 (44%)
POLY-3 RATE (c)	17/47.59	11/45.50
POLY-3 PERCENT (g)	35.7%	24.2%
TERMINAL (d)	16/42 (38%)	10/38 (26%)
FIRST INCIDENCE	679	485

STATISTICAL TESTS

POLY 3	P=0.161N
POLY 1.5	P=0.152N
POLY 6	P=0.163N
RAO-SCOTT	P=0.168N
LITTER C-A/FISHERS	P=0.286N

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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

Liver
Pigment

LESION RATES

OVERALL (a)	7/50 (14%)	4/50 (8%)
LITTERS (b)	7/25 (28%)	4/25 (16%)
POLY-3 RATE (c)	7/49.14	4/45.53
POLY-3 PERCENT (g)	14.2%	8.8%
TERMINAL (d)	3/42 (7%)	3/38 (8%)
FIRST INCIDENCE	116	465

STATISTICAL TESTS

POLY 3	P=0.307N
POLY 1.5	P=0.295N
POLY 6	P=0.315N
RAO-SCOTT	P=0.304N
LITTER C-A/FISHERS	P=0.248N

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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

Liver: Bile Duct
Hyperplasia

LESION RATES

OVERALL (a)	3/50 (6%)	8/50 (16%)
LITTERS (b)	3/25 (12%)	7/25 (28%)
POLY-3 RATE (c)	3/47.59	8/44.97
POLY-3 PERCENT (g)	6.3%	17.8%
TERMINAL (d)	2/42 (5%)	7/38 (18%)
FIRST INCIDENCE	679	693

STATISTICAL TESTS

POLY 3	P=0.082
POLY 1.5	P=0.087
POLY 6	P=0.080
RAO-SCOTT	P=0.123
LITTER C-A/FISHERS	P=0.145

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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

Liver: Hepatocyte
Cytoplasmic Alteration

LESION RATES

OVERALL (a)	12/50 (24%)	4/50 (8%)
LITTERS (b)	10/25 (40%)	4/25 (16%)
POLY-3 RATE (c)	12/48.77	4/45.53
POLY-3 PERCENT (g)	24.6%	8.8%
TERMINAL (d)	9/42 (21%)	3/38 (8%)
FIRST INCIDENCE	116	465

STATISTICAL TESTS

POLY 3	P=0.036N*
POLY 1.5	P=0.034N*
POLY 6	P=0.038N*
RAO-SCOTT	P=0.063N
LITTER C-A/FISHERS	P=0.057N

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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

Liver: Hepatocyte
Hypertrophy

LESION RATES

OVERALL (a)	13/50 (26%)	4/50 (8%)
LITTERS (b)	11/25 (44%)	4/25 (16%)
POLY-3 RATE (c)	13/49.05	4/45.00
POLY-3 PERCENT (g)	26.5%	8.9%
TERMINAL (d)	9/42 (21%)	3/38 (8%)
FIRST INCIDENCE	116	683

STATISTICAL TESTS

POLY 3	P=0.024N*
POLY 1.5	P=0.021N*
POLY 6	P=0.025N*
RAO-SCOTT	P=0.042N*
LITTER C-A/FISHERS	P=0.031N*

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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

Liver: Hepatocyte
Single Cell Death

LESION RATES

OVERALL (a)	1/50 (2%)	3/50 (6%)
LITTERS (b)	1/25 (4%)	3/25 (12%)
POLY-3 RATE (c)	1/47.35	3/47.47
POLY-3 PERCENT (g)	2.1%	6.3%
TERMINAL (d)	1/42 (2%)	0/38 (0%)
FIRST INCIDENCE	743 (T)	238

STATISTICAL TESTS

POLY 3	P=0.306
POLY 1.5	P=0.308
POLY 6	P=0.307
RAO-SCOTT	P=0.346
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: 17:06:40
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	0/20 ppm	300/20 ppm
------	----------	------------

Lung
Infiltration Cellular Histiocyte

LESION RATES

OVERALL (a)	28/50 (56%)	21/50 (42%)
LITTERS (b)	17/25 (68%)	14/25 (56%)
POLY-3 RATE (c)	28/47.87	21/45.75
POLY-3 PERCENT (g)	58.5%	45.9%
TERMINAL (d)	26/42 (62%)	18/38 (47%)
FIRST INCIDENCE	666	478

STATISTICAL TESTS

POLY 3	P=0.154N
POLY 1.5	P=0.141N
POLY 6	P=0.156N
RAO-SCOTT	P=0.215N
LITTER C-A/FISHERS	P=0.280N

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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

Lung
Inflammation Chronic

LESION RATES

OVERALL (a)	4/50 (8%)	2/50 (4%)
LITTERS (b)	4/25 (16%)	2/25 (8%)
POLY-3 RATE (c)	4/47.90	2/45.00
POLY-3 PERCENT (g)	8.4%	4.4%
TERMINAL (d)	2/42 (5%)	1/38 (3%)
FIRST INCIDENCE	655	683

STATISTICAL TESTS

POLY 3	P=0.367N
POLY 1.5	P=0.358N
POLY 6	P=0.371N
RAO-SCOTT	P=0.374N
LITTER C-A/FISHERS	P=0.334N

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: 17:06:40
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	0/20 ppm	300/20 ppm
------	----------	------------

Lung
Inflammation Granulomatous Focal

LESION RATES

OVERALL (a)	5/50 (10%)	11/50 (22%)
LITTERS (b)	5/25 (20%)	8/25 (32%)
POLY-3 RATE (c)	5/47.35	11/44.81
POLY-3 PERCENT (g)	10.6%	24.6%
TERMINAL (d)	5/42 (12%)	9/38 (24%)
FIRST INCIDENCE	743 (T)	739

STATISTICAL TESTS

POLY 3	P=0.066
POLY 1.5	P=0.071
POLY 6	P=0.064
RAO-SCOTT	P=0.118
LITTER C-A/FISHERS	P=0.260

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 17:06:40

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	0/20 ppm	300/20 ppm
-------------	-----------------	-------------------

**Lung: Alveolar Epithelium
Hyperplasia**

LESION RATES

OVERALL (a)	2/50 (4%)	4/50 (8%)
LITTERS (b)	2/25 (8%)	4/25 (16%)
POLY-3 RATE (c)	2/47.35	4/44.78
POLY-3 PERCENT (g)	4.2%	8.9%
TERMINAL (d)	2/42 (5%)	4/38 (11%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.312
POLY 1.5	P=0.319
POLY 6	P=0.309
RAO-SCOTT	P=0.325
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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

Lymph Node, Mandibular
Hyperplasia Lymphoid

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	0/25 (0%)
POLY-3 RATE (c)	2/47.35	0/44.78
POLY-3 PERCENT (g)	4.2%	0%
TERMINAL (d)	2/42 (5%)	0/38 (0%)
FIRST INCIDENCE	743 (T)	---

STATISTICAL TESTS

POLY 3	P=0.250N
POLY 1.5	P=0.246N
POLY 6	P=0.251N
RAO-SCOTT	P=0.357N
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: 17:06:40
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	0/20 ppm	300/20 ppm
------	----------	------------

Lymph Node, Mandibular
Infiltration Cellular Plasma Cell

LESION RATES

OVERALL (a)	2/50 (4%)	1/50 (2%)
LITTERS (b)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	2/47.67	1/44.78
POLY-3 PERCENT (g)	4.2%	2.2%
TERMINAL (d)	1/42 (2%)	1/38 (3%)
FIRST INCIDENCE	655	743 (T)

STATISTICAL TESTS

POLY 3	P=0.522N
POLY 1.5	P=0.515N
POLY 6	P=0.525N
RAO-SCOTT	P=0.531N
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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

**Nose: Glands, Respiratory Epithelium
Inflammation**

LESION RATES

OVERALL (a)	3/50 (6%)	0/50 (0%)
LITTERS (b)	3/25 (12%)	0/25 (0%)
POLY-3 RATE (c)	3/47.58	0/44.78
POLY-3 PERCENT (g)	6.3%	0%
TERMINAL (d)	2/42 (5%)	0/38 (0%)
FIRST INCIDENCE	680	---

STATISTICAL TESTS

POLY 3	P=0.130N
POLY 1.5	P=0.127N
POLY 6	P=0.132N
RAO-SCOTT	P=0.215N
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: 17:06:40
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	0/20 ppm	300/20 ppm
------	----------	------------

Nose: Olfactory Epithelium
Accumulation, Hyaline Droplet

LESION RATES

OVERALL (a)	44/50 (88%)	49/50 (98%)
LITTERS (b)	25/25 (100%)	25/25 (100%)
POLY-3 RATE (c)	44/48.27	49/49.96
POLY-3 PERCENT (g)	91.2%	98.1%
TERMINAL (d)	40/42 (95%)	38/38 (100%)
FIRST INCIDENCE	666	238

STATISTICAL TESTS

POLY 3	P=0.127
POLY 1.5	P=0.107
POLY 6	P=0.163
RAO-SCOTT	P=0.172
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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

**Nose: Respiratory Epithelium
Inflammation**

LESION RATES

OVERALL (a)	3/50 (6%)	6/50 (12%)
LITTERS (b)	3/25 (12%)	6/25 (24%)
POLY-3 RATE (c)	3/47.35	6/45.09
POLY-3 PERCENT (g)	6.3%	13.3%
TERMINAL (d)	3/42 (7%)	4/38 (11%)
FIRST INCIDENCE	743 (T)	693

STATISTICAL TESTS

POLY 3	P=0.219
POLY 1.5	P=0.225
POLY 6	P=0.219
RAO-SCOTT	P=0.233
LITTER C-A/FISHERS	P=0.232

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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

**Pancreas
Inflammation Chronic**

LESION RATES

OVERALL (a)	4/50 (8%)	0/50 (0%)
LITTERS (b)	4/25 (16%)	0/25 (0%)
POLY-3 RATE (c)	4/47.35	0/44.78
POLY-3 PERCENT (g)	8.5%	0%
TERMINAL (d)	4/42 (10%)	0/38 (0%)
FIRST INCIDENCE	743 (T)	---

STATISTICAL TESTS

POLY 3	P=0.068N
POLY 1.5	P=0.066N
POLY 6	P=0.068N
RAO-SCOTT	P=0.126N
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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

Pancreas: Acinus
Atrophy

LESION RATES

OVERALL (a)	10/50 (20%)	13/50 (26%)
LITTERS (b)	10/25 (40%)	10/25 (40%)
POLY-3 RATE (c)	10/47.35	13/44.79
POLY-3 PERCENT (g)	21.1%	29%
TERMINAL (d)	10/42 (24%)	12/38 (32%)
FIRST INCIDENCE	743 (T)	739

STATISTICAL TESTS

POLY 3	P=0.263
POLY 1.5	P=0.279
POLY 6	P=0.258
RAO-SCOTT	P=0.291
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: 17:06:40
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	0/20 ppm	300/20 ppm
------	----------	------------

Pancreas: Acinus
Hyperplasia

LESION RATES

OVERALL (a)	32/50 (64%)	27/50 (54%)
LITTERS (b)	21/25 (84%)	19/25 (76%)
POLY-3 RATE (c)	32/47.67	27/44.81
POLY-3 PERCENT (g)	67.1%	60.3%
TERMINAL (d)	31/42 (74%)	25/38 (66%)
FIRST INCIDENCE	655	739

STATISTICAL TESTS

POLY 3	P=0.316N
POLY 1.5	P=0.278N
POLY 6	P=0.333N
RAO-SCOTT	P=0.332N
LITTER C-A/FISHERS	P=0.363N

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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

Pituitary Gland: Pars Distalis
Hyperplasia

LESION RATES

OVERALL (a)	19/50 (38%)	14/50 (28%)
LITTERS (b)	17/25 (68%)	12/25 (48%)
POLY-3 RATE (c)	19/47.91	14/44.90
POLY-3 PERCENT (g)	39.7%	31.2%
TERMINAL (d)	17/42 (41%)	13/38 (34%)
FIRST INCIDENCE	666	711

STATISTICAL TESTS

POLY 3	P=0.263N
POLY 1.5	P=0.241N
POLY 6	P=0.275N
RAO-SCOTT	P=0.260N
LITTER C-A/FISHERS	P=0.126N

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: 17:06:40
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	0/20 ppm	300/20 ppm
------	----------	------------

Prostate: Epithelium, Ventral
Hyperplasia

LESION RATES

OVERALL (a)	2/50 (4%)	3/50 (6%)
LITTERS (b)	2/25 (8%)	3/25 (12%)
POLY-3 RATE (c)	2/47.35	3/44.78
POLY-3 PERCENT (g)	4.2%	6.7%
TERMINAL (d)	2/42 (5%)	3/38 (8%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.475
POLY 1.5	P=0.482
POLY 6	P=0.472
RAO-SCOTT	P=0.475
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: 17:06:40
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	0/20 ppm	300/20 ppm
------	----------	------------

Prostate: Lateral
Inflammation Chronic

LESION RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	0/47.35	2/44.78
POLY-3 PERCENT (g)	0%	4.5%
TERMINAL (d)	0/42 (0%)	2/38 (5%)
FIRST INCIDENCE	---	743 (T)

STATISTICAL TESTS

POLY 3	P=0.225
POLY 1.5	P=0.229
POLY 6	P=0.224
RAO-SCOTT	P=0.367
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: 17:06:40
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	0/20 ppm	300/20 ppm
------	----------	------------

Prostate: Ventral
Inflammation Chronic

LESION RATES

OVERALL (a)	3/50 (6%)	3/50 (6%)
LITTERS (b)	3/25 (12%)	3/25 (12%)
POLY-3 RATE (c)	3/47.58	3/44.78
POLY-3 PERCENT (g)	6.3%	6.7%
TERMINAL (d)	2/42 (5%)	3/38 (8%)
FIRST INCIDENCE	680	743 (T)

STATISTICAL TESTS

POLY 3	P=0.634
POLY 1.5	P=0.643
POLY 6	P=0.630
RAO-SCOTT	P=0.624
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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

Skin
Cyst Epithelial Inclusion

LESION RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	0/47.35	2/44.78
POLY-3 PERCENT (g)	0%	4.5%
TERMINAL (d)	0/42 (0%)	2/38 (5%)
FIRST INCIDENCE	---	743 (T)

STATISTICAL TESTS

POLY 3	P=0.225
POLY 1.5	P=0.229
POLY 6	P=0.224
RAO-SCOTT	P=0.357
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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

**Skin
Inflammation**

LESION RATES

OVERALL (a)	0/50 (0%)	3/50 (6%)
LITTERS (b)	0/25 (0%)	3/25 (12%)
POLY-3 RATE (c)	0/47.35	3/44.78
POLY-3 PERCENT (g)	0%	6.7%
TERMINAL (d)	0/42 (0%)	3/38 (8%)
FIRST INCIDENCE	---	743 (T)

STATISTICAL TESTS

POLY 3	P=0.109
POLY 1.5	P=0.112
POLY 6	P=0.108
RAO-SCOTT	P=0.211
LITTER C-A/FISHERS	P=0.117

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

Spleen
Extramedullary Hematopoiesis

LESION RATES

OVERALL (a)	45/50 (90%)	40/50 (80%)
LITTERS (b)	24/25 (96%)	23/25 (92%)
POLY-3 RATE (c)	45/48.49	40/45.87
POLY-3 PERCENT (g)	92.8%	87.2%
TERMINAL (d)	40/42 (95%)	36/38 (95%)
FIRST INCIDENCE	655	478

STATISTICAL TESTS

POLY 3	P=0.274N
POLY 1.5	P=0.205N
POLY 6	P=0.328N
RAO-SCOTT	P=0.295N
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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

Spleen
Pigment

LESION RATES

OVERALL (a)	42/50 (84%)	33/50 (66%)
LITTERS (b)	24/25 (96%)	22/25 (88%)
POLY-3 RATE (c)	42/49.05	33/46.56
POLY-3 PERCENT (g)	85.6%	70.9%
TERMINAL (d)	38/42 (91%)	27/38 (71%)
FIRST INCIDENCE	116	241

STATISTICAL TESTS

POLY 3	P=0.059N
POLY 1.5	P=0.051N
POLY 6	P=0.057N
RAO-SCOTT	P=0.070N
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: 17:06:40

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	0/20 ppm	300/20 ppm
-------------	-----------------	-------------------

**Spleen: Lymphoid Follicle
Atrophy**

LESION RATES

OVERALL (a)	2/50 (4%)	2/50 (4%)
LITTERS (b)	2/25 (8%)	2/25 (8%)
POLY-3 RATE (c)	2/47.82	2/45.93
POLY-3 PERCENT (g)	4.2%	4.4%
TERMINAL (d)	0/42 (0%)	0/38 (0%)
FIRST INCIDENCE	679	238

STATISTICAL TESTS

POLY 3	P=0.679
POLY 1.5	P=0.685
POLY 6	P=0.676
RAO-SCOTT	P=0.671
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: 17:06:40
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	0/20 ppm	300/20 ppm
------	----------	------------

Stomach, Forestomach
Inflammation

LESION RATES

OVERALL (a)	4/50 (8%)	4/50 (8%)
LITTERS (b)	3/25 (12%)	4/25 (16%)
POLY-3 RATE (c)	4/48.05	4/46.75
POLY-3 PERCENT (g)	8.3%	8.6%
TERMINAL (d)	1/42 (2%)	0/38 (0%)
FIRST INCIDENCE	666	465

STATISTICAL TESTS

POLY 3	P=0.628
POLY 1.5	P=0.632
POLY 6	P=0.627
RAO-SCOTT	P=0.638
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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

Stomach, Forestomach
Ulcer

LESION RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)
LITTERS (b)	1/25 (4%)	2/25 (8%)
POLY-3 RATE (c)	1/47.54	2/45.98
POLY-3 PERCENT (g)	2.1%	4.4%
TERMINAL (d)	0/42 (0%)	0/38 (0%)
FIRST INCIDENCE	694	485

STATISTICAL TESTS

POLY 3	P=0.488
POLY 1.5	P=0.491
POLY 6	P=0.489
RAO-SCOTT	P=0.509
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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

Stomach, Forestomach: Epithelium
Hyperplasia

LESION RATES

OVERALL (a)	3/50 (6%)	2/50 (4%)
LITTERS (b)	3/25 (12%)	2/25 (8%)
POLY-3 RATE (c)	3/47.77	2/46.01
POLY-3 PERCENT (g)	6.3%	4.4%
TERMINAL (d)	1/42 (2%)	0/38 (0%)
FIRST INCIDENCE	680	465

STATISTICAL TESTS

POLY 3	P=0.517N
POLY 1.5	P=0.512N
POLY 6	P=0.518N
RAO-SCOTT	P=0.517N
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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

Stomach, Glandular
Mineral

LESION RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	0/47.35	2/45.52
POLY-3 PERCENT (g)	0%	4.4%
TERMINAL (d)	0/42 (0%)	0/38 (0%)
FIRST INCIDENCE	---	485

STATISTICAL TESTS

POLY 3	P=0.229
POLY 1.5	P=0.231
POLY 6	P=0.229
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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

Testes: Bilateral, Germinal Epithelium
Degeneration

LESION RATES

OVERALL (a)	3/50 (6%)	4/50 (8%)
LITTERS (b)	3/25 (12%)	4/25 (16%)
POLY-3 RATE (c)	3/47.67	4/44.78
POLY-3 PERCENT (g)	6.3%	8.9%
TERMINAL (d)	2/42 (5%)	4/38 (11%)
FIRST INCIDENCE	655	743 (T)

STATISTICAL TESTS

POLY 3	P=0.466
POLY 1.5	P=0.477
POLY 6	P=0.461
RAO-SCOTT	P=0.460
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: 17:06:40
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	0/20 ppm	300/20 ppm
------	----------	------------

Testes: Germinal Epithelium
Degeneration

LESION RATES

OVERALL (a)	6/50 (12%)	9/50 (18%)
LITTERS (b)	6/25 (24%)	9/25 (36%)
POLY-3 RATE (c)	6/47.90	9/44.78
POLY-3 PERCENT (g)	12.5%	20.1%
TERMINAL (d)	4/42 (10%)	9/38 (24%)
FIRST INCIDENCE	655	743 (T)

STATISTICAL TESTS

POLY 3	P=0.241
POLY 1.5	P=0.256
POLY 6	P=0.231
RAO-SCOTT	P=0.233
LITTER C-A/FISHERS	P=0.269

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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

Thymus
Atrophy

LESION RATES

OVERALL (a)	45/46 (98%)	48/49 (98%)
LITTERS (b)	24/24 (100%)	25/25 (100%)
POLY-3 RATE (c)	45/46.00	48/49.00
POLY-3 PERCENT (g)	97.8%	98%
TERMINAL (d)	39/40 (98%)	36/37 (97%)
FIRST INCIDENCE	116	238

STATISTICAL TESTS

POLY 3	P=0.746
POLY 1.5	P=0.746
POLY 6	P=0.746
RAO-SCOTT	P=0.752
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: 17:06:40

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	0/20 ppm	300/20 ppm
------	----------	------------

Thyroid Gland: C-Cell
Hyperplasia

LESION RATES

OVERALL (a)	12/50 (24%)	12/50 (24%)
LITTERS (b)	11/25 (44%)	11/25 (44%)
POLY-3 RATE (c)	12/48.05	12/45.74
POLY-3 PERCENT (g)	25%	26.2%
TERMINAL (d)	9/42 (21%)	9/38 (24%)
FIRST INCIDENCE	666	465

STATISTICAL TESTS

POLY 3	P=0.538
POLY 1.5	P=0.555
POLY 6	P=0.529
RAO-SCOTT	P=0.533
LITTER C-A/FISHERS	P=0.612

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: 17:06:40
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	0/20 ppm	300/20 ppm
------	----------	------------

Thyroid Gland: Follicular Cell
Hypertrophy

LESION RATES

OVERALL (a)	12/50 (24%)	7/50 (14%)
LITTERS (b)	11/25 (44%)	6/25 (24%)
POLY-3 RATE (c)	12/48.81	7/46.48
POLY-3 PERCENT (g)	24.6%	15.1%
TERMINAL (d)	9/42 (21%)	5/38 (13%)
FIRST INCIDENCE	116	241

STATISTICAL TESTS

POLY 3	P=0.183N
POLY 1.5	P=0.175N
POLY 6	P=0.187N
RAO-SCOTT	P=0.187N
LITTER C-A/FISHERS	P=0.116N

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: 17:06:40

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 ***