

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 08/15/2018

Time Report Requested: 09:40:08

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

Lab: BAT

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

FEMALE RATS

Organ

Eye: Retina
Heart
Kidney: Papilla, Urothelium
Liver
Liver: Hepatocyte
Lung
Ovary

Morphology

Degeneration
Cardiomyopathy
Hyperplasia
Eosinophilic Focus
Cytoplasmic Alteration
Inflammation Chronic
Atrophy

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

Females

DOSE	0/300 ppm	150/300 ppm
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**Adrenal Cortex
Degeneration Cystic**

LESION RATES

OVERALL (a)	8/50 (16%)	11/50 (22%)
LITTERS (b)	7/29 (24%)	10/29 (34%)
POLY-3 RATE (c)	8/42.42	11/42.40
POLY-3 PERCENT (g)	18.9%	26%
TERMINAL (d)	6/28 (21%)	8/32 (25%)
FIRST INCIDENCE	643	564

STATISTICAL TESTS

POLY 3	P=0.300
POLY 1.5	P=0.293
POLY 6	P=0.325
RAO-SCOTT	P=0.304
LITTER C-A/FISHERS	P=0.282

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TERMINAL SACRIFICE AT 107 WEEKS**

Females

DOSE	0/300 ppm	150/300 ppm
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Adrenal Cortex
Hypertrophy

LESION RATES

OVERALL (a)	2/50 (4%)	5/50 (10%)
LITTERS (b)	2/29 (7%)	5/29 (17%)
POLY-3 RATE (c)	2/41.88	5/41.46
POLY-3 PERCENT (g)	4.8%	12.1%
TERMINAL (d)	2/28 (7%)	4/32 (13%)
FIRST INCIDENCE	744 (T)	739

STATISTICAL TESTS

POLY 3	P=0.211
POLY 1.5	P=0.209
POLY 6	P=0.221
RAO-SCOTT	P=0.209
LITTER C-A/FISHERS	P=0.211

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TERMINAL SACRIFICE AT 107 WEEKS**

Females

DOSE	0/300 ppm	150/300 ppm
-------------	------------------	--------------------

**Adrenal Cortex: Zona Fasciculata
Hyperplasia**

LESION RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)
LITTERS (b)	0/29 (0%)	2/29 (7%)
POLY-3 RATE (c)	0/41.88	2/41.73
POLY-3 PERCENT (g)	0%	4.8%
TERMINAL (d)	0/28 (0%)	0/32 (0%)
FIRST INCIDENCE	---	695

STATISTICAL TESTS

POLY 3	P=0.236
POLY 1.5	P=0.234
POLY 6	P=0.243
RAO-SCOTT	P=0.325
LITTER C-A/FISHERS	P=0.246

Experiment Number: 20614 - 01

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Species/Strain: RATS/HSD

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Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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**Adrenal Medulla
Hyperplasia**

LESION RATES

OVERALL (a)	14/50 (28%)	8/50 (16%)
LITTERS (b)	12/29 (41%)	8/29 (28%)
POLY-3 RATE (c)	14/42.56	8/42.33
POLY-3 PERCENT (g)	32.9%	18.9%
TERMINAL (d)	11/28 (39%)	6/32 (19%)
FIRST INCIDENCE	643	368

STATISTICAL TESTS

POLY 3	P=0.108N
POLY 1.5	P=0.113N
POLY 6	P=0.095N
RAO-SCOTT	P=0.122N
LITTER C-A/FISHERS	P=0.204N

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

Females

DOSE	0/300 ppm	150/300 ppm
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**Blood Vessel
Inflammation**

LESION RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)
LITTERS (b)	1/29 (3%)	2/29 (7%)
POLY-3 RATE (c)	1/41.90	2/41.44
POLY-3 PERCENT (g)	2.4%	4.8%
TERMINAL (d)	0/28 (0%)	2/32 (6%)
FIRST INCIDENCE	739	744 (T)

STATISTICAL TESTS

POLY 3	P=0.496
POLY 1.5	P=0.494
POLY 6	P=0.506
RAO-SCOTT	P=0.491
LITTER C-A/FISHERS	P=0.500

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

Females

DOSE	0/300 ppm	150/300 ppm
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**Blood Vessel: Aorta
Mineral**

LESION RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)
LITTERS (b)	1/29 (3%)	2/29 (7%)
POLY-3 RATE (c)	1/42.09	2/41.44
POLY-3 PERCENT (g)	2.4%	4.8%
TERMINAL (d)	0/28 (0%)	2/32 (6%)
FIRST INCIDENCE	687	744 (T)

STATISTICAL TESTS

POLY 3	P=0.495
POLY 1.5	P=0.493
POLY 6	P=0.502
RAO-SCOTT	P=0.488
LITTER C-A/FISHERS	P=0.500

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

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

Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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**Bone Marrow
Hyperplasia**

LESION RATES

OVERALL (a)	20/50 (40%)	22/50 (44%)
LITTERS (b)	18/29 (62%)	18/29 (62%)
POLY-3 RATE (c)	20/47.35	22/47.63
POLY-3 PERCENT (g)	42.2%	46.2%
TERMINAL (d)	7/28 (25%)	9/32 (28%)
FIRST INCIDENCE	250	322

STATISTICAL TESTS

POLY 3	P=0.428
POLY 1.5	P=0.411
POLY 6	P=0.467
RAO-SCOTT	P=0.428
LITTER C-A/FISHERS	P=0.606

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Test Type: CHRONIC

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Species/Strain: RATS/HSD

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Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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Eye: Retina
Degeneration

LESION RATES

OVERALL (a)	5/50 (10%)	0/50 (0%)
LITTERS (b)	4/29 (14%)	0/29 (0%)
POLY-3 RATE (c)	5/42.08	0/41.44
POLY-3 PERCENT (g)	11.9%	0%
TERMINAL (d)	3/28 (11%)	0/32 (0%)
FIRST INCIDENCE	695	---

STATISTICAL TESTS

POLY 3	P=0.031N*
POLY 1.5	P=0.032N*
POLY 6	P=0.029N*
RAO-SCOTT	P=0.120N
LITTER C-A/FISHERS	P=0.056N

Experiment Number: 20614 - 01

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Route: DOSED FEED

Species/Strain: RATS/HSD

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Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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**Heart
Cardiomyopathy**

LESION RATES

OVERALL (a)	5/50 (10%)	13/50 (26%)
LITTERS (b)	4/29 (14%)	11/29 (38%)
POLY-3 RATE (c)	5/42.76	13/44.45
POLY-3 PERCENT (g)	11.7%	29.3%
TERMINAL (d)	2/28 (7%)	8/32 (25%)
FIRST INCIDENCE	638	295

STATISTICAL TESTS

POLY 3	P=0.037*
POLY 1.5	P=0.034*
POLY 6	P=0.042*
RAO-SCOTT	P=0.056
LITTER C-A/FISHERS	P=0.035*

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

Females

DOSE	0/300 ppm	150/300 ppm
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Intestine Large, Colon
Parasite Metazoan

LESION RATES

OVERALL (a)	7/49 (14%)	8/50 (16%)
LITTERS (b)	7/29 (24%)	7/29 (24%)
POLY-3 RATE (c)	7/42.10	8/41.45
POLY-3 PERCENT (g)	16.6%	19.3%
TERMINAL (d)	3/27 (11%)	7/32 (22%)
FIRST INCIDENCE	470	742

STATISTICAL TESTS

POLY 3	P=0.487
POLY 1.5	P=0.491
POLY 6	P=0.498
RAO-SCOTT	P=0.480
LITTER C-A/FISHERS	P=0.620

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Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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Kidney
Calculus Micro Observation Only

LESION RATES

OVERALL (a)	14/50 (28%)	12/50 (24%)
LITTERS (b)	12/29 (41%)	12/29 (41%)
POLY-3 RATE (c)	14/42.44	12/42.40
POLY-3 PERCENT (g)	33%	28.3%
TERMINAL (d)	10/28 (36%)	8/32 (25%)
FIRST INCIDENCE	676	634

STATISTICAL TESTS

POLY 3	P=0.408N
POLY 1.5	P=0.422N
POLY 6	P=0.368N
RAO-SCOTT	P=0.405N
LITTER C-A/FISHERS	P=0.605

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Species/Strain: RATS/HSD

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

Females

DOSE	0/300 ppm	150/300 ppm
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Kidney
Infarct

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)
LITTERS (b)	2/29 (7%)	0/29 (0%)
POLY-3 RATE (c)	2/42.62	0/41.44
POLY-3 PERCENT (g)	4.7%	0%
TERMINAL (d)	0/28 (0%)	0/32 (0%)
FIRST INCIDENCE	574	---

STATISTICAL TESTS

POLY 3	P=0.243N
POLY 1.5	P=0.243N
POLY 6	P=0.240N
RAO-SCOTT	P=0.331N
LITTER C-A/FISHERS	P=0.246N

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TERMINAL SACRIFICE AT 107 WEEKS**

Females

DOSE	0/300 ppm	150/300 ppm
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**Kidney
Nephropathy Chronic Progressive**

LESION RATES

OVERALL (a)	38/50 (76%)	35/50 (70%)
LITTERS (b)	25/29 (86%)	25/29 (86%)
POLY-3 RATE (c)	38/46.11	35/45.50
POLY-3 PERCENT (g)	82.4%	76.9%
TERMINAL (d)	25/28 (89%)	26/32 (81%)
FIRST INCIDENCE	470	295

STATISTICAL TESTS

POLY 3	P=0.339N
POLY 1.5	P=0.345N
POLY 6	P=0.298N
RAO-SCOTT	P=0.346N
LITTER C-A/FISHERS	P=0.647

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Species/Strain: RATS/HSD

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TERMINAL SACRIFICE AT 107 WEEKS**

Females

DOSE	0/300 ppm	150/300 ppm
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Kidney: Cortex
Cyst

LESION RATES

OVERALL (a)	2/50 (4%)	2/50 (4%)
LITTERS (b)	2/29 (7%)	2/29 (7%)
POLY-3 RATE (c)	2/42.42	2/41.44
POLY-3 PERCENT (g)	4.7%	4.8%
TERMINAL (d)	1/28 (4%)	2/32 (6%)
FIRST INCIDENCE	574	744 (T)

STATISTICAL TESTS

POLY 3	P=0.686
POLY 1.5	P=0.685
POLY 6	P=0.693
RAO-SCOTT	P=0.660
LITTER C-A/FISHERS	P=0.694

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Species/Strain: RATS/HSD

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

Females

DOSE	0/300 ppm	150/300 ppm
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**Kidney: Papilla, Urothelium
Hyperplasia**

LESION RATES

OVERALL (a)	21/50 (42%)	8/50 (16%)
LITTERS (b)	20/29 (69%)	7/29 (24%)
POLY-3 RATE (c)	21/45.61	8/41.81
POLY-3 PERCENT (g)	46.1%	19.1%
TERMINAL (d)	9/28 (32%)	7/32 (22%)
FIRST INCIDENCE	470	638

STATISTICAL TESTS

POLY 3	P=0.006N**
POLY 1.5	P=0.005N**
POLY 6	P=0.007N**
RAO-SCOTT	P=0.007N**
LITTER C-A/FISHERS	P<0.001N**

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

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

Females

DOSE	0/300 ppm	150/300 ppm
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**Kidney: Renal Tubule
Mineral**

LESION RATES

OVERALL (a)	6/50 (12%)	8/50 (16%)
LITTERS (b)	5/29 (17%)	8/29 (28%)
POLY-3 RATE (c)	6/42.42	8/43.40
POLY-3 PERCENT (g)	14.1%	18.4%
TERMINAL (d)	3/28 (11%)	5/32 (16%)
FIRST INCIDENCE	659	295

STATISTICAL TESTS

POLY 3	P=0.403
POLY 1.5	P=0.394
POLY 6	P=0.422
RAO-SCOTT	P=0.401
LITTER C-A/FISHERS	P=0.265

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TERMINAL SACRIFICE AT 107 WEEKS**

Females

DOSE	0/300 ppm	150/300 ppm
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Liver
Basophilic Focus

LESION RATES

OVERALL (a)	8/50 (16%)	12/50 (24%)
LITTERS (b)	7/29 (24%)	10/29 (34%)
POLY-3 RATE (c)	8/42.27	12/42.06
POLY-3 PERCENT (g)	18.9%	28.5%
TERMINAL (d)	6/28 (21%)	9/32 (28%)
FIRST INCIDENCE	638	622

STATISTICAL TESTS

POLY 3	P=0.216
POLY 1.5	P=0.212
POLY 6	P=0.238
RAO-SCOTT	P=0.230
LITTER C-A/FISHERS	P=0.282

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

Females

DOSE	0/300 ppm	150/300 ppm
-------------	------------------	--------------------

Liver
Clear Cell Focus

LESION RATES

OVERALL (a)	9/50 (18%)	8/50 (16%)
LITTERS (b)	9/29 (31%)	7/29 (24%)
POLY-3 RATE (c)	9/42.50	8/41.82
POLY-3 PERCENT (g)	21.2%	19.1%
TERMINAL (d)	7/28 (25%)	7/32 (22%)
FIRST INCIDENCE	638	634

STATISTICAL TESTS

POLY 3	P=0.515N
POLY 1.5	P=0.518N
POLY 6	P=0.495N
RAO-SCOTT	P=0.500N
LITTER C-A/FISHERS	P=0.385N

Experiment Number: 20614 - 01

Test Type: CHRONIC

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Species/Strain: RATS/HSD

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

Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
-------------	------------------	--------------------

Liver
Eosinophilic Focus

LESION RATES

OVERALL (a)	1/50 (2%)	12/50 (24%)
LITTERS (b)	1/29 (3%)	11/29 (38%)
POLY-3 RATE (c)	1/42.25	12/41.54
POLY-3 PERCENT (g)	2.4%	28.9%
TERMINAL (d)	0/28 (0%)	11/32 (34%)
FIRST INCIDENCE	638	718

STATISTICAL TESTS

POLY 3	P<0.001**
POLY 1.5	P<0.001**
POLY 6	P<0.001**
RAO-SCOTT	P=0.005**
LITTER C-A/FISHERS	P<0.001**

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

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Perfluorooctanoic Acid
CAS Number: 335-67-1

Date Report Requested: 08/15/2018
Time Report Requested: 09:40:08
First Dose M/F: 10/27/08 / 10/28/08
Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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Liver
Extramedullary Hematopoiesis

LESION RATES

OVERALL (a)	7/50 (14%)	10/50 (20%)
LITTERS (b)	7/29 (24%)	8/29 (28%)
POLY-3 RATE (c)	7/43.48	10/44.45
POLY-3 PERCENT (g)	16.1%	22.5%
TERMINAL (d)	4/28 (14%)	4/32 (13%)
FIRST INCIDENCE	250	351

STATISTICAL TESTS

POLY 3	P=0.312
POLY 1.5	P=0.296
POLY 6	P=0.349
RAO-SCOTT	P=0.337
LITTER C-A/FISHERS	P=0.500

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 08/15/2018

Time Report Requested: 09:40:08

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

Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
-------------	------------------	--------------------

Liver
Inflammation Focal

LESION RATES

OVERALL (a)	10/50 (20%)	6/50 (12%)
LITTERS (b)	9/29 (31%)	6/29 (21%)
POLY-3 RATE (c)	10/42.99	6/42.34
POLY-3 PERCENT (g)	23.3%	14.2%
TERMINAL (d)	8/28 (29%)	5/32 (16%)
FIRST INCIDENCE	470	349

STATISTICAL TESTS

POLY 3	P=0.212N
POLY 1.5	P=0.215N
POLY 6	P=0.198N
RAO-SCOTT	P=0.223N
LITTER C-A/FISHERS	P=0.275N

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 08/15/2018

Time Report Requested: 09:40:08

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

Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
-------------	------------------	--------------------

Liver
Necrosis

LESION RATES

OVERALL (a)	1/50 (2%)	4/50 (8%)
LITTERS (b)	1/29 (3%)	4/29 (14%)
POLY-3 RATE (c)	1/42.60	4/43.82
POLY-3 PERCENT (g)	2.4%	9.1%
TERMINAL (d)	0/28 (0%)	1/32 (3%)
FIRST INCIDENCE	484	322

STATISTICAL TESTS

POLY 3	P=0.187
POLY 1.5	P=0.182
POLY 6	P=0.197
RAO-SCOTT	P=0.218
LITTER C-A/FISHERS	P=0.176

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 08/15/2018

Time Report Requested: 09:40:08

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

Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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Liver
Pigment

LESION RATES

OVERALL (a)	5/50 (10%)	10/50 (20%)
LITTERS (b)	5/29 (17%)	9/29 (31%)
POLY-3 RATE (c)	5/42.71	10/41.81
POLY-3 PERCENT (g)	11.7%	23.9%
TERMINAL (d)	1/28 (4%)	9/32 (28%)
FIRST INCIDENCE	676	638

STATISTICAL TESTS

POLY 3	P=0.116
POLY 1.5	P=0.118
POLY 6	P=0.121
RAO-SCOTT	P=0.136
LITTER C-A/FISHERS	P=0.179

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

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

Date Report Requested: 08/15/2018
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First Dose M/F: 10/27/08 / 10/28/08
Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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Liver: Bile Duct
Cyst

LESION RATES

OVERALL (a)	6/50 (12%)	5/50 (10%)
LITTERS (b)	6/29 (21%)	5/29 (17%)
POLY-3 RATE (c)	6/42.62	5/41.81
POLY-3 PERCENT (g)	14.1%	12%
TERMINAL (d)	5/28 (18%)	4/32 (13%)
FIRST INCIDENCE	470	638

STATISTICAL TESTS

POLY 3	P=0.514N
POLY 1.5	P=0.516N
POLY 6	P=0.494N
RAO-SCOTT	P=0.497N
LITTER C-A/FISHERS	P=0.500N

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

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

Date Report Requested: 08/15/2018
Time Report Requested: 09:40:08
First Dose M/F: 10/27/08 / 10/28/08
Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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Liver: Bile Duct
Hyperplasia

LESION RATES

OVERALL (a)	25/50 (50%)	27/50 (54%)
LITTERS (b)	19/29 (66%)	18/29 (62%)
POLY-3 RATE (c)	25/44.43	27/44.08
POLY-3 PERCENT (g)	56.3%	61.3%
TERMINAL (d)	17/28 (61%)	20/32 (63%)
FIRST INCIDENCE	484	349

STATISTICAL TESTS

POLY 3	P=0.395
POLY 1.5	P=0.389
POLY 6	P=0.433
RAO-SCOTT	P=0.407
LITTER C-A/FISHERS	P=0.500N

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 08/15/2018

Time Report Requested: 09:40:08

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

Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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Liver: Centrilobular
Necrosis

LESION RATES

OVERALL (a)	4/50 (8%)	2/50 (4%)
LITTERS (b)	4/29 (14%)	2/29 (7%)
POLY-3 RATE (c)	4/43.38	2/41.57
POLY-3 PERCENT (g)	9.2%	4.8%
TERMINAL (d)	1/28 (4%)	0/32 (0%)
FIRST INCIDENCE	250	714

STATISTICAL TESTS

POLY 3	P=0.357N
POLY 1.5	P=0.356N
POLY 6	P=0.348N
RAO-SCOTT	P=0.347N
LITTER C-A/FISHERS	P=0.335N

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

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

Date Report Requested: 08/15/2018
Time Report Requested: 09:40:08
First Dose M/F: 10/27/08 / 10/28/08
Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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Liver: Hepatocyte
Cytoplasmic Alteration

LESION RATES

OVERALL (a)	9/50 (18%)	17/50 (34%)
LITTERS (b)	9/29 (31%)	14/29 (48%)
POLY-3 RATE (c)	9/44.55	17/43.53
POLY-3 PERCENT (g)	20.2%	39.1%
TERMINAL (d)	2/28 (7%)	12/32 (38%)
FIRST INCIDENCE	250	322

STATISTICAL TESTS

POLY 3	P=0.041*
POLY 1.5	P=0.043*
POLY 6	P=0.043*
RAO-SCOTT	P=0.051
LITTER C-A/FISHERS	P=0.141

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 08/15/2018

Time Report Requested: 09:40:08

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

Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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Liver: Hepatocyte
Hypertrophy

LESION RATES

OVERALL (a)	11/50 (22%)	16/50 (32%)
LITTERS (b)	11/29 (38%)	15/29 (52%)
POLY-3 RATE (c)	11/45.30	16/43.91
POLY-3 PERCENT (g)	24.3%	36.4%
TERMINAL (d)	3/28 (11%)	11/32 (34%)
FIRST INCIDENCE	250	322

STATISTICAL TESTS

POLY 3	P=0.152
POLY 1.5	P=0.156
POLY 6	P=0.160
RAO-SCOTT	P=0.148
LITTER C-A/FISHERS	P=0.214

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

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

Date Report Requested: 08/15/2018
Time Report Requested: 09:40:08
First Dose M/F: 10/27/08 / 10/28/08
Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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Liver: Hepatocyte
Increased mitoses

LESION RATES

OVERALL (a)	3/50 (6%)	5/50 (10%)
LITTERS (b)	3/29 (10%)	5/29 (17%)
POLY-3 RATE (c)	3/43.89	5/41.66
POLY-3 PERCENT (g)	6.8%	12%
TERMINAL (d)	0/28 (0%)	3/32 (9%)
FIRST INCIDENCE	470	714

STATISTICAL TESTS

POLY 3	P=0.327
POLY 1.5	P=0.333
POLY 6	P=0.334
RAO-SCOTT	P=0.323
LITTER C-A/FISHERS	P=0.353

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

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

Date Report Requested: 08/15/2018
Time Report Requested: 09:40:08
First Dose M/F: 10/27/08 / 10/28/08
Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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Liver: Hepatocyte
Single Cell Death

LESION RATES

OVERALL (a)	4/50 (8%)	5/50 (10%)
LITTERS (b)	4/29 (14%)	4/29 (14%)
POLY-3 RATE (c)	4/44.07	5/42.42
POLY-3 PERCENT (g)	9.1%	11.8%
TERMINAL (d)	0/28 (0%)	3/32 (9%)
FIRST INCIDENCE	470	368

STATISTICAL TESTS

POLY 3	P=0.476
POLY 1.5	P=0.480
POLY 6	P=0.482
RAO-SCOTT	P=0.492
LITTER C-A/FISHERS	P=0.647

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 08/15/2018

Time Report Requested: 09:40:08

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

Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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**Lung
Inflammation Chronic**

LESION RATES

OVERALL (a)	2/50 (4%)	7/50 (14%)
LITTERS (b)	1/29 (3%)	7/29 (24%)
POLY-3 RATE (c)	2/42.46	7/41.44
POLY-3 PERCENT (g)	4.7%	16.9%
TERMINAL (d)	0/28 (0%)	7/32 (22%)
FIRST INCIDENCE	638	744 (T)

STATISTICAL TESTS

POLY 3	P=0.071
POLY 1.5	P=0.072
POLY 6	P=0.074
RAO-SCOTT	P=0.085
LITTER C-A/FISHERS	P=0.026*

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

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

Date Report Requested: 08/15/2018
Time Report Requested: 09:40:08
First Dose M/F: 10/27/08 / 10/28/08
Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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Lung: Alveolus
Infiltration Cellular Histiocyte

LESION RATES

OVERALL (a)	33/50 (66%)	31/50 (62%)
LITTERS (b)	22/29 (76%)	22/29 (76%)
POLY-3 RATE (c)	33/46.65	31/43.97
POLY-3 PERCENT (g)	70.8%	70.5%
TERMINAL (d)	20/28 (71%)	24/32 (75%)
FIRST INCIDENCE	470	368

STATISTICAL TESTS

POLY 3	P=0.584N
POLY 1.5	P=0.536N
POLY 6	P=0.593
RAO-SCOTT	P=0.580N
LITTER C-A/FISHERS	P=0.620

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

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

Date Report Requested: 08/15/2018
Time Report Requested: 09:40:08
First Dose M/F: 10/27/08 / 10/28/08
Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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Lymph Node, Mandibular
Atrophy Lymphoid

LESION RATES

OVERALL (a)	2/49 (4%)	1/49 (2%)
LITTERS (b)	2/29 (7%)	1/29 (3%)
POLY-3 RATE (c)	2/41.44	1/40.44
POLY-3 PERCENT (g)	4.8%	2.5%
TERMINAL (d)	1/28 (4%)	1/31 (3%)
FIRST INCIDENCE	643	744 (T)

STATISTICAL TESTS

POLY 3	P=0.509N
POLY 1.5	P=0.508N
POLY 6	P=0.503N
RAO-SCOTT	P=0.495N
LITTER C-A/FISHERS	P=0.500N

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

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

Date Report Requested: 08/15/2018
Time Report Requested: 09:40:08
First Dose M/F: 10/27/08 / 10/28/08
Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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Lymph Node, Mandibular
Infiltration Cellular Plasma Cell

LESION RATES

OVERALL (a)	1/49 (2%)	2/49 (4%)
LITTERS (b)	1/29 (3%)	2/29 (7%)
POLY-3 RATE (c)	1/41.84	2/40.44
POLY-3 PERCENT (g)	2.4%	5%
TERMINAL (d)	0/28 (0%)	2/31 (7%)
FIRST INCIDENCE	470	744 (T)

STATISTICAL TESTS

POLY 3	P=0.488
POLY 1.5	P=0.489
POLY 6	P=0.494
RAO-SCOTT	P=0.481
LITTER C-A/FISHERS	P=0.500

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 08/15/2018

Time Report Requested: 09:40:08

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

Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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Lymph Node, Mesenteric
Atrophy Lymphoid

LESION RATES

OVERALL (a)	3/48 (6%)	2/50 (4%)
LITTERS (b)	3/29 (10%)	2/29 (7%)
POLY-3 RATE (c)	3/40.63	2/41.86
POLY-3 PERCENT (g)	7.4%	4.8%
TERMINAL (d)	1/27 (4%)	1/32 (3%)
FIRST INCIDENCE	643	622

STATISTICAL TESTS

POLY 3	P=0.486N
POLY 1.5	P=0.489N
POLY 6	P=0.476N
RAO-SCOTT	P=0.471N
LITTER C-A/FISHERS	P=0.500N

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 08/15/2018

Time Report Requested: 09:40:08

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

Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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**Mammary Gland
Galactocele**

LESION RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)
LITTERS (b)	0/29 (0%)	2/29 (7%)
POLY-3 RATE (c)	0/41.88	2/42.49
POLY-3 PERCENT (g)	0%	4.7%
TERMINAL (d)	0/28 (0%)	0/32 (0%)
FIRST INCIDENCE	---	533

STATISTICAL TESTS

POLY 3	P=0.240
POLY 1.5	P=0.236
POLY 6	P=0.249
RAO-SCOTT	P=0.338
LITTER C-A/FISHERS	P=0.246

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

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

Date Report Requested: 08/15/2018
Time Report Requested: 09:40:08
First Dose M/F: 10/27/08 / 10/28/08
Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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**Mammary Gland
Hyperplasia**

LESION RATES

OVERALL (a)	15/50 (30%)	13/50 (26%)
LITTERS (b)	13/29 (45%)	11/29 (38%)
POLY-3 RATE (c)	15/43.44	13/42.13
POLY-3 PERCENT (g)	34.5%	30.9%
TERMINAL (d)	11/28 (39%)	11/32 (34%)
FIRST INCIDENCE	533	589

STATISTICAL TESTS

POLY 3	P=0.447N
POLY 1.5	P=0.445N
POLY 6	P=0.427N
RAO-SCOTT	P=0.450N
LITTER C-A/FISHERS	P=0.395N

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

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

Date Report Requested: 08/15/2018
Time Report Requested: 09:40:08
First Dose M/F: 10/27/08 / 10/28/08
Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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Ovary
Atrophy

LESION RATES

OVERALL (a)	32/49 (65%)	40/50 (80%)
LITTERS (b)	23/29 (79%)	25/29 (86%)
POLY-3 RATE (c)	32/46.19	40/46.78
POLY-3 PERCENT (g)	69.3%	85.5%
TERMINAL (d)	16/27 (59%)	27/32 (84%)
FIRST INCIDENCE	250	322

STATISTICAL TESTS

POLY 3	P=0.045*
POLY 1.5	P=0.046*
POLY 6	P=0.056
RAO-SCOTT	P=0.079
LITTER C-A/FISHERS	P=0.365

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 08/15/2018

Time Report Requested: 09:40:08

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

Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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Ovary
Cyst

LESION RATES

OVERALL (a)	20/49 (41%)	16/50 (32%)
LITTERS (b)	16/29 (55%)	14/29 (48%)
POLY-3 RATE (c)	20/44.11	16/45.00
POLY-3 PERCENT (g)	45.3%	35.6%
TERMINAL (d)	13/27 (48%)	8/32 (25%)
FIRST INCIDENCE	250	349

STATISTICAL TESTS

POLY 3	P=0.232N
POLY 1.5	P=0.252N
POLY 6	P=0.189N
RAO-SCOTT	P=0.250N
LITTER C-A/FISHERS	P=0.397N

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 08/15/2018

Time Report Requested: 09:40:08

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

Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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Pancreas: Acinus
Atrophy

LESION RATES

OVERALL (a)	3/50 (6%)	4/50 (8%)
LITTERS (b)	3/29 (10%)	4/29 (14%)
POLY-3 RATE (c)	3/41.88	4/41.44
POLY-3 PERCENT (g)	7.2%	9.7%
TERMINAL (d)	3/28 (11%)	4/32 (13%)
FIRST INCIDENCE	744 (T)	744 (T)

STATISTICAL TESTS

POLY 3	P=0.494
POLY 1.5	P=0.491
POLY 6	P=0.509
RAO-SCOTT	P=0.469
LITTER C-A/FISHERS	P=0.500

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

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

Date Report Requested: 08/15/2018
Time Report Requested: 09:40:08
First Dose M/F: 10/27/08 / 10/28/08
Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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**Pituitary Gland: Pars Distalis
Hyperplasia**

LESION RATES

OVERALL (a)	18/50 (36%)	26/50 (52%)
LITTERS (b)	16/29 (55%)	19/29 (66%)
POLY-3 RATE (c)	18/43.46	26/43.68
POLY-3 PERCENT (g)	41.4%	59.5%
TERMINAL (d)	14/28 (50%)	19/32 (59%)
FIRST INCIDENCE	470	533

STATISTICAL TESTS

POLY 3	P=0.064
POLY 1.5	P=0.061
POLY 6	P=0.084
RAO-SCOTT	P=0.074
LITTER C-A/FISHERS	P=0.296

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

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

Date Report Requested: 08/15/2018
Time Report Requested: 09:40:08
First Dose M/F: 10/27/08 / 10/28/08
Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
------	-----------	-------------

Spleen
Extramedullary Hematopoiesis

LESION RATES

OVERALL (a)	33/50 (66%)	36/50 (72%)
LITTERS (b)	25/29 (86%)	24/29 (83%)
POLY-3 RATE (c)	33/48.17	36/47.50
POLY-3 PERCENT (g)	68.5%	75.8%
TERMINAL (d)	18/28 (64%)	22/32 (69%)
FIRST INCIDENCE	250	322

STATISTICAL TESTS

POLY 3	P=0.283
POLY 1.5	P=0.280
POLY 6	P=0.321
RAO-SCOTT	P=0.310
LITTER C-A/FISHERS	P=0.500N

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

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

Date Report Requested: 08/15/2018
Time Report Requested: 09:40:08
First Dose M/F: 10/27/08 / 10/28/08
Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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Spleen
Pigment

LESION RATES

OVERALL (a)	21/50 (42%)	30/50 (60%)
LITTERS (b)	18/29 (62%)	23/29 (79%)
POLY-3 RATE (c)	21/43.48	30/45.80
POLY-3 PERCENT (g)	48.3%	65.5%
TERMINAL (d)	14/28 (50%)	22/32 (69%)
FIRST INCIDENCE	574	295

STATISTICAL TESTS

POLY 3	P=0.070
POLY 1.5	P=0.061
POLY 6	P=0.086
RAO-SCOTT	P=0.073
LITTER C-A/FISHERS	P=0.124

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 08/15/2018

Time Report Requested: 09:40:08

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

Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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**Spleen: Lymphoid Follicle
Atrophy**

LESION RATES

OVERALL (a)	9/50 (18%)	8/50 (16%)
LITTERS (b)	9/29 (31%)	7/29 (24%)
POLY-3 RATE (c)	9/43.05	8/44.37
POLY-3 PERCENT (g)	20.9%	18%
TERMINAL (d)	4/28 (14%)	3/32 (9%)
FIRST INCIDENCE	643	295

STATISTICAL TESTS

POLY 3	P=0.472N
POLY 1.5	P=0.487N
POLY 6	P=0.449N
RAO-SCOTT	P=0.467N
LITTER C-A/FISHERS	P=0.385N

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 08/15/2018

Time Report Requested: 09:40:08

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

Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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**Spleen: Lymphoid Follicle
Hyperplasia**

LESION RATES

OVERALL (a)	2/50 (4%)	2/50 (4%)
LITTERS (b)	2/29 (7%)	2/29 (7%)
POLY-3 RATE (c)	2/42.42	2/42.07
POLY-3 PERCENT (g)	4.7%	4.8%
TERMINAL (d)	1/28 (4%)	1/32 (3%)
FIRST INCIDENCE	574	533

STATISTICAL TESTS

POLY 3	P=0.691
POLY 1.5	P=0.689
POLY 6	P=0.688N
RAO-SCOTT	P=0.664
LITTER C-A/FISHERS	P=0.694

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

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

Date Report Requested: 08/15/2018
Time Report Requested: 09:40:08
First Dose M/F: 10/27/08 / 10/28/08
Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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Stomach, Forestomach
Ulcer

LESION RATES

OVERALL (a)	2/50 (4%)	1/50 (2%)
LITTERS (b)	2/29 (7%)	1/29 (3%)
POLY-3 RATE (c)	2/41.88	1/41.54
POLY-3 PERCENT (g)	4.8%	2.4%
TERMINAL (d)	2/28 (7%)	0/32 (0%)
FIRST INCIDENCE	744 (T)	718

STATISTICAL TESTS

POLY 3	P=0.503N
POLY 1.5	P=0.505N
POLY 6	P=0.492N
RAO-SCOTT	P=0.490N
LITTER C-A/FISHERS	P=0.500N

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 08/15/2018

Time Report Requested: 09:40:08

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

Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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**Stomach, Forestomach: Epithelium
Hyperplasia**

LESION RATES

OVERALL (a)	5/50 (10%)	3/50 (6%)
LITTERS (b)	5/29 (17%)	3/29 (10%)
POLY-3 RATE (c)	5/42.09	3/42.11
POLY-3 PERCENT (g)	11.9%	7.1%
TERMINAL (d)	4/28 (14%)	1/32 (3%)
FIRST INCIDENCE	687	564

STATISTICAL TESTS

POLY 3	P=0.355N
POLY 1.5	P=0.362N
POLY 6	P=0.337N
RAO-SCOTT	P=0.339N
LITTER C-A/FISHERS	P=0.353N

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 08/15/2018

Time Report Requested: 09:40:08

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

Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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Stomach, Forestomach: Submucosa
Inflammation Chronic

LESION RATES

OVERALL (a)	2/50 (4%)	2/50 (4%)
LITTERS (b)	2/29 (7%)	2/29 (7%)
POLY-3 RATE (c)	2/41.88	2/42.44
POLY-3 PERCENT (g)	4.8%	4.7%
TERMINAL (d)	2/28 (7%)	0/32 (0%)
FIRST INCIDENCE	744 (T)	351

STATISTICAL TESTS

POLY 3	P=0.690N
POLY 1.5	P=0.694
POLY 6	P=0.678N
RAO-SCOTT	P=0.662N
LITTER C-A/FISHERS	P=0.694

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 08/15/2018

Time Report Requested: 09:40:08

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

Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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Thymus
Atrophy

LESION RATES

OVERALL (a)	46/48 (96%)	45/50 (90%)
LITTERS (b)	28/28 (100%)	27/29 (93%)
POLY-3 RATE (c)	46/47.50	45/48.17
POLY-3 PERCENT (g)	96.9%	93.4%
TERMINAL (d)	27/28 (96%)	29/32 (91%)
FIRST INCIDENCE	250	322

STATISTICAL TESTS

POLY 3	P=0.377N
POLY 1.5	P=0.350N
POLY 6	P=0.356N
RAO-SCOTT	P=0.412N
LITTER C-A/FISHERS	P=0.254N

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 08/15/2018

Time Report Requested: 09:40:08

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

Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
-------------	------------------	--------------------

**Thyroid Gland: C-Cell
Hyperplasia**

LESION RATES

OVERALL (a)	4/50 (8%)	6/50 (12%)
LITTERS (b)	4/29 (14%)	6/29 (21%)
POLY-3 RATE (c)	4/41.90	6/41.44
POLY-3 PERCENT (g)	9.6%	14.5%
TERMINAL (d)	3/28 (11%)	6/32 (19%)
FIRST INCIDENCE	737	744 (T)

STATISTICAL TESTS

POLY 3	P=0.361
POLY 1.5	P=0.358
POLY 6	P=0.378
RAO-SCOTT	P=0.340
LITTER C-A/FISHERS	P=0.365

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

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

Date Report Requested: 08/15/2018
Time Report Requested: 09:40:08
First Dose M/F: 10/27/08 / 10/28/08
Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
------	-----------	-------------

Thyroid Gland: Follicular Cell
Hypertrophy

LESION RATES

OVERALL (a)	8/50 (16%)	9/50 (18%)
LITTERS (b)	6/29 (21%)	7/29 (24%)
POLY-3 RATE (c)	8/44.10	9/43.95
POLY-3 PERCENT (g)	18.1%	20.5%
TERMINAL (d)	2/28 (7%)	5/32 (16%)
FIRST INCIDENCE	470	349

STATISTICAL TESTS

POLY 3	P=0.497
POLY 1.5	P=0.493
POLY 6	P=0.512
RAO-SCOTT	P=0.519
LITTER C-A/FISHERS	P=0.500

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 08/15/2018

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

Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
------	-----------	-------------

Uterus
Dilation

LESION RATES

OVERALL (a)	3/49 (6%)	0/50 (0%)
LITTERS (b)	3/29 (10%)	0/29 (0%)
POLY-3 RATE (c)	3/41.23	0/41.44
POLY-3 PERCENT (g)	7.3%	0%
TERMINAL (d)	2/27 (7%)	0/32 (0%)
FIRST INCIDENCE	643	---

STATISTICAL TESTS

POLY 3	P=0.117N
POLY 1.5	P=0.118N
POLY 6	P=0.113N
RAO-SCOTT	P=0.188N
LITTER C-A/FISHERS	P=0.118N

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

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

Date Report Requested: 08/15/2018
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First Dose M/F: 10/27/08 / 10/28/08
Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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Uterus
Inflammation

LESION RATES

OVERALL (a)	1/49 (2%)	3/50 (6%)
LITTERS (b)	1/29 (3%)	3/29 (10%)
POLY-3 RATE (c)	1/41.23	3/41.54
POLY-3 PERCENT (g)	2.4%	7.2%
TERMINAL (d)	0/27 (0%)	2/32 (6%)
FIRST INCIDENCE	643	718

STATISTICAL TESTS

POLY 3	P=0.307
POLY 1.5	P=0.306
POLY 6	P=0.316
RAO-SCOTT	P=0.323
LITTER C-A/FISHERS	P=0.306

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 08/15/2018

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

Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
------	-----------	-------------

Uterus: Endometrium
Hyperplasia Cystic

LESION RATES

OVERALL (a)	22/49 (45%)	31/50 (62%)
LITTERS (b)	17/29 (59%)	22/29 (76%)
POLY-3 RATE (c)	22/43.15	31/45.18
POLY-3 PERCENT (g)	51%	68.6%
TERMINAL (d)	14/27 (52%)	22/32 (69%)
FIRST INCIDENCE	484	322

STATISTICAL TESTS

POLY 3	P=0.064
POLY 1.5	P=0.056
POLY 6	P=0.089
RAO-SCOTT	P=0.093
LITTER C-A/FISHERS	P=0.131

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 08/15/2018

Time Report Requested: 09:40:08

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

Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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**Uterus: Endometrium
Metaplasia**

LESION RATES

OVERALL (a)	17/49 (35%)	21/50 (42%)
LITTERS (b)	15/29 (52%)	16/29 (55%)
POLY-3 RATE (c)	17/43.75	21/43.55
POLY-3 PERCENT (g)	38.9%	48.2%
TERMINAL (d)	9/27 (33%)	17/32 (53%)
FIRST INCIDENCE	470	322

STATISTICAL TESTS

POLY 3	P=0.250
POLY 1.5	P=0.257
POLY 6	P=0.260
RAO-SCOTT	P=0.259
LITTER C-A/FISHERS	P=0.500

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

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

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 ***