

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: 07/25/2018
Time Report Requested: 17:34:26
First Dose M/F: 10/27/08 / 10/28/08
Lab: BAT

Custom Rpt (Litter-Based) -- 0-1000, 300-1000

NTP Study Number: C20614
Lock Date: 01/10/2012
Cage Range: ALL
Date Range: ALL
Reasons For Removal: 25021 TSAC 25020 NATD 25019 MSAC
25016 Aborted
Removal Date Range: ALL
Treatment Groups: Include 008 0/1000 ppm Include 010 300/1000 ppm
Study Gender: Both
TDMSE Version: 2.5.0.0_sfh
PWG Approval Date: 07/25/2018

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

FEMALE RATS

Organ

Kidney

Kidney: Papilla

Kidney: Renal Tubule

Ovary

Spleen: Lymphoid Follicle

Thyroid Gland: Follicular Cell

Morphology

Nephropathy Chronic Progressive

Necrosis

Mineral

Cyst

Atrophy

Hypertrophy

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

Females

DOSE	0/1000 ppm	300/1000 ppm
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Adrenal Cortex
Degeneration Cystic

LESION RATES

OVERALL (a)	9/49 (18%)	7/50 (14%)
LITTERS (b)	8/31 (26%)	6/30 (20%)
POLY-3 RATE (c)	9/37.36	7/38.97
POLY-3 PERCENT (g)	24.1%	18%
TERMINAL (d)	6/23 (26%)	3/23 (13%)
FIRST INCIDENCE	669	491

STATISTICAL TESTS

POLY 3	P=0.353N
POLY 1.5	P=0.350N
POLY 6	P=0.374N
RAO-SCOTT	P=0.350N
LITTER C-A/FISHERS	P=0.408N

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Females

DOSE	0/1000 ppm	300/1000 ppm
-------------	-------------------	---------------------

**Adrenal Cortex
Hypertrophy**

LESION RATES

OVERALL (a)	0/49 (0%)	3/50 (6%)
LITTERS (b)	0/31 (0%)	3/30 (10%)
POLY-3 RATE (c)	0/36.88	3/37.22
POLY-3 PERCENT (g)	0%	8.1%
TERMINAL (d)	0/23 (0%)	3/23 (13%)
FIRST INCIDENCE	---	744 (T)

STATISTICAL TESTS

POLY 3	P=0.119
POLY 1.5	P=0.123
POLY 6	P=0.110
RAO-SCOTT	P=0.170
LITTER C-A/FISHERS	P=0.113

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Females

DOSE	0/1000 ppm	300/1000 ppm
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Adrenal Cortex
Vacuolization Cytoplasmic

LESION RATES

OVERALL (a)	5/49 (10%)	4/50 (8%)
LITTERS (b)	5/31 (16%)	4/30 (13%)
POLY-3 RATE (c)	5/41.59	4/40.54
POLY-3 PERCENT (g)	12%	9.9%
TERMINAL (d)	0/23 (0%)	0/23 (0%)
FIRST INCIDENCE	225	183

STATISTICAL TESTS

POLY 3	P=0.516N
POLY 1.5	P=0.502N
POLY 6	P=0.540N
RAO-SCOTT	P=0.497N
LITTER C-A/FISHERS	P=0.522N

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TERMINAL SACRIFICE AT 107 WEEKS**

Females

DOSE	0/1000 ppm	300/1000 ppm
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Adrenal Medulla
Hyperplasia

LESION RATES

OVERALL (a)	12/49 (24%)	8/50 (16%)
LITTERS (b)	11/31 (35%)	8/30 (27%)
POLY-3 RATE (c)	12/37.55	8/38.01
POLY-3 PERCENT (g)	32%	21.1%
TERMINAL (d)	7/23 (30%)	6/23 (26%)
FIRST INCIDENCE	669	574

STATISTICAL TESTS

POLY 3	P=0.205N
POLY 1.5	P=0.195N
POLY 6	P=0.237N
RAO-SCOTT	P=0.199N
LITTER C-A/FISHERS	P=0.321N

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TERMINAL SACRIFICE AT 107 WEEKS**

Females

DOSE	0/1000 ppm	300/1000 ppm
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Bone Marrow
Atrophy

LESION RATES

OVERALL (a)	4/50 (8%)	1/50 (2%)
LITTERS (b)	4/31 (13%)	1/30 (3%)
POLY-3 RATE (c)	4/39.83	1/37.99
POLY-3 PERCENT (g)	10%	2.6%
TERMINAL (d)	0/23 (0%)	0/23 (0%)
FIRST INCIDENCE	66	457

STATISTICAL TESTS

POLY 3	P=0.192N
POLY 1.5	P=0.184N
POLY 6	P=0.206N
RAO-SCOTT	P=0.219N
LITTER C-A/FISHERS	P=0.187N

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TERMINAL SACRIFICE AT 107 WEEKS**

Females

DOSE	0/1000 ppm	300/1000 ppm
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**Bone Marrow
Hyperplasia**

LESION RATES

OVERALL (a)	29/50 (58%)	28/50 (56%)
LITTERS (b)	24/31 (77%)	21/30 (70%)
POLY-3 RATE (c)	29/44.23	28/43.00
POLY-3 PERCENT (g)	65.6%	65.1%
TERMINAL (d)	11/23 (48%)	12/23 (52%)
FIRST INCIDENCE	253	472

STATISTICAL TESTS

POLY 3	P=0.573N
POLY 1.5	P=0.516N
POLY 6	P=0.552
RAO-SCOTT	P=0.564N
LITTER C-A/FISHERS	P=0.357N

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TERMINAL SACRIFICE AT 107 WEEKS**

Females

DOSE	0/1000 ppm	300/1000 ppm
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Eye: Retina
Degeneration

LESION RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)
LITTERS (b)	1/31 (3%)	2/30 (7%)
POLY-3 RATE (c)	1/36.88	2/37.22
POLY-3 PERCENT (g)	2.7%	5.4%
TERMINAL (d)	1/23 (4%)	2/23 (9%)
FIRST INCIDENCE	744 (T)	744 (T)

STATISTICAL TESTS

POLY 3	P=0.503
POLY 1.5	P=0.510
POLY 6	P=0.487
RAO-SCOTT	P=0.471
LITTER C-A/FISHERS	P=0.487

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TERMINAL SACRIFICE AT 107 WEEKS**

Females

DOSE	0/1000 ppm	300/1000 ppm
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Heart
Cardiomyopathy

LESION RATES

OVERALL (a)	4/48 (8%)	4/50 (8%)
LITTERS (b)	4/31 (13%)	4/30 (13%)
POLY-3 RATE (c)	4/37.41	4/37.65
POLY-3 PERCENT (g)	10.7%	10.6%
TERMINAL (d)	2/23 (9%)	3/23 (13%)
FIRST INCIDENCE	484	617

STATISTICAL TESTS

POLY 3	P=0.642N
POLY 1.5	P=0.624N
POLY 6	P=0.618
RAO-SCOTT	P=0.609N
LITTER C-A/FISHERS	P=0.628

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TERMINAL SACRIFICE AT 107 WEEKS**

Females

DOSE	0/1000 ppm	300/1000 ppm
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Intestine Large, Colon
Parasite Metazoan

LESION RATES

OVERALL (a)	2/49 (4%)	7/50 (14%)
LITTERS (b)	2/31 (6%)	7/30 (23%)
POLY-3 RATE (c)	2/36.88	7/37.60
POLY-3 PERCENT (g)	5.4%	18.6%
TERMINAL (d)	2/23 (9%)	6/23 (26%)
FIRST INCIDENCE	744 (T)	634

STATISTICAL TESTS

POLY 3	P=0.079
POLY 1.5	P=0.085
POLY 6	P=0.069
RAO-SCOTT	P=0.082
LITTER C-A/FISHERS	P=0.066

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TERMINAL SACRIFICE AT 107 WEEKS**

Females

DOSE	0/1000 ppm	300/1000 ppm
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Kidney
Calculus Micro Observation Only

LESION RATES

OVERALL (a)	19/49 (39%)	16/50 (32%)
LITTERS (b)	16/31 (52%)	15/30 (50%)
POLY-3 RATE (c)	19/39.52	16/38.92
POLY-3 PERCENT (g)	48.1%	41.1%
TERMINAL (d)	10/23 (44%)	10/23 (44%)
FIRST INCIDENCE	351	574

STATISTICAL TESTS

POLY 3	P=0.344N
POLY 1.5	P=0.311N
POLY 6	P=0.409N
RAO-SCOTT	P=0.335N
LITTER C-A/FISHERS	P=0.552N

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TERMINAL SACRIFICE AT 107 WEEKS**

Females

DOSE	0/1000 ppm	300/1000 ppm
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**Kidney
Infarct**

LESION RATES

OVERALL (a)	5/49 (10%)	6/50 (12%)
LITTERS (b)	5/31 (16%)	6/30 (20%)
POLY-3 RATE (c)	5/37.25	6/38.74
POLY-3 PERCENT (g)	13.4%	15.5%
TERMINAL (d)	2/23 (9%)	3/23 (13%)
FIRST INCIDENCE	695	391

STATISTICAL TESTS

POLY 3	P=0.528
POLY 1.5	P=0.534
POLY 6	P=0.504
RAO-SCOTT	P=0.501
LITTER C-A/FISHERS	P=0.476

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TERMINAL SACRIFICE AT 107 WEEKS**

Females

DOSE	0/1000 ppm	300/1000 ppm
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Kidney
Nephropathy Chronic Progressive

LESION RATES

OVERALL (a)	37/49 (76%)	46/50 (92%)
LITTERS (b)	26/31 (84%)	30/30 (100%)
POLY-3 RATE (c)	37/44.59	46/47.82
POLY-3 PERCENT (g)	83%	96.2%
TERMINAL (d)	19/23 (83%)	23/23 (100%)
FIRST INCIDENCE	253	391

STATISTICAL TESTS

POLY 3	P=0.027*
POLY 1.5	P=0.023*
POLY 6	P=0.028*
RAO-SCOTT	P=0.049*
LITTER C-A/FISHERS	P=0.029*

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TERMINAL SACRIFICE AT 107 WEEKS**

Females

DOSE	0/1000 ppm	300/1000 ppm
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**Kidney: Papilla
Necrosis**

LESION RATES

OVERALL (a)	12/49 (24%)	22/50 (44%)
LITTERS (b)	9/31 (29%)	16/30 (53%)
POLY-3 RATE (c)	12/41.44	22/45.08
POLY-3 PERCENT (g)	29%	48.8%
TERMINAL (d)	6/23 (26%)	8/23 (35%)
FIRST INCIDENCE	253	183

STATISTICAL TESTS

POLY 3	P=0.043*
POLY 1.5	P=0.040*
POLY 6	P=0.046*
RAO-SCOTT	P=0.083
LITTER C-A/FISHERS	P=0.047*

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TERMINAL SACRIFICE AT 107 WEEKS**

Females

DOSE	0/1000 ppm	300/1000 ppm
-------------	-------------------	---------------------

**Kidney: Papilla, Urothelium
Hyperplasia**

LESION RATES

OVERALL (a)	40/49 (82%)	45/50 (90%)
LITTERS (b)	28/31 (90%)	28/30 (93%)
POLY-3 RATE (c)	40/44.56	45/47.35
POLY-3 PERCENT (g)	89.8%	95%
TERMINAL (d)	23/23 (100%)	23/23 (100%)
FIRST INCIDENCE	225	391

STATISTICAL TESTS

POLY 3	P=0.259
POLY 1.5	P=0.218
POLY 6	P=0.278
RAO-SCOTT	P=0.282
LITTER C-A/FISHERS	P=0.516

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TERMINAL SACRIFICE AT 107 WEEKS**

Females

DOSE	0/1000 ppm	300/1000 ppm
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**Kidney: Pelvis
Dilation**

LESION RATES

OVERALL (a)	2/49 (4%)	1/50 (2%)
LITTERS (b)	2/31 (6%)	1/30 (3%)
POLY-3 RATE (c)	2/37.58	1/37.22
POLY-3 PERCENT (g)	5.3%	2.7%
TERMINAL (d)	0/23 (0%)	1/23 (4%)
FIRST INCIDENCE	505	744 (T)

STATISTICAL TESTS

POLY 3	P=0.503N
POLY 1.5	P=0.494N
POLY 6	P=0.522N
RAO-SCOTT	P=0.469N
LITTER C-A/FISHERS	P=0.513N

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TERMINAL SACRIFICE AT 107 WEEKS**

Females

DOSE	0/1000 ppm	300/1000 ppm
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Kidney: Pelvis
Inflammation Chronic

LESION RATES

OVERALL (a)	4/49 (8%)	2/50 (4%)
LITTERS (b)	4/31 (13%)	2/30 (7%)
POLY-3 RATE (c)	4/36.88	2/37.47
POLY-3 PERCENT (g)	10.9%	5.3%
TERMINAL (d)	4/23 (17%)	1/23 (4%)
FIRST INCIDENCE	744 (T)	676

STATISTICAL TESTS

POLY 3	P=0.328N
POLY 1.5	P=0.321N
POLY 6	P=0.345N
RAO-SCOTT	P=0.318N
LITTER C-A/FISHERS	P=0.352N

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TERMINAL SACRIFICE AT 107 WEEKS**

Females

DOSE	0/1000 ppm	300/1000 ppm
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**Kidney: Renal Tubule
Mineral**

LESION RATES

OVERALL (a)	16/49 (33%)	8/50 (16%)
LITTERS (b)	15/31 (48%)	7/30 (23%)
POLY-3 RATE (c)	16/40.12	8/39.78
POLY-3 PERCENT (g)	39.9%	20.1%
TERMINAL (d)	9/23 (39%)	3/23 (13%)
FIRST INCIDENCE	253	440

STATISTICAL TESTS

POLY 3	P=0.042N*
POLY 1.5	P=0.039N*
POLY 6	P=0.049N*
RAO-SCOTT	P=0.042N*
LITTER C-A/FISHERS	P=0.038N*

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TERMINAL SACRIFICE AT 107 WEEKS**

Females

DOSE	0/1000 ppm	300/1000 ppm
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Liver
Basophilic Focus

LESION RATES

OVERALL (a)	6/49 (12%)	6/50 (12%)
LITTERS (b)	6/31 (19%)	6/30 (20%)
POLY-3 RATE (c)	6/38.39	6/38.04
POLY-3 PERCENT (g)	15.6%	15.8%
TERMINAL (d)	3/23 (13%)	3/23 (13%)
FIRST INCIDENCE	484	624

STATISTICAL TESTS

POLY 3	P=0.617
POLY 1.5	P=0.611N
POLY 6	P=0.586
RAO-SCOTT	P=0.589
LITTER C-A/FISHERS	P=0.601

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

Females

DOSE	0/1000 ppm	300/1000 ppm
-------------	-------------------	---------------------

Liver

Clear Cell Focus

LESION RATES

OVERALL (a)	8/49 (16%)	5/50 (10%)
LITTERS (b)	8/31 (26%)	5/30 (17%)
POLY-3 RATE (c)	8/36.88	5/37.63
POLY-3 PERCENT (g)	21.7%	13.3%
TERMINAL (d)	8/23 (35%)	4/23 (17%)
FIRST INCIDENCE	744 (T)	624

STATISTICAL TESTS

POLY 3	P=0.256N
POLY 1.5	P=0.250N
POLY 6	P=0.277N
RAO-SCOTT	P=0.238N
LITTER C-A/FISHERS	P=0.289N

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: 07/25/2018

Time Report Requested: 17:34:26

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	0/1000 ppm	300/1000 ppm
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Liver
Eosinophilic Focus

LESION RATES

OVERALL (a)	6/49 (12%)	2/50 (4%)
LITTERS (b)	5/31 (16%)	2/30 (7%)
POLY-3 RATE (c)	6/36.88	2/37.72
POLY-3 PERCENT (g)	16.3%	5.3%
TERMINAL (d)	6/23 (26%)	1/23 (4%)
FIRST INCIDENCE	744 (T)	589

STATISTICAL TESTS

POLY 3	P=0.122N
POLY 1.5	P=0.119N
POLY 6	P=0.131N
RAO-SCOTT	P=0.173N
LITTER C-A/FISHERS	P=0.226N

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: 07/25/2018

Time Report Requested: 17:34:26

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	0/1000 ppm	300/1000 ppm
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Liver
Extramedullary Hematopoiesis

LESION RATES

OVERALL (a)	2/49 (4%)	1/50 (2%)
LITTERS (b)	2/31 (6%)	1/30 (3%)
POLY-3 RATE (c)	2/37.84	1/37.76
POLY-3 PERCENT (g)	5.3%	2.7%
TERMINAL (d)	0/23 (0%)	0/23 (0%)
FIRST INCIDENCE	505	574

STATISTICAL TESTS

POLY 3	P=0.501N
POLY 1.5	P=0.492N
POLY 6	P=0.518N
RAO-SCOTT	P=0.470N
LITTER C-A/FISHERS	P=0.513N

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: 07/25/2018

Time Report Requested: 17:34:26

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	0/1000 ppm	300/1000 ppm
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Liver
Inflammation Focal

LESION RATES

OVERALL (a)	7/49 (14%)	6/50 (12%)
LITTERS (b)	7/31 (23%)	6/30 (20%)
POLY-3 RATE (c)	7/37.57	6/38.02
POLY-3 PERCENT (g)	18.6%	15.8%
TERMINAL (d)	6/23 (26%)	4/23 (17%)
FIRST INCIDENCE	505	617

STATISTICAL TESTS

POLY 3	P=0.490N
POLY 1.5	P=0.477N
POLY 6	P=0.519N
RAO-SCOTT	P=0.462N
LITTER C-A/FISHERS	P=0.527N

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: 07/25/2018

Time Report Requested: 17:34:26

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	0/1000 ppm	300/1000 ppm
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Liver
Necrosis

LESION RATES

OVERALL (a)	8/49 (16%)	5/50 (10%)
LITTERS (b)	7/31 (23%)	5/30 (17%)
POLY-3 RATE (c)	8/39.94	5/39.87
POLY-3 PERCENT (g)	20%	12.5%
TERMINAL (d)	1/23 (4%)	1/23 (4%)
FIRST INCIDENCE	253	393

STATISTICAL TESTS

POLY 3	P=0.273N
POLY 1.5	P=0.261N
POLY 6	P=0.301N
RAO-SCOTT	P=0.282N
LITTER C-A/FISHERS	P=0.399N

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: 07/25/2018

Time Report Requested: 17:34:26

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	0/1000 ppm	300/1000 ppm
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Liver
Pigment

LESION RATES

OVERALL (a)	43/49 (88%)	40/50 (80%)
LITTERS (b)	28/31 (90%)	28/30 (93%)
POLY-3 RATE (c)	43/45.87	40/45.22
POLY-3 PERCENT (g)	93.7%	88.5%
TERMINAL (d)	22/23 (96%)	23/23 (100%)
FIRST INCIDENCE	253	391

STATISTICAL TESTS

POLY 3	P=0.269N
POLY 1.5	P=0.234N
POLY 6	P=0.372N
RAO-SCOTT	P=0.293N
LITTER C-A/FISHERS	P=0.516

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: 07/25/2018

Time Report Requested: 17:34:26

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	0/1000 ppm	300/1000 ppm
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Liver: Bile Duct
Cyst

LESION RATES

OVERALL (a)	2/49 (4%)	5/50 (10%)
LITTERS (b)	2/31 (6%)	5/30 (17%)
POLY-3 RATE (c)	2/36.88	5/38.55
POLY-3 PERCENT (g)	5.4%	13%
TERMINAL (d)	2/23 (9%)	3/23 (13%)
FIRST INCIDENCE	744 (T)	440

STATISTICAL TESTS

POLY 3	P=0.232
POLY 1.5	P=0.235
POLY 6	P=0.218
RAO-SCOTT	P=0.223
LITTER C-A/FISHERS	P=0.199

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: 07/25/2018

Time Report Requested: 17:34:26

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	0/1000 ppm	300/1000 ppm
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Liver: Bile Duct
Hyperplasia

LESION RATES

OVERALL (a)	22/49 (45%)	27/50 (54%)
LITTERS (b)	17/31 (55%)	22/30 (73%)
POLY-3 RATE (c)	22/38.32	27/40.28
POLY-3 PERCENT (g)	57.4%	67%
TERMINAL (d)	16/23 (70%)	20/23 (87%)
FIRST INCIDENCE	438	454

STATISTICAL TESTS

POLY 3	P=0.245
POLY 1.5	P=0.261
POLY 6	P=0.195
RAO-SCOTT	P=0.252
LITTER C-A/FISHERS	P=0.108

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: 07/25/2018
Time Report Requested: 17:34:26
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	0/1000 ppm	300/1000 ppm
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Liver: Centrilobular
Necrosis

LESION RATES

OVERALL (a)	3/49 (6%)	3/50 (6%)
LITTERS (b)	3/31 (10%)	3/30 (10%)
POLY-3 RATE (c)	3/37.53	3/38.17
POLY-3 PERCENT (g)	8%	7.9%
TERMINAL (d)	1/23 (4%)	1/23 (4%)
FIRST INCIDENCE	575	472

STATISTICAL TESTS

POLY 3	P=0.656N
POLY 1.5	P=0.647N
POLY 6	P=0.652
RAO-SCOTT	P=0.619N
LITTER C-A/FISHERS	P=0.648

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: 07/25/2018
Time Report Requested: 17:34:26
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	0/1000 ppm	300/1000 ppm
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Liver: Hepatocyte
Cytoplasmic Alteration

LESION RATES

OVERALL (a)	49/49 (100%)	49/50 (98%)
LITTERS (b)	31/31 (100%)	30/30 (100%)
POLY-3 RATE (c)	49/49.00	49/49.74
POLY-3 PERCENT (g)	100%	98.5%
TERMINAL (d)	23/23 (100%)	23/23 (100%)
FIRST INCIDENCE	225	183

STATISTICAL TESTS

POLY 3	P=0.640N
POLY 1.5	P=0.568N
POLY 6	P=0.796N
RAO-SCOTT	P=0.701N
LITTER C-A/FISHERS	P=1.000

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: 07/25/2018

Time Report Requested: 17:34:26

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	0/1000 ppm	300/1000 ppm
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Liver: Hepatocyte
Hypertrophy

LESION RATES

OVERALL (a)	48/49 (98%)	49/50 (98%)
LITTERS (b)	31/31 (100%)	30/30 (100%)
POLY-3 RATE (c)	48/48.82	49/49.74
POLY-3 PERCENT (g)	98.3%	98.5%
TERMINAL (d)	23/23 (100%)	23/23 (100%)
FIRST INCIDENCE	225	183

STATISTICAL TESTS

POLY 3	P=0.795
POLY 1.5	P=0.774
POLY 6	P=0.843
RAO-SCOTT	P=0.768
LITTER C-A/FISHERS	P=1.000

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: 07/25/2018

Time Report Requested: 17:34:26

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	0/1000 ppm	300/1000 ppm
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Liver: Hepatocyte
Increased mitoses

LESION RATES

OVERALL (a)	4/49 (8%)	10/50 (20%)
LITTERS (b)	4/31 (13%)	9/30 (30%)
POLY-3 RATE (c)	4/38.87	10/38.98
POLY-3 PERCENT (g)	10.3%	25.7%
TERMINAL (d)	1/23 (4%)	5/23 (22%)
FIRST INCIDENCE	484	574

STATISTICAL TESTS

POLY 3	P=0.068
POLY 1.5	P=0.075
POLY 6	P=0.057
RAO-SCOTT	P=0.085
LITTER C-A/FISHERS	P=0.093

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: 07/25/2018

Time Report Requested: 17:34:26

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	0/1000 ppm	300/1000 ppm
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Liver: Hepatocyte
Single Cell Death

LESION RATES

OVERALL (a)	29/49 (59%)	32/50 (64%)
LITTERS (b)	22/31 (71%)	24/30 (80%)
POLY-3 RATE (c)	29/46.95	32/45.31
POLY-3 PERCENT (g)	61.8%	70.6%
TERMINAL (d)	11/23 (48%)	13/23 (57%)
FIRST INCIDENCE	225	393

STATISTICAL TESTS

POLY 3	P=0.244
POLY 1.5	P=0.282
POLY 6	P=0.218
RAO-SCOTT	P=0.250
LITTER C-A/FISHERS	P=0.302

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: 07/25/2018

Time Report Requested: 17:34:26

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	0/1000 ppm	300/1000 ppm
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Liver: Oval Cell
Hyperplasia

LESION RATES

OVERALL (a)	2/49 (4%)	3/50 (6%)
LITTERS (b)	2/31 (6%)	2/30 (7%)
POLY-3 RATE (c)	2/36.89	3/37.48
POLY-3 PERCENT (g)	5.4%	8%
TERMINAL (d)	1/23 (4%)	2/23 (9%)
FIRST INCIDENCE	741	673

STATISTICAL TESTS

POLY 3	P=0.507
POLY 1.5	P=0.515
POLY 6	P=0.489
RAO-SCOTT	P=0.525
LITTER C-A/FISHERS	P=0.681

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: 07/25/2018
Time Report Requested: 17:34:26
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	0/1000 ppm	300/1000 ppm
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Lung
Inflammation Chronic

LESION RATES

OVERALL (a)	7/48 (15%)	7/50 (14%)
LITTERS (b)	6/31 (19%)	7/30 (23%)
POLY-3 RATE (c)	7/36.42	7/37.90
POLY-3 PERCENT (g)	19.2%	18.5%
TERMINAL (d)	7/23 (30%)	6/23 (26%)
FIRST INCIDENCE	744 (T)	508

STATISTICAL TESTS

POLY 3	P=0.585N
POLY 1.5	P=0.571N
POLY 6	P=0.617
RAO-SCOTT	P=0.564N
LITTER C-A/FISHERS	P=0.473

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: 07/25/2018

Time Report Requested: 17:34:26

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	0/1000 ppm	300/1000 ppm
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**Lung
Inflammation Granulomatous Focal**

LESION RATES

OVERALL (a)	3/48 (6%)	5/50 (10%)
LITTERS (b)	3/31 (10%)	5/30 (17%)
POLY-3 RATE (c)	3/36.55	5/38.42
POLY-3 PERCENT (g)	8.2%	13%
TERMINAL (d)	1/23 (4%)	1/23 (4%)
FIRST INCIDENCE	718	589

STATISTICAL TESTS

POLY 3	P=0.383
POLY 1.5	P=0.389
POLY 6	P=0.366
RAO-SCOTT	P=0.353
LITTER C-A/FISHERS	P=0.335

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: 07/25/2018

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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	0/1000 ppm	300/1000 ppm
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Lung: Alveolus
Infiltration Cellular Histiocyte

LESION RATES

OVERALL (a)	40/48 (83%)	42/50 (84%)
LITTERS (b)	27/31 (87%)	28/30 (93%)
POLY-3 RATE (c)	40/44.22	42/44.74
POLY-3 PERCENT (g)	90.5%	93.9%
TERMINAL (d)	20/23 (87%)	22/23 (96%)
FIRST INCIDENCE	253	454

STATISTICAL TESTS

POLY 3	P=0.412
POLY 1.5	P=0.516
POLY 6	P=0.296
RAO-SCOTT	P=0.424
LITTER C-A/FISHERS	P=0.352

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: 07/25/2018
Time Report Requested: 17:34:26
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	0/1000 ppm	300/1000 ppm
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Lymph Node, Mandibular
Atrophy Lymphoid

LESION RATES

OVERALL (a)	8/45 (18%)	10/48 (21%)
LITTERS (b)	7/30 (23%)	9/30 (30%)
POLY-3 RATE (c)	8/38.46	10/42.12
POLY-3 PERCENT (g)	20.8%	23.7%
TERMINAL (d)	1/22 (5%)	1/23 (4%)
FIRST INCIDENCE	225	391

STATISTICAL TESTS

POLY 3	P=0.480
POLY 1.5	P=0.481
POLY 6	P=0.462
RAO-SCOTT	P=0.478
LITTER C-A/FISHERS	P=0.386

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: 07/25/2018
Time Report Requested: 17:34:26
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	0/1000 ppm	300/1000 ppm
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Lymph Node, Mesenteric
Atrophy Lymphoid

LESION RATES

OVERALL (a)	8/48 (17%)	10/48 (21%)
LITTERS (b)	8/31 (26%)	10/30 (33%)
POLY-3 RATE (c)	8/41.09	10/42.59
POLY-3 PERCENT (g)	19.5%	23.5%
TERMINAL (d)	1/23 (4%)	0/23 (0%)
FIRST INCIDENCE	225	393

STATISTICAL TESTS

POLY 3	P=0.429
POLY 1.5	P=0.425
POLY 6	P=0.419
RAO-SCOTT	P=0.415
LITTER C-A/FISHERS	P=0.358

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: 07/25/2018

Time Report Requested: 17:34:26

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	0/1000 ppm	300/1000 ppm
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**Mammary Gland
Hyperplasia**

LESION RATES

OVERALL (a)	19/48 (40%)	15/50 (30%)
LITTERS (b)	17/31 (55%)	13/30 (43%)
POLY-3 RATE (c)	19/37.79	15/39.08
POLY-3 PERCENT (g)	50.3%	38.4%
TERMINAL (d)	14/23 (61%)	8/23 (35%)
FIRST INCIDENCE	351	589

STATISTICAL TESTS

POLY 3	P=0.199N
POLY 1.5	P=0.194N
POLY 6	P=0.218N
RAO-SCOTT	P=0.192N
LITTER C-A/FISHERS	P=0.260N

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: 07/25/2018
Time Report Requested: 17:34:26
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	0/1000 ppm	300/1000 ppm
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Mesentery
Hemorrhage

LESION RATES

OVERALL (a)	2/2 (100%)	0/0 (0%)
LITTERS (b)	2/2 (100%)	0/0 (0%)
POLY-3 RATE (c)	2/2.00	0/0.00
POLY-3 PERCENT (g)	100%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	695	---

STATISTICAL TESTS

POLY 3	(e)
POLY 1.5	(e)
POLY 6	(e)
RAO-SCOTT	(e)
LITTER C-A/FISHERS	(e)

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: 07/25/2018

Time Report Requested: 17:34:26

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	0/1000 ppm	300/1000 ppm
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Nose
Inflammation

LESION RATES

OVERALL (a)	0/50 (0%)	3/50 (6%)
LITTERS (b)	0/31 (0%)	3/30 (10%)
POLY-3 RATE (c)	0/36.88	3/37.90
POLY-3 PERCENT (g)	0%	7.9%
TERMINAL (d)	0/23 (0%)	1/23 (4%)
FIRST INCIDENCE	---	617

STATISTICAL TESTS

POLY 3	P=0.122
POLY 1.5	P=0.125
POLY 6	P=0.116
RAO-SCOTT	P=0.174
LITTER C-A/FISHERS	P=0.113

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: 07/25/2018
Time Report Requested: 17:34:26
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	0/1000 ppm	300/1000 ppm
<hr/>		
Ovary Atrophy		
<hr/>		
LESION RATES		
OVERALL (a)	28/49 (57%)	31/50 (62%)
LITTERS (b)	20/31 (65%)	23/30 (77%)
POLY-3 RATE (c)	28/41.92	31/44.78
POLY-3 PERCENT (g)	66.8%	69.2%
TERMINAL (d)	13/23 (57%)	16/23 (70%)
FIRST INCIDENCE	351	391
<hr/>		
STATISTICAL TESTS		
POLY 3		P=0.495
POLY 1.5		P=0.477
POLY 6		P=0.471
RAO-SCOTT		P=0.488
LITTER C-A/FISHERS		P=0.224

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: 07/25/2018

Time Report Requested: 17:34:26

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	0/1000 ppm	300/1000 ppm
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Ovary
Cyst

LESION RATES

OVERALL (a)	16/49 (33%)	23/50 (46%)
LITTERS (b)	13/31 (42%)	20/30 (67%)
POLY-3 RATE (c)	16/39.53	23/41.78
POLY-3 PERCENT (g)	40.5%	55.1%
TERMINAL (d)	11/23 (48%)	12/23 (52%)
FIRST INCIDENCE	351	457

STATISTICAL TESTS

POLY 3	P=0.130
POLY 1.5	P=0.134
POLY 6	P=0.118
RAO-SCOTT	P=0.137
LITTER C-A/FISHERS	P=0.046*

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: 07/25/2018
Time Report Requested: 17:34:26
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	0/1000 ppm	300/1000 ppm
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Pancreas: Acinus
Atrophy

LESION RATES

OVERALL (a)	2/49 (4%)	1/50 (2%)
LITTERS (b)	2/31 (6%)	1/30 (3%)
POLY-3 RATE (c)	2/37.68	1/37.22
POLY-3 PERCENT (g)	5.3%	2.7%
TERMINAL (d)	0/23 (0%)	1/23 (4%)
FIRST INCIDENCE	540	744 (T)

STATISTICAL TESTS

POLY 3	P=0.504N
POLY 1.5	P=0.494N
POLY 6	P=0.525N
RAO-SCOTT	P=0.478N
LITTER C-A/FISHERS	P=0.513N

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: 07/25/2018
Time Report Requested: 17:34:26
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	0/1000 ppm	300/1000 ppm
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Pituitary Gland: Pars Distalis
Hyperplasia

LESION RATES

OVERALL (a)	13/49 (27%)	7/50 (14%)
LITTERS (b)	11/31 (35%)	6/30 (20%)
POLY-3 RATE (c)	13/37.32	7/37.94
POLY-3 PERCENT (g)	34.8%	18.5%
TERMINAL (d)	11/23 (48%)	5/23 (22%)
FIRST INCIDENCE	652	634

STATISTICAL TESTS

POLY 3	P=0.084N
POLY 1.5	P=0.082N
POLY 6	P=0.096N
RAO-SCOTT	P=0.098N
LITTER C-A/FISHERS	P=0.144N

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: 07/25/2018
Time Report Requested: 17:34:26
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	0/1000 ppm	300/1000 ppm
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Spleen
Extramedullary Hematopoiesis

LESION RATES

OVERALL (a)	29/49 (59%)	28/50 (56%)
LITTERS (b)	24/31 (77%)	22/30 (73%)
POLY-3 RATE (c)	29/42.59	28/41.15
POLY-3 PERCENT (g)	68.1%	68.1%
TERMINAL (d)	15/23 (65%)	16/23 (70%)
FIRST INCIDENCE	253	472

STATISTICAL TESTS

POLY 3	P=0.595N
POLY 1.5	P=0.517N
POLY 6	P=0.498
RAO-SCOTT	P=0.577N
LITTER C-A/FISHERS	P=0.471N

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: 07/25/2018
Time Report Requested: 17:34:26
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	0/1000 ppm	300/1000 ppm
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Spleen
Pigment

LESION RATES

OVERALL (a)	25/49 (51%)	31/50 (62%)
LITTERS (b)	21/31 (68%)	23/30 (77%)
POLY-3 RATE (c)	25/44.33	31/45.74
POLY-3 PERCENT (g)	56.4%	67.8%
TERMINAL (d)	10/23 (44%)	15/23 (65%)
FIRST INCIDENCE	225	183

STATISTICAL TESTS

POLY 3	P=0.177
POLY 1.5	P=0.183
POLY 6	P=0.160
RAO-SCOTT	P=0.185
LITTER C-A/FISHERS	P=0.312

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: 07/25/2018

Time Report Requested: 17:34:26

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	0/1000 ppm	300/1000 ppm
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Spleen: Lymphoid Follicle
Atrophy

LESION RATES

OVERALL (a)	13/49 (27%)	20/50 (40%)
LITTERS (b)	11/31 (35%)	18/30 (60%)
POLY-3 RATE (c)	13/42.31	20/46.67
POLY-3 PERCENT (g)	30.7%	42.9%
TERMINAL (d)	1/23 (4%)	3/23 (13%)
FIRST INCIDENCE	225	183

STATISTICAL TESTS

POLY 3	P=0.165
POLY 1.5	P=0.150
POLY 6	P=0.172
RAO-SCOTT	P=0.175
LITTER C-A/FISHERS	P=0.048*

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: 07/25/2018

Time Report Requested: 17:34:26

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	0/1000 ppm	300/1000 ppm
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Stomach, Forestomach
Ulcer

LESION RATES

OVERALL (a)	9/49 (18%)	11/50 (22%)
LITTERS (b)	9/31 (29%)	9/30 (30%)
POLY-3 RATE (c)	9/38.49	11/41.35
POLY-3 PERCENT (g)	23.4%	26.6%
TERMINAL (d)	2/23 (9%)	2/23 (9%)
FIRST INCIDENCE	522	393

STATISTICAL TESTS

POLY 3	P=0.471
POLY 1.5	P=0.466
POLY 6	P=0.455
RAO-SCOTT	P=0.461
LITTER C-A/FISHERS	P=0.578

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: 07/25/2018

Time Report Requested: 17:34:26

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	0/1000 ppm	300/1000 ppm
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Stomach, Forestomach: Epithelium
Hyperplasia

LESION RATES

OVERALL (a)	22/49 (45%)	21/50 (42%)
LITTERS (b)	21/31 (68%)	17/30 (57%)
POLY-3 RATE (c)	22/42.89	21/43.93
POLY-3 PERCENT (g)	51.3%	47.8%
TERMINAL (d)	7/23 (30%)	5/23 (22%)
FIRST INCIDENCE	225	393

STATISTICAL TESTS

POLY 3	P=0.456N
POLY 1.5	P=0.460N
POLY 6	P=0.456N
RAO-SCOTT	P=0.449N
LITTER C-A/FISHERS	P=0.265N

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: 07/25/2018

Time Report Requested: 17:34:26

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	0/1000 ppm	300/1000 ppm
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**Stomach, Forestomach: Submucosa
Inflammation Chronic**

LESION RATES

OVERALL (a)	16/49 (33%)	18/50 (36%)
LITTERS (b)	16/31 (52%)	15/30 (50%)
POLY-3 RATE (c)	16/40.91	18/43.38
POLY-3 PERCENT (g)	39.1%	41.5%
TERMINAL (d)	4/23 (17%)	5/23 (22%)
FIRST INCIDENCE	284	393

STATISTICAL TESTS

POLY 3	P=0.500
POLY 1.5	P=0.491
POLY 6	P=0.488
RAO-SCOTT	P=0.490
LITTER C-A/FISHERS	P=0.552N

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: 07/25/2018
Time Report Requested: 17:34:26
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	0/1000 ppm	300/1000 ppm
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Stomach, Glandular: Mucosa
Mineral

LESION RATES

OVERALL (a)	2/49 (4%)	2/50 (4%)
LITTERS (b)	2/31 (6%)	2/30 (7%)
POLY-3 RATE (c)	2/38.54	2/39.00
POLY-3 PERCENT (g)	5.2%	5.1%
TERMINAL (d)	0/23 (0%)	0/23 (0%)
FIRST INCIDENCE	379	183

STATISTICAL TESTS

POLY 3	P=0.691N
POLY 1.5	P=0.682N
POLY 6	P=0.683
RAO-SCOTT	P=0.652N
LITTER C-A/FISHERS	P=0.681

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: 07/25/2018
Time Report Requested: 17:34:26
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	0/1000 ppm	300/1000 ppm
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Stomach, Glandular: Submucosa
Inflammation Chronic

LESION RATES

OVERALL (a)	0/49 (0%)	2/50 (4%)
LITTERS (b)	0/31 (0%)	2/30 (7%)
POLY-3 RATE (c)	0/36.88	2/37.63
POLY-3 PERCENT (g)	0%	5.3%
TERMINAL (d)	0/23 (0%)	1/23 (4%)
FIRST INCIDENCE	---	624

STATISTICAL TESTS

POLY 3	P=0.241
POLY 1.5	P=0.244
POLY 6	P=0.232
RAO-SCOTT	P=0.294
LITTER C-A/FISHERS	P=0.238

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: 07/25/2018

Time Report Requested: 17:34:26

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	0/1000 ppm	300/1000 ppm
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Thymus
Atrophy

LESION RATES

OVERALL (a)	46/47 (98%)	46/47 (98%)
LITTERS (b)	31/31 (100%)	29/29 (100%)
POLY-3 RATE (c)	46/47.00	46/46.29
POLY-3 PERCENT (g)	97.9%	99.4%
TERMINAL (d)	22/23 (96%)	21/21 (100%)
FIRST INCIDENCE	225	391

STATISTICAL TESTS

POLY 3	P=0.612
POLY 1.5	P=0.684
POLY 6	P=0.537
RAO-SCOTT	P=0.669
LITTER C-A/FISHERS	P=1.000

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: 07/25/2018
Time Report Requested: 17:34:26
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	0/1000 ppm	300/1000 ppm
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Thyroid Gland: C-Cell
Hyperplasia

LESION RATES

OVERALL (a)	7/48 (15%)	11/50 (22%)
LITTERS (b)	6/31 (19%)	10/30 (33%)
POLY-3 RATE (c)	7/36.51	11/37.22
POLY-3 PERCENT (g)	19.2%	29.6%
TERMINAL (d)	6/23 (26%)	11/23 (48%)
FIRST INCIDENCE	721	744 (T)

STATISTICAL TESTS

POLY 3	P=0.219
POLY 1.5	P=0.242
POLY 6	P=0.175
RAO-SCOTT	P=0.226
LITTER C-A/FISHERS	P=0.171

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: 07/25/2018
Time Report Requested: 17:34:26
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	0/1000 ppm	300/1000 ppm
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Thyroid Gland: Follicular Cell
Hypertrophy

LESION RATES

OVERALL (a)	28/48 (58%)	19/50 (38%)
LITTERS (b)	24/31 (77%)	17/30 (57%)
POLY-3 RATE (c)	28/44.04	19/42.13
POLY-3 PERCENT (g)	63.6%	45.1%
TERMINAL (d)	15/23 (65%)	9/23 (39%)
FIRST INCIDENCE	225	391

STATISTICAL TESTS

POLY 3	P=0.058N
POLY 1.5	P=0.047N*
POLY 6	P=0.079N
RAO-SCOTT	P=0.063N
LITTER C-A/FISHERS	P=0.073N

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: 07/25/2018
Time Report Requested: 17:34:26
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	0/1000 ppm	300/1000 ppm
Urinary Bladder Inflammation		
LESION RATES		
OVERALL (a)	4/48 (8%)	1/50 (2%)
LITTERS (b)	4/31 (13%)	1/30 (3%)
POLY-3 RATE (c)	4/36.76	1/37.22
POLY-3 PERCENT (g)	10.9%	2.7%
TERMINAL (d)	3/23 (13%)	1/23 (4%)
FIRST INCIDENCE	438	744 (T)
STATISTICAL TESTS		
POLY 3		P=0.172N
POLY 1.5		P=0.166N
POLY 6		P=0.188N
RAO-SCOTT		P=0.189N
LITTER C-A/FISHERS		P=0.187N

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: 07/25/2018

Time Report Requested: 17:34:26

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	0/1000 ppm	300/1000 ppm
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Uterus
Dilation

LESION RATES

OVERALL (a)	3/49 (6%)	3/50 (6%)
LITTERS (b)	3/31 (10%)	3/30 (10%)
POLY-3 RATE (c)	3/37.39	3/37.32
POLY-3 PERCENT (g)	8%	8%
TERMINAL (d)	1/23 (4%)	2/23 (9%)
FIRST INCIDENCE	652	718

STATISTICAL TESTS

POLY 3	P=0.663
POLY 1.5	P=0.652N
POLY 6	P=0.638
RAO-SCOTT	P=0.626
LITTER C-A/FISHERS	P=0.648

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: 07/25/2018

Time Report Requested: 17:34:26

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	0/1000 ppm	300/1000 ppm
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**Uterus
Inflammation**

LESION RATES

OVERALL (a)	4/49 (8%)	1/50 (2%)
LITTERS (b)	3/31 (10%)	1/30 (3%)
POLY-3 RATE (c)	4/37.71	1/37.90
POLY-3 PERCENT (g)	10.6%	2.6%
TERMINAL (d)	0/23 (0%)	0/23 (0%)
FIRST INCIDENCE	669	508

STATISTICAL TESTS

POLY 3	P=0.175N
POLY 1.5	P=0.169N
POLY 6	P=0.192N
RAO-SCOTT	P=0.266N
LITTER C-A/FISHERS	P=0.319N

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: 07/25/2018
Time Report Requested: 17:34:26
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	0/1000 ppm	300/1000 ppm
Uterus: Endometrium Hyperplasia Cystic		
LESION RATES		
OVERALL (a)	18/49 (37%)	18/50 (36%)
LITTERS (b)	15/31 (48%)	16/30 (53%)
POLY-3 RATE (c)	18/39.69	18/39.75
POLY-3 PERCENT (g)	45.4%	45.3%
TERMINAL (d)	11/23 (48%)	12/23 (52%)
FIRST INCIDENCE	379	391
STATISTICAL TESTS		
POLY 3		P=0.589N
POLY 1.5		P=0.556N
POLY 6		P=0.540
RAO-SCOTT		P=0.569N
LITTER C-A/FISHERS		P=0.448

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

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Lab: BAT

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

Females

DOSE	0/1000 ppm	300/1000 ppm
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**Uterus: Endometrium
Metaplasia**

LESION RATES

OVERALL (a)	10/49 (20%)	11/50 (22%)
LITTERS (b)	10/31 (32%)	10/30 (33%)
POLY-3 RATE (c)	10/38.86	11/39.04
POLY-3 PERCENT (g)	25.7%	28.2%
TERMINAL (d)	6/23 (26%)	7/23 (30%)
FIRST INCIDENCE	379	472

STATISTICAL TESTS

POLY 3	P=0.505
POLY 1.5	P=0.524
POLY 6	P=0.466
RAO-SCOTT	P=0.487
LITTER C-A/FISHERS	P=0.572

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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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 ***