

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: 09/17/2018
Time Report Requested: 14:30:42
First Dose M/F: 10/27/08 / 10/28/08
Lab: BAT

Uterine section report with litter -- 0-300, 150-300

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 004 0/300 ppm	Include 006 150/300 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

Vagina (Longitudinal Evaluation)

Vagina (Standard or Longitudinal Evaluation)

Morphology

Hyperplasia, Granular Cell

Hyperplasia, Granular Cell

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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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Uterus (Longitudinal Evaluation)
Adenomyosis

LESION RATES

OVERALL (a)	3/49 (6%)	1/50 (2%)
LITTERS (b)	3/29 (10%)	1/29 (3%)
POLY-3 RATE (c)	3/40.88	1/41.44
POLY-3 PERCENT (g)	7.3%	2.4%
TERMINAL (d)	3/27 (11%)	1/32 (3%)
FIRST INCIDENCE	744 (T)	744 (T)

STATISTICAL TESTS

POLY 3	P=0.300N
POLY 1.5	P=0.303N
POLY 6	P=0.289N
RAO-SCOTT	P=0.326N
LITTER C-A/FISHERS	P=0.306N

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Uterus (Standard Evaluation)

Angiectasis

LESION RATES

OVERALL (a)	0/49 (0%)	1/50 (2%)
LITTERS (b)	0/29 (0%)	1/29 (3%)
POLY-3 RATE (c)	0/40.88	1/41.44
POLY-3 PERCENT (g)	0%	2.4%
TERMINAL (d)	0/27 (0%)	1/32 (3%)
FIRST INCIDENCE	---	744 (T)

STATISTICAL TESTS

POLY 3	P=0.503
POLY 1.5	P=0.501
POLY 6	P=0.509
RAO-SCOTT	P=0.590
LITTER C-A/FISHERS	P=0.500

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Uterus (Longitudinal Evaluation)

Decidual Alteration

LESION RATES

OVERALL (a)	1/49 (2%)	1/50 (2%)
LITTERS (b)	1/29 (3%)	1/29 (3%)
POLY-3 RATE (c)	1/40.88	1/41.44
POLY-3 PERCENT (g)	2.5%	2.4%
TERMINAL (d)	1/27 (4%)	1/32 (3%)
FIRST INCIDENCE	744 (T)	744 (T)

STATISTICAL TESTS

POLY 3	P=0.758N
POLY 1.5	P=0.759N
POLY 6	P=0.752N
RAO-SCOTT	P=0.724N
LITTER C-A/FISHERS	P=0.754

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Uterus (Standard Evaluation)
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

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Uterus (Longitudinal Evaluation)
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Dilation

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TERMINAL SACRIFICE AT 107 WEEKS**

Females

DOSE	0/300 ppm	150/300 ppm
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Uterus (Longitudinal Evaluation)
Hyperplasia, Atypical

LESION RATES

OVERALL (a)	4/49 (8%)	7/50 (14%)
LITTERS (b)	4/29 (14%)	6/29 (21%)
POLY-3 RATE (c)	4/41.02	7/41.44
POLY-3 PERCENT (g)	9.8%	16.9%
TERMINAL (d)	3/27 (11%)	7/32 (22%)
FIRST INCIDENCE	707	744 (T)

STATISTICAL TESTS

POLY 3	P=0.264
POLY 1.5	P=0.262
POLY 6	P=0.279
RAO-SCOTT	P=0.290
LITTER C-A/FISHERS	P=0.365

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TERMINAL SACRIFICE AT 107 WEEKS**

Females

DOSE	0/300 ppm	150/300 ppm
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Uterus (Standard or Longitudinal Evaluation)
Hyperplasia, Atypical

LESION RATES

OVERALL (a)	4/49 (8%)	7/50 (14%)
LITTERS (b)	4/29 (14%)	6/29 (21%)
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TERMINAL SACRIFICE AT 107 WEEKS**

Females

DOSE	0/300 ppm	150/300 ppm
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Uterus (Standard Evaluation)
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

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Females

DOSE	0/300 ppm	150/300 ppm
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**Uterus (Standard or Longitudinal Evaluation)
Inflammation**

LESION RATES

OVERALL (a)	1/49 (2%)	3/50 (6%)
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DOSE	0/300 ppm	150/300 ppm
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Uterus (Standard Evaluation)

Thrombus

LESION RATES

OVERALL (a)	1/49 (2%)	0/50 (0%)
LITTERS (b)	1/29 (3%)	0/29 (0%)
POLY-3 RATE (c)	1/40.88	0/41.44
POLY-3 PERCENT (g)	2.5%	0%
TERMINAL (d)	1/27 (4%)	0/32 (0%)
FIRST INCIDENCE	744 (T)	---

STATISTICAL TESTS

POLY 3	P=0.497N
POLY 1.5	P=0.499N
POLY 6	P=0.491N
RAO-SCOTT	P=0.589N
LITTER C-A/FISHERS	P=0.500N

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Uterus, Cervix (Standard Evaluation)

Hypertrophy

LESION RATES

OVERALL (a)	1/49 (2%)	1/50 (2%)
LITTERS (b)	1/29 (3%)	1/29 (3%)
POLY-3 RATE (c)	1/40.88	1/41.44
POLY-3 PERCENT (g)	2.5%	2.4%
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Uterus, Cervix (Standard or Longitudinal Evaluation)
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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, Cervix (Standard Evaluation)

Stromal Hyperplasia

LESION RATES

OVERALL (a)	0/49 (0%)	1/50 (2%)
LITTERS (b)	0/29 (0%)	1/29 (3%)
POLY-3 RATE (c)	0/40.88	1/41.54
POLY-3 PERCENT (g)	0%	2.4%
TERMINAL (d)	0/27 (0%)	0/32 (0%)
FIRST INCIDENCE	---	718

STATISTICAL TESTS

POLY 3	P=0.503
POLY 1.5	P=0.501
POLY 6	P=0.510
RAO-SCOTT	P=0.587
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: 09/17/2018

Time Report Requested: 14:30:42

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, Cervix (Longitudinal Evaluation)
Stromal Hyperplasia

LESION RATES

OVERALL (a)	3/49 (6%)	3/50 (6%)
LITTERS (b)	3/29 (10%)	3/29 (10%)
POLY-3 RATE (c)	3/40.88	3/41.56
POLY-3 PERCENT (g)	7.3%	7.2%
TERMINAL (d)	3/27 (11%)	2/32 (6%)
FIRST INCIDENCE	744 (T)	714

STATISTICAL TESTS

POLY 3	P=0.655N
POLY 1.5	P=0.659N
POLY 6	P=0.641N
RAO-SCOTT	P=0.630N
LITTER C-A/FISHERS	P=0.665

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: 09/17/2018

Time Report Requested: 14:30:42

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, Cervix (Standard or Longitudinal Evaluation)
Stromal Hyperplasia

LESION RATES

OVERALL (a)	3/49 (6%)	4/50 (8%)
LITTERS (b)	3/29 (10%)	4/29 (14%)
POLY-3 RATE (c)	3/40.88	4/41.66
POLY-3 PERCENT (g)	7.3%	9.6%
TERMINAL (d)	3/27 (11%)	2/32 (6%)
FIRST INCIDENCE	744 (T)	714

STATISTICAL TESTS

POLY 3	P=0.510
POLY 1.5	P=0.504
POLY 6	P=0.530
RAO-SCOTT	P=0.487
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: 09/17/2018

Time Report Requested: 14:30:42

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, Cervix, Epithelium (Longitudinal Evaluation)

Basal Cell Hyperplasia

LESION RATES

OVERALL (a)	4/50 (8%)	6/50 (12%)
LITTERS (b)	4/29 (14%)	5/29 (17%)
POLY-3 RATE (c)	4/42.13	6/41.54
POLY-3 PERCENT (g)	9.5%	14.4%
TERMINAL (d)	3/28 (11%)	5/32 (16%)
FIRST INCIDENCE	676	718

STATISTICAL TESTS

POLY 3	P=0.360
POLY 1.5	P=0.357
POLY 6	P=0.374
RAO-SCOTT	P=0.379
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: 09/17/2018

Time Report Requested: 14:30:42

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, Cervix, Epithelium (Standard or Longitudinal Evaluation)

Basal Cell Hyperplasia

LESION RATES

OVERALL (a)	4/50 (8%)	6/50 (12%)
LITTERS (b)	4/29 (14%)	5/29 (17%)
POLY-3 RATE (c)	4/42.13	6/41.54
POLY-3 PERCENT (g)	9.5%	14.4%
TERMINAL (d)	3/28 (11%)	5/32 (16%)
FIRST INCIDENCE	676	718

STATISTICAL TESTS

POLY 3	P=0.360
POLY 1.5	P=0.357
POLY 6	P=0.374
RAO-SCOTT	P=0.379
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: 09/17/2018

Time Report Requested: 14:30:42

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 (Standard Evaluation)
Hyperplasia**

LESION RATES

OVERALL (a)	1/49 (2%)	0/50 (0%)
LITTERS (b)	1/29 (3%)	0/29 (0%)
POLY-3 RATE (c)	1/41.02	0/41.44
POLY-3 PERCENT (g)	2.4%	0%
TERMINAL (d)	0/27 (0%)	0/32 (0%)
FIRST INCIDENCE	707	---

STATISTICAL TESTS

POLY 3	P=0.498N
POLY 1.5	P=0.499N
POLY 6	P=0.493N
RAO-SCOTT	P=0.587N
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: 09/17/2018

Time Report Requested: 14:30:42

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 (Standard or Longitudinal Evaluation)

Hyperplasia

LESION RATES

OVERALL (a)	1/49 (2%)	0/50 (0%)
LITTERS (b)	1/29 (3%)	0/29 (0%)
POLY-3 RATE (c)	1/41.02	0/41.44
POLY-3 PERCENT (g)	2.4%	0%
TERMINAL (d)	0/27 (0%)	0/32 (0%)
FIRST INCIDENCE	707	---

STATISTICAL TESTS

POLY 3	P=0.498N
POLY 1.5	P=0.499N
POLY 6	P=0.493N
RAO-SCOTT	P=0.587N
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: 09/17/2018

Time Report Requested: 14:30:42

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 (Standard Evaluation)
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: 09/17/2018

Time Report Requested: 14:30:42

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 (Longitudinal Evaluation)
Hyperplasia, Cystic

LESION RATES

OVERALL (a)	27/49 (55%)	36/50 (72%)
LITTERS (b)	19/29 (66%)	25/29 (86%)
POLY-3 RATE (c)	27/44.15	36/47.07
POLY-3 PERCENT (g)	61.2%	76.5%
TERMINAL (d)	17/27 (63%)	24/32 (75%)
FIRST INCIDENCE	470	322

STATISTICAL TESTS

POLY 3	P=0.080
POLY 1.5	P=0.066
POLY 6	P=0.115
RAO-SCOTT	P=0.119
LITTER C-A/FISHERS	P=0.062

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: 09/17/2018
Time Report Requested: 14:30:42
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 (Standard or Longitudinal Evaluation)
Hyperplasia, Cystic

LESION RATES

OVERALL (a)	27/49 (55%)	36/50 (72%)
LITTERS (b)	19/29 (66%)	25/29 (86%)
POLY-3 RATE (c)	27/44.15	36/47.07
POLY-3 PERCENT (g)	61.2%	76.5%
TERMINAL (d)	17/27 (63%)	24/32 (75%)
FIRST INCIDENCE	470	322

STATISTICAL TESTS

POLY 3	P=0.080
POLY 1.5	P=0.066
POLY 6	P=0.115
RAO-SCOTT	P=0.119
LITTER C-A/FISHERS	P=0.062

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: 09/17/2018

Time Report Requested: 14:30:42

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 (Standard Evaluation)

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

CAS Number: 335-67-1

Date Report Requested: 09/17/2018

Time Report Requested: 14:30:42

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 (Longitudinal Evaluation)
Metaplasia, Squamous

LESION RATES

OVERALL (a)	19/49 (39%)	25/50 (50%)
LITTERS (b)	17/29 (59%)	20/29 (69%)
POLY-3 RATE (c)	19/43.75	25/44.60
POLY-3 PERCENT (g)	43.4%	56.1%
TERMINAL (d)	11/27 (41%)	19/32 (59%)
FIRST INCIDENCE	470	322

STATISTICAL TESTS

POLY 3	P=0.160
POLY 1.5	P=0.157
POLY 6	P=0.183
RAO-SCOTT	P=0.159
LITTER C-A/FISHERS	P=0.293

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: 09/17/2018

Time Report Requested: 14:30:42

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 (Standard or Longitudinal Evaluation)

Metaplasia, Squamous or Metaplasia

LESION RATES

OVERALL (a)	19/49 (39%)	25/50 (50%)
LITTERS (b)	17/29 (59%)	20/29 (69%)
POLY-3 RATE (c)	19/43.75	25/44.60
POLY-3 PERCENT (g)	43.4%	56.1%
TERMINAL (d)	11/27 (41%)	19/32 (59%)
FIRST INCIDENCE	470	322

STATISTICAL TESTS

POLY 3	P=0.160
POLY 1.5	P=0.157
POLY 6	P=0.183
RAO-SCOTT	P=0.159
LITTER C-A/FISHERS	P=0.293

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: 09/17/2018

Time Report Requested: 14:30:42

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, Endometrial Glands (Longitudinal Evaluation)
Hyperplasia

LESION RATES

OVERALL (a)	2/49 (4%)	5/50 (10%)
LITTERS (b)	2/29 (7%)	5/29 (17%)
POLY-3 RATE (c)	2/41.32	5/41.44
POLY-3 PERCENT (g)	4.8%	12.1%
TERMINAL (d)	0/27 (0%)	5/32 (16%)
FIRST INCIDENCE	659	744 (T)

STATISTICAL TESTS

POLY 3	P=0.216
POLY 1.5	P=0.216
POLY 6	P=0.223
RAO-SCOTT	P=0.237
LITTER C-A/FISHERS	P=0.211

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: 09/17/2018

Time Report Requested: 14:30:42

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, Endometrial Glands (Standard or Longitudinal Evaluation)
Hyperplasia

LESION RATES

OVERALL (a)	2/49 (4%)	5/50 (10%)
LITTERS (b)	2/29 (7%)	5/29 (17%)
POLY-3 RATE (c)	2/41.32	5/41.44
POLY-3 PERCENT (g)	4.8%	12.1%
TERMINAL (d)	0/27 (0%)	5/32 (16%)
FIRST INCIDENCE	659	744 (T)

STATISTICAL TESTS

POLY 3	P=0.216
POLY 1.5	P=0.216
POLY 6	P=0.223
RAO-SCOTT	P=0.237
LITTER C-A/FISHERS	P=0.211

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: 09/17/2018
Time Report Requested: 14:30:42
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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Vagina (Longitudinal Evaluation)
Hyperplasia, Granular Cell

LESION RATES

OVERALL (a)	7/49 (14%)	0/50 (0%)
LITTERS (b)	6/29 (21%)	0/29 (0%)
POLY-3 RATE (c)	7/41.39	0/41.44
POLY-3 PERCENT (g)	16.9%	0%
TERMINAL (d)	4/27 (15%)	0/32 (0%)
FIRST INCIDENCE	659	---

STATISTICAL TESTS

POLY 3	P=0.007N**
POLY 1.5	P=0.007N**
POLY 6	P=0.006N**
RAO-SCOTT	P=0.035N*
LITTER C-A/FISHERS	P=0.012N*

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: 09/17/2018

Time Report Requested: 14:30:42

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
------	-----------	-------------

Vagina (Standard or Longitudinal Evaluation)
Hyperplasia, Granular Cell

LESION RATES

OVERALL (a)	7/49 (14%)	0/50 (0%)
LITTERS (b)	6/29 (21%)	0/29 (0%)
POLY-3 RATE (c)	7/41.39	0/41.44
POLY-3 PERCENT (g)	16.9%	0%
TERMINAL (d)	4/27 (15%)	0/32 (0%)
FIRST INCIDENCE	659	---

STATISTICAL TESTS

POLY 3	P=0.007N**
POLY 1.5	P=0.007N**
POLY 6	P=0.006N**
RAO-SCOTT	P=0.035N*
LITTER C-A/FISHERS	P=0.012N*

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 ***