

**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:** 14:51:31  
**First Dose M/F:** 10/27/08 / 10/28/08  
**Lab:** BAT

Uterine section report with litter -- 0-0, 150-300, 300-1000

<b>NTP Study Number:</b>	C20614		
<b>Lock Date:</b>	01/10/2012		
<b>Cage Range:</b>	ALL		
<b>Date Range:</b>	ALL		
<b>Reasons For Removal:</b>	25021 TSAC 25016 Aborted	25020 NATD	25019 MSAC
<b>Removal Date Range:</b>	ALL		
<b>Treatment Groups:</b>	Include 002 0/0 ppm	Include 006 150/300 ppm	Include 010 300/1000 ppm
<b>Study Gender:</b>	Both		
<b>TDMSE Version:</b>	2.5.0.0_sfh		
<b>PWG Approval Date:</b>	07/25/2018		

Experiment Number: 20614 - 01

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

**FEMALE RATS**

**Organ**

Uterus, Cervix (Standard or Longitudinal Evaluation)  
Uterus, Endometrium (Standard Evaluation)  
Uterus, Endometrium (Standard or Longitudinal Evaluation)  
Uterus, Endometrium (Standard Evaluation)  
Uterus, Endometrium (Longitudinal Evaluation)  
Uterus, Endometrium (Standard or Longitudinal Evaluation)  
Vagina (Longitudinal Evaluation)  
Vagina (Standard or Longitudinal Evaluation)

**Morphology**

Stromal Hyperplasia  
Hyperplasia, Cystic  
Hyperplasia, Cystic  
Metaplasia  
Metaplasia, Squamous  
Metaplasia, Squamous or Metaplasia  
Hyperplasia, Granular Cell  
Hyperplasia, Granular Cell

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Lab: BAT

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

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DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm
<b>Uterus (Standard Evaluation)</b>			
<b>Adenomyosis</b>			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	1/32 (3%)	0/29 (0%)	0/30 (0%)
POLY-3 RATE (c)	1/37.11	0/41.44	0/37.22
POLY-3 PERCENT (g)	2.7%	0%	0%
TERMINAL (d)	0/23 (0%)	0/32 (0%)	0/23 (0%)
FIRST INCIDENCE	661	---	---
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.438N	P=0.478N	P=0.499N
POLY 1.5	P=0.430N	P=0.488N	P=0.499N
POLY 6	P=0.448N	P=0.464N	P=0.502N
RAO-SCOTT	P=0.512N	P=0.578N	P=0.575N
LITTER C-A/FISHERS	P=0.429N	P=0.525N	P=0.516N

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TERMINAL SACRIFICE AT 107 WEEKS**

---

DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm
<b>Uterus (Longitudinal Evaluation)</b>			
<b>Adenomyosis</b>			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	2/50 (4%)	1/50 (2%)	0/48 (0%)
LITTERS (b)	2/32 (6%)	1/29 (3%)	0/30 (0%)
POLY-3 RATE (c)	2/37.11	1/41.44	0/36.25
POLY-3 PERCENT (g)	5.4%	2.4%	0%
TERMINAL (d)	1/23 (4%)	1/32 (3%)	0/23 (0%)
FIRST INCIDENCE	661	744 (T)	---
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.196N	P=0.461N	P=0.241N
POLY 1.5	P=0.193N	P=0.479N	P=0.243N
POLY 6	P=0.203N	P=0.438N	P=0.242N
RAO-SCOTT	P=0.221N	P=0.472N	P=0.268N
LITTER C-A/FISHERS	P=0.192N	P=0.537N	P=0.262N

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TERMINAL SACRIFICE AT 107 WEEKS**

---

DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm
<b>Uterus (Standard or Longitudinal Evaluation)</b>			
<b>Adenomyosis</b>			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	2/50 (4%)	1/50 (2%)	0/48 (0%)
LITTERS (b)	2/32 (6%)	1/29 (3%)	0/30 (0%)
POLY-3 RATE (c)	2/37.11	1/41.44	0/36.25
POLY-3 PERCENT (g)	5.4%	2.4%	0%
TERMINAL (d)	1/23 (4%)	1/32 (3%)	0/23 (0%)
FIRST INCIDENCE	661	744 (T)	---
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<b>STATISTICAL TESTS</b>			
POLY 3	P=0.196N	P=0.461N	P=0.241N
POLY 1.5	P=0.193N	P=0.479N	P=0.243N
POLY 6	P=0.203N	P=0.438N	P=0.242N
RAO-SCOTT	P=0.221N	P=0.472N	P=0.268N
LITTER C-A/FISHERS	P=0.192N	P=0.537N	P=0.262N

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

---

DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm
<b>Uterus (Standard Evaluation)</b>			
Angiectasis			
<b>LESION RATES</b>			
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	0/32 (0%)	1/29 (3%)	0/30 (0%)
POLY-3 RATE (c)	0/36.81	1/41.44	0/37.22
POLY-3 PERCENT (g)	0%	2.4%	0%
TERMINAL (d)	0/23 (0%)	1/32 (3%)	0/23 (0%)
FIRST INCIDENCE	---	744 (T)	---
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.697N	P=0.524	(e)
POLY 1.5	P=0.697N	P=0.513	(e)
POLY 6	P=0.700N	P=0.539	(e)
RAO-SCOTT	P=0.719N	P=0.601	(e)
LITTER C-A/FISHERS	P=0.704N	P=0.475	(e)

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TERMINAL SACRIFICE AT 107 WEEKS**

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DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm
<b>Uterus (Standard or Longitudinal Evaluation)</b>			
Angiectasis			
<b>LESION RATES</b>			
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/48 (0%)
LITTERS (b)	0/32 (0%)	1/29 (3%)	0/30 (0%)
POLY-3 RATE (c)	0/36.81	1/41.44	0/36.25
POLY-3 PERCENT (g)	0%	2.4%	0%
TERMINAL (d)	0/23 (0%)	1/32 (3%)	0/23 (0%)
FIRST INCIDENCE	---	744 (T)	---
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.702N	P=0.524	(e)
POLY 1.5	P=0.703N	P=0.513	(e)
POLY 6	P=0.703N	P=0.539	(e)
RAO-SCOTT	P=0.725N	P=0.600	(e)
LITTER C-A/FISHERS	P=0.704N	P=0.475	(e)

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TERMINAL SACRIFICE AT 107 WEEKS**

---

DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm
<b>Uterus (Longitudinal Evaluation)</b>			
<b>Decidual Alteration</b>			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/48 (0%)
LITTERS (b)	1/32 (3%)	1/29 (3%)	0/30 (0%)
POLY-3 RATE (c)	1/37.59	1/41.44	0/36.25
POLY-3 PERCENT (g)	2.7%	2.4%	0%
TERMINAL (d)	0/23 (0%)	1/32 (3%)	0/23 (0%)
FIRST INCIDENCE	452	744 (T)	---
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.372N	P=0.739N	P=0.507N
POLY 1.5	P=0.369N	P=0.749N	P=0.507N
POLY 6	P=0.379N	P=0.723N	P=0.508N
RAO-SCOTT	P=0.390N	P=0.723N	P=0.508N
LITTER C-A/FISHERS	P=0.367N	P=0.729	P=0.516N

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TERMINAL SACRIFICE AT 107 WEEKS**

---

DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm
<b>Uterus (Standard or Longitudinal Evaluation)</b>			
<b>Decidual Alteration</b>			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/48 (0%)
LITTERS (b)	1/32 (3%)	1/29 (3%)	0/30 (0%)
POLY-3 RATE (c)	1/37.59	1/41.44	0/36.25
POLY-3 PERCENT (g)	2.7%	2.4%	0%
TERMINAL (d)	0/23 (0%)	1/32 (3%)	0/23 (0%)
FIRST INCIDENCE	452	744 (T)	---
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.372N	P=0.739N	P=0.507N
POLY 1.5	P=0.369N	P=0.749N	P=0.507N
POLY 6	P=0.379N	P=0.723N	P=0.508N
RAO-SCOTT	P=0.390N	P=0.723N	P=0.508N
LITTER C-A/FISHERS	P=0.367N	P=0.729	P=0.516N

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TERMINAL SACRIFICE AT 107 WEEKS**

---

DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm
<hr/>			
Uterus (Standard Evaluation)			
Dilation			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	2/50 (4%)	0/50 (0%)	3/50 (6%)
LITTERS (b)	2/32 (6%)	0/29 (0%)	3/30 (10%)
POLY-3 RATE (c)	2/37.22	0/41.44	3/37.32
POLY-3 PERCENT (g)	5.4%	0%	8%
TERMINAL (d)	1/23 (4%)	0/32 (0%)	2/23 (9%)
FIRST INCIDENCE	625	---	718
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.284	P=0.214N	P=0.501
POLY 1.5	P=0.292	P=0.224N	P=0.502
POLY 6	P=0.271	P=0.200N	P=0.497
RAO-SCOTT	P=0.319	P=0.259N	P=0.503
LITTER C-A/FISHERS	P=0.284	P=0.271N	P=0.469

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

DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm
<b>Uterus (Longitudinal Evaluation)</b>			
Dilation			
<b>LESION RATES</b>			
OVERALL (a)	2/50 (4%)	0/50 (0%)	2/48 (4%)
LITTERS (b)	2/32 (6%)	0/29 (0%)	2/30 (7%)
POLY-3 RATE (c)	2/37.22	0/41.44	2/36.25
POLY-3 PERCENT (g)	5.4%	0%	5.5%
TERMINAL (d)	1/23 (4%)	0/32 (0%)	2/23 (9%)
FIRST INCIDENCE	625	---	744 (T)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.514	P=0.214N	P=0.686
POLY 1.5	P=0.521	P=0.224N	P=0.684
POLY 6	P=0.502	P=0.200N	P=0.685
RAO-SCOTT	P=0.529	P=0.268N	P=0.667
LITTER C-A/FISHERS	P=0.525	P=0.271N	P=0.669

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TERMINAL SACRIFICE AT 107 WEEKS**

---

DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm

---

Uterus (Standard or Longitudinal Evaluation)  
Dilation

---

**LESION RATES**

OVERALL (a)	2/50 (4%)	0/50 (0%)	3/48 (6%)
LITTERS (b)	2/32 (6%)	0/29 (0%)	3/30 (10%)
POLY-3 RATE (c)	2/37.22	0/41.44	3/36.35
POLY-3 PERCENT (g)	5.4%	0%	8.3%
TERMINAL (d)	1/23 (4%)	0/32 (0%)	2/23 (9%)
FIRST INCIDENCE	625	---	718

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**STATISTICAL TESTS**

POLY 3	P=0.273	P=0.214N	P=0.489
POLY 1.5	P=0.279	P=0.224N	P=0.487
POLY 6	P=0.262	P=0.200N	P=0.488
RAO-SCOTT	P=0.312	P=0.260N	P=0.494
LITTER C-A/FISHERS	P=0.284	P=0.271N	P=0.469

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TERMINAL SACRIFICE AT 107 WEEKS**

---

DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm
<b>Uterus (Longitudinal Evaluation)</b>			
Hyperplasia, Atypical			
<b>LESION RATES</b>			
OVERALL (a)	3/50 (6%)	7/50 (14%)	3/48 (6%)
LITTERS (b)	3/32 (9%)	6/29 (21%)	3/30 (10%)
POLY-3 RATE (c)	3/37.18	7/41.44	3/36.25
POLY-3 PERCENT (g)	8.1%	16.9%	8.3%
TERMINAL (d)	2/23 (9%)	7/32 (22%)	3/23 (13%)
FIRST INCIDENCE	638	744 (T)	744 (T)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.475N	P=0.202	P=0.652
POLY 1.5	P=0.472N	P=0.181	P=0.650
POLY 6	P=0.487N	P=0.235	P=0.651
RAO-SCOTT	P=0.480N	P=0.224	P=0.628
LITTER C-A/FISHERS	P=0.514N	P=0.189	P=0.633

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TERMINAL SACRIFICE AT 107 WEEKS**

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DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm
<b>Uterus (Standard or Longitudinal Evaluation)</b>			
Hyperplasia, Atypical			
<b>LESION RATES</b>			
OVERALL (a)	3/50 (6%)	7/50 (14%)	3/48 (6%)
LITTERS (b)	3/32 (9%)	6/29 (21%)	3/30 (10%)
POLY-3 RATE (c)	3/37.18	7/41.44	3/36.25
POLY-3 PERCENT (g)	8.1%	16.9%	8.3%
TERMINAL (d)	2/23 (9%)	7/32 (22%)	3/23 (13%)
FIRST INCIDENCE	638	744 (T)	744 (T)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.475N	P=0.202	P=0.652
POLY 1.5	P=0.472N	P=0.181	P=0.650
POLY 6	P=0.487N	P=0.235	P=0.651
RAO-SCOTT	P=0.480N	P=0.224	P=0.628
LITTER C-A/FISHERS	P=0.514N	P=0.189	P=0.633

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

---

DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm
<b>Uterus (Standard Evaluation)</b>			
<b>Inflammation</b>			
<hr/>			
<b>LESION RATES</b>			
<b>OVERALL (a)</b>	0/50 (0%)	3/50 (6%)	1/50 (2%)
<b>LITTERS (b)</b>	0/32 (0%)	3/29 (10%)	1/30 (3%)
<b>POLY-3 RATE (c)</b>	0/36.81	3/41.54	1/37.90
<b>POLY-3 PERCENT (g)</b>	0%	7.2%	2.6%
<b>TERMINAL (d)</b>	0/23 (0%)	2/32 (6%)	0/23 (0%)
<b>FIRST INCIDENCE</b>	---	718	508
<hr/>			
<b>STATISTICAL TESTS</b>			
<b>POLY 3</b>	P=0.609	P=0.141	P=0.506
<b>POLY 1.5</b>	P=0.602	P=0.131	P=0.504
<b>POLY 6</b>	P=0.613	P=0.158	P=0.507
<b>RAO-SCOTT</b>	P=0.580	P=0.178	P=0.499
<b>LITTER C-A/FISHERS</b>	P=0.573	P=0.102	P=0.484

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TERMINAL SACRIFICE AT 107 WEEKS**

---

DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm
<b>Uterus (Standard or Longitudinal Evaluation)</b>			
<b>Inflammation</b>			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	0/50 (0%)	3/50 (6%)	1/48 (2%)
LITTERS (b)	0/32 (0%)	3/29 (10%)	1/30 (3%)
POLY-3 RATE (c)	0/36.81	3/41.54	1/36.93
POLY-3 PERCENT (g)	0%	7.2%	2.7%
TERMINAL (d)	0/23 (0%)	2/32 (6%)	0/23 (0%)
FIRST INCIDENCE	---	718	508
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.602	P=0.141	P=0.501
POLY 1.5	P=0.592	P=0.131	P=0.498
POLY 6	P=0.611	P=0.158	P=0.503
RAO-SCOTT	P=0.574	P=0.177	P=0.495
LITTER C-A/FISHERS	P=0.573	P=0.102	P=0.484

---



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: 14:51:31

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**

---

DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm
<b>Uterus (Standard Evaluation)</b>			
Inflammation, Acute			
<b>LESION RATES</b>			
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	0/32 (0%)	0/29 (0%)	1/30 (3%)
POLY-3 RATE (c)	0/36.81	0/41.44	1/38.08
POLY-3 PERCENT (g)	0%	0%	2.6%
TERMINAL (d)	0/23 (0%)	0/32 (0%)	0/23 (0%)
FIRST INCIDENCE	---	---	391
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.307	(e)	P=0.507
POLY 1.5	P=0.306	(e)	P=0.505
POLY 6	P=0.305	(e)	P=0.507
RAO-SCOTT	P=0.422	(e)	P=0.588
LITTER C-A/FISHERS	P=0.296	(e)	P=0.484

---

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: 14:51:31

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**

---

DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm
<b>Uterus (Standard or Longitudinal Evaluation)</b>			
Inflammation, Acute			
<b>LESION RATES</b>			
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/48 (2%)
LITTERS (b)	0/32 (0%)	0/29 (0%)	1/30 (3%)
POLY-3 RATE (c)	0/36.81	0/41.44	1/37.10
POLY-3 PERCENT (g)	0%	0%	2.7%
TERMINAL (d)	0/23 (0%)	0/32 (0%)	0/23 (0%)
FIRST INCIDENCE	---	---	391
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.302	(e)	P=0.502
POLY 1.5	P=0.300	(e)	P=0.498
POLY 6	P=0.302	(e)	P=0.504
RAO-SCOTT	P=0.429	(e)	P=0.593
LITTER C-A/FISHERS	P=0.296	(e)	P=0.484

---

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: 14:51:31  
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**

---

DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm
<b>Uterus (Standard Evaluation)</b> Inflammation, Chronic Active			
<b>LESION RATES</b>			
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	2/32 (6%)	0/29 (0%)	0/30 (0%)
POLY-3 RATE (c)	2/37.34	0/41.44	0/37.22
POLY-3 PERCENT (g)	5.4%	0%	0%
TERMINAL (d)	0/23 (0%)	0/32 (0%)	0/23 (0%)
FIRST INCIDENCE	625	---	---
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.202N	P=0.214N	P=0.237N
POLY 1.5	P=0.196N	P=0.224N	P=0.236N
POLY 6	P=0.210N	P=0.201N	P=0.240N
RAO-SCOTT	P=0.295N	P=0.334N	P=0.343N
LITTER C-A/FISHERS	P=0.198N	P=0.271N	P=0.262N

---

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: 14:51:31  
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**

---

DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm
<b>Uterus (Longitudinal Evaluation)</b>			
Inflammation, Chronic Active			
<b>LESION RATES</b>			
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/48 (0%)
LITTERS (b)	1/32 (3%)	0/29 (0%)	0/30 (0%)
POLY-3 RATE (c)	1/37.22	0/41.44	0/36.25
POLY-3 PERCENT (g)	2.7%	0%	0%
TERMINAL (d)	0/23 (0%)	0/32 (0%)	0/23 (0%)
FIRST INCIDENCE	625	---	---
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.443N	P=0.479N	P=0.505N
POLY 1.5	P=0.436N	P=0.488N	P=0.506N
POLY 6	P=0.453N	P=0.465N	P=0.506N
RAO-SCOTT	P=0.529N	P=0.589N	P=0.592N
LITTER C-A/FISHERS	P=0.429N	P=0.525N	P=0.516N

---

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: 14:51:31

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**

---

DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm
<b>Uterus (Standard or Longitudinal Evaluation)</b>			
Inflammation, Chronic Active			
<b>LESION RATES</b>			
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/48 (0%)
LITTERS (b)	2/32 (6%)	0/29 (0%)	0/30 (0%)
POLY-3 RATE (c)	2/37.34	0/41.44	0/36.25
POLY-3 PERCENT (g)	5.4%	0%	0%
TERMINAL (d)	0/23 (0%)	0/32 (0%)	0/23 (0%)
FIRST INCIDENCE	625	---	---
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.206N	P=0.214N	P=0.243N
POLY 1.5	P=0.201N	P=0.224N	P=0.243N
POLY 6	P=0.215N	P=0.201N	P=0.245N
RAO-SCOTT	P=0.299N	P=0.333N	P=0.349N
LITTER C-A/FISHERS	P=0.198N	P=0.271N	P=0.262N

---

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: 14:51:31

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**

---

DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm
<b>Uterus, Cervix (Standard Evaluation)</b>			
<b>Hypertrophy</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	0/32 (0%)	1/29 (3%)	0/30 (0%)
POLY-3 RATE (c)	0/36.81	1/41.44	0/37.22
POLY-3 PERCENT (g)	0%	2.4%	0%
TERMINAL (d)	0/23 (0%)	1/32 (3%)	0/23 (0%)
FIRST INCIDENCE	---	744 (T)	---
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.697N	P=0.524	(e)
POLY 1.5	P=0.697N	P=0.513	(e)
POLY 6	P=0.700N	P=0.539	(e)
RAO-SCOTT	P=0.713N	P=0.591	(e)
LITTER C-A/FISHERS	P=0.704N	P=0.475	(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: 09/17/2018

Time Report Requested: 14:51:31

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**

---

DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm
<b>Uterus, Cervix (Standard or Longitudinal Evaluation)</b>			
<b>Hypertrophy</b>			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/48 (0%)
LITTERS (b)	0/32 (0%)	1/29 (3%)	0/30 (0%)
POLY-3 RATE (c)	0/36.81	1/41.44	0/36.25
POLY-3 PERCENT (g)	0%	2.4%	0%
TERMINAL (d)	0/23 (0%)	1/32 (3%)	0/23 (0%)
FIRST INCIDENCE	---	744 (T)	---
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.702N	P=0.524	(e)
POLY 1.5	P=0.703N	P=0.513	(e)
POLY 6	P=0.703N	P=0.539	(e)
RAO-SCOTT	P=0.720N	P=0.590	(e)
LITTER C-A/FISHERS	P=0.704N	P=0.475	(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: 09/17/2018

Time Report Requested: 14:51:31

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**

---

DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm
<b>Uterus, Cervix (Standard Evaluation)</b>			
Stromal Hyperplasia			
<b>LESION RATES</b>			
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	0/32 (0%)	1/29 (3%)	0/30 (0%)
POLY-3 RATE (c)	0/36.81	1/41.54	0/37.22
POLY-3 PERCENT (g)	0%	2.4%	0%
TERMINAL (d)	0/23 (0%)	0/32 (0%)	0/23 (0%)
FIRST INCIDENCE	---	718	---
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.698N	P=0.524	(e)
POLY 1.5	P=0.697N	P=0.513	(e)
POLY 6	P=0.700N	P=0.540	(e)
RAO-SCOTT	P=0.717N	P=0.598	(e)
LITTER C-A/FISHERS	P=0.704N	P=0.475	(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: 09/17/2018

Time Report Requested: 14:51:31

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**

---

DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm
<b>Uterus, Cervix (Longitudinal Evaluation)</b>			
<b>Stromal Hyperplasia</b>			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	0/50 (0%)	3/50 (6%)	2/48 (4%)
LITTERS (b)	0/32 (0%)	3/29 (10%)	2/30 (7%)
POLY-3 RATE (c)	0/36.81	3/41.56	2/37.29
POLY-3 PERCENT (g)	0%	7.2%	5.4%
TERMINAL (d)	0/23 (0%)	2/32 (6%)	0/23 (0%)
FIRST INCIDENCE	---	714	391
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.349	P=0.141	P=0.239
POLY 1.5	P=0.340	P=0.131	P=0.235
POLY 6	P=0.356	P=0.158	P=0.242
RAO-SCOTT	P=0.347	P=0.168	P=0.256
LITTER C-A/FISHERS	P=0.322	P=0.102	P=0.230

---

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: 14:51:31

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**

---

DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm
<b>Uterus, Cervix (Standard or Longitudinal Evaluation)</b>			
<b>Stromal Hyperplasia</b>			
<b>LESION RATES</b>			
<b>OVERALL (a)</b>	0/50 (0%)	4/50 (8%)	2/48 (4%)
<b>LITTERS (b)</b>	0/32 (0%)	4/29 (14%)	2/30 (7%)
<b>POLY-3 RATE (c)</b>	0/36.81	4/41.66	2/37.29
<b>POLY-3 PERCENT (g)</b>	0%	9.6%	5.4%
<b>TERMINAL (d)</b>	0/23 (0%)	2/32 (6%)	0/23 (0%)
<b>FIRST INCIDENCE</b>	---	714	391
<b>STATISTICAL TESTS</b>			
<b>POLY 3</b>	P=0.417	P=0.077	P=0.239
<b>POLY 1.5</b>	P=0.405	P=0.069	P=0.235
<b>POLY 6</b>	P=0.426	P=0.090	P=0.242
<b>RAO-SCOTT</b>	P=0.400	P=0.099	P=0.250
<b>LITTER C-A/FISHERS</b>	P=0.382	P=0.046*	P=0.230

---

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: 14:51:31

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**

---

DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm
<b>Uterus, Cervix, Epithelium (Longitudinal Evaluation)</b>			
<b>Basal Cell Hyperplasia</b>			
<b>LESION RATES</b>			
OVERALL (a)	6/50 (12%)	6/50 (12%)	4/50 (8%)
LITTERS (b)	6/32 (19%)	5/29 (17%)	4/30 (13%)
POLY-3 RATE (c)	6/37.61	6/41.54	4/37.22
POLY-3 PERCENT (g)	16%	14.4%	10.8%
TERMINAL (d)	4/23 (17%)	5/32 (16%)	4/23 (17%)
FIRST INCIDENCE	589	718	744 (T)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.332N	P=0.550N	P=0.374N
POLY 1.5	P=0.319N	P=0.582N	P=0.369N
POLY 6	P=0.357N	P=0.504N	P=0.386N
RAO-SCOTT	P=0.324N	P=0.533N	P=0.359N
LITTER C-A/FISHERS	P=0.361N	P=0.573N	P=0.409N

---

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: 14:51:31

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**

---

DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm

---

Uterus, Cervix, Epithelium (Standard or Longitudinal Evaluation)  
Basal Cell Hyperplasia

---

**LESION RATES**

OVERALL (a)	6/50 (12%)	6/50 (12%)	4/50 (8%)
LITTERS (b)	6/32 (19%)	5/29 (17%)	4/30 (13%)
POLY-3 RATE (c)	6/37.61	6/41.54	4/37.22
POLY-3 PERCENT (g)	16%	14.4%	10.8%
TERMINAL (d)	4/23 (17%)	5/32 (16%)	4/23 (17%)
FIRST INCIDENCE	589	718	744 (T)

---

**STATISTICAL TESTS**

POLY 3	P=0.332N	P=0.550N	P=0.374N
POLY 1.5	P=0.319N	P=0.582N	P=0.369N
POLY 6	P=0.357N	P=0.504N	P=0.386N
RAO-SCOTT	P=0.324N	P=0.533N	P=0.359N
LITTER C-A/FISHERS	P=0.361N	P=0.573N	P=0.409N

---

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: 14:51:31

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**

---

DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm

---

Uterus, Endometrium (Standard Evaluation)  
Hyperplasia, Cystic

---

**LESION RATES**

OVERALL (a)	20/50 (40%)	31/50 (62%)	18/50 (36%)
LITTERS (b)	16/32 (50%)	22/29 (76%)	16/30 (53%)
POLY-3 RATE (c)	20/40.87	31/45.18	18/39.75
POLY-3 PERCENT (g)	48.9%	68.6%	45.3%
TERMINAL (d)	10/23 (44%)	22/32 (69%)	12/23 (52%)
FIRST INCIDENCE	312	322	391

---

**STATISTICAL TESTS**

POLY 3	P=0.233N	P=0.044*	P=0.457N
POLY 1.5	P=0.201N	P=0.029*	P=0.434N
POLY 6	P=0.301N	P=0.077	P=0.504N
RAO-SCOTT	P=0.245N	P=0.054	P=0.447N
LITTER C-A/FISHERS	P=0.497N	P=0.034*	P=0.497

---

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: 14:51:31

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**

---

DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm
<b>Uterus, Endometrium (Longitudinal Evaluation)</b>			
Hyperplasia, Cystic			
<b>LESION RATES</b>			
OVERALL (a)	29/50 (58%)	36/50 (72%)	27/48 (56%)
LITTERS (b)	23/32 (72%)	25/29 (86%)	17/30 (57%)
POLY-3 RATE (c)	29/43.04	36/47.07	27/42.82
POLY-3 PERCENT (g)	67.4%	76.5%	63.1%
TERMINAL (d)	15/23 (65%)	24/32 (75%)	14/23 (61%)
FIRST INCIDENCE	274	322	391
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.269N	P=0.225	P=0.419N
POLY 1.5	P=0.290N	P=0.161	P=0.454N
POLY 6	P=0.279N	P=0.325	P=0.406N
RAO-SCOTT	P=0.294N	P=0.246	P=0.425N
LITTER C-A/FISHERS	P=0.062N	P=0.146	P=0.162N

---

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: 14:51:31

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**

---

DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm

---

Uterus, Endometrium (Standard or Longitudinal Evaluation)  
Hyperplasia, Cystic

---

**LESION RATES**

OVERALL (a)	30/50 (60%)	36/50 (72%)	27/48 (56%)
LITTERS (b)	24/32 (75%)	25/29 (86%)	17/30 (57%)
POLY-3 RATE (c)	30/43.96	36/47.07	27/42.82
POLY-3 PERCENT (g)	68.2%	76.5%	63.1%
TERMINAL (d)	15/23 (65%)	24/32 (75%)	14/23 (61%)
FIRST INCIDENCE	274	322	391

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**STATISTICAL TESTS**

POLY 3	P=0.249N	P=0.252	P=0.384N
POLY 1.5	P=0.260N	P=0.192	P=0.407N
POLY 6	P=0.263N	P=0.351	P=0.376N
RAO-SCOTT	P=0.272N	P=0.272	P=0.394N
LITTER C-A/FISHERS	P=0.036N*	P=0.220	P=0.104N

---

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

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TERMINAL SACRIFICE AT 107 WEEKS**

---

DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm
<b>Uterus, Endometrium (Standard Evaluation)</b>			
<b>Metaplasia</b>			
<b>LESION RATES</b>			
<b>OVERALL (a)</b>	18/50 (36%)	21/50 (42%)	11/50 (22%)
<b>LITTERS (b)</b>	15/32 (47%)	16/29 (55%)	10/30 (33%)
<b>POLY-3 RATE (c)</b>	18/39.96	21/43.55	11/39.04
<b>POLY-3 PERCENT (g)</b>	45.1%	48.2%	28.2%
<b>TERMINAL (d)</b>	9/23 (39%)	17/32 (53%)	7/23 (30%)
<b>FIRST INCIDENCE</b>	574	322	472
<b>STATISTICAL TESTS</b>			
<b>POLY 3</b>	P=0.051N	P=0.471	P=0.087N
<b>POLY 1.5</b>	P=0.045N*	P=0.419	P=0.084N
<b>POLY 6</b>	P=0.068N	P=0.530	P=0.101N
<b>RAO-SCOTT</b>	P=0.056N	P=0.462	P=0.093N
<b>LITTER C-A/FISHERS</b>	P=0.126N	P=0.348	P=0.204N

---



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

---

DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm
<b>Uterus, Endometrium (Longitudinal Evaluation)</b>			
<b>Metaplasia, Squamous</b>			
<b>LESION RATES</b>			
OVERALL (a)	24/50 (48%)	25/50 (50%)	14/48 (29%)
LITTERS (b)	20/32 (63%)	20/29 (69%)	12/30 (40%)
POLY-3 RATE (c)	24/42.15	25/44.60	14/39.35
POLY-3 PERCENT (g)	56.9%	56.1%	35.6%
TERMINAL (d)	12/23 (52%)	19/32 (59%)	7/23 (30%)
FIRST INCIDENCE	312	322	472
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.023N*	P=0.554N	P=0.037N*
POLY 1.5	P=0.022N*	P=0.564	P=0.038N*
POLY 6	P=0.028N*	P=0.485N	P=0.040N*
RAO-SCOTT	P=0.024N*	P=0.542N	P=0.040N*
LITTER C-A/FISHERS	P=0.029N*	P=0.398	P=0.064N

---

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

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

---

DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm

---

Uterus, Endometrium (Standard or Longitudinal Evaluation)  
Metaplasia, Squamous or Metaplasia

---

**LESION RATES**

OVERALL (a)	24/50 (48%)	25/50 (50%)	14/48 (29%)
LITTERS (b)	20/32 (63%)	20/29 (69%)	12/30 (40%)
POLY-3 RATE (c)	24/42.15	25/44.60	14/39.35
POLY-3 PERCENT (g)	56.9%	56.1%	35.6%
TERMINAL (d)	12/23 (52%)	19/32 (59%)	7/23 (30%)
FIRST INCIDENCE	312	322	472

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**STATISTICAL TESTS**

POLY 3	P=0.023N*	P=0.554N	P=0.037N*
POLY 1.5	P=0.022N*	P=0.564	P=0.038N*
POLY 6	P=0.028N*	P=0.485N	P=0.040N*
RAO-SCOTT	P=0.024N*	P=0.542N	P=0.040N*
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Test Type: CHRONIC

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Lab: BAT

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

---

DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm

---

Uterus, Endometrial Glands (Longitudinal Evaluation)  
Hyperplasia

---

**LESION RATES**

OVERALL (a)	1/50 (2%)	5/50 (10%)	0/48 (0%)
LITTERS (b)	1/32 (3%)	5/29 (17%)	0/30 (0%)
POLY-3 RATE (c)	1/36.81	5/41.44	0/36.25
POLY-3 PERCENT (g)	2.7%	12.1%	0%
TERMINAL (d)	1/23 (4%)	5/32 (16%)	0/23 (0%)
FIRST INCIDENCE	744 (T)	744 (T)	---

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**STATISTICAL TESTS**

POLY 3	P=0.224N	P=0.130	P=0.503N
POLY 1.5	P=0.228N	P=0.116	P=0.505N
POLY 6	P=0.223N	P=0.151	P=0.502N
RAO-SCOTT	P=0.279N	P=0.178	P=0.516N
LITTER C-A/FISHERS	P=0.241N	P=0.077	P=0.516N

---

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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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**

---

DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm

---

Uterus, Endometrial Glands (Standard or Longitudinal Evaluation)  
Hyperplasia

---

**LESION RATES**

OVERALL (a)	1/50 (2%)	5/50 (10%)	0/48 (0%)
LITTERS (b)	1/32 (3%)	5/29 (17%)	0/30 (0%)
POLY-3 RATE (c)	1/36.81	5/41.44	0/36.25
POLY-3 PERCENT (g)	2.7%	12.1%	0%
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FIRST INCIDENCE	744 (T)	744 (T)	---

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**STATISTICAL TESTS**

POLY 3	P=0.224N	P=0.130	P=0.503N
POLY 1.5	P=0.228N	P=0.116	P=0.505N
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RAO-SCOTT	P=0.279N	P=0.178	P=0.516N
LITTER C-A/FISHERS	P=0.241N	P=0.077	P=0.516N

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Experiment Number: 20614 - 01

Test Type: CHRONIC

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

DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm
<b>Vagina (Longitudinal Evaluation)</b>			
Hyperplasia, Granular Cell			
<b>LESION RATES</b>			
OVERALL (a)	4/50 (8%)	0/50 (0%)	1/48 (2%)
LITTERS (b)	4/32 (13%)	0/29 (0%)	1/30 (3%)
POLY-3 RATE (c)	4/37.72	0/41.44	1/36.25
POLY-3 PERCENT (g)	10.6%	0%	2.8%
TERMINAL (d)	2/23 (9%)	0/32 (0%)	1/23 (4%)
FIRST INCIDENCE	543	---	744 (T)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.209N	P=0.048N*	P=0.188N
POLY 1.5	P=0.202N	P=0.053N	P=0.188N
POLY 6	P=0.220N	P=0.042N*	P=0.191N
RAO-SCOTT	P=0.234N	P=0.081N	P=0.223N
LITTER C-A/FISHERS	P=0.198N	P=0.069N	P=0.198N

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

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TERMINAL SACRIFICE AT 107 WEEKS**

---

DOSE	Females		
	0/0 ppm	150/300 ppm	300/1000 ppm

---

Vagina (Standard or Longitudinal Evaluation)  
Hyperplasia, Granular Cell

---

**LESION RATES**

OVERALL (a)	4/50 (8%)	0/50 (0%)	1/48 (2%)
LITTERS (b)	4/32 (13%)	0/29 (0%)	1/30 (3%)
POLY-3 RATE (c)	4/37.72	0/41.44	1/36.25
POLY-3 PERCENT (g)	10.6%	0%	2.8%
TERMINAL (d)	2/23 (9%)	0/32 (0%)	1/23 (4%)
FIRST INCIDENCE	543	---	744 (T)

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**STATISTICAL TESTS**

POLY 3	P=0.209N	P=0.048N*	P=0.188N
POLY 1.5	P=0.202N	P=0.053N	P=0.188N
POLY 6	P=0.220N	P=0.042N*	P=0.191N
RAO-SCOTT	P=0.234N	P=0.081N	P=0.223N
LITTER C-A/FISHERS	P=0.198N	P=0.069N	P=0.198N

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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 \*\*\*