

**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:** 14:50:25  
**First Dose M/F:** 10/27/08 / 10/28/08  
**Lab:** BAT

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

<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 004 0/300 ppm	Include 008 0/1000 ppm
<b>Study Gender:</b>	Both		
<b>TDMSE Version:</b>	2.5.0.0_sfh		
<b>PWG Approval Date:</b>	07/25/2018		

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

**FEMALE RATS**

**Organ**

Uterus (Standard Evaluation)

Uterus (Longitudinal Evaluation)

Uterus (Standard or Longitudinal Evaluation)

Uterus, Endometrium (Standard Evaluation)

Uterus, Endometrium (Longitudinal Evaluation)

Uterus, Endometrium (Standard or Longitudinal Evaluation)

**Morphology**

Inflammation

Inflammation

Inflammation

Metaplasia

Metaplasia, Squamous

Metaplasia, Squamous or Metaplasia

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

---

DOSE	Females		
	0/0 ppm	0/300 ppm	0/1000 ppm
<b>Uterus (Standard Evaluation)</b>			
<b>Adenomyosis</b>			
<hr/>			
<b>LESION RATES</b>			
<b>OVERALL (a)</b>	1/50 (2%)	0/49 (0%)	0/49 (0%)
<b>LITTERS (b)</b>	1/32 (3%)	0/29 (0%)	0/31 (0%)
<b>POLY-3 RATE (c)</b>	1/37.11	0/40.88	0/36.88
<b>POLY-3 PERCENT (g)</b>	2.7%	0%	0%
<b>TERMINAL (d)</b>	0/23 (0%)	0/27 (0%)	0/23 (0%)
<b>FIRST INCIDENCE</b>	661	---	---
<hr/>			
<b>STATISTICAL TESTS</b>			
<b>POLY 3</b>	P=0.441N	P=0.481N	P=0.501N
<b>POLY 1.5</b>	P=0.435N	P=0.489N	P=0.505N
<b>POLY 6</b>	P=0.447N	P=0.473N	P=0.495N
<b>RAO-SCOTT</b>	P=0.515N	P=0.580N	P=0.577N
<b>LITTER C-A/FISHERS</b>	P=0.423N	P=0.525N	P=0.508N

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DOSE	Females		
	0/0 ppm	0/300 ppm	0/1000 ppm
<b>Uterus (Longitudinal Evaluation)</b>			
<b>Adenomyosis</b>			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	2/50 (4%)	3/49 (6%)	1/48 (2%)
LITTERS (b)	2/32 (6%)	3/29 (10%)	1/30 (3%)
POLY-3 RATE (c)	2/37.11	3/40.88	1/36.85
POLY-3 PERCENT (g)	5.4%	7.3%	2.7%
TERMINAL (d)	1/23 (4%)	3/27 (11%)	1/23 (4%)
FIRST INCIDENCE	661	744 (T)	744 (T)
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.374N	P=0.544	P=0.502N
POLY 1.5	P=0.379N	P=0.525	P=0.510N
POLY 6	P=0.363N	P=0.562	P=0.490N
RAO-SCOTT	P=0.367N	P=0.523	P=0.471N
LITTER C-A/FISHERS	P=0.381N	P=0.452	P=0.525N

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DOSE	Females		
	0/0 ppm	0/300 ppm	0/1000 ppm
<b>Uterus (Standard or Longitudinal Evaluation)</b>			
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<b>LESION RATES</b>			
OVERALL (a)	2/50 (4%)	3/49 (6%)	1/48 (2%)
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

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DOSE	Females		
	0/0 ppm	0/300 ppm	0/1000 ppm
<b>Uterus (Longitudinal Evaluation)</b>			
<b>Decidual Alteration</b>			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	1/50 (2%)	1/49 (2%)	0/48 (0%)
LITTERS (b)	1/32 (3%)	1/29 (3%)	0/30 (0%)
POLY-3 RATE (c)	1/37.59	1/40.88	0/36.85
POLY-3 PERCENT (g)	2.7%	2.5%	0%
TERMINAL (d)	0/23 (0%)	1/27 (4%)	0/23 (0%)
FIRST INCIDENCE	452	744 (T)	---
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.369N	P=0.742N	P=0.504N
POLY 1.5	P=0.369N	P=0.750N	P=0.507N
POLY 6	P=0.365N	P=0.733N	P=0.497N
RAO-SCOTT	P=0.387N	P=0.725N	P=0.505N
LITTER C-A/FISHERS	P=0.367N	P=0.729	P=0.516N

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TERMINAL SACRIFICE AT 107 WEEKS**

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DOSE	Females		
	0/0 ppm	0/300 ppm	0/1000 ppm
<b>Uterus (Standard or Longitudinal Evaluation)</b>			
<b>Decidual Alteration</b>			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	1/50 (2%)	1/49 (2%)	0/48 (0%)
LITTERS (b)	1/32 (3%)	1/29 (3%)	0/30 (0%)
POLY-3 RATE (c)	1/37.59	1/40.88	0/36.85
POLY-3 PERCENT (g)	2.7%	2.5%	0%
TERMINAL (d)	0/23 (0%)	1/27 (4%)	0/23 (0%)
FIRST INCIDENCE	452	744 (T)	---
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<b>STATISTICAL TESTS</b>			
POLY 3	P=0.369N	P=0.742N	P=0.504N
POLY 1.5	P=0.369N	P=0.750N	P=0.507N
POLY 6	P=0.365N	P=0.733N	P=0.497N
RAO-SCOTT	P=0.387N	P=0.725N	P=0.505N
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	0/300 ppm	0/1000 ppm
<hr/>			
Uterus (Standard Evaluation)			
Dilation			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	2/50 (4%)	3/49 (6%)	3/49 (6%)
LITTERS (b)	2/32 (6%)	3/29 (10%)	3/31 (10%)
POLY-3 RATE (c)	2/37.22	3/41.23	3/37.39
POLY-3 PERCENT (g)	5.4%	7.3%	8%
TERMINAL (d)	1/23 (4%)	2/27 (7%)	1/23 (4%)
FIRST INCIDENCE	625	643	652
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.466	P=0.547	P=0.502
POLY 1.5	P=0.457	P=0.527	P=0.492
POLY 6	P=0.485	P=0.567	P=0.523
RAO-SCOTT	P=0.440	P=0.516	P=0.466
LITTER C-A/FISHERS	P=0.466	P=0.452	P=0.485

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DOSE	Females		
	0/0 ppm	0/300 ppm	0/1000 ppm
<b>Uterus (Longitudinal Evaluation)</b>			
Dilation			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	2/50 (4%)	3/49 (6%)	3/48 (6%)
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FIRST INCIDENCE	625	643	652
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<b>STATISTICAL TESTS</b>			
POLY 3	P=0.466	P=0.547	P=0.502
POLY 1.5	P=0.456	P=0.527	P=0.490
POLY 6	P=0.486	P=0.567	P=0.523
RAO-SCOTT	P=0.441	P=0.516	P=0.467
LITTER C-A/FISHERS	P=0.448	P=0.452	P=0.469

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DOSE	Females		
	0/0 ppm	0/300 ppm	0/1000 ppm
<b>Uterus (Standard or Longitudinal Evaluation)</b>			
Dilation			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	2/50 (4%)	3/49 (6%)	3/48 (6%)
LITTERS (b)	2/32 (6%)	3/29 (10%)	3/30 (10%)
POLY-3 RATE (c)	2/37.22	3/41.23	3/37.36
POLY-3 PERCENT (g)	5.4%	7.3%	8%
TERMINAL (d)	1/23 (4%)	2/27 (7%)	1/23 (4%)
FIRST INCIDENCE	625	643	652
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LITTER C-A/FISHERS	P=0.448	P=0.452	P=0.469

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TERMINAL SACRIFICE AT 107 WEEKS**

---

DOSE	Females		
	0/0 ppm	0/300 ppm	0/1000 ppm
<b>Uterus (Standard Evaluation)</b>			
<b>Hemorrhage</b>			
<hr/>			
<b>LESION RATES</b>			
<b>OVERALL (a)</b>	0/50 (0%)	0/49 (0%)	1/49 (2%)
<b>LITTERS (b)</b>	0/32 (0%)	0/29 (0%)	1/31 (3%)
<b>POLY-3 RATE (c)</b>	0/36.81	0/40.88	1/37.06
<b>POLY-3 PERCENT (g)</b>	0%	0%	2.7%
<b>TERMINAL (d)</b>	0/23 (0%)	0/27 (0%)	0/23 (0%)
<b>FIRST INCIDENCE</b>	---	---	695
<hr/>			
<b>STATISTICAL TESTS</b>			
<b>POLY 3</b>	P=0.303	(e)	P=0.501
<b>POLY 1.5</b>	P=0.299	(e)	P=0.497
<b>POLY 6</b>	P=0.311	(e)	P=0.511
<b>RAO-SCOTT</b>	P=0.414	(e)	P=0.580
<b>LITTER C-A/FISHERS</b>	P=0.302	(e)	P=0.492

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DOSE	Females		
	0/0 ppm	0/300 ppm	0/1000 ppm
<b>Uterus (Longitudinal Evaluation)</b>			
<b>Hemorrhage</b>			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	0/50 (0%)	0/49 (0%)	1/48 (2%)
LITTERS (b)	0/32 (0%)	0/29 (0%)	1/30 (3%)
POLY-3 RATE (c)	0/36.81	0/40.88	1/37.04
POLY-3 PERCENT (g)	0%	0%	2.7%
TERMINAL (d)	0/23 (0%)	0/27 (0%)	0/23 (0%)
FIRST INCIDENCE	---	---	695
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.303	(e)	P=0.501
POLY 1.5	P=0.299	(e)	P=0.496
POLY 6	P=0.311	(e)	P=0.511
RAO-SCOTT	P=0.420	(e)	P=0.584
LITTER C-A/FISHERS	P=0.296	(e)	P=0.484

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<b>Hemorrhage</b>			
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TERMINAL SACRIFICE AT 107 WEEKS**

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DOSE	Females		
	0/0 ppm	0/300 ppm	0/1000 ppm
<b>Uterus (Longitudinal Evaluation)</b> Hyperplasia, Atypical			
<b>LESION RATES</b>			
OVERALL (a)	3/50 (6%)	4/49 (8%)	3/48 (6%)
LITTERS (b)	3/32 (9%)	4/29 (14%)	3/30 (10%)
POLY-3 RATE (c)	3/37.18	4/41.02	3/36.97
POLY-3 PERCENT (g)	8.1%	9.8%	8.1%
TERMINAL (d)	2/23 (9%)	3/27 (11%)	2/23 (9%)
FIRST INCIDENCE	638	707	714
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.585N	P=0.554	P=0.661
POLY 1.5	P=0.590N	P=0.531	P=0.651
POLY 6	P=0.571N	P=0.577	P=0.650N
RAO-SCOTT	P=0.563N	P=0.521	P=0.624
LITTER C-A/FISHERS	P=0.593N	P=0.443	P=0.633

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TERMINAL SACRIFICE AT 107 WEEKS**

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DOSE	Females		
	0/0 ppm	0/300 ppm	0/1000 ppm
<b>Uterus (Standard or Longitudinal Evaluation)</b>			
Hyperplasia, Atypical			
<b>LESION RATES</b>			
OVERALL (a)	3/50 (6%)	4/49 (8%)	3/48 (6%)
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---

DOSE	Females		
	0/0 ppm	0/300 ppm	0/1000 ppm
<b>Uterus (Standard Evaluation)</b>			
<b>Inflammation</b>			
<hr/>			
<b>LESION RATES</b>			
<b>OVERALL (a)</b>	0/50 (0%)	1/49 (2%)	4/49 (8%)
<b>LITTERS (b)</b>	0/32 (0%)	1/29 (3%)	3/31 (10%)
<b>POLY-3 RATE (c)</b>	0/36.81	1/41.23	4/37.71
<b>POLY-3 PERCENT (g)</b>	0%	2.4%	10.6%
<b>TERMINAL (d)</b>	0/23 (0%)	0/27 (0%)	0/23 (0%)
<b>FIRST INCIDENCE</b>	---	643	669
<hr/>			
<b>STATISTICAL TESTS</b>			
<b>POLY 3</b>	P=0.025*	P=0.523	P=0.062
<b>POLY 1.5</b>	P=0.024*	P=0.513	P=0.058
<b>POLY 6</b>	P=0.028*	P=0.533	P=0.070
<b>RAO-SCOTT</b>	P=0.090	P=0.641	P=0.163
<b>LITTER C-A/FISHERS</b>	P=0.070	P=0.475	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: 09/17/2018

Time Report Requested: 14:50:25

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	0/300 ppm	0/1000 ppm
<b>Uterus (Longitudinal Evaluation)</b>			
<b>Inflammation</b>			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	0/50 (0%)	0/49 (0%)	3/48 (6%)
LITTERS (b)	0/32 (0%)	0/29 (0%)	2/30 (7%)
POLY-3 RATE (c)	0/36.81	0/40.88	3/37.58
POLY-3 PERCENT (g)	0%	0%	8%
TERMINAL (d)	0/23 (0%)	0/27 (0%)	0/23 (0%)
FIRST INCIDENCE	---	---	669
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.027*	(e)	P=0.121
POLY 1.5	P=0.026*	(e)	P=0.115
POLY 6	P=0.029*	(e)	P=0.132
RAO-SCOTT	P=0.159	(e)	P=0.315
LITTER C-A/FISHERS	P=0.087	(e)	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: 14:50:25

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	0/300 ppm	0/1000 ppm
<b>Uterus (Standard or Longitudinal Evaluation)</b>			
<b>Inflammation</b>			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	0/50 (0%)	1/49 (2%)	4/48 (8%)
LITTERS (b)	0/32 (0%)	1/29 (3%)	3/30 (10%)
POLY-3 RATE (c)	0/36.81	1/41.23	4/37.68
POLY-3 PERCENT (g)	0%	2.4%	10.6%
TERMINAL (d)	0/23 (0%)	0/27 (0%)	0/23 (0%)
FIRST INCIDENCE	---	643	669
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.024*	P=0.523	P=0.062
POLY 1.5	P=0.023*	P=0.513	P=0.058
POLY 6	P=0.027*	P=0.533	P=0.070
RAO-SCOTT	P=0.091	P=0.641	P=0.165
LITTER C-A/FISHERS	P=0.065	P=0.475	P=0.107

---

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: 14:50:25

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	0/300 ppm	0/1000 ppm
<b>Uterus (Standard Evaluation)</b>			
Inflammation, Acute			
<b>LESION RATES</b>			
OVERALL (a)	0/50 (0%)	0/49 (0%)	1/49 (2%)
LITTERS (b)	0/32 (0%)	0/29 (0%)	1/31 (3%)
POLY-3 RATE (c)	0/36.81	0/40.88	1/36.88
POLY-3 PERCENT (g)	0%	0%	2.7%
TERMINAL (d)	0/23 (0%)	0/27 (0%)	1/23 (4%)
FIRST INCIDENCE	---	---	744 (T)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.302	(e)	P=0.500
POLY 1.5	P=0.299	(e)	P=0.496
POLY 6	P=0.309	(e)	P=0.509
RAO-SCOTT	P=0.422	(e)	P=0.588
LITTER C-A/FISHERS	P=0.302	(e)	P=0.492

---

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: 14:50:25

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	0/300 ppm	0/1000 ppm
<b>Uterus (Longitudinal Evaluation)</b>			
Inflammation, Acute			
<b>LESION RATES</b>			
OVERALL (a)	0/50 (0%)	0/49 (0%)	1/48 (2%)
LITTERS (b)	0/32 (0%)	0/29 (0%)	1/30 (3%)
POLY-3 RATE (c)	0/36.81	0/40.88	1/36.85
POLY-3 PERCENT (g)	0%	0%	2.7%
TERMINAL (d)	0/23 (0%)	0/27 (0%)	1/23 (4%)
FIRST INCIDENCE	---	---	744 (T)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.302	(e)	P=0.500
POLY 1.5	P=0.298	(e)	P=0.495
POLY 6	P=0.309	(e)	P=0.509
RAO-SCOTT	P=0.428	(e)	P=0.592
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: 14:50:25

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	0/300 ppm	0/1000 ppm
<b>Uterus (Standard or Longitudinal Evaluation)</b>			
Inflammation, Acute			
<b>LESION RATES</b>			
OVERALL (a)	0/50 (0%)	0/49 (0%)	1/48 (2%)
LITTERS (b)	0/32 (0%)	0/29 (0%)	1/30 (3%)
POLY-3 RATE (c)	0/36.81	0/40.88	1/36.85
POLY-3 PERCENT (g)	0%	0%	2.7%
TERMINAL (d)	0/23 (0%)	0/27 (0%)	1/23 (4%)
FIRST INCIDENCE	---	---	744 (T)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.302	(e)	P=0.500
POLY 1.5	P=0.298	(e)	P=0.495
POLY 6	P=0.309	(e)	P=0.509
RAO-SCOTT	P=0.428	(e)	P=0.592
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: 14:50:25  
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	0/300 ppm	0/1000 ppm
<b>Uterus (Standard Evaluation)</b> Inflammation, Chronic Active			
<b>LESION RATES</b>			
OVERALL (a)	2/50 (4%)	0/49 (0%)	0/49 (0%)
LITTERS (b)	2/32 (6%)	0/29 (0%)	0/31 (0%)
POLY-3 RATE (c)	2/37.34	0/40.88	0/36.88
POLY-3 PERCENT (g)	5.4%	0%	0%
TERMINAL (d)	0/23 (0%)	0/27 (0%)	0/23 (0%)
FIRST INCIDENCE	625	---	---
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.204N	P=0.217N	P=0.239N
POLY 1.5	P=0.201N	P=0.225N	P=0.243N
POLY 6	P=0.207N	P=0.210N	P=0.232N
RAO-SCOTT	P=0.296N	P=0.336N	P=0.345N
LITTER C-A/FISHERS	P=0.193N	P=0.271N	P=0.254N

---

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

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

Date Report Requested: 09/17/2018  
Time Report Requested: 14:50:25  
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	0/300 ppm	0/1000 ppm
<b>Uterus (Longitudinal Evaluation)</b> Inflammation, Chronic Active			
<b>LESION RATES</b>			
OVERALL (a)	1/50 (2%)	0/49 (0%)	0/48 (0%)
LITTERS (b)	1/32 (3%)	0/29 (0%)	0/30 (0%)
POLY-3 RATE (c)	1/37.22	0/40.88	0/36.85
POLY-3 PERCENT (g)	2.7%	0%	0%
TERMINAL (d)	0/23 (0%)	0/27 (0%)	0/23 (0%)
FIRST INCIDENCE	625	---	---
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.443N	P=0.481N	P=0.502N
POLY 1.5	P=0.438N	P=0.489N	P=0.506N
POLY 6	P=0.449N	P=0.474N	P=0.495N
RAO-SCOTT	P=0.532N	P=0.593N	P=0.593N
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: 14:50:25  
 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	0/300 ppm	0/1000 ppm
<b>Uterus (Standard or Longitudinal Evaluation)</b>			
Inflammation, Chronic Active			
<b>LESION RATES</b>			
OVERALL (a)	2/50 (4%)	0/49 (0%)	0/48 (0%)
LITTERS (b)	2/32 (6%)	0/29 (0%)	0/30 (0%)
POLY-3 RATE (c)	2/37.34	0/40.88	0/36.85
POLY-3 PERCENT (g)	5.4%	0%	0%
TERMINAL (d)	0/23 (0%)	0/27 (0%)	0/23 (0%)
FIRST INCIDENCE	625	---	---
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.206N	P=0.217N	P=0.239N
POLY 1.5	P=0.202N	P=0.225N	P=0.244N
POLY 6	P=0.209N	P=0.210N	P=0.232N
RAO-SCOTT	P=0.300N	P=0.336N	P=0.347N
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: 14:50:25

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	0/300 ppm	0/1000 ppm
<b>Uterus (Standard Evaluation)</b>			
<b>Thrombus</b>			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	0/50 (0%)	1/49 (2%)	0/49 (0%)
LITTERS (b)	0/32 (0%)	1/29 (3%)	0/31 (0%)
POLY-3 RATE (c)	0/36.81	1/40.88	0/36.88
POLY-3 PERCENT (g)	0%	2.5%	0%
TERMINAL (d)	0/23 (0%)	1/27 (4%)	0/23 (0%)
FIRST INCIDENCE	---	744 (T)	---
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.698N	P=0.521	(e)
POLY 1.5	P=0.701N	P=0.512	(e)
POLY 6	P=0.691N	P=0.530	(e)
RAO-SCOTT	P=0.722N	P=0.601	(e)
LITTER C-A/FISHERS	P=0.698N	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

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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	0/300 ppm	0/1000 ppm
<b>Uterus (Longitudinal Evaluation)</b>			
<b>Thrombus</b>			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	0/50 (0%)	1/49 (2%)	0/48 (0%)
LITTERS (b)	0/32 (0%)	1/29 (3%)	0/30 (0%)
POLY-3 RATE (c)	0/36.81	1/40.88	0/36.85
POLY-3 PERCENT (g)	0%	2.5%	0%
TERMINAL (d)	0/23 (0%)	1/27 (4%)	0/23 (0%)
FIRST INCIDENCE	---	744 (T)	---
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.698N	P=0.521	(e)
POLY 1.5	P=0.702N	P=0.512	(e)
POLY 6	P=0.691N	P=0.530	(e)
RAO-SCOTT	P=0.727N	P=0.601	(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

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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	0/300 ppm	0/1000 ppm
<b>Uterus (Standard or Longitudinal Evaluation)</b>			
<b>Thrombus</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/50 (0%)	1/49 (2%)	0/48 (0%)
LITTERS (b)	0/32 (0%)	1/29 (3%)	0/30 (0%)
POLY-3 RATE (c)	0/36.81	1/40.88	0/36.85
POLY-3 PERCENT (g)	0%	2.5%	0%
TERMINAL (d)	0/23 (0%)	1/27 (4%)	0/23 (0%)
FIRST INCIDENCE	---	744 (T)	---
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.698N	P=0.521	(e)
POLY 1.5	P=0.702N	P=0.512	(e)
POLY 6	P=0.691N	P=0.530	(e)
RAO-SCOTT	P=0.727N	P=0.601	(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

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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	0/300 ppm	0/1000 ppm
<b>Uterus, Cervix (Standard Evaluation)</b>			
<b>Hypertrophy</b>			
<b>LESION RATES</b>			
<b>OVERALL (a)</b>	0/50 (0%)	1/49 (2%)	0/49 (0%)
<b>LITTERS (b)</b>	0/32 (0%)	1/29 (3%)	0/31 (0%)
<b>POLY-3 RATE (c)</b>	0/36.81	1/40.88	0/36.88
<b>POLY-3 PERCENT (g)</b>	0%	2.5%	0%
<b>TERMINAL (d)</b>	0/23 (0%)	1/27 (4%)	0/23 (0%)
<b>FIRST INCIDENCE</b>	---	744 (T)	---
<b>STATISTICAL TESTS</b>			
<b>POLY 3</b>	P=0.698N	P=0.521	(e)
<b>POLY 1.5</b>	P=0.701N	P=0.512	(e)
<b>POLY 6</b>	P=0.691N	P=0.530	(e)
<b>RAO-SCOTT</b>	P=0.717N	P=0.591	(e)
<b>LITTER C-A/FISHERS</b>	P=0.698N	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

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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	0/300 ppm	0/1000 ppm
<b>Uterus, Cervix (Standard or Longitudinal Evaluation)</b>			
<b>Hypertrophy</b>			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	0/50 (0%)	1/49 (2%)	0/48 (0%)
LITTERS (b)	0/32 (0%)	1/29 (3%)	0/30 (0%)
POLY-3 RATE (c)	0/36.81	1/40.88	0/36.85
POLY-3 PERCENT (g)	0%	2.5%	0%
TERMINAL (d)	0/23 (0%)	1/27 (4%)	0/23 (0%)
FIRST INCIDENCE	---	744 (T)	---
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.698N	P=0.521	(e)
POLY 1.5	P=0.702N	P=0.512	(e)
POLY 6	P=0.691N	P=0.530	(e)
RAO-SCOTT	P=0.722N	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: 14:50:25

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	0/300 ppm	0/1000 ppm
<b>Uterus, Cervix (Standard Evaluation)</b>			
<b>Inflammation</b>			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	0/50 (0%)	0/49 (0%)	1/49 (2%)
LITTERS (b)	0/32 (0%)	0/29 (0%)	1/31 (3%)
POLY-3 RATE (c)	0/36.81	0/40.88	1/36.88
POLY-3 PERCENT (g)	0%	0%	2.7%
TERMINAL (d)	0/23 (0%)	0/27 (0%)	1/23 (4%)
FIRST INCIDENCE	---	---	744 (T)
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.302	(e)	P=0.500
POLY 1.5	P=0.299	(e)	P=0.496
POLY 6	P=0.309	(e)	P=0.509
RAO-SCOTT	P=0.409	(e)	P=0.576
LITTER C-A/FISHERS	P=0.302	(e)	P=0.492

---

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: 14:50:25

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	0/300 ppm	0/1000 ppm
<b>Uterus, Cervix (Longitudinal Evaluation)</b>			
<b>Inflammation</b>			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	0/50 (0%)	0/49 (0%)	1/48 (2%)
LITTERS (b)	0/32 (0%)	0/29 (0%)	1/30 (3%)
POLY-3 RATE (c)	0/36.81	0/40.88	1/36.85
POLY-3 PERCENT (g)	0%	0%	2.7%
TERMINAL (d)	0/23 (0%)	0/27 (0%)	1/23 (4%)
FIRST INCIDENCE	---	---	744 (T)
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.302	(e)	P=0.500
POLY 1.5	P=0.298	(e)	P=0.495
POLY 6	P=0.309	(e)	P=0.509
RAO-SCOTT	P=0.415	(e)	P=0.580
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

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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	0/300 ppm	0/1000 ppm
<b>Uterus, Cervix (Standard or Longitudinal Evaluation)</b>			
<b>Inflammation</b>			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	0/50 (0%)	0/49 (0%)	1/48 (2%)
LITTERS (b)	0/32 (0%)	0/29 (0%)	1/30 (3%)
POLY-3 RATE (c)	0/36.81	0/40.88	1/36.85
POLY-3 PERCENT (g)	0%	0%	2.7%
TERMINAL (d)	0/23 (0%)	0/27 (0%)	1/23 (4%)
FIRST INCIDENCE	---	---	744 (T)
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.302	(e)	P=0.500
POLY 1.5	P=0.298	(e)	P=0.495
POLY 6	P=0.309	(e)	P=0.509
RAO-SCOTT	P=0.415	(e)	P=0.580
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

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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	0/300 ppm	0/1000 ppm
<b>Uterus, Cervix (Longitudinal Evaluation)</b>			
<b>Stromal Hyperplasia</b>			
<b>LESION RATES</b>			
<b>OVERALL (a)</b>	0/50 (0%)	3/49 (6%)	0/48 (0%)
<b>LITTERS (b)</b>	0/32 (0%)	3/29 (10%)	0/30 (0%)
<b>POLY-3 RATE (c)</b>	0/36.81	3/40.88	0/36.85
<b>POLY-3 PERCENT (g)</b>	0%	7.3%	0%
<b>TERMINAL (d)</b>	0/23 (0%)	3/27 (11%)	0/23 (0%)
<b>FIRST INCIDENCE</b>	---	744 (T)	---
<b>STATISTICAL TESTS</b>			
<b>POLY 3</b>	P=0.460N	P=0.138	(e)
<b>POLY 1.5</b>	P=0.473N	P=0.129	(e)
<b>POLY 6</b>	P=0.440N	P=0.147	(e)
<b>RAO-SCOTT</b>	P=0.515N	P=0.216	(e)
<b>LITTER C-A/FISHERS</b>	P=0.486N	P=0.102	(e)

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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  
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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	0/300 ppm	0/1000 ppm
<b>Uterus, Cervix (Standard or Longitudinal Evaluation)</b>			
<b>Stromal Hyperplasia</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/50 (0%)	3/49 (6%)	0/48 (0%)
LITTERS (b)	0/32 (0%)	3/29 (10%)	0/30 (0%)
POLY-3 RATE (c)	0/36.81	3/40.88	0/36.85
POLY-3 PERCENT (g)	0%	7.3%	0%
TERMINAL (d)	0/23 (0%)	3/27 (11%)	0/23 (0%)
FIRST INCIDENCE	---	744 (T)	---
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.460N	P=0.138	(e)
POLY 1.5	P=0.473N	P=0.129	(e)
POLY 6	P=0.440N	P=0.147	(e)
RAO-SCOTT	P=0.515N	P=0.216	(e)
LITTER C-A/FISHERS	P=0.486N	P=0.102	(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

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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	0/300 ppm	0/1000 ppm
<b>Uterus, Cervix, Epithelium (Longitudinal Evaluation)</b>			
<b>Basal Cell Hyperplasia</b>			
<b>LESION RATES</b>			
OVERALL (a)	6/50 (12%)	4/50 (8%)	2/50 (4%)
LITTERS (b)	6/32 (19%)	4/29 (14%)	2/31 (6%)
POLY-3 RATE (c)	6/37.61	4/42.13	2/37.00
POLY-3 PERCENT (g)	16%	9.5%	5.4%
TERMINAL (d)	4/23 (17%)	3/28 (11%)	0/23 (0%)
FIRST INCIDENCE	589	676	721
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.131N	P=0.298N	P=0.134N
POLY 1.5	P=0.132N	P=0.323N	P=0.140N
POLY 6	P=0.125N	P=0.275N	P=0.124N
RAO-SCOTT	P=0.123N	P=0.288N	P=0.129N
LITTER C-A/FISHERS	P=0.117N	P=0.432N	P=0.138N

---

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: 14:50:25

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	0/300 ppm	0/1000 ppm
<b>Uterus, Cervix, Epithelium (Standard or Longitudinal Evaluation)</b>			
<b>Basal Cell Hyperplasia</b>			
<b>LESION RATES</b>			
OVERALL (a)	6/50 (12%)	4/50 (8%)	2/50 (4%)
LITTERS (b)	6/32 (19%)	4/29 (14%)	2/31 (6%)
POLY-3 RATE (c)	6/37.61	4/42.13	2/37.00
POLY-3 PERCENT (g)	16%	9.5%	5.4%
TERMINAL (d)	4/23 (17%)	3/28 (11%)	0/23 (0%)
FIRST INCIDENCE	589	676	721
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.131N	P=0.298N	P=0.134N
POLY 1.5	P=0.132N	P=0.323N	P=0.140N
POLY 6	P=0.125N	P=0.275N	P=0.124N
RAO-SCOTT	P=0.123N	P=0.288N	P=0.129N
LITTER C-A/FISHERS	P=0.117N	P=0.432N	P=0.138N

---

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

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

---

DOSE	Females		
	0/0 ppm	0/300 ppm	0/1000 ppm
<b>Uterus, Endometrium (Standard Evaluation)</b>			
<b>Hyperplasia</b>			
<hr/>			
<b>LESION RATES</b>			
<b>OVERALL (a)</b>	0/50 (0%)	1/49 (2%)	0/49 (0%)
<b>LITTERS (b)</b>	0/32 (0%)	1/29 (3%)	0/31 (0%)
<b>POLY-3 RATE (c)</b>	0/36.81	1/41.02	0/36.88
<b>POLY-3 PERCENT (g)</b>	0%	2.4%	0%
<b>TERMINAL (d)</b>	0/23 (0%)	0/27 (0%)	0/23 (0%)
<b>FIRST INCIDENCE</b>	---	707	---
<hr/>			
<b>STATISTICAL TESTS</b>			
<b>POLY 3</b>	P=0.698N	P=0.522	(e)
<b>POLY 1.5</b>	P=0.701N	P=0.512	(e)
<b>POLY 6</b>	P=0.691N	P=0.532	(e)
<b>RAO-SCOTT</b>	P=0.721N	P=0.599	(e)
<b>LITTER C-A/FISHERS</b>	P=0.698N	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

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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	0/300 ppm	0/1000 ppm
<b>Uterus, Endometrium (Longitudinal Evaluation)</b>			
<b>Hyperplasia</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/50 (0%)	0/49 (0%)	1/48 (2%)
LITTERS (b)	0/32 (0%)	0/29 (0%)	1/30 (3%)
POLY-3 RATE (c)	0/36.81	0/40.88	1/36.85
POLY-3 PERCENT (g)	0%	0%	2.7%
TERMINAL (d)	0/23 (0%)	0/27 (0%)	1/23 (4%)
FIRST INCIDENCE	---	---	744 (T)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.302	(e)	P=0.500
POLY 1.5	P=0.298	(e)	P=0.495
POLY 6	P=0.309	(e)	P=0.509
RAO-SCOTT	P=0.427	(e)	P=0.591
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

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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	0/300 ppm	0/1000 ppm
<b>Uterus, Endometrium (Standard or Longitudinal Evaluation)</b>			
<b>Hyperplasia</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/50 (0%)	1/49 (2%)	1/48 (2%)
LITTERS (b)	0/32 (0%)	1/29 (3%)	1/30 (3%)
POLY-3 RATE (c)	0/36.81	1/41.02	1/36.85
POLY-3 PERCENT (g)	0%	2.4%	2.7%
TERMINAL (d)	0/23 (0%)	0/27 (0%)	1/23 (4%)
FIRST INCIDENCE	---	707	744 (T)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.451	P=0.522	P=0.500
POLY 1.5	P=0.442	P=0.512	P=0.495
POLY 6	P=0.466	P=0.532	P=0.509
RAO-SCOTT	P=0.456	P=0.537	P=0.505
LITTER C-A/FISHERS	P=0.433	P=0.475	P=0.484

---

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	0/300 ppm	0/1000 ppm
<b>Uterus, Endometrium (Standard Evaluation)</b>			
Hyperplasia, Cystic			
<b>LESION RATES</b>			
OVERALL (a)	20/50 (40%)	22/49 (45%)	18/49 (37%)
LITTERS (b)	16/32 (50%)	17/29 (59%)	15/31 (48%)
POLY-3 RATE (c)	20/40.87	22/43.15	18/39.69
POLY-3 PERCENT (g)	48.9%	51%	45.4%
TERMINAL (d)	10/23 (44%)	14/27 (52%)	11/23 (48%)
FIRST INCIDENCE	312	484	379
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.400N	P=0.512	P=0.460N
POLY 1.5	P=0.400N	P=0.468	P=0.468N
POLY 6	P=0.392N	P=0.549	P=0.446N
RAO-SCOTT	P=0.402N	P=0.507	P=0.455N
LITTER C-A/FISHERS	P=0.448N	P=0.338	P=0.549N



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	0/300 ppm	0/1000 ppm
<b>Uterus, Endometrium (Longitudinal Evaluation)</b>			
Hyperplasia, Cystic			
<b>LESION RATES</b>			
OVERALL (a)	29/50 (58%)	27/49 (55%)	27/48 (56%)
LITTERS (b)	23/32 (72%)	19/29 (66%)	20/30 (67%)
POLY-3 RATE (c)	29/43.04	27/44.15	27/43.82
POLY-3 PERCENT (g)	67.4%	61.2%	61.6%
TERMINAL (d)	15/23 (65%)	17/27 (63%)	13/23 (57%)
FIRST INCIDENCE	274	470	253
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.381N	P=0.345N	P=0.363N
POLY 1.5	P=0.425N	P=0.386N	P=0.415N
POLY 6	P=0.343N	P=0.319N	P=0.322N
RAO-SCOTT	P=0.389N	P=0.359N	P=0.376N
LITTER C-A/FISHERS	P=0.433N	P=0.398N	P=0.433N

---

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

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

---

DOSE	Females		
	0/0 ppm	0/300 ppm	0/1000 ppm
<b>Uterus, Endometrium (Standard or Longitudinal Evaluation)</b>			
Hyperplasia, Cystic			
<b>LESION RATES</b>			
OVERALL (a)	30/50 (60%)	27/49 (55%)	27/48 (56%)
LITTERS (b)	24/32 (75%)	19/29 (66%)	20/30 (67%)
POLY-3 RATE (c)	30/43.96	27/44.15	27/43.82
POLY-3 PERCENT (g)	68.2%	61.2%	61.6%
TERMINAL (d)	15/23 (65%)	17/27 (63%)	13/23 (57%)
FIRST INCIDENCE	274	470	253
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.349N	P=0.312N	P=0.329N
POLY 1.5	P=0.384N	P=0.341N	P=0.369N
POLY 6	P=0.316N	P=0.291N	P=0.294N
RAO-SCOTT	P=0.362N	P=0.329N	P=0.345N
LITTER C-A/FISHERS	P=0.345N	P=0.298N	P=0.329N

---

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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Lab: BAT

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

---

DOSE	Females		
	0/0 ppm	0/300 ppm	0/1000 ppm
<b>Uterus, Endometrium (Standard Evaluation)</b>			
<b>Metaplasia</b>			
<b>LESION RATES</b>			
<b>OVERALL (a)</b>	18/50 (36%)	17/49 (35%)	10/49 (20%)
<b>LITTERS (b)</b>	15/32 (47%)	15/29 (52%)	10/31 (32%)
<b>POLY-3 RATE (c)</b>	18/39.96	17/43.75	10/38.86
<b>POLY-3 PERCENT (g)</b>	45.1%	38.9%	25.7%
<b>TERMINAL (d)</b>	9/23 (39%)	9/27 (33%)	6/23 (26%)
<b>FIRST INCIDENCE</b>	574	470	379
<b>STATISTICAL TESTS</b>			
<b>POLY 3</b>	P=0.049N*	P=0.361N	P=0.055N
<b>POLY 1.5</b>	P=0.050N*	P=0.414N	P=0.060N
<b>POLY 6</b>	P=0.047N*	P=0.324N	P=0.051N
<b>RAO-SCOTT</b>	P=0.049N*	P=0.354N	P=0.058N
<b>LITTER C-A/FISHERS</b>	P=0.115N	P=0.452	P=0.177N

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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	0/300 ppm	0/1000 ppm
<b>Uterus, Endometrium (Longitudinal Evaluation)</b>			
<b>Metaplasia, Squamous</b>			
<b>LESION RATES</b>			
OVERALL (a)	24/50 (48%)	19/49 (39%)	11/48 (23%)
LITTERS (b)	20/32 (63%)	17/29 (59%)	10/30 (33%)
POLY-3 RATE (c)	24/42.15	19/43.75	11/38.92
POLY-3 PERCENT (g)	56.9%	43.4%	28.3%
TERMINAL (d)	12/23 (52%)	11/27 (41%)	6/23 (26%)
FIRST INCIDENCE	312	470	379
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.007N**	P=0.143N	P=0.006N**
POLY 1.5	P=0.007N**	P=0.172N	P=0.007N**
POLY 6	P=0.007N**	P=0.126N	P=0.006N**
RAO-SCOTT	P=0.008N**	P=0.143N	P=0.008N**
LITTER C-A/FISHERS	P=0.012N*	P=0.481N	P=0.020N*

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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

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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	0/300 ppm	0/1000 ppm
<b>Uterus, Endometrium (Standard or Longitudinal Evaluation)</b>			
<b>Metaplasia, Squamous or Metaplasia</b>			
<b>LESION RATES</b>			
OVERALL (a)	24/50 (48%)	19/49 (39%)	11/48 (23%)
LITTERS (b)	20/32 (63%)	17/29 (59%)	10/30 (33%)
POLY-3 RATE (c)	24/42.15	19/43.75	11/38.92
POLY-3 PERCENT (g)	56.9%	43.4%	28.3%
TERMINAL (d)	12/23 (52%)	11/27 (41%)	6/23 (26%)
FIRST INCIDENCE	312	470	379
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.007N**	P=0.143N	P=0.006N**
POLY 1.5	P=0.007N**	P=0.172N	P=0.007N**
POLY 6	P=0.007N**	P=0.126N	P=0.006N**
RAO-SCOTT	P=0.008N**	P=0.143N	P=0.008N**
LITTER C-A/FISHERS	P=0.012N*	P=0.481N	P=0.020N*

---

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: 14:50:25

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	0/300 ppm	0/1000 ppm
<b>Uterus, Endometrial Glands (Longitudinal Evaluation)</b>			
<b>Hyperplasia</b>			
<b>LESION RATES</b>			
<b>OVERALL (a)</b>	1/50 (2%)	2/49 (4%)	1/48 (2%)
<b>LITTERS (b)</b>	1/32 (3%)	2/29 (7%)	1/30 (3%)
<b>POLY-3 RATE (c)</b>	1/36.81	2/41.32	1/36.95
<b>POLY-3 PERCENT (g)</b>	2.7%	4.8%	2.7%
<b>TERMINAL (d)</b>	1/23 (4%)	0/27 (0%)	0/23 (0%)
<b>FIRST INCIDENCE</b>	744 (T)	659	718
<b>STATISTICAL TESTS</b>			
<b>POLY 3</b>	P=0.610N	P=0.540	P=0.760N
<b>POLY 1.5</b>	P=0.615N	P=0.523	P=0.756
<b>POLY 6</b>	P=0.600N	P=0.560	P=0.751N
<b>RAO-SCOTT</b>	P=0.589N	P=0.512	P=0.716N
<b>LITTER C-A/FISHERS</b>	P=0.619N	P=0.463	P=0.738

---

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**

---

DOSE	Females		
	0/0 ppm	0/300 ppm	0/1000 ppm
<b>Uterus, Endometrial Glands (Standard or Longitudinal Evaluation)</b>			
<b>Hyperplasia</b>			
<b>LESION RATES</b>			
OVERALL (a)	1/50 (2%)	2/49 (4%)	1/48 (2%)
LITTERS (b)	1/32 (3%)	2/29 (7%)	1/30 (3%)
POLY-3 RATE (c)	1/36.81	2/41.32	1/36.95
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POLY 1.5	P=0.615N	P=0.523	P=0.756
POLY 6	P=0.600N	P=0.560	P=0.751N
RAO-SCOTT	P=0.589N	P=0.512	P=0.716N
LITTER C-A/FISHERS	P=0.619N	P=0.463	P=0.738

---

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  
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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	0/300 ppm	0/1000 ppm
<b>Vagina (Longitudinal Evaluation)</b>			
Hyperplasia, Granular Cell			
<b>LESION RATES</b>			
OVERALL (a)	4/50 (8%)	7/49 (14%)	2/48 (4%)
LITTERS (b)	4/32 (13%)	6/29 (21%)	2/30 (7%)
POLY-3 RATE (c)	4/37.72	7/41.39	2/37.04
POLY-3 PERCENT (g)	10.6%	16.9%	5.4%
TERMINAL (d)	2/23 (9%)	4/27 (15%)	1/23 (4%)
FIRST INCIDENCE	543	659	695
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.215N	P=0.314	P=0.344N
POLY 1.5	P=0.222N	P=0.291	P=0.352N
POLY 6	P=0.201N	P=0.340	P=0.329N
RAO-SCOTT	P=0.237N	P=0.326	P=0.347N
LITTER C-A/FISHERS	P=0.242N	P=0.303	P=0.367N

---



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

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

---

DOSE	Females		
	0/0 ppm	0/300 ppm	0/1000 ppm
<b>Vagina (Standard or Longitudinal Evaluation)</b>			
Hyperplasia, Granular Cell			
<b>LESION RATES</b>			
OVERALL (a)	4/50 (8%)	7/49 (14%)	2/48 (4%)
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FIRST INCIDENCE	543	659	695
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POLY 3	P=0.215N	P=0.314	P=0.344N
POLY 1.5	P=0.222N	P=0.291	P=0.352N
POLY 6	P=0.201N	P=0.340	P=0.329N
RAO-SCOTT	P=0.237N	P=0.326	P=0.347N
LITTER C-A/FISHERS	P=0.242N	P=0.303	P=0.367N

---

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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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 \*\*\*