

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

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
Perfluorooctanoic Acid  
**CAS Number:** 335-67-1

**Date Report Requested:** 03/09/2022  
**Time Report Requested:** 14:49:17  
**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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**FOR ALL DOSES THE TUMOR RATES IN THE FOLLOWING TISSUES/ORGANS ARE BASED ON NUMBER OF TISSUES EXAMINED.  
IN OTHER TISSUES/ORGANS RATES ARE BASED ON THE NUMBER OF ANIMALS NECROPSIED.**

Uterus (Longitudinal Evaluation)

Uterus (Standard Evaluation)

Uterus (Standard or Longitudinal Evaluation)

Vagina (Longitudinal Evaluation)

Vagina (Standard Evaluation)

Vagina (Standard or Longitudinal Evaluation)

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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 (Standard Evaluation)

**Morphology**

Carcinoma

Carcinoma

Carcinoma

Carcinoma or Adenoma

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Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS 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>Adenoma</b>			
<hr/>			
<b>TUMOR 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=0.717N	P=0.591	(e)
LITTER C-A/FISHERS	P=0.698N	P=0.475	(e)

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS 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>Adenoma</b>			
<hr/>			
<b>TUMOR 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)	1/36.81	0/40.88	0/36.85
POLY-3 PERCENT (g)	2.7%	0%	0%
TERMINAL (d)	1/23 (4%)	0/27 (0%)	0/23 (0%)
FIRST INCIDENCE	744 (T)	---	---
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.445N	P=0.479N	P=0.500N
POLY 1.5	P=0.438N	P=0.488N	P=0.505N
POLY 6	P=0.452N	P=0.470N	P=0.491N
RAO-SCOTT	P=0.521N	P=0.578N	P=0.579N
LITTER C-A/FISHERS	P=0.429N	P=0.525N	P=0.516N

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS 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>Adenoma</b>			
<hr/>			
<b>TUMOR RATES</b>	#	#	#
OVERALL (a)	1/50 (2%)	1/49 (2%)	0/49 (0%)
LITTERS (b)	1/32 (3%)	1/29 (3%)	0/31 (0%)
POLY-3 RATE (c)	1/36.81	1/40.88	0/36.88
POLY-3 PERCENT (g)	2.7%	2.5%	0%
TERMINAL (d)	1/23 (4%)	1/27 (4%)	0/23 (0%)
FIRST INCIDENCE	744 (T)	744 (T)	---
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.366N	P=0.737N	P=0.500N
POLY 1.5	P=0.367N	P=0.747N	P=0.504N
POLY 6	P=0.362N	P=0.726N	P=0.491N
RAO-SCOTT	P=0.376N	P=0.717N	P=0.489N
LITTER C-A/FISHERS	P=0.359N	P=0.729	P=0.508N

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS 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>Carcinoma</b>			
<hr/>			
<b>TUMOR RATES</b>	#	#	#
OVERALL (a)	0/50 (0%)	1/49 (2%)	4/49 (8%)
LITTERS (b)	0/32 (0%)	1/29 (3%)	4/31 (13%)
POLY-3 RATE (c)	0/36.81	1/40.88	4/37.30
POLY-3 PERCENT (g)	0%	2.5%	10.7%
TERMINAL (d)	0/23 (0%)	1/27 (4%)	1/23 (4%)
FIRST INCIDENCE	---	744 (T)	652
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.024*	P=0.521	P=0.060
POLY 1.5	P=0.023*	P=0.512	P=0.058
POLY 6	P=0.026*	P=0.530	P=0.067
RAO-SCOTT	P=0.049*	P=0.548	P=0.102
LITTER C-A/FISHERS	P=0.026*	P=0.475	P=0.053

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS 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>Carcinoma</b>			
<hr/>			
<b>TUMOR RATES</b>	#	#	#
OVERALL (a)	1/50 (2%)	5/49 (10%)	7/48 (15%)
LITTERS (b)	1/32 (3%)	5/29 (17%)	6/30 (20%)
POLY-3 RATE (c)	1/36.81	5/41.06	7/37.28
POLY-3 PERCENT (g)	2.7%	12.2%	18.8%
TERMINAL (d)	1/23 (4%)	4/27 (15%)	4/23 (17%)
FIRST INCIDENCE	744 (T)	695	652
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.037*	P=0.127	P=0.029*
POLY 1.5	P=0.034*	P=0.115	P=0.027*
POLY 6	P=0.043*	P=0.141	P=0.034*
RAO-SCOTT	P=0.055	P=0.159	P=0.050*
LITTER C-A/FISHERS	P=0.066	P=0.077	P=0.043*



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TERMINAL SACRIFICE AT 107 WEEKS**

DOSE	Females		
	0/0 ppm	0/300 ppm	0/1000 ppm
<b>Uterus (Standard or Longitudinal Evaluation)</b>			
<b>Carcinoma</b>			
<hr/>			
<b>TUMOR RATES</b>	#	#	#
OVERALL (a)	1/50 (2%)	5/49 (10%)	7/49 (14%)
LITTERS (b)	1/32 (3%)	5/29 (17%)	6/31 (19%)
POLY-3 RATE (c)	1/36.81	5/41.06	7/37.30
POLY-3 PERCENT (g)	2.7%	12.2%	18.8%
TERMINAL (d)	1/23 (4%)	4/27 (15%)	4/23 (17%)
FIRST INCIDENCE	744 (T)	695	652
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.037*	P=0.127	P=0.029*
POLY 1.5	P=0.035*	P=0.115	P=0.027*
POLY 6	P=0.043*	P=0.141	P=0.034*
RAO-SCOTT	P=0.054	P=0.159	P=0.050*
LITTER C-A/FISHERS	P=0.075	P=0.077	P=0.047*

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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>Carcinoma or Adenoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL (a)	0/50 (0%)	2/49 (4%)	4/49 (8%)
LITTERS (b)	0/32 (0%)	2/29 (7%)	4/31 (13%)
POLY-3 RATE (c)	0/36.81	2/40.88	4/37.30
POLY-3 PERCENT (g)	0%	4.9%	10.7%
TERMINAL (d)	0/23 (0%)	2/27 (7%)	1/23 (4%)
FIRST INCIDENCE	---	744 (T)	652
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.049*	P=0.261	P=0.060
POLY 1.5	P=0.046*	P=0.250	P=0.058
POLY 6	P=0.054	P=0.272	P=0.067
RAO-SCOTT	P=0.068	P=0.285	P=0.086
LITTER C-A/FISHERS	P=0.049*	P=0.222	P=0.053

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TERMINAL SACRIFICE AT 107 WEEKS**

DOSE	Females		
	0/0 ppm	0/300 ppm	0/1000 ppm
<b>Uterus (Longitudinal Evaluation)</b>			
<b>Carcinoma or Adenoma</b>			
<hr/>			
<b>TUMOR RATES</b>	#	#	#
OVERALL (a)	2/50 (4%)	5/49 (10%)	7/48 (15%)
LITTERS (b)	2/32 (6%)	5/29 (17%)	6/30 (20%)
POLY-3 RATE (c)	2/36.81	5/41.06	7/37.28
POLY-3 PERCENT (g)	5.4%	12.2%	18.8%
TERMINAL (d)	2/23 (9%)	4/27 (15%)	4/23 (17%)
FIRST INCIDENCE	744 (T)	695	652
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.075	P=0.261	P=0.078
POLY 1.5	P=0.071	P=0.241	P=0.072
POLY 6	P=0.085	P=0.284	P=0.089
RAO-SCOTT	P=0.094	P=0.280	P=0.102
LITTER C-A/FISHERS	P=0.124	P=0.173	P=0.108

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TERMINAL SACRIFICE AT 107 WEEKS**

DOSE	Females		
	0/0 ppm	0/300 ppm	0/1000 ppm
<b>Uterus (Standard or Longitudinal Evaluation)</b>			
<b>Carcinoma or Adenoma</b>			
<hr/>			
<b>TUMOR RATES</b>	#	#	#
OVERALL (a)	2/50 (4%)	5/49 (10%)	7/49 (14%)
LITTERS (b)	2/32 (6%)	5/29 (17%)	6/31 (19%)
POLY-3 RATE (c)	2/36.81	5/41.06	7/37.30
POLY-3 PERCENT (g)	5.4%	12.2%	18.8%
TERMINAL (d)	2/23 (9%)	4/27 (15%)	4/23 (17%)
FIRST INCIDENCE	744 (T)	695	652
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.076	P=0.261	P=0.078
POLY 1.5	P=0.072	P=0.241	P=0.073
POLY 6	P=0.086	P=0.284	P=0.089
RAO-SCOTT	P=0.094	P=0.280	P=0.101
LITTER C-A/FISHERS	P=0.138	P=0.173	P=0.118

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS 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>Lymphoma</b>			
<b>TUMOR RATES</b>			
	#	#	#
OVERALL (a)	1/50 (2%)	1/49 (2%)	0/49 (0%)
LITTERS (b)	1/32 (3%)	1/29 (3%)	0/31 (0%)
POLY-3 RATE (c)	1/37.44	1/41.38	0/36.88
POLY-3 PERCENT (g)	2.7%	2.4%	0%
TERMINAL (d)	0/23 (0%)	0/27 (0%)	0/23 (0%)
FIRST INCIDENCE	533	589	---
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.369N	P=0.738N	P=0.503N
POLY 1.5	P=0.368N	P=0.748N	P=0.506N
POLY 6	P=0.367N	P=0.728N	P=0.497N
RAO-SCOTT	P=0.388N	P=0.724N	P=0.506N
LITTER C-A/FISHERS	P=0.359N	P=0.729	P=0.508N

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TERMINAL SACRIFICE AT 107 WEEKS**

DOSE	Females		
	0/0 ppm	0/300 ppm	0/1000 ppm
<b>Uterus (Longitudinal Evaluation)</b>			
<b>Lymphoma</b>			
<hr/>			
<b>TUMOR 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)	1/37.44	1/41.38	0/36.85
POLY-3 PERCENT (g)	2.7%	2.4%	0%
TERMINAL (d)	0/23 (0%)	0/27 (0%)	0/23 (0%)
FIRST INCIDENCE	533	589	---
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.369N	P=0.738N	P=0.503N
POLY 1.5	P=0.369N	P=0.748N	P=0.507N
POLY 6	P=0.367N	P=0.728N	P=0.497N
RAO-SCOTT	P=0.391N	P=0.724N	P=0.509N
LITTER C-A/FISHERS	P=0.367N	P=0.729	P=0.516N

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS 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>Lymphoma</b>			
<b>TUMOR RATES</b>			
	#	#	#
OVERALL (a)	1/50 (2%)	1/49 (2%)	0/49 (0%)
LITTERS (b)	1/32 (3%)	1/29 (3%)	0/31 (0%)
POLY-3 RATE (c)	1/37.44	1/41.38	0/36.88
POLY-3 PERCENT (g)	2.7%	2.4%	0%
TERMINAL (d)	0/23 (0%)	0/27 (0%)	0/23 (0%)
FIRST INCIDENCE	533	589	---
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.369N	P=0.738N	P=0.503N
POLY 1.5	P=0.368N	P=0.748N	P=0.506N
POLY 6	P=0.367N	P=0.728N	P=0.497N
RAO-SCOTT	P=0.388N	P=0.724N	P=0.506N
LITTER C-A/FISHERS	P=0.359N	P=0.729	P=0.508N

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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>Polyp, Stromal</b>			
<hr/>			
<b>TUMOR RATES</b>	#	#	#
OVERALL (a)	6/50 (12%)	4/49 (8%)	5/49 (10%)
LITTERS (b)	5/32 (16%)	4/29 (14%)	5/31 (16%)
POLY-3 RATE (c)	6/37.44	4/41.06	5/37.09
POLY-3 PERCENT (g)	16%	9.7%	13.5%
TERMINAL (d)	4/23 (17%)	3/27 (11%)	3/23 (13%)
FIRST INCIDENCE	574	695	695
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.544N	P=0.310N	P=0.507N
POLY 1.5	P=0.544N	P=0.336N	P=0.518N
POLY 6	P=0.533N	P=0.286N	P=0.482N
RAO-SCOTT	P=0.527N	P=0.319N	P=0.494N
LITTER C-A/FISHERS	P=0.552	P=0.565N	P=0.613



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Route: DOSED FEED

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 03/09/2022

Time Report Requested: 14:49:17

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS 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>Polyp, Stromal</b>			
<hr/>			
<b>TUMOR RATES</b>	#	#	#
OVERALL (a)	16/50 (32%)	11/49 (22%)	13/48 (27%)
LITTERS (b)	13/32 (41%)	10/29 (34%)	12/30 (40%)
POLY-3 RATE (c)	16/38.62	11/42.02	13/37.77
POLY-3 PERCENT (g)	41.4%	26.2%	34.4%
TERMINAL (d)	9/23 (39%)	9/27 (33%)	9/23 (39%)
FIRST INCIDENCE	574	250	540
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.443N	P=0.107N	P=0.343N
POLY 1.5	P=0.446N	P=0.132N	P=0.363N
POLY 6	P=0.426N	P=0.094N	P=0.318N
RAO-SCOTT	P=0.429N	P=0.123N	P=0.345N
LITTER C-A/FISHERS	P=0.548	P=0.410N	P=0.583N

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 03/09/2022

Time Report Requested: 14:49:17

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS 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>Polyp, Stromal</b>			
<b>TUMOR RATES</b>			
	#	#	#
<b>OVERALL (a)</b>	16/50 (32%)	11/49 (22%)	13/49 (27%)
<b>LITTERS (b)</b>	13/32 (41%)	10/29 (34%)	12/31 (39%)
<b>POLY-3 RATE (c)</b>	16/38.62	11/42.02	13/37.80
<b>POLY-3 PERCENT (g)</b>	41.4%	26.2%	34.4%
<b>TERMINAL (d)</b>	9/23 (39%)	9/27 (33%)	9/23 (39%)
<b>FIRST INCIDENCE</b>	574	250	540
<b>STATISTICAL TESTS</b>			
<b>POLY 3</b>	P=0.439N	P=0.107N	P=0.342N
<b>POLY 1.5</b>	P=0.439N	P=0.132N	P=0.358N
<b>POLY 6</b>	P=0.424N	P=0.094N	P=0.318N
<b>RAO-SCOTT</b>	P=0.427N	P=0.123N	P=0.343N
<b>LITTER C-A/FISHERS</b>	P=0.550N	P=0.410N	P=0.541N

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Perfluorooctanoic Acid  
 CAS Number: 335-67-1

Date Report Requested: 03/09/2022  
 Time Report Requested: 14:49:17  
 First Dose M/F: 10/27/08 / 10/28/08  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS 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>Sarcoma Stromal</b>			
<b>TUMOR 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	1/37.15
POLY-3 PERCENT (g)	0%	0%	2.7%
TERMINAL (d)	0/23 (0%)	0/27 (0%)	0/23 (0%)
FIRST INCIDENCE	---	---	669
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.303	(e)	P=0.502
POLY 1.5	P=0.300	(e)	P=0.497
POLY 6	P=0.311	(e)	P=0.511
RAO-SCOTT	P=0.414	(e)	P=0.580
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

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 03/09/2022

Time Report Requested: 14:49:17

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS 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>Sarcoma Stromal</b>			
<hr/>			
<b>TUMOR RATES</b>	#	#	#
OVERALL (a)	1/50 (2%)	0/49 (0%)	2/48 (4%)
LITTERS (b)	1/32 (3%)	0/29 (0%)	2/30 (7%)
POLY-3 RATE (c)	1/37.07	0/40.88	2/37.12
POLY-3 PERCENT (g)	2.7%	0%	5.4%
TERMINAL (d)	0/23 (0%)	0/27 (0%)	1/23 (4%)
FIRST INCIDENCE	673	---	669
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.301	P=0.481N	P=0.501
POLY 1.5	P=0.300	P=0.489N	P=0.492
POLY 6	P=0.305	P=0.472N	P=0.515
RAO-SCOTT	P=0.338	P=0.502N	P=0.505
LITTER C-A/FISHERS	P=0.301	P=0.525N	P=0.475

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 03/09/2022

Time Report Requested: 14:49:17

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS 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>Sarcoma Stromal</b>			
<b>TUMOR RATES</b>			
	#	#	#
OVERALL (a)	1/50 (2%)	0/49 (0%)	2/49 (4%)
LITTERS (b)	1/32 (3%)	0/29 (0%)	2/31 (6%)
POLY-3 RATE (c)	1/37.07	0/40.88	2/37.15
POLY-3 PERCENT (g)	2.7%	0%	5.4%
TERMINAL (d)	0/23 (0%)	0/27 (0%)	1/23 (4%)
FIRST INCIDENCE	673	---	669
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.302	P=0.481N	P=0.501
POLY 1.5	P=0.302	P=0.489N	P=0.493
POLY 6	P=0.307	P=0.472N	P=0.515
RAO-SCOTT	P=0.335	P=0.502N	P=0.503
LITTER C-A/FISHERS	P=0.311	P=0.525N	P=0.488

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 03/09/2022

Time Report Requested: 14:49:17

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS 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>Sarcoma Stromal or Polyp Stromal</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL (a)	6/50 (12%)	4/49 (8%)	6/49 (12%)
LITTERS (b)	5/32 (16%)	4/29 (14%)	5/31 (16%)
POLY-3 RATE (c)	6/37.44	4/41.06	6/37.36
POLY-3 PERCENT (g)	16%	9.7%	16.1%
TERMINAL (d)	4/23 (17%)	3/27 (11%)	3/23 (13%)
FIRST INCIDENCE	574	695	669
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.497	P=0.310N	P=0.622
POLY 1.5	P=0.493	P=0.336N	P=0.607
POLY 6	P=0.516	P=0.286N	P=0.596N
RAO-SCOTT	P=0.503	P=0.334N	P=0.606
LITTER C-A/FISHERS	P=0.552	P=0.565N	P=0.613

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 03/09/2022

Time Report Requested: 14:49:17

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

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

---

**Uterus (Longitudinal Evaluation)**  
**Sarcoma Stromal or Polyp Stromal**

---

TUMOR RATES	#	#	#
OVERALL (a)	16/50 (32%)	11/49 (22%)	15/48 (31%)
LITTERS (b)	13/32 (41%)	10/29 (34%)	13/30 (43%)
POLY-3 RATE (c)	16/38.62	11/42.02	15/38.04
POLY-3 PERCENT (g)	41.4%	26.2%	39.4%
TERMINAL (d)	9/23 (39%)	9/27 (33%)	10/23 (44%)
FIRST INCIDENCE	574	250	540

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**STATISTICAL TESTS**

POLY 3	P=0.484	P=0.107N	P=0.522N
POLY 1.5	P=0.476	P=0.132N	P=0.543N
POLY 6	P=0.508	P=0.094N	P=0.488N
RAO-SCOTT	P=0.491	P=0.127N	P=0.512N
LITTER C-A/FISHERS	P=0.431	P=0.410N	P=0.516

---

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 03/09/2022

Time Report Requested: 14:49:17

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS 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>Sarcoma Stromal or Polyp Stromal</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL (a)	16/50 (32%)	11/49 (22%)	15/49 (31%)
LITTERS (b)	13/32 (41%)	10/29 (34%)	13/31 (42%)
POLY-3 RATE (c)	16/38.62	11/42.02	15/38.07
POLY-3 PERCENT (g)	41.4%	26.2%	39.4%
TERMINAL (d)	9/23 (39%)	9/27 (33%)	10/23 (44%)
FIRST INCIDENCE	574	250	540
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.487	P=0.107N	P=0.521N
POLY 1.5	P=0.484	P=0.132N	P=0.538N
POLY 6	P=0.511	P=0.094N	P=0.488N
RAO-SCOTT	P=0.491	P=0.126N	P=0.510N
LITTER C-A/FISHERS	P=0.477	P=0.410N	P=0.560



Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 03/09/2022

Time Report Requested: 14:49:17

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS 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>Squamous Cell Carcinoma</b>			
<b>TUMOR 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	1/37.12
POLY-3 PERCENT (g)	0%	0%	2.7%
TERMINAL (d)	0/23 (0%)	0/27 (0%)	0/23 (0%)
FIRST INCIDENCE	---	---	669
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.303	(e)	P=0.502
POLY 1.5	P=0.299	(e)	P=0.496
POLY 6	P=0.312	(e)	P=0.511
RAO-SCOTT	P=0.422	(e)	P=0.586
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

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 03/09/2022

Time Report Requested: 14:49:17

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS 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>Squamous Cell Carcinoma</b>			
<b>TUMOR 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	1/37.15
POLY-3 PERCENT (g)	0%	0%	2.7%
TERMINAL (d)	0/23 (0%)	0/27 (0%)	0/23 (0%)
FIRST INCIDENCE	---	---	669
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.303	(e)	P=0.502
POLY 1.5	P=0.300	(e)	P=0.497
POLY 6	P=0.311	(e)	P=0.511
RAO-SCOTT	P=0.417	(e)	P=0.582
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

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 03/09/2022

Time Report Requested: 14:49:17

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

DOSE	Females		
	0/0 ppm	0/300 ppm	0/1000 ppm
<b>Vagina (Longitudinal Evaluation)</b>			
<b>Granular Cell Tumor</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL (a)	2/50 (4%)	1/49 (2%)	4/48 (8%)
LITTERS (b)	2/32 (6%)	1/29 (3%)	4/30 (13%)
POLY-3 RATE (c)	2/36.96	1/40.88	4/37.64
POLY-3 PERCENT (g)	5.4%	2.5%	10.6%
TERMINAL (d)	1/23 (4%)	1/27 (4%)	2/23 (9%)
FIRST INCIDENCE	705	744 (T)	505
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.189	P=0.465N	P=0.344
POLY 1.5	P=0.185	P=0.480N	P=0.330
POLY 6	P=0.197	P=0.450N	P=0.366
RAO-SCOTT	P=0.210	P=0.456N	P=0.345
LITTER C-A/FISHERS	P=0.182	P=0.537N	P=0.305

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 03/09/2022

Time Report Requested: 14:49:17

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

---

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

---

Vagina (Standard or Longitudinal Evaluation)  
Granular Cell Tumor

---

TUMOR RATES	#	#	#
OVERALL (a)	2/50 (4%)	1/49 (2%)	4/49 (8%)
LITTERS (b)	2/32 (6%)	1/29 (3%)	4/31 (13%)
POLY-3 RATE (c)	2/36.96	1/40.88	4/37.67
POLY-3 PERCENT (g)	5.4%	2.5%	10.6%
TERMINAL (d)	1/23 (4%)	1/27 (4%)	2/23 (9%)
FIRST INCIDENCE	705	744 (T)	505

---

**STATISTICAL TESTS**

POLY 3	P=0.190	P=0.465N	P=0.344
POLY 1.5	P=0.188	P=0.480N	P=0.332
POLY 6	P=0.198	P=0.450N	P=0.366
RAO-SCOTT	P=0.209	P=0.456N	P=0.344
LITTER C-A/FISHERS	P=0.194	P=0.537N	P=0.321

---

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Perfluorooctanoic Acid  
 CAS Number: 335-67-1

Date Report Requested: 03/09/2022  
 Time Report Requested: 14:49:17  
 First Dose M/F: 10/27/08 / 10/28/08  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 107 WEEKS**

DOSE	Females		
	0/0 ppm	0/300 ppm	0/1000 ppm
<b>Vagina (Standard Evaluation)</b>			
<b>Squamous Cell Carcinoma</b>			
<b>TUMOR 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	1/37.15
POLY-3 PERCENT (g)	0%	0%	2.7%
TERMINAL (d)	0/23 (0%)	0/27 (0%)	0/23 (0%)
FIRST INCIDENCE	---	---	669
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.303	(e)	P=0.502
POLY 1.5	P=0.300	(e)	P=0.497
POLY 6	P=0.311	(e)	P=0.511
RAO-SCOTT	P=0.414	(e)	P=0.580
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

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 03/09/2022

Time Report Requested: 14:49:17

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS 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>			
<b>Squamous Cell Carcinoma</b>			
<hr/>			
<b>TUMOR 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	1/37.15
POLY-3 PERCENT (g)	0%	0%	2.7%
TERMINAL (d)	0/23 (0%)	0/27 (0%)	0/23 (0%)
FIRST INCIDENCE	---	---	669
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.303	(e)	P=0.502
POLY 1.5	P=0.300	(e)	P=0.497
POLY 6	P=0.311	(e)	P=0.511
RAO-SCOTT	P=0.414	(e)	P=0.580
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

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 03/09/2022

Time Report Requested: 14:49:17

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

DOSE	Females		
	0/0 ppm	0/300 ppm	0/1000 ppm
<b>Vagina (Longitudinal Evaluation)</b>			
<b>Squamous Cell Papilloma</b>			
<b>TUMOR 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

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 03/09/2022

Time Report Requested: 14:49:17

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

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

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Vagina (Standard or Longitudinal Evaluation)  
Squamous Cell Papilloma

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TUMOR RATES	#	#	#
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)

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**STATISTICAL TESTS**

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

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Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Perfluorooctanoic Acid

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**LEGEND**

- (a) Number of tumor-bearing animals/number of animals examined at site.
- (b) Number of litters with tumor-bearing animals/number of litters examined at site
- (c) Number of tumor-bearing animals/Poly-3 number
- (d) Observed incidence at terminal kill.
- (e) Value of statistic cannot be computed.
- (f) Beneath the control incidence are the P-values associated with the trend test. Beneath the dosed group incidence are the P-values corresponding to pairwise comparisons between the controls and that dosed group.
- (g) Poly-3 adjusted lifetime tumor incidence.
- (I) Interim sacrifice
- (T) Terminal sacrifice
- # Tumor rates based on numbers of animals necropsied.
- \* To the right of any statistical result, indicates significance at ( $P \leq 0.05$ ).
- \*\* To the right of any statistical result, indicates significance at ( $P \leq 0.01$ ).
- N Indicates a negative trend for all tests  
The Rao-Scott statistic performs the Poly-3 test with an adjustment for within-litter correlation.  
The Litter C-A/Fishers statistic compares directly the litter incidence rates.

\*\*\* END OF REPORT \*\*\*