

**Experiment Number:** 20614 - 02  
**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:** 06/07/2018  
**Time Report Requested:** 14:16:02  
**First Dose M/F:** 07/27/09 / NA  
**Lab:** BAT

Custom Rpt (Litter-Based) -- 300-0, 300-20, 300-40, 300-80

<b>NTP Study Number:</b>	C20614B		
<b>Lock Date:</b>	01/10/2012		
<b>Cage Range:</b>	ALL		
<b>Date Range:</b>	ALL		
<b>Reasons For Removal:</b>	25021 TSAC	25020 NATD	25019 MSAC
<b>Removal Date Range:</b>	ALL		
<b>Treatment Groups:</b>	Include 002 300/0 ppm Include 008 300/80 ppm	Include 004 300/20 ppm	Include 006 300/40 ppm
<b>Study Gender:</b>	Male		
<b>TDMSE Version:</b>	2.5.0.0_sfh		
<b>PWG Approval Date:</b>	NONE		

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 14:16:02

First Dose M/F: 07/27/09 / NA

Lab: BAT

**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.**

Adrenal Medulla  
Heart  
Islets, Pancreatic  
Liver  
Pancreas  
Pituitary Gland  
Prostate  
Testes  
Thyroid Gland

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 14:16:02

First Dose M/F: 07/27/09 / NA

Lab: BAT

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

**MALE RATS**

**Organ**

Adrenal Medulla

Liver

Pancreas

Thyroid Gland: C-Cell

All Organs

**Morphology**

Pheochromocytoma Benign

Pheochromocytoma: Benign, Complex, Malignant, NOS

Hepatocellular Adenoma

Hepatocellular Carcinoma

Hepatocellular Carcinoma or Hepatocellular Adenoma

Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma

Adenoma

Carcinoma or Adenoma

Adenoma

Benign Tumors

Malignant and Benign Tumors

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 14:16:02

First Dose M/F: 07/27/09 / NA

Lab: BAT

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

DOSE	Males			
	300/0 ppm	300/20 ppm	300/40 ppm	300/80 ppm
<b>Adrenal Medulla</b>				
<b>Pheochromocytoma Benign</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	8/50 (16%)	5/50 (10%)	3/50 (6%)	0/50 (0%)
LITTERS (b)	7/25 (28%)	5/25 (20%)	2/25 (8%)	0/26 (0%)
POLY-3 RATE (c)	8/43.72	5/44.78	3/46.07	0/44.73
POLY-3 PERCENT (g)	18.3%	11.2%	6.5%	0%
TERMINAL (d)	5/35 (14%)	5/38 (13%)	2/38 (5%)	0/39 (0%)
FIRST INCIDENCE	617	743 (T)	624	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.002N**	P=0.259N	P=0.082N	P=0.003N**
POLY 1.5	P=0.002N**	P=0.267N	P=0.089N	P=0.003N**
POLY 6	P=0.002N**	P=0.252N	P=0.078N	P=0.003N**
RAO-SCOTT	P=0.008N**	P=0.311N	P=0.134N	P=0.015N*
LITTER C-A/FISHERS	P=0.002N**	P=0.371N	P=0.069N	P=0.004N**

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 14:16:02

First Dose M/F: 07/27/09 / NA

Lab: BAT

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

DOSE	Males			
	300/0 ppm	300/20 ppm	300/40 ppm	300/80 ppm
<b>Adrenal Medulla</b>				
<b>Pheochromocytoma: Benign, Complex, Malignant, NOS</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	8/50 (16%)	5/50 (10%)	3/50 (6%)	1/50 (2%)
LITTERS (b)	7/25 (28%)	5/25 (20%)	2/25 (8%)	1/26 (4%)
POLY-3 RATE (c)	8/43.72	5/44.78	3/46.07	1/45.00
POLY-3 PERCENT (g)	18.3%	11.2%	6.5%	2.2%
TERMINAL (d)	5/35 (14%)	5/38 (13%)	2/38 (5%)	0/39 (0%)
FIRST INCIDENCE	617	743 (T)	624	670
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.008N**	P=0.259N	P=0.082N	P=0.014N*
POLY 1.5	P=0.008N**	P=0.267N	P=0.089N	P=0.014N*
POLY 6	P=0.007N**	P=0.252N	P=0.078N	P=0.013N*
RAO-SCOTT	P=0.019N*	P=0.302N	P=0.126N	P=0.034N*
LITTER C-A/FISHERS	P=0.009N**	P=0.371N	P=0.069N	P=0.021N*

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 14:16:02

First Dose M/F: 07/27/09 / NA

Lab: BAT

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

DOSE	Males			
	300/0 ppm	300/20 ppm	300/40 ppm	300/80 ppm
<b>Bone Sarcoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	0/25 (0%)	0/25 (0%)	0/26 (0%)
POLY-3 RATE (c)	2/44.18	0/44.78	0/45.66	0/44.73
POLY-3 PERCENT (g)	4.5%	0%	0%	0%
TERMINAL (d)	0/35 (0%)	0/38 (0%)	0/38 (0%)	0/39 (0%)
FIRST INCIDENCE	351	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.114N	P=0.234N	P=0.230N	P=0.234N
POLY 1.5	P=0.113N	P=0.236N	P=0.233N	P=0.236N
POLY 6	P=0.115N	P=0.231N	P=0.228N	P=0.233N
RAO-SCOTT	P=0.232N	P=0.395N	P=0.394N	P=0.395N
LITTER C-A/FISHERS	P=0.111N	P=0.245N	P=0.245N	P=0.235N

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 14:16:02

First Dose M/F: 07/27/09 / NA

Lab: BAT

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

---

DOSE	Males			
	300/0 ppm	300/20 ppm	300/40 ppm	300/80 ppm
<b>Heart</b>				
<b>Schwannoma Malignant</b>				
<hr/>				
<b>TUMOR RATES</b>				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	0/25 (0%)	0/25 (0%)	0/26 (0%)
POLY-3 RATE (c)	2/43.27	0/44.78	0/45.66	0/44.73
POLY-3 PERCENT (g)	4.6%	0%	0%	0%
TERMINAL (d)	2/35 (6%)	0/38 (0%)	0/38 (0%)	0/39 (0%)
FIRST INCIDENCE	743 (T)	---	---	---
<hr/>				
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.116N	P=0.230N	P=0.225N	P=0.230N
POLY 1.5	P=0.115N	P=0.233N	P=0.230N	P=0.233N
POLY 6	P=0.117N	P=0.226N	P=0.222N	P=0.227N
RAO-SCOTT	P=0.240N	P=0.400N	P=0.399N	P=0.400N
LITTER C-A/FISHERS	P=0.111N	P=0.245N	P=0.245N	P=0.235N

---

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 14:16:02

First Dose M/F: 07/27/09 / NA

Lab: BAT

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

---

DOSE	Males			
	300/0 ppm	300/20 ppm	300/40 ppm	300/80 ppm
<b>Islets, Pancreatic Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	3/50 (6%)	8/50 (16%)	8/50 (16%)	5/50 (10%)
LITTERS (b)	3/25 (12%)	6/25 (24%)	7/25 (28%)	4/26 (15%)
POLY-3 RATE (c)	3/43.27	8/44.83	8/45.68	5/44.73
POLY-3 PERCENT (g)	6.9%	17.9%	17.5%	11.2%
TERMINAL (d)	3/35 (9%)	6/38 (16%)	7/38 (18%)	5/39 (13%)
FIRST INCIDENCE	743 (T)	734	739	743 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.471	P=0.109	P=0.116	P=0.375
POLY 1.5	P=0.459	P=0.104	P=0.109	P=0.367
POLY 6	P=0.479	P=0.115	P=0.120	P=0.380
RAO-SCOTT	P=0.478	P=0.158	P=0.166	P=0.415
LITTER C-A/FISHERS	P=0.530	P=0.232	P=0.145	P=0.523

---



Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 14:16:02

First Dose M/F: 07/27/09 / NA

Lab: BAT

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

---

DOSE	Males			
	300/0 ppm	300/20 ppm	300/40 ppm	300/80 ppm
<b>Liver</b>				
<b>Hepatocellular Adenoma</b>				
<hr/>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	5/50 (10%)	10/50 (20%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	5/25 (20%)	9/26 (35%)
POLY-3 RATE (c)	0/43.27	1/44.78	5/45.66	10/44.73
POLY-3 PERCENT (g)	0%	2.2%	11%	22.4%
TERMINAL (d)	0/35 (0%)	1/38 (3%)	5/38 (13%)	10/39 (26%)
FIRST INCIDENCE	---	743 (T)	743 (T)	743 (T)
<hr/>				
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.507	P=0.035*	P<0.001**
POLY 1.5	P<0.001**	P=0.504	P=0.033*	P<0.001**
POLY 6	P<0.001**	P=0.510	P=0.036*	P<0.001**
RAO-SCOTT	P<0.001**	P=0.564	P=0.070	P=0.006**
LITTER C-A/FISHERS	P<0.001**	P=0.500	P=0.025*	P<0.001**

---

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 14:16:02

First Dose M/F: 07/27/09 / NA

Lab: BAT

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

---

DOSE	Males			
	300/0 ppm	300/20 ppm	300/40 ppm	300/80 ppm
<hr/>				
Liver				
Hepatocellular Carcinoma				
<hr/>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	4/50 (8%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	3/26 (12%)
POLY-3 RATE (c)	0/43.27	0/44.78	0/45.66	4/44.73
POLY-3 PERCENT (g)	0%	0%	0%	8.9%
TERMINAL (d)	0/35 (0%)	0/38 (0%)	0/38 (0%)	4/39 (10%)
FIRST INCIDENCE	---	---	---	743 (T)
<hr/>				
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.003**	(e)	(e)	P=0.064
POLY 1.5	P=0.003**	(e)	(e)	P=0.063
POLY 6	P=0.003**	(e)	(e)	P=0.066
RAO-SCOTT	P=0.049*	(e)	(e)	P=0.236
LITTER C-A/FISHERS	P=0.013*	(e)	(e)	P=0.125

---

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 14:16:02

First Dose M/F: 07/27/09 / NA

Lab: BAT

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

DOSE	Males			
	300/0 ppm	300/20 ppm	300/40 ppm	300/80 ppm
<b>Liver</b>				
<b>Hepatocellular Carcinoma or Hepatocellular Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	5/50 (10%)	12/50 (24%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	5/25 (20%)	10/26 (38%)
POLY-3 RATE (c)	0/43.27	1/44.78	5/45.66	12/44.73
POLY-3 PERCENT (g)	0%	2.2%	11%	26.8%
TERMINAL (d)	0/35 (0%)	1/38 (3%)	5/38 (13%)	12/39 (31%)
FIRST INCIDENCE	---	743 (T)	743 (T)	743 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.507	P=0.035*	P<0.001**
POLY 1.5	P<0.001**	P=0.504	P=0.033*	P<0.001**
POLY 6	P<0.001**	P=0.510	P=0.036*	P<0.001**
RAO-SCOTT	P<0.001**	P=0.579	P=0.077	P=0.003**
LITTER C-A/FISHERS	P<0.001**	P=0.500	P=0.025*	P<0.001**

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 14:16:02

First Dose M/F: 07/27/09 / NA

Lab: BAT

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

DOSE	Males			
	300/0 ppm	300/20 ppm	300/40 ppm	300/80 ppm
<b>Liver</b>				
<b>Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	5/50 (10%)	12/50 (24%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	5/25 (20%)	10/26 (38%)
POLY-3 RATE (c)	0/43.27	1/44.78	5/45.66	12/44.73
POLY-3 PERCENT (g)	0%	2.2%	11%	26.8%
TERMINAL (d)	0/35 (0%)	1/38 (3%)	5/38 (13%)	12/39 (31%)
FIRST INCIDENCE	---	743 (T)	743 (T)	743 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.507	P=0.035*	P<0.001**
POLY 1.5	P<0.001**	P=0.504	P=0.033*	P<0.001**
POLY 6	P<0.001**	P=0.510	P=0.036*	P<0.001**
RAO-SCOTT	P<0.001**	P=0.579	P=0.077	P=0.003**
LITTER C-A/FISHERS	P<0.001**	P=0.500	P=0.025*	P<0.001**

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 14:16:02

First Dose M/F: 07/27/09 / NA

Lab: BAT

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

DOSE	Males			
	300/0 ppm	300/20 ppm	300/40 ppm	300/80 ppm
<b>Pancreas Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	7/50 (14%)	18/50 (36%)	30/50 (60%)	30/50 (60%)
LITTERS (b)	6/25 (24%)	12/25 (48%)	21/25 (84%)	21/26 (81%)
POLY-3 RATE (c)	7/43.27	18/44.79	30/45.93	30/44.75
POLY-3 PERCENT (g)	16.2%	40.2%	65.3%	67%
TERMINAL (d)	7/35 (20%)	17/38 (45%)	28/38 (74%)	29/39 (74%)
FIRST INCIDENCE	743 (T)	739	701	739
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.010**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.009**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.011*	P<0.001**	P<0.001**
RAO-SCOTT	P<0.001**	P=0.016*	P<0.001**	P<0.001**
LITTER C-A/FISHERS	P<0.001**	P=0.070	P<0.001**	P<0.001**

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 14:16:02

First Dose M/F: 07/27/09 / NA

Lab: BAT

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

DOSE	Males			
	300/0 ppm	300/20 ppm	300/40 ppm	300/80 ppm
<b>Pancreas Carcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	3/50 (6%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	1/25 (4%)	3/26 (12%)
POLY-3 RATE (c)	0/43.27	2/44.78	1/45.66	3/44.73
POLY-3 PERCENT (g)	0%	4.5%	2.2%	6.7%
TERMINAL (d)	0/35 (0%)	2/38 (5%)	1/38 (3%)	3/39 (8%)
FIRST INCIDENCE	---	743 (T)	743 (T)	743 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.110	P=0.245	P=0.511	P=0.125
POLY 1.5	P=0.107	P=0.241	P=0.506	P=0.122
POLY 6	P=0.112	P=0.249	P=0.513	P=0.126
RAO-SCOTT	P=0.144	P=0.299	P=0.559	P=0.172
LITTER C-A/FISHERS	P=0.108	P=0.245	P=0.500	P=0.125

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 14:16:02

First Dose M/F: 07/27/09 / NA

Lab: BAT

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

DOSE	Males			
	300/0 ppm	300/20 ppm	300/40 ppm	300/80 ppm
<b>Pancreas Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	7/50 (14%)	20/50 (40%)	30/50 (60%)	30/50 (60%)
LITTERS (b)	6/25 (24%)	13/25 (52%)	21/25 (84%)	21/26 (81%)
POLY-3 RATE (c)	7/43.27	20/44.79	30/45.93	30/44.75
POLY-3 PERCENT (g)	16.2%	44.7%	65.3%	67%
TERMINAL (d)	7/35 (20%)	19/38 (50%)	28/38 (74%)	29/39 (74%)
FIRST INCIDENCE	743 (T)	739	701	739
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.003**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.002**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.003**	P<0.001**	P<0.001**
RAO-SCOTT	P<0.001**	P=0.006**	P<0.001**	P<0.001**
LITTER C-A/FISHERS	P<0.001**	P=0.040*	P<0.001**	P<0.001**

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 14:16:02

First Dose M/F: 07/27/09 / NA

Lab: BAT

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

---

DOSE	Males			
	300/0 ppm	300/20 ppm	300/40 ppm	300/80 ppm
<b>Pituitary Gland: Pars Distalis or Unspecified Site Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	6/50 (12%)	8/50 (16%)	9/50 (18%)	5/50 (10%)
LITTERS (b)	6/25 (24%)	7/25 (28%)	9/25 (36%)	4/26 (15%)
POLY-3 RATE (c)	6/43.70	8/44.81	9/46.89	5/44.75
POLY-3 PERCENT (g)	13.7%	17.9%	19.2%	11.2%
TERMINAL (d)	5/35 (14%)	7/38 (18%)	4/38 (11%)	4/39 (10%)
FIRST INCIDENCE	617	734	561	739
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.370N	P=0.406	P=0.340	P=0.483N
POLY 1.5	P=0.378N	P=0.397	P=0.318	P=0.490N
POLY 6	P=0.367N	P=0.415	P=0.359	P=0.480N
RAO-SCOTT	P=0.373N	P=0.404	P=0.342	P=0.478N
LITTER C-A/FISHERS	P=0.266N	P=0.500	P=0.269	P=0.337N

---



Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 14:16:02

First Dose M/F: 07/27/09 / NA

Lab: BAT

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

---

DOSE	Males			
	300/0 ppm	300/20 ppm	300/40 ppm	300/80 ppm
<b>Prostate Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	1/50 (2%)	3/50 (6%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	3/25 (12%)	1/25 (4%)	0/26 (0%)
POLY-3 RATE (c)	1/43.27	3/44.78	1/45.66	0/44.73
POLY-3 PERCENT (g)	2.3%	6.7%	2.2%	0%
TERMINAL (d)	1/35 (3%)	3/38 (8%)	1/38 (3%)	0/39 (0%)
FIRST INCIDENCE	743 (T)	743 (T)	743 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.189N	P=0.318	P=0.749N	P=0.493N
POLY 1.5	P=0.193N	P=0.312	P=0.753N	P=0.496N
POLY 6	P=0.185N	P=0.324	P=0.746N	P=0.491N
RAO-SCOTT	P=0.242N	P=0.370	P=0.759N	P=0.557N
LITTER C-A/FISHERS	P=0.189N	P=0.305	P=0.755	P=0.490N

---

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 14:16:02

First Dose M/F: 07/27/09 / NA

Lab: BAT

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

DOSE	Males			
	300/0 ppm	300/20 ppm	300/40 ppm	300/80 ppm
<b>Skin</b>				
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	1/50 (2%)	3/50 (6%)	1/50 (2%)	1/50 (2%)
LITTERS (b)	1/25 (4%)	3/25 (12%)	1/25 (4%)	1/26 (4%)
POLY-3 RATE (c)	1/43.70	3/45.00	1/45.66	1/44.73
POLY-3 PERCENT (g)	2.3%	6.7%	2.2%	2.2%
TERMINAL (d)	0/35 (0%)	2/38 (5%)	1/38 (3%)	1/39 (3%)
FIRST INCIDENCE	617	683	743 (T)	743 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.434N	P=0.316	P=0.751N	P=0.755N
POLY 1.5	P=0.438N	P=0.311	P=0.755N	P=0.757N
POLY 6	P=0.432N	P=0.321	P=0.749N	P=0.755N
RAO-SCOTT	P=0.451N	P=0.344	P=0.750N	P=0.752N
LITTER C-A/FISHERS	P=0.429N	P=0.305	P=0.755	P=0.745N

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 14:16:02

First Dose M/F: 07/27/09 / NA

Lab: BAT

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

DOSE	Males			
	300/0 ppm	300/20 ppm	300/40 ppm	300/80 ppm
<b>Skin</b>				
<b>Fibroma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	3/50 (6%)	2/50 (4%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	3/25 (12%)	2/25 (8%)	1/26 (4%)
POLY-3 RATE (c)	0/43.27	3/45.86	2/46.07	1/44.94
POLY-3 PERCENT (g)	0%	6.5%	4.3%	2.2%
TERMINAL (d)	0/35 (0%)	0/38 (0%)	1/38 (3%)	0/39 (0%)
FIRST INCIDENCE	---	478	624	689
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.578	P=0.129	P=0.251	P=0.508
POLY 1.5	P=0.569	P=0.125	P=0.246	P=0.504
POLY 6	P=0.586	P=0.135	P=0.256	P=0.510
RAO-SCOTT	P=0.573	P=0.181	P=0.310	P=0.555
LITTER C-A/FISHERS	P=0.571	P=0.117	P=0.245	P=0.510

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 14:16:02

First Dose M/F: 07/27/09 / NA

Lab: BAT

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

DOSE	Males			
	300/0 ppm	300/20 ppm	300/40 ppm	300/80 ppm
<b>Skin</b>				
<b>Keratoacanthoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	3/50 (6%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	3/25 (12%)	0/25 (0%)	1/26 (4%)
POLY-3 RATE (c)	0/43.27	3/45.00	0/45.66	1/44.73
POLY-3 PERCENT (g)	0%	6.7%	0%	2.2%
TERMINAL (d)	0/35 (0%)	2/38 (5%)	0/38 (0%)	1/39 (3%)
FIRST INCIDENCE	---	683	---	743 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.619N	P=0.126	(e)	P=0.507
POLY 1.5	P=0.625N	P=0.123	(e)	P=0.504
POLY 6	P=0.613N	P=0.130	(e)	P=0.509
RAO-SCOTT	P=0.637N	P=0.206	(e)	P=0.593
LITTER C-A/FISHERS	P=0.623N	P=0.117	(e)	P=0.510

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 14:16:02

First Dose M/F: 07/27/09 / NA

Lab: BAT

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

DOSE	Males			
	300/0 ppm	300/20 ppm	300/40 ppm	300/80 ppm
<b>Skin</b>				
<b>Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	3/50 (6%)	1/50 (2%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	3/25 (12%)	1/25 (4%)	1/26 (4%)
POLY-3 RATE (c)	0/43.27	3/45.00	1/45.66	1/44.73
POLY-3 PERCENT (g)	0%	6.7%	2.2%	2.2%
TERMINAL (d)	0/35 (0%)	2/38 (5%)	1/38 (3%)	1/39 (3%)
FIRST INCIDENCE	---	683	743 (T)	743 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.610	P=0.126	P=0.511	P=0.507
POLY 1.5	P=0.602	P=0.123	P=0.506	P=0.504
POLY 6	P=0.616	P=0.130	P=0.513	P=0.509
RAO-SCOTT	P=0.605	P=0.178	P=0.564	P=0.556
LITTER C-A/FISHERS	P=0.605	P=0.117	P=0.500	P=0.510

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 14:16:02

First Dose M/F: 07/27/09 / NA

Lab: BAT

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

DOSE	Males			
	300/0 ppm	300/20 ppm	300/40 ppm	300/80 ppm
<b>Skin</b>				
<b>Squamous Cell Papilloma, Papilloma, or Keratoacanthoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	3/50 (6%)	1/50 (2%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	3/25 (12%)	1/25 (4%)	1/26 (4%)
POLY-3 RATE (c)	0/43.27	3/45.00	1/45.66	1/44.73
POLY-3 PERCENT (g)	0%	6.7%	2.2%	2.2%
TERMINAL (d)	0/35 (0%)	2/38 (5%)	1/38 (3%)	1/39 (3%)
FIRST INCIDENCE	---	683	743 (T)	743 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.610	P=0.126	P=0.511	P=0.507
POLY 1.5	P=0.602	P=0.123	P=0.506	P=0.504
POLY 6	P=0.616	P=0.130	P=0.513	P=0.509
RAO-SCOTT	P=0.605	P=0.178	P=0.564	P=0.556
LITTER C-A/FISHERS	P=0.605	P=0.117	P=0.500	P=0.510

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 14:16:02

First Dose M/F: 07/27/09 / NA

Lab: BAT

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

DOSE	Males			
	300/0 ppm	300/20 ppm	300/40 ppm	300/80 ppm
<b>Testes</b>				
<b>Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	3/50 (6%)	1/50 (2%)	1/49 (2%)	1/50 (2%)
LITTERS (b)	3/25 (12%)	1/25 (4%)	1/25 (4%)	1/26 (4%)
POLY-3 RATE (c)	3/43.28	1/44.78	1/44.80	1/44.73
POLY-3 PERCENT (g)	6.9%	2.2%	2.2%	2.2%
TERMINAL (d)	2/35 (6%)	1/38 (3%)	1/38 (3%)	1/39 (3%)
FIRST INCIDENCE	742	743 (T)	743 (T)	743 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.240N	P=0.293N	P=0.293N	P=0.293N
POLY 1.5	P=0.241N	P=0.299N	P=0.301N	P=0.298N
POLY 6	P=0.240N	P=0.287N	P=0.287N	P=0.290N
RAO-SCOTT	P=0.266N	P=0.327N	P=0.329N	P=0.327N
LITTER C-A/FISHERS	P=0.228N	P=0.305N	P=0.305N	P=0.290N

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 14:16:02

First Dose M/F: 07/27/09 / NA

Lab: BAT

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

---

DOSE	Males			
	300/0 ppm	300/20 ppm	300/40 ppm	300/80 ppm
<b>Thyroid Gland: C-Cell Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	7/50 (14%)	11/50 (22%)	15/50 (30%)	12/50 (24%)
LITTERS (b)	6/25 (24%)	10/25 (40%)	13/25 (52%)	11/26 (42%)
POLY-3 RATE (c)	7/43.27	11/44.97	15/46.22	12/45.80
POLY-3 PERCENT (g)	16.2%	24.5%	32.5%	26.2%
TERMINAL (d)	7/35 (20%)	10/38 (26%)	13/38 (34%)	9/39 (23%)
FIRST INCIDENCE	743 (T)	693	648	550
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.183	P=0.242	P=0.060	P=0.185
POLY 1.5	P=0.165	P=0.230	P=0.052	P=0.171
POLY 6	P=0.200	P=0.257	P=0.066	P=0.201
RAO-SCOTT	P=0.180	P=0.239	P=0.063	P=0.185
LITTER C-A/FISHERS	P=0.134	P=0.182	P=0.040*	P=0.138

---



Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 14:16:02

First Dose M/F: 07/27/09 / NA

Lab: BAT

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

---

DOSE	Males			
	300/0 ppm	300/20 ppm	300/40 ppm	300/80 ppm
<b>Thyroid Gland: C-Cell Carcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	3/50 (6%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
LITTERS (b)	3/25 (12%)	0/25 (0%)	0/25 (0%)	2/26 (8%)
POLY-3 RATE (c)	3/43.29	0/44.78	0/45.66	2/44.73
POLY-3 PERCENT (g)	6.9%	0%	0%	4.5%
TERMINAL (d)	2/35 (6%)	0/38 (0%)	0/38 (0%)	2/39 (5%)
FIRST INCIDENCE	739	---	---	743 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.533N	P=0.113N	P=0.109N	P=0.485N
POLY 1.5	P=0.532N	P=0.115N	P=0.113N	P=0.491N
POLY 6	P=0.536N	P=0.110N	P=0.107N	P=0.481N
RAO-SCOTT	P=0.547N	P=0.193N	P=0.190N	P=0.529N
LITTER C-A/FISHERS	P=0.517N	P=0.117N	P=0.117N	P=0.481N

---

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 14:16:02

First Dose M/F: 07/27/09 / NA

Lab: BAT

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

---

DOSE	Males			
	300/0 ppm	300/20 ppm	300/40 ppm	300/80 ppm
<b>Thyroid Gland: C-Cell Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	10/50 (20%)	11/50 (22%)	15/50 (30%)	14/50 (28%)
LITTERS (b)	9/25 (36%)	10/25 (40%)	13/25 (52%)	12/26 (46%)
POLY-3 RATE (c)	10/43.29	11/44.97	15/46.22	14/45.80
POLY-3 PERCENT (g)	23.1%	24.5%	32.5%	30.6%
TERMINAL (d)	9/35 (26%)	10/38 (26%)	13/38 (34%)	11/39 (28%)
FIRST INCIDENCE	739	693	648	550
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.215	P=0.540	P=0.227	P=0.290
POLY 1.5	P=0.197	P=0.521	P=0.205	P=0.268
POLY 6	P=0.233	P=0.561	P=0.245	P=0.313
RAO-SCOTT	P=0.216	P=0.531	P=0.228	P=0.288
LITTER C-A/FISHERS	P=0.249	P=0.500	P=0.197	P=0.326

---

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 14:16:02

First Dose M/F: 07/27/09 / NA

Lab: BAT

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

DOSE	Males			
	300/0 ppm	300/20 ppm	300/40 ppm	300/80 ppm
<b>All Organs</b>				
<b>Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	2/50 (4%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
LITTERS (b)	2/25 (8%)	1/25 (4%)	1/25 (4%)	1/26 (4%)
POLY-3 RATE (c)	2/43.29	1/45.50	1/46.01	1/45.13
POLY-3 PERCENT (g)	4.6%	2.2%	2.2%	2.2%
TERMINAL (d)	1/35 (3%)	0/38 (0%)	0/38 (0%)	0/39 (0%)
FIRST INCIDENCE	739	485	645	629
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.405N	P=0.483N	P=0.479N	P=0.486N
POLY 1.5	P=0.407N	P=0.490N	P=0.487N	P=0.492N
POLY 6	P=0.404N	P=0.475N	P=0.472N	P=0.480N
RAO-SCOTT	P=0.409N	P=0.488N	P=0.485N	P=0.490N
LITTER C-A/FISHERS	P=0.395N	P=0.500N	P=0.500N	P=0.485N

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 14:16:02

First Dose M/F: 07/27/09 / NA

Lab: BAT

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

DOSE	Males			
	300/0 ppm	300/20 ppm	300/40 ppm	300/80 ppm
<b>All Organs</b>				
<b>Mesothelioma: Benign, Malignant, NOS</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	2/50 (4%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	2/25 (8%)	2/25 (8%)	0/25 (0%)	1/26 (4%)
POLY-3 RATE (c)	2/43.30	2/44.81	0/45.66	1/44.73
POLY-3 PERCENT (g)	4.6%	4.5%	0%	2.2%
TERMINAL (d)	0/35 (0%)	1/38 (3%)	0/38 (0%)	1/39 (3%)
FIRST INCIDENCE	739	734	---	743 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.290N	P=0.682N	P=0.225N	P=0.489N
POLY 1.5	P=0.293N	P=0.687N	P=0.230N	P=0.493N
POLY 6	P=0.289N	P=0.675N	P=0.223N	P=0.485N
RAO-SCOTT	P=0.324N	P=0.684N	P=0.282N	P=0.517N
LITTER C-A/FISHERS	P=0.283N	P=0.695	P=0.245N	P=0.485N

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 14:16:02

First Dose M/F: 07/27/09 / NA

Lab: BAT

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

DOSE	Males			
	300/0 ppm	300/20 ppm	300/40 ppm	300/80 ppm
<b>All Organs</b>				
<b>Mesothelioma: Malignant</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	2/50 (4%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	2/25 (8%)	2/25 (8%)	0/25 (0%)	1/26 (4%)
POLY-3 RATE (c)	2/43.30	2/44.81	0/45.66	1/44.73
POLY-3 PERCENT (g)	4.6%	4.5%	0%	2.2%
TERMINAL (d)	0/35 (0%)	1/38 (3%)	0/38 (0%)	1/39 (3%)
FIRST INCIDENCE	739	734	---	743 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.290N	P=0.682N	P=0.225N	P=0.489N
POLY 1.5	P=0.293N	P=0.687N	P=0.230N	P=0.493N
POLY 6	P=0.289N	P=0.675N	P=0.223N	P=0.485N
RAO-SCOTT	P=0.324N	P=0.684N	P=0.282N	P=0.517N
LITTER C-A/FISHERS	P=0.283N	P=0.695	P=0.245N	P=0.485N

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 14:16:02

First Dose M/F: 07/27/09 / NA

Lab: BAT

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

DOSE	Males			
	300/0 ppm	300/20 ppm	300/40 ppm	300/80 ppm
<b>All Organs</b>				
<b>Benign Tumors</b>				
<b>TUMOR RATES</b>	#	#	#	#
<b>OVERALL (a)</b>	24/50 (48%)	37/50 (74%)	43/50 (86%)	39/50 (78%)
<b>LITTERS (b)</b>	20/25 (80%)	23/25 (92%)	24/25 (96%)	23/26 (88%)
<b>POLY-3 RATE (c)</b>	24/43.72	37/46.10	43/47.70	39/45.81
<b>POLY-3 PERCENT (g)</b>	54.9%	80.3%	90.2%	85.1%
<b>TERMINAL (d)</b>	21/35 (60%)	31/38 (82%)	34/38 (90%)	35/39 (90%)
<b>FIRST INCIDENCE</b>	617	478	561	550
<b>STATISTICAL TESTS</b>				
<b>POLY 3</b>	P<0.001**	P=0.006**	P<0.001**	P<0.001**
<b>POLY 1.5</b>	P<0.001**	P=0.005**	P<0.001**	P<0.001**
<b>POLY 6</b>	P<0.001**	P=0.010**	P<0.001**	P<0.001**
<b>RAO-SCOTT</b>	P=0.002**	P=0.010**	P<0.001**	P=0.002**
<b>LITTER C-A/FISHERS</b>	P=0.296	P=0.209	P=0.095	P=0.329

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 14:16:02

First Dose M/F: 07/27/09 / NA

Lab: BAT

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

DOSE	Males			
	300/0 ppm	300/20 ppm	300/40 ppm	300/80 ppm
<b>All Organs</b>				
<b>Malignant Tumors</b>				
<hr/>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	11/50 (22%)	6/50 (12%)	5/50 (10%)	15/50 (30%)
LITTERS (b)	10/25 (40%)	6/25 (24%)	5/25 (20%)	14/26 (54%)
POLY-3 RATE (c)	11/45.05	6/46.29	5/46.34	15/46.74
POLY-3 PERCENT (g)	24.4%	13%	10.8%	32.1%
TERMINAL (d)	5/35 (14%)	3/38 (8%)	3/38 (8%)	10/39 (26%)
FIRST INCIDENCE	351	465	645	527
<hr/>				
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.107	P=0.127N	P=0.074N	P=0.280
POLY 1.5	P=0.103	P=0.134N	P=0.079N	P=0.263
POLY 6	P=0.111	P=0.121N	P=0.070N	P=0.298
RAO-SCOTT	P=0.123	P=0.133N	P=0.080N	P=0.283
LITTER C-A/FISHERS	P=0.104	P=0.182N	P=0.108N	P=0.239

Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 14:16:02

First Dose M/F: 07/27/09 / NA

Lab: BAT

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

DOSE	Males			
	300/0 ppm	300/20 ppm	300/40 ppm	300/80 ppm
<b>All Organs</b>				
<b>Malignant and Benign Tumors</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	28/50 (56%)	40/50 (80%)	44/50 (88%)	44/50 (88%)
LITTERS (b)	21/25 (84%)	23/25 (92%)	24/25 (96%)	25/26 (96%)
POLY-3 RATE (c)	28/45.48	40/47.58	44/48.05	44/46.96
POLY-3 PERCENT (g)	61.6%	84.1%	91.6%	93.7%
TERMINAL (d)	21/35 (60%)	32/38 (84%)	34/38 (90%)	37/39 (95%)
FIRST INCIDENCE	351	465	561	527
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.010**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.008**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.015*	P<0.001**	P<0.001**
RAO-SCOTT	P<0.001**	P=0.021*	P=0.002**	P<0.001**
LITTER C-A/FISHERS	P=0.100	P=0.334	P=0.174	P=0.163



Experiment Number: 20614 - 02

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: 06/07/2018

Time Report Requested: 14:16:02

First Dose M/F: 07/27/09 / NA

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 \*\*\*