

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: 17:07:17
First Dose M/F: 07/27/09 / NA
Lab: BAT

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

NTP Study Number:	C20614B		
Lock Date:	01/10/2012		
Cage Range:	ALL		
Date Range:	ALL		
Reasons For Removal:	25021 TSAC	25020 NATD	25019 MSAC
Removal Date Range:	ALL		
Treatment Groups:	Include 003 0/20 ppm	Include 004 300/20 ppm	
Study Gender:	Male		
TDMSE Version:	2.5.0.0_sfh		
PWG Approval Date:	NONE		

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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.**

Adrenal Medulla

Islets, Pancreatic

Pancreas

Pituitary Gland

Prostate

Thyroid Gland

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

MALE RATS

Organ

Pancreas

Morphology

Adenoma

Carcinoma or Adenoma

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

Males

DOSE	0/20 ppm	300/20 ppm
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Adrenal Medulla
Pheochromocytoma Benign

TUMOR RATES

OVERALL (a)	3/50 (6%)	5/50 (10%)
LITTERS (b)	3/25 (12%)	5/25 (20%)
POLY-3 RATE (c)	3/47.35	5/44.78
POLY-3 PERCENT (g)	6.3%	11.2%
TERMINAL (d)	3/42 (7%)	5/38 (13%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.326
POLY 1.5	P=0.335
POLY 6	P=0.323
RAO-SCOTT	P=0.334
LITTER C-A/FISHERS	P=0.351

Experiment Number: 20614 - 02

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

Lab: BAT

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

Males

DOSE	0/20 ppm	300/20 ppm
------	----------	------------

Adrenal Medulla

Pheochromocytoma: Benign, Complex, Malignant, NOS

TUMOR RATES

OVERALL (a)	4/50 (8%)	5/50 (10%)
LITTERS (b)	4/25 (16%)	5/25 (20%)
POLY-3 RATE (c)	4/47.35	5/44.78
POLY-3 PERCENT (g)	8.5%	11.2%
TERMINAL (d)	4/42 (10%)	5/38 (13%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.465
POLY 1.5	P=0.475
POLY 6	P=0.462
RAO-SCOTT	P=0.459
LITTER C-A/FISHERS	P=0.500

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TERMINAL SACRIFICE AT 107 WEEKS**

Males

DOSE	0/20 ppm	300/20 ppm
------	----------	------------

Islets, Pancreatic
Adenoma

TUMOR RATES

OVERALL (a)	8/50 (16%)	8/50 (16%)
LITTERS (b)	8/25 (32%)	6/25 (24%)
POLY-3 RATE (c)	8/47.35	8/44.83
POLY-3 PERCENT (g)	16.9%	17.9%
TERMINAL (d)	8/42 (19%)	6/38 (16%)
FIRST INCIDENCE	743 (T)	734

STATISTICAL TESTS

POLY 3	P=0.561
POLY 1.5	P=0.574
POLY 6	P=0.558
RAO-SCOTT	P=0.568
LITTER C-A/FISHERS	P=0.377N

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

Males

DOSE	0/20 ppm	300/20 ppm
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Islets, Pancreatic
Carcinoma or Adenoma

TUMOR RATES

OVERALL (a)	9/50 (18%)	8/50 (16%)
LITTERS (b)	9/25 (36%)	6/25 (24%)
POLY-3 RATE (c)	9/47.63	8/44.83
POLY-3 PERCENT (g)	18.9%	17.9%
TERMINAL (d)	8/42 (19%)	6/38 (16%)
FIRST INCIDENCE	666	734

STATISTICAL TESTS

POLY 3	P=0.555N
POLY 1.5	P=0.538N
POLY 6	P=0.562N
RAO-SCOTT	P=0.561N
LITTER C-A/FISHERS	P=0.269N

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Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

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CAS Number: 335-67-1

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

Lab: BAT

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

Males

DOSE	0/20 ppm	300/20 ppm
------	----------	------------

**Mammary Gland
Fibroadenoma**

TUMOR RATES

	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	0/25 (0%)
POLY-3 RATE (c)	2/47.35	0/44.78
POLY-3 PERCENT (g)	4.2%	0%
TERMINAL (d)	2/42 (5%)	0/38 (0%)
FIRST INCIDENCE	743 (T)	---

STATISTICAL TESTS

POLY 3	P=0.250N
POLY 1.5	P=0.246N
POLY 6	P=0.251N
RAO-SCOTT	P=0.357N
LITTER C-A/FISHERS	P=0.245N

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

Lab: BAT

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

Males

DOSE	0/20 ppm	300/20 ppm
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Mammary Gland
Fibroma, Fibroadenoma or Adenoma

TUMOR RATES	#	#
OVERALL (a)	2/50 (4%)	1/50 (2%)
LITTERS (b)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	2/47.35	1/44.78
POLY-3 PERCENT (g)	4.2%	2.2%
TERMINAL (d)	2/42 (5%)	1/38 (3%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.519N
POLY 1.5	P=0.514N
POLY 6	P=0.521N
RAO-SCOTT	P=0.528N
LITTER C-A/FISHERS	P=0.500N

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

Males

DOSE	0/20 ppm	300/20 ppm
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Mammary Gland
Fibroma, Fibroadenoma, Carcinoma, or Adenoma

TUMOR RATES	#	#
OVERALL (a)	2/50 (4%)	1/50 (2%)
LITTERS (b)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	2/47.35	1/44.78
POLY-3 PERCENT (g)	4.2%	2.2%
TERMINAL (d)	2/42 (5%)	1/38 (3%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.519N
POLY 1.5	P=0.514N
POLY 6	P=0.521N
RAO-SCOTT	P=0.528N
LITTER C-A/FISHERS	P=0.500N

Experiment Number: 20614 - 02

Test Type: CHRONIC

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Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

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

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

Males

DOSE	0/20 ppm	300/20 ppm
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Pancreas
Adenoma

TUMOR RATES

OVERALL (a)	28/50 (56%)	18/50 (36%)
LITTERS (b)	21/25 (84%)	12/25 (48%)
POLY-3 RATE (c)	28/47.90	18/44.79
POLY-3 PERCENT (g)	58.5%	40.2%
TERMINAL (d)	26/42 (62%)	17/38 (45%)
FIRST INCIDENCE	655	739

STATISTICAL TESTS

POLY 3	P=0.057N
POLY 1.5	P=0.048N*
POLY 6	P=0.063N
RAO-SCOTT	P=0.083N
LITTER C-A/FISHERS	P=0.008N**

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Species/Strain: RATS/HSD

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

Lab: BAT

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

Males

DOSE	0/20 ppm	300/20 ppm
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Pancreas
Carcinoma

TUMOR RATES

OVERALL (a)	3/50 (6%)	2/50 (4%)
LITTERS (b)	3/25 (12%)	2/25 (8%)
POLY-3 RATE (c)	3/47.35	2/44.78
POLY-3 PERCENT (g)	6.3%	4.5%
TERMINAL (d)	3/42 (7%)	2/38 (5%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.525N
POLY 1.5	P=0.518N
POLY 6	P=0.528N
RAO-SCOTT	P=0.520N
LITTER C-A/FISHERS	P=0.500N

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Test Type: CHRONIC

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Species/Strain: RATS/HSD

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Lab: BAT

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

Males

DOSE	0/20 ppm	300/20 ppm
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Pancreas
Carcinoma or Adenoma

TUMOR RATES

OVERALL (a)	29/50 (58%)	20/50 (40%)
LITTERS (b)	21/25 (84%)	13/25 (52%)
POLY-3 RATE (c)	29/47.90	20/44.79
POLY-3 PERCENT (g)	60.5%	44.7%
TERMINAL (d)	27/42 (64%)	19/38 (50%)
FIRST INCIDENCE	655	739

STATISTICAL TESTS

POLY 3	P=0.090N
POLY 1.5	P=0.075N
POLY 6	P=0.098N
RAO-SCOTT	P=0.122N
LITTER C-A/FISHERS	P=0.016N*

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

Lab: BAT

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

Males

DOSE	0/20 ppm	300/20 ppm
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Pituitary Gland: Pars Distalis or Unspecified Site
Adenoma

TUMOR RATES

OVERALL (a)	6/50 (12%)	8/50 (16%)
LITTERS (b)	5/25 (20%)	7/25 (28%)
POLY-3 RATE (c)	6/47.54	8/44.81
POLY-3 PERCENT (g)	12.6%	17.9%
TERMINAL (d)	5/42 (12%)	7/38 (18%)
FIRST INCIDENCE	694	734

STATISTICAL TESTS

POLY 3	P=0.342
POLY 1.5	P=0.356
POLY 6	P=0.336
RAO-SCOTT	P=0.366
LITTER C-A/FISHERS	P=0.371

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

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Lab: BAT

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

Males

DOSE	0/20 ppm	300/20 ppm
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Prostate
Adenoma

TUMOR RATES

OVERALL (a)	1/50 (2%)	3/50 (6%)
LITTERS (b)	1/25 (4%)	3/25 (12%)
POLY-3 RATE (c)	1/47.35	3/44.78
POLY-3 PERCENT (g)	2.1%	6.7%
TERMINAL (d)	1/42 (2%)	3/38 (8%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.286
POLY 1.5	P=0.292
POLY 6	P=0.284
RAO-SCOTT	P=0.336
LITTER C-A/FISHERS	P=0.305

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Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

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Lab: BAT

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

Males

DOSE **0/20 ppm** **300/20 ppm**

Skin

Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma

TUMOR RATES

	#	#
OVERALL (a)	3/50 (6%)	3/50 (6%)
LITTERS (b)	3/25 (12%)	3/25 (12%)
POLY-3 RATE (c)	3/47.35	3/45.00
POLY-3 PERCENT (g)	6.3%	6.7%
TERMINAL (d)	3/42 (7%)	2/38 (5%)
FIRST INCIDENCE	743 (T)	683

STATISTICAL TESTS

POLY 3	P=0.638
POLY 1.5	P=0.645
POLY 6	P=0.638
RAO-SCOTT	P=0.627
LITTER C-A/FISHERS	P=0.666

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

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

Males

DOSE	0/20 ppm	300/20 ppm
------	----------	------------

Skin
Fibroma

TUMOR RATES	#	#
OVERALL (a)	5/50 (10%)	3/50 (6%)
LITTERS (b)	5/25 (20%)	3/25 (12%)
POLY-3 RATE (c)	5/47.35	3/45.86
POLY-3 PERCENT (g)	10.6%	6.5%
TERMINAL (d)	5/42 (12%)	0/38 (0%)
FIRST INCIDENCE	743 (T)	478

STATISTICAL TESTS

POLY 3	P=0.374N
POLY 1.5	P=0.371N
POLY 6	P=0.371N
RAO-SCOTT	P=0.375N
LITTER C-A/FISHERS	P=0.351N

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

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

Males

DOSE	0/20 ppm	300/20 ppm
------	----------	------------

Skin
Keratoacanthoma

TUMOR RATES	#	#
OVERALL (a)	2/50 (4%)	3/50 (6%)
LITTERS (b)	2/25 (8%)	3/25 (12%)
POLY-3 RATE (c)	2/47.35	3/45.00
POLY-3 PERCENT (g)	4.2%	6.7%
TERMINAL (d)	2/42 (5%)	2/38 (5%)
FIRST INCIDENCE	743 (T)	683

STATISTICAL TESTS

POLY 3	P=0.477
POLY 1.5	P=0.483
POLY 6	P=0.476
RAO-SCOTT	P=0.478
LITTER C-A/FISHERS	P=0.500

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

Lab: BAT

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

Males

DOSE	0/20 ppm	300/20 ppm
------	----------	------------

Skin
Lipoma

TUMOR RATES	#	#
OVERALL (a)	2/50 (4%)	1/50 (2%)
LITTERS (b)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	2/47.35	1/44.78
POLY-3 PERCENT (g)	4.2%	2.2%
TERMINAL (d)	2/42 (5%)	1/38 (3%)
FIRST INCIDENCE	743 (T)	743 (T)

STATISTICAL TESTS

POLY 3	P=0.519N
POLY 1.5	P=0.514N
POLY 6	P=0.521N
RAO-SCOTT	P=0.528N
LITTER C-A/FISHERS	P=0.500N

Experiment Number: 20614 - 02

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P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

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Time Report Requested: 17:07:17

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

Lab: BAT

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

Males

DOSE	0/20 ppm	300/20 ppm
------	----------	------------

Skin
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma

TUMOR RATES	#	#
OVERALL (a)	3/50 (6%)	3/50 (6%)
LITTERS (b)	3/25 (12%)	3/25 (12%)
POLY-3 RATE (c)	3/47.35	3/45.00
POLY-3 PERCENT (g)	6.3%	6.7%
TERMINAL (d)	3/42 (7%)	2/38 (5%)
FIRST INCIDENCE	743 (T)	683

STATISTICAL TESTS

POLY 3	P=0.638
POLY 1.5	P=0.645
POLY 6	P=0.638
RAO-SCOTT	P=0.627
LITTER C-A/FISHERS	P=0.666

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

Males

DOSE	0/20 ppm	300/20 ppm
------	----------	------------

Skin

Squamous Cell Papilloma, Papilloma, or Keratoacanthoma

TUMOR RATES

	#	#
OVERALL (a)	3/50 (6%)	3/50 (6%)
LITTERS (b)	3/25 (12%)	3/25 (12%)
POLY-3 RATE (c)	3/47.35	3/45.00
POLY-3 PERCENT (g)	6.3%	6.7%
TERMINAL (d)	3/42 (7%)	2/38 (5%)
FIRST INCIDENCE	743 (T)	683

STATISTICAL TESTS

POLY 3	P=0.638
POLY 1.5	P=0.645
POLY 6	P=0.638
RAO-SCOTT	P=0.627
LITTER C-A/FISHERS	P=0.666

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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: 06/07/2018
Time Report Requested: 17:07:17
First Dose M/F: 07/27/09 / NA
Lab: BAT

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

Males

DOSE	0/20 ppm	300/20 ppm
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Thyroid Gland: C-Cell
Adenoma

TUMOR RATES

OVERALL (a)	11/50 (22%)	11/50 (22%)
LITTERS (b)	8/25 (32%)	10/25 (40%)
POLY-3 RATE (c)	11/47.77	11/44.97
POLY-3 PERCENT (g)	23%	24.5%
TERMINAL (d)	9/42 (21%)	10/38 (26%)
FIRST INCIDENCE	679	693

STATISTICAL TESTS

POLY 3	P=0.532
POLY 1.5	P=0.552
POLY 6	P=0.523
RAO-SCOTT	P=0.541
LITTER C-A/FISHERS	P=0.384

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: 17:07:17

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

Lab: BAT

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

Males

DOSE	0/20 ppm	300/20 ppm
------	----------	------------

Thyroid Gland: C-Cell
Carcinoma

TUMOR RATES

OVERALL (a)	3/50 (6%)	0/50 (0%)
LITTERS (b)	3/25 (12%)	0/25 (0%)
POLY-3 RATE (c)	3/47.47	0/44.78
POLY-3 PERCENT (g)	6.3%	0%
TERMINAL (d)	2/42 (5%)	0/38 (0%)
FIRST INCIDENCE	711	---

STATISTICAL TESTS

POLY 3	P=0.130N
POLY 1.5	P=0.126N
POLY 6	P=0.131N
RAO-SCOTT	P=0.214N
LITTER C-A/FISHERS	P=0.117N

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: 17:07:17

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

Lab: BAT

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

Males

DOSE	0/20 ppm	300/20 ppm
------	----------	------------

Thyroid Gland: C-Cell
Carcinoma or Adenoma

TUMOR RATES

OVERALL (a)	14/50 (28%)	11/50 (22%)
LITTERS (b)	10/25 (40%)	10/25 (40%)
POLY-3 RATE (c)	14/47.90	11/44.97
POLY-3 PERCENT (g)	29.2%	24.5%
TERMINAL (d)	11/42 (26%)	10/38 (26%)
FIRST INCIDENCE	679	693

STATISTICAL TESTS

POLY 3	P=0.389N
POLY 1.5	P=0.367N
POLY 6	P=0.401N
RAO-SCOTT	P=0.414N
LITTER C-A/FISHERS	P=0.613

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: 17:07:17

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

Lab: BAT

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

Males

DOSE	0/20 ppm	300/20 ppm
------	----------	------------

All Organs

Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type

TUMOR RATES

	#	#
OVERALL (a)	2/50 (4%)	1/50 (2%)
LITTERS (b)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	2/47.35	1/45.50
POLY-3 PERCENT (g)	4.2%	2.2%
TERMINAL (d)	2/42 (5%)	0/38 (0%)
FIRST INCIDENCE	743 (T)	485

STATISTICAL TESTS

POLY 3	P=0.514N
POLY 1.5	P=0.510N
POLY 6	P=0.514N
RAO-SCOTT	P=0.526N
LITTER C-A/FISHERS	P=0.500N

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

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

Lab: BAT

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

Males

DOSE	0/20 ppm	300/20 ppm
------	----------	------------

All Organs

Mesothelioma: Benign, Malignant, NOS

TUMOR RATES

	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	0/47.35	2/44.81
POLY-3 PERCENT (g)	0%	4.5%
TERMINAL (d)	0/42 (0%)	1/38 (3%)
FIRST INCIDENCE	---	734

STATISTICAL TESTS

POLY 3	P=0.225
POLY 1.5	P=0.229
POLY 6	P=0.224
RAO-SCOTT	P=0.344
LITTER C-A/FISHERS	P=0.245

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: 17:07:17

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

Lab: BAT

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

Males

DOSE	0/20 ppm	300/20 ppm
------	----------	------------

All Organs

Mesothelioma: Malignant

TUMOR RATES

	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	0/47.35	2/44.81
POLY-3 PERCENT (g)	0%	4.5%
TERMINAL (d)	0/42 (0%)	1/38 (3%)
FIRST INCIDENCE	---	734

STATISTICAL TESTS

POLY 3	P=0.225
POLY 1.5	P=0.229
POLY 6	P=0.224
RAO-SCOTT	P=0.344
LITTER C-A/FISHERS	P=0.245

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: 17:07:17

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

Lab: BAT

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

Males

DOSE	0/20 ppm	300/20 ppm
------	----------	------------

All Organs
Benign Tumors

TUMOR RATES	#	#
OVERALL (a)	40/50 (80%)	37/50 (74%)
LITTERS (b)	23/25 (92%)	23/25 (92%)
POLY-3 RATE (c)	40/48.09	37/46.10
POLY-3 PERCENT (g)	83.2%	80.3%
TERMINAL (d)	37/42 (88%)	31/38 (82%)
FIRST INCIDENCE	655	478

STATISTICAL TESTS

POLY 3	P=0.459N
POLY 1.5	P=0.414N
POLY 6	P=0.463N
RAO-SCOTT	P=0.482N
LITTER C-A/FISHERS	P=0.695

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: 17:07:17

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

Lab: BAT

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

Males

DOSE	0/20 ppm	300/20 ppm
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All Organs
Malignant Tumors

TUMOR RATES	#	#
OVERALL (a)	12/50 (24%)	6/50 (12%)
LITTERS (b)	12/25 (48%)	6/25 (24%)
POLY-3 RATE (c)	12/48.03	6/46.29
POLY-3 PERCENT (g)	25%	13%
TERMINAL (d)	9/42 (21%)	3/38 (8%)
FIRST INCIDENCE	666	465

STATISTICAL TESTS

POLY 3	P=0.110N
POLY 1.5	P=0.105N
POLY 6	P=0.112N
RAO-SCOTT	P=0.108N
LITTER C-A/FISHERS	P=0.070N

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Perfluorooctanoic Acid

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

Lab: BAT

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

Males

DOSE	0/20 ppm	300/20 ppm
------	----------	------------

All Organs
Malignant and Benign Tumors

TUMOR RATES	#	#
OVERALL (a)	46/50 (92%)	40/50 (80%)
LITTERS (b)	24/25 (96%)	23/25 (92%)
POLY-3 RATE (c)	46/48.77	40/47.58
POLY-3 PERCENT (g)	94.3%	84.1%
TERMINAL (d)	40/42 (95%)	32/38 (84%)
FIRST INCIDENCE	655	465

STATISTICAL TESTS

POLY 3	P=0.092N
POLY 1.5	P=0.080N
POLY 6	P=0.095N
RAO-SCOTT	P=0.176N
LITTER C-A/FISHERS	P=0.500N

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

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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 ***