

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: 03/13/2022
Time Report Requested: 11:10:29
First Dose M/F: 10/27/08 / 10/28/08
Lab: BAT

Custom Rpt (Litter-Based) -- 0-1000, 300-1000

NTP Study Number: C20614
Lock Date: 01/10/2012
Cage Range: ALL
Date Range: ALL
Reasons For Removal: 25021 TSAC 25020 NATD 25019 MSAC
25016 Aborted
Removal Date Range: ALL
Treatment Groups: Include 008 0/1000 ppm Include 010 300/1000 ppm
Study Gender: Both
TDMSE Version: 2.5.0.0_SFH
PWG Approval Date: 07/25/2018

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: 03/13/2022

Time Report Requested: 11:10:29

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

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

Islets, Pancreatic

Liver

Pancreas

Pituitary Gland

Thyroid Gland

Uterus

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: 03/13/2022

Time Report Requested: 11:10:29

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

Lab: BAT

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

FEMALE RATS

Organ

Mammary Gland

Morphology

Fibroadenoma

Fibroma, Fibroadenoma or Adenoma

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: 03/13/2022

Time Report Requested: 11:10:29

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**

Females

DOSE	0/1000 ppm	300/1000 ppm
-------------	-------------------	---------------------

**Adrenal Medulla
Pheochromocytoma Benign**

TUMOR RATES

OVERALL (a)	2/49 (4%)	1/50 (2%)
LITTERS (b)	2/31 (6%)	1/30 (3%)
POLY-3 RATE (c)	2/37.06	1/37.45
POLY-3 PERCENT (g)	5.4%	2.7%
TERMINAL (d)	1/23 (4%)	0/23 (0%)
FIRST INCIDENCE	695	683

STATISTICAL TESTS

POLY 3	P=0.496N
POLY 1.5	P=0.490N
POLY 6	P=0.512N
RAO-SCOTT	P=0.464N
LITTER C-A/FISHERS	P=0.513N

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: 03/13/2022

Time Report Requested: 11:10:29

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**

Females

DOSE	0/1000 ppm	300/1000 ppm
-------------	-------------------	---------------------

Adrenal Medulla

Pheochromocytoma: Benign, Complex, Malignant, NOS

TUMOR RATES

OVERALL (a)	2/49 (4%)	2/50 (4%)
LITTERS (b)	2/31 (6%)	2/30 (7%)
POLY-3 RATE (c)	2/37.06	2/37.45
POLY-3 PERCENT (g)	5.4%	5.3%
TERMINAL (d)	1/23 (4%)	1/23 (4%)
FIRST INCIDENCE	695	683

STATISTICAL TESTS

POLY 3	P=0.691N
POLY 1.5	P=0.684N
POLY 6	P=0.684
RAO-SCOTT	P=0.647N
LITTER C-A/FISHERS	P=0.681

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: 03/13/2022

Time Report Requested: 11:10:29

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**

Females

DOSE	0/1000 ppm	300/1000 ppm
-------------	-------------------	---------------------

**Islets, Pancreatic
Adenoma**

TUMOR RATES

OVERALL (a)	1/49 (2%)	2/50 (4%)
LITTERS (b)	1/31 (3%)	2/30 (7%)
POLY-3 RATE (c)	1/37.50	2/37.41
POLY-3 PERCENT (g)	2.7%	5.4%
TERMINAL (d)	0/23 (0%)	1/23 (4%)
FIRST INCIDENCE	540	695

STATISTICAL TESTS

POLY 3	P=0.499
POLY 1.5	P=0.508
POLY 6	P=0.482
RAO-SCOTT	P=0.474
LITTER C-A/FISHERS	P=0.487

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: 03/13/2022
Time Report Requested: 11:10:29
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**

Females

DOSE	0/1000 ppm	300/1000 ppm
------	------------	--------------

Liver
Hepatocellular Adenoma

TUMOR RATES

OVERALL (a)	1/49 (2%)	3/50 (6%)
LITTERS (b)	1/31 (3%)	3/30 (10%)
POLY-3 RATE (c)	1/36.88	3/37.63
POLY-3 PERCENT (g)	2.7%	8%
TERMINAL (d)	1/23 (4%)	2/23 (9%)
FIRST INCIDENCE	744 (T)	624

STATISTICAL TESTS

POLY 3	P=0.311
POLY 1.5	P=0.317
POLY 6	P=0.297
RAO-SCOTT	P=0.311
LITTER C-A/FISHERS	P=0.294

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: 03/13/2022

Time Report Requested: 11:10:29

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**

Females

DOSE	0/1000 ppm	300/1000 ppm
-------------	-------------------	---------------------

Liver
Hepatocellular Carcinoma

TUMOR RATES

OVERALL (a)	3/49 (6%)	4/50 (8%)
LITTERS (b)	3/31 (10%)	4/30 (13%)
POLY-3 RATE (c)	3/36.98	4/37.22
POLY-3 PERCENT (g)	8.1%	10.8%
TERMINAL (d)	2/23 (9%)	4/23 (17%)
FIRST INCIDENCE	718	744 (T)

STATISTICAL TESTS

POLY 3	P=0.504
POLY 1.5	P=0.515
POLY 6	P=0.477
RAO-SCOTT	P=0.474
LITTER C-A/FISHERS	P=0.481

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: 03/13/2022

Time Report Requested: 11:10:29

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**

Females

DOSE	0/1000 ppm	300/1000 ppm
-------------	-------------------	---------------------

Liver

Hepatocellular Carcinoma or Hepatocellular Adenoma

TUMOR RATES

OVERALL (a)	4/49 (8%)	6/50 (12%)
LITTERS (b)	4/31 (13%)	6/30 (20%)
POLY-3 RATE (c)	4/36.98	6/37.63
POLY-3 PERCENT (g)	10.8%	15.9%
TERMINAL (d)	3/23 (13%)	5/23 (22%)
FIRST INCIDENCE	718	624

STATISTICAL TESTS

POLY 3	P=0.378
POLY 1.5	P=0.389
POLY 6	P=0.352
RAO-SCOTT	P=0.354
LITTER C-A/FISHERS	P=0.344

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: 03/13/2022

Time Report Requested: 11:10:29

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**

Females

DOSE	0/1000 ppm	300/1000 ppm
-------------	-------------------	---------------------

Liver
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma

TUMOR RATES

OVERALL (a)	4/49 (8%)	6/50 (12%)
LITTERS (b)	4/31 (13%)	6/30 (20%)
POLY-3 RATE (c)	4/36.98	6/37.63
POLY-3 PERCENT (g)	10.8%	15.9%
TERMINAL (d)	3/23 (13%)	5/23 (22%)
FIRST INCIDENCE	718	624

STATISTICAL TESTS

POLY 3	P=0.378
POLY 1.5	P=0.389
POLY 6	P=0.352
RAO-SCOTT	P=0.354
LITTER C-A/FISHERS	P=0.344

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: 03/13/2022

Time Report Requested: 11:10:29

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**

Females

DOSE	0/1000 ppm	300/1000 ppm
-------------	-------------------	---------------------

**Mammary Gland
Carcinoma**

TUMOR RATES

	#	#
OVERALL (a)	1/50 (2%)	4/50 (8%)
LITTERS (b)	1/31 (3%)	4/30 (13%)
POLY-3 RATE (c)	1/37.15	4/37.85
POLY-3 PERCENT (g)	2.7%	10.6%
TERMINAL (d)	0/23 (0%)	2/23 (9%)
FIRST INCIDENCE	669	638

STATISTICAL TESTS

POLY 3	P=0.182
POLY 1.5	P=0.188
POLY 6	P=0.170
RAO-SCOTT	P=0.196
LITTER C-A/FISHERS	P=0.167

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: 03/13/2022

Time Report Requested: 11:10:29

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**

Females

DOSE	0/1000 ppm	300/1000 ppm
------	------------	--------------

**Mammary Gland
Carcinoma or Adenoma**

TUMOR RATES

	#	#
OVERALL (a)	1/50 (2%)	5/50 (10%)
LITTERS (b)	1/31 (3%)	5/30 (17%)
POLY-3 RATE (c)	1/37.15	5/37.85
POLY-3 PERCENT (g)	2.7%	13.2%
TERMINAL (d)	0/23 (0%)	3/23 (13%)
FIRST INCIDENCE	669	638

STATISTICAL TESTS

POLY 3	P=0.103
POLY 1.5	P=0.108
POLY 6	P=0.093
RAO-SCOTT	P=0.126
LITTER C-A/FISHERS	P=0.090

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: 03/13/2022

Time Report Requested: 11:10:29

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**

Females

DOSE	0/1000 ppm	300/1000 ppm
------	------------	--------------

**Mammary Gland
Fibroadenoma**

TUMOR RATES

	#	#
OVERALL (a)	20/50 (40%)	12/50 (24%)
LITTERS (b)	17/31 (55%)	11/30 (37%)
POLY-3 RATE (c)	20/40.26	12/40.11
POLY-3 PERCENT (g)	49.7%	29.9%
TERMINAL (d)	9/23 (39%)	3/23 (13%)
FIRST INCIDENCE	484	491

STATISTICAL TESTS

POLY 3	P=0.052N
POLY 1.5	P=0.047N*
POLY 6	P=0.069N
RAO-SCOTT	P=0.067N
LITTER C-A/FISHERS	P=0.122N

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: 03/13/2022
Time Report Requested: 11:10:29
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**

Females

DOSE	0/1000 ppm	300/1000 ppm
------	------------	--------------

**Mammary Gland
Fibroma, Fibroadenoma or Adenoma**

TUMOR RATES	#	#
OVERALL (a)	20/50 (40%)	12/50 (24%)
LITTERS (b)	17/31 (55%)	11/30 (37%)
POLY-3 RATE (c)	20/40.26	12/40.11
POLY-3 PERCENT (g)	49.7%	29.9%
TERMINAL (d)	9/23 (39%)	3/23 (13%)
FIRST INCIDENCE	484	491

STATISTICAL TESTS

POLY 3	P=0.052N
POLY 1.5	P=0.047N*
POLY 6	P=0.069N
RAO-SCOTT	P=0.067N
LITTER C-A/FISHERS	P=0.122N

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: 03/13/2022

Time Report Requested: 11:10:29

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**

Females

DOSE	0/1000 ppm	300/1000 ppm
-------------	-------------------	---------------------

Mammary Gland
Fibroma, Fibroadenoma, Carcinoma, or Adenoma

TUMOR RATES	#	#
OVERALL (a)	21/50 (42%)	15/50 (30%)
LITTERS (b)	17/31 (55%)	12/30 (40%)
POLY-3 RATE (c)	21/40.53	15/40.48
POLY-3 PERCENT (g)	51.8%	37.1%
TERMINAL (d)	9/23 (39%)	5/23 (22%)
FIRST INCIDENCE	484	491

STATISTICAL TESTS

POLY 3	P=0.128N
POLY 1.5	P=0.115N
POLY 6	P=0.163N
RAO-SCOTT	P=0.162N
LITTER C-A/FISHERS	P=0.183N

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: 03/13/2022

Time Report Requested: 11:10:29

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**

Females

DOSE	0/1000 ppm	300/1000 ppm
-------------	-------------------	---------------------

**Pancreas
Adenoma**

TUMOR RATES

OVERALL (a)	1/49 (2%)	3/50 (6%)
LITTERS (b)	1/31 (3%)	3/30 (10%)
POLY-3 RATE (c)	1/36.88	3/37.48
POLY-3 PERCENT (g)	2.7%	8%
TERMINAL (d)	1/23 (4%)	2/23 (9%)
FIRST INCIDENCE	744 (T)	673

STATISTICAL TESTS

POLY 3	P=0.310
POLY 1.5	P=0.316
POLY 6	P=0.295
RAO-SCOTT	P=0.318
LITTER C-A/FISHERS	P=0.294

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: 03/13/2022
Time Report Requested: 11:10:29
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**

Females

DOSE	0/1000 ppm	300/1000 ppm
-------------	-------------------	---------------------

**Pancreas
Carcinoma**

TUMOR RATES

OVERALL (a)	1/49 (2%)	2/50 (4%)
LITTERS (b)	1/31 (3%)	2/30 (7%)
POLY-3 RATE (c)	1/36.96	2/37.86
POLY-3 PERCENT (g)	2.7%	5.3%
TERMINAL (d)	0/23 (0%)	0/23 (0%)
FIRST INCIDENCE	722	574

STATISTICAL TESTS

POLY 3	P=0.508
POLY 1.5	P=0.513
POLY 6	P=0.496
RAO-SCOTT	P=0.479
LITTER C-A/FISHERS	P=0.487

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: 03/13/2022

Time Report Requested: 11:10:29

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**

Females

DOSE	0/1000 ppm	300/1000 ppm
-------------	-------------------	---------------------

**Pancreas
Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	2/49 (4%)	5/50 (10%)
LITTERS (b)	2/31 (6%)	5/30 (17%)
POLY-3 RATE (c)	2/36.96	5/38.12
POLY-3 PERCENT (g)	5.4%	13.1%
TERMINAL (d)	1/23 (4%)	2/23 (9%)
FIRST INCIDENCE	722	574

STATISTICAL TESTS

POLY 3	P=0.226
POLY 1.5	P=0.231
POLY 6	P=0.213
RAO-SCOTT	P=0.232
LITTER C-A/FISHERS	P=0.199

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: 03/13/2022

Time Report Requested: 11:10:29

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**

Females

DOSE	0/1000 ppm	300/1000 ppm
-------------	-------------------	---------------------

**Pituitary Gland: Pars Distalis or Unspecified Site
Adenoma**

TUMOR RATES

OVERALL (a)	8/49 (16%)	5/50 (10%)
LITTERS (b)	7/31 (23%)	5/30 (17%)
POLY-3 RATE (c)	8/37.34	5/38.28
POLY-3 PERCENT (g)	21.4%	13.1%
TERMINAL (d)	5/23 (22%)	2/23 (9%)
FIRST INCIDENCE	669	589

STATISTICAL TESTS

POLY 3	P=0.254N
POLY 1.5	P=0.249N
POLY 6	P=0.274N
RAO-SCOTT	P=0.267N
LITTER C-A/FISHERS	P=0.399N

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: 03/13/2022

Time Report Requested: 11:10:29

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**

Females

DOSE	0/1000 ppm	300/1000 ppm
------	------------	--------------

Thyroid Gland: C-Cell
Adenoma

TUMOR RATES

OVERALL (a)	3/48 (6%)	4/50 (8%)
LITTERS (b)	3/31 (10%)	4/30 (13%)
POLY-3 RATE (c)	3/36.69	4/37.82
POLY-3 PERCENT (g)	8.2%	10.6%
TERMINAL (d)	1/23 (4%)	2/23 (9%)
FIRST INCIDENCE	695	638

STATISTICAL TESTS

POLY 3	P=0.517
POLY 1.5	P=0.527
POLY 6	P=0.492
RAO-SCOTT	P=0.485
LITTER C-A/FISHERS	P=0.481

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: 03/13/2022
Time Report Requested: 11:10:29
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**

Females

DOSE	0/1000 ppm	300/1000 ppm
------	------------	--------------

Thyroid Gland: C-Cell
Carcinoma or Adenoma

TUMOR RATES

OVERALL (a)	4/48 (8%)	4/50 (8%)
LITTERS (b)	4/31 (13%)	4/30 (13%)
POLY-3 RATE (c)	4/36.69	4/37.82
POLY-3 PERCENT (g)	10.9%	10.6%
TERMINAL (d)	2/23 (9%)	2/23 (9%)
FIRST INCIDENCE	695	638

STATISTICAL TESTS

POLY 3	P=0.628N
POLY 1.5	P=0.616N
POLY 6	P=0.638
RAO-SCOTT	P=0.595N
LITTER C-A/FISHERS	P=0.628

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: 03/13/2022

Time Report Requested: 11:10:29

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**

Females

DOSE	0/1000 ppm	300/1000 ppm
-------------	-------------------	---------------------

Uterus
Carcinoma

TUMOR RATES

OVERALL (a)	4/49 (8%)	1/50 (2%)
LITTERS (b)	4/31 (13%)	1/30 (3%)
POLY-3 RATE (c)	4/37.30	1/37.22
POLY-3 PERCENT (g)	10.7%	2.7%
TERMINAL (d)	1/23 (4%)	1/23 (4%)
FIRST INCIDENCE	652	744 (T)

STATISTICAL TESTS

POLY 3	P=0.177N
POLY 1.5	P=0.170N
POLY 6	P=0.193N
RAO-SCOTT	P=0.194N
LITTER C-A/FISHERS	P=0.187N

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: 03/13/2022
Time Report Requested: 11:10:29
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**

Females

DOSE	0/1000 ppm	300/1000 ppm
------	------------	--------------

Uterus
Polyp Stromal

TUMOR RATES

OVERALL (a)	5/49 (10%)	3/50 (6%)
LITTERS (b)	5/31 (16%)	3/30 (10%)
POLY-3 RATE (c)	5/37.09	3/37.63
POLY-3 PERCENT (g)	13.5%	8%
TERMINAL (d)	3/23 (13%)	2/23 (9%)
FIRST INCIDENCE	695	624

STATISTICAL TESTS

POLY 3	P=0.346N
POLY 1.5	P=0.338N
POLY 6	P=0.369N
RAO-SCOTT	P=0.319N
LITTER C-A/FISHERS	P=0.372N

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: 03/13/2022
Time Report Requested: 11:10:29
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**

Females

DOSE	0/1000 ppm	300/1000 ppm
------	------------	--------------

Uterus
Sarcoma Stromal or Polyp Stromal

TUMOR RATES

OVERALL (a)	6/49 (12%)	3/50 (6%)
LITTERS (b)	5/31 (16%)	3/30 (10%)
POLY-3 RATE (c)	6/37.36	3/37.63
POLY-3 PERCENT (g)	16.1%	8%
TERMINAL (d)	3/23 (13%)	2/23 (9%)
FIRST INCIDENCE	669	624

STATISTICAL TESTS

POLY 3	P=0.234N
POLY 1.5	P=0.226N
POLY 6	P=0.257N
RAO-SCOTT	P=0.258N
LITTER C-A/FISHERS	P=0.372N

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: 03/13/2022

Time Report Requested: 11:10:29

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**

Females

DOSE	0/1000 ppm	300/1000 ppm
------	------------	--------------

All Organs

Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated

TUMOR RATES

	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)
LITTERS (b)	1/31 (3%)	2/30 (7%)
POLY-3 RATE (c)	1/37.06	2/37.22
POLY-3 PERCENT (g)	2.7%	5.4%
TERMINAL (d)	0/23 (0%)	2/23 (9%)
FIRST INCIDENCE	695	744 (T)

STATISTICAL TESTS

POLY 3	P=0.501
POLY 1.5	P=0.509
POLY 6	P=0.484
RAO-SCOTT	P=0.468
LITTER C-A/FISHERS	P=0.487

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: 03/13/2022

Time Report Requested: 11:10:29

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**

Females

DOSE	0/1000 ppm	300/1000 ppm
-------------	-------------------	---------------------

All Organs
Benign Tumors

TUMOR RATES	#	#
OVERALL (a)	31/50 (62%)	27/50 (54%)
LITTERS (b)	24/31 (77%)	22/30 (73%)
POLY-3 RATE (c)	31/40.65	27/41.87
POLY-3 PERCENT (g)	76.3%	64.5%
TERMINAL (d)	17/23 (74%)	13/23 (57%)
FIRST INCIDENCE	484	491

STATISTICAL TESTS

POLY 3	P=0.164N
POLY 1.5	P=0.164N
POLY 6	P=0.195N
RAO-SCOTT	P=0.170N
LITTER C-A/FISHERS	P=0.471N

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: 03/13/2022
Time Report Requested: 11:10:29
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**

Females		
DOSE	0/1000 ppm	300/1000 ppm
All Organs		
Malignant Tumors		
<hr/>		
TUMOR RATES	#	#
OVERALL (a)	15/50 (30%)	16/50 (32%)
LITTERS (b)	14/31 (45%)	15/30 (50%)
POLY-3 RATE (c)	15/39.69	16/39.00
POLY-3 PERCENT (g)	37.8%	41%
TERMINAL (d)	5/23 (22%)	10/23 (44%)
FIRST INCIDENCE	379	574
<hr/>		
STATISTICAL TESTS		
POLY 3		P=0.475
POLY 1.5		P=0.514
POLY 6		P=0.403
RAO-SCOTT		P=0.456
LITTER C-A/FISHERS		P=0.452

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: 03/13/2022
Time Report Requested: 11:10:29
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**

Females		
DOSE	0/1000 ppm	300/1000 ppm
All Organs		
Malignant and Benign Tumors		
<hr/>		
TUMOR RATES	#	#
OVERALL (a)	36/50 (72%)	35/50 (70%)
LITTERS (b)	27/31 (87%)	26/30 (87%)
POLY-3 RATE (c)	36/42.27	35/42.78
POLY-3 PERCENT (g)	85.2%	81.8%
TERMINAL (d)	18/23 (78%)	18/23 (78%)
FIRST INCIDENCE	379	491
<hr/>		
STATISTICAL TESTS		
POLY 3		P=0.447N
POLY 1.5		P=0.405N
POLY 6		P=0.529N
RAO-SCOTT		P=0.434N
LITTER C-A/FISHERS		P=0.628N

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: 03/13/2022

Time Report Requested: 11:10:29

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

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 ***