

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: 15:04:23

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.**

Uterus (Longitudinal Evaluation)

Uterus (Standard Evaluation)

Uterus (Standard or Longitudinal Evaluation)

Vagina (Longitudinal Evaluation)

Vagina (Standard or Longitudinal Evaluation)

Experiment Number: 20614 - 01

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Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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Uterus (Standard Evaluation)

Adenoma

TUMOR RATES

	#	#
OVERALL (a)	1/49 (2%)	0/50 (0%)
LITTERS (b)	1/29 (3%)	0/29 (0%)
POLY-3 RATE (c)	1/40.88	0/41.44
POLY-3 PERCENT (g)	2.5%	0%
TERMINAL (d)	1/27 (4%)	0/32 (0%)
FIRST INCIDENCE	744 (T)	---

STATISTICAL TESTS

POLY 3	P=0.497N
POLY 1.5	P=0.499N
POLY 6	P=0.491N
RAO-SCOTT	P=0.577N
LITTER C-A/FISHERS	P=0.500N

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Females

DOSE	0/300 ppm	150/300 ppm
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Uterus (Standard or Longitudinal Evaluation)

Adenoma

TUMOR RATES

	#	#
OVERALL (a)	1/49 (2%)	0/50 (0%)
LITTERS (b)	1/29 (3%)	0/29 (0%)
POLY-3 RATE (c)	1/40.88	0/41.44
POLY-3 PERCENT (g)	2.5%	0%
TERMINAL (d)	1/27 (4%)	0/32 (0%)
FIRST INCIDENCE	744 (T)	---

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POLY 3	P=0.497N
POLY 1.5	P=0.499N
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TERMINAL SACRIFICE AT 107 WEEKS**

Females

DOSE **0/300 ppm** **150/300 ppm**

**Uterus (Standard Evaluation)
Carcinoma**

TUMOR RATES

	#	#
OVERALL (a)	1/49 (2%)	2/50 (4%)
LITTERS (b)	1/29 (3%)	2/29 (7%)
POLY-3 RATE (c)	1/40.88	2/42.01
POLY-3 PERCENT (g)	2.5%	4.8%
TERMINAL (d)	1/27 (4%)	1/32 (3%)
FIRST INCIDENCE	744 (T)	564

STATISTICAL TESTS

POLY 3	P=0.510
POLY 1.5	P=0.505
POLY 6	P=0.522
RAO-SCOTT	P=0.497
LITTER C-A/FISHERS	P=0.500

Experiment Number: 20614 - 01

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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**

Females

DOSE **0/300 ppm** **150/300 ppm**

Uterus (Longitudinal Evaluation)

Carcinoma

TUMOR RATES

	#	#
OVERALL (a)	5/49 (10%)	3/50 (6%)
LITTERS (b)	5/29 (17%)	3/29 (10%)
POLY-3 RATE (c)	5/41.06	3/42.01
POLY-3 PERCENT (g)	12.2%	7.1%
TERMINAL (d)	4/27 (15%)	2/32 (6%)
FIRST INCIDENCE	695	564

STATISTICAL TESTS

POLY 3	P=0.343N
POLY 1.5	P=0.350N
POLY 6	P=0.325N
RAO-SCOTT	P=0.329N
LITTER C-A/FISHERS	P=0.353N

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

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TERMINAL SACRIFICE AT 107 WEEKS**

Females

DOSE	0/300 ppm	150/300 ppm
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Uterus (Standard or Longitudinal Evaluation)

Carcinoma

TUMOR RATES

	#	#
OVERALL (a)	5/49 (10%)	3/50 (6%)
LITTERS (b)	5/29 (17%)	3/29 (10%)
POLY-3 RATE (c)	5/41.06	3/42.01
POLY-3 PERCENT (g)	12.2%	7.1%
TERMINAL (d)	4/27 (15%)	2/32 (6%)
FIRST INCIDENCE	695	564

STATISTICAL TESTS

POLY 3	P=0.343N
POLY 1.5	P=0.350N
POLY 6	P=0.325N
RAO-SCOTT	P=0.329N
LITTER C-A/FISHERS	P=0.353N

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

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Lab: BAT

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

Females

DOSE	0/300 ppm	150/300 ppm
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Uterus (Standard Evaluation)
Carcinoma or Adenoma

TUMOR RATES

	#	#
OVERALL (a)	2/49 (4%)	2/50 (4%)
LITTERS (b)	2/29 (7%)	2/29 (7%)
POLY-3 RATE (c)	2/40.88	2/42.01
POLY-3 PERCENT (g)	4.9%	4.8%
TERMINAL (d)	2/27 (7%)	1/32 (3%)
FIRST INCIDENCE	744 (T)	564

STATISTICAL TESTS

POLY 3	P=0.685N
POLY 1.5	P=0.689N
POLY 6	P=0.672N
RAO-SCOTT	P=0.656N
LITTER C-A/FISHERS	P=0.694

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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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 **0/300 ppm** **150/300 ppm**

**Uterus (Longitudinal Evaluation)
Carcinoma or Adenoma**

TUMOR RATES

	#	#
OVERALL (a)	5/49 (10%)	3/50 (6%)
LITTERS (b)	5/29 (17%)	3/29 (10%)
POLY-3 RATE (c)	5/41.06	3/42.01
POLY-3 PERCENT (g)	12.2%	7.1%
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POLY 3	P=0.343N
POLY 1.5	P=0.350N
POLY 6	P=0.325N
RAO-SCOTT	P=0.329N
LITTER C-A/FISHERS	P=0.353N

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Species/Strain: RATS/HSD

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TERMINAL SACRIFICE AT 107 WEEKS**

Females

DOSE **0/300 ppm** **150/300 ppm**

**Uterus (Standard or Longitudinal Evaluation)
Carcinoma or Adenoma**

TUMOR RATES

	#	#
OVERALL (a)	5/49 (10%)	3/50 (6%)
LITTERS (b)	5/29 (17%)	3/29 (10%)
POLY-3 RATE (c)	5/41.06	3/42.01
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POLY 1.5	P=0.350N
POLY 6	P=0.325N
RAO-SCOTT	P=0.329N
LITTER C-A/FISHERS	P=0.353N

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

Females

DOSE	0/300 ppm	150/300 ppm
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Uterus (Standard Evaluation)
Lymphoma

TUMOR RATES

	#	#
OVERALL (a)	1/49 (2%)	0/50 (0%)
LITTERS (b)	1/29 (3%)	0/29 (0%)
POLY-3 RATE (c)	1/41.38	0/41.44
POLY-3 PERCENT (g)	2.4%	0%
TERMINAL (d)	0/27 (0%)	0/32 (0%)
FIRST INCIDENCE	589	---

STATISTICAL TESTS

POLY 3	P=0.500N
POLY 1.5	P=0.500N
POLY 6	P=0.495N
RAO-SCOTT	P=0.587N
LITTER C-A/FISHERS	P=0.500N

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Species/Strain: RATS/HSD

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

Females

DOSE	0/300 ppm	150/300 ppm
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Uterus (Longitudinal Evaluation)
Lymphoma

TUMOR RATES	#	#
OVERALL (a)	1/49 (2%)	0/50 (0%)
LITTERS (b)	1/29 (3%)	0/29 (0%)
POLY-3 RATE (c)	1/41.38	0/41.44
POLY-3 PERCENT (g)	2.4%	0%
TERMINAL (d)	0/27 (0%)	0/32 (0%)
FIRST INCIDENCE	589	---

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POLY 1.5	P=0.500N
POLY 6	P=0.495N
RAO-SCOTT	P=0.587N
LITTER C-A/FISHERS	P=0.500N

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TERMINAL SACRIFICE AT 107 WEEKS**

Females

DOSE **0/300 ppm** **150/300 ppm**

Uterus (Standard or Longitudinal Evaluation)

Lymphoma

TUMOR RATES

	#	#
OVERALL (a)	1/49 (2%)	0/50 (0%)
LITTERS (b)	1/29 (3%)	0/29 (0%)
POLY-3 RATE (c)	1/41.38	0/41.44
POLY-3 PERCENT (g)	2.4%	0%
TERMINAL (d)	0/27 (0%)	0/32 (0%)
FIRST INCIDENCE	589	---

STATISTICAL TESTS

POLY 3	P=0.500N
POLY 1.5	P=0.500N
POLY 6	P=0.495N
RAO-SCOTT	P=0.587N
LITTER C-A/FISHERS	P=0.500N

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

Females

DOSE	0/300 ppm	150/300 ppm
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Uterus (Standard Evaluation)
Polyp, Stromal

TUMOR RATES

	#	#
OVERALL (a)	4/49 (8%)	4/50 (8%)
LITTERS (b)	4/29 (14%)	4/29 (14%)
POLY-3 RATE (c)	4/41.06	4/41.81
POLY-3 PERCENT (g)	9.7%	9.6%
TERMINAL (d)	3/27 (11%)	3/32 (9%)
FIRST INCIDENCE	695	638

STATISTICAL TESTS

POLY 3	P=0.634N
POLY 1.5	P=0.639N
POLY 6	P=0.617N
RAO-SCOTT	P=0.612N
LITTER C-A/FISHERS	P=0.647

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

Females		
DOSE	0/300 ppm	150/300 ppm
Uterus (Longitudinal Evaluation)		
Polyp, Stromal		
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TUMOR RATES	#	#
OVERALL (a)	11/49 (22%)	13/50 (26%)
LITTERS (b)	10/29 (34%)	11/29 (38%)
POLY-3 RATE (c)	11/42.02	13/42.30
POLY-3 PERCENT (g)	26.2%	30.7%
TERMINAL (d)	9/27 (33%)	9/32 (28%)
FIRST INCIDENCE	250	634
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STATISTICAL TESTS		
POLY 3		P=0.412
POLY 1.5		P=0.401
POLY 6		P=0.454
RAO-SCOTT		P=0.414
LITTER C-A/FISHERS		P=0.500

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Test Type: CHRONIC

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Species/Strain: RATS/HSD

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TERMINAL SACRIFICE AT 107 WEEKS**

Females

DOSE	0/300 ppm	150/300 ppm
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**Uterus (Standard or Longitudinal Evaluation)
Polyp, Stromal**

TUMOR RATES	#	#
OVERALL (a)	11/49 (22%)	13/50 (26%)
LITTERS (b)	10/29 (34%)	11/29 (38%)
POLY-3 RATE (c)	11/42.02	13/42.30
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Females

DOSE	0/300 ppm	150/300 ppm
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Uterus (Standard Evaluation)
Sarcoma Stromal or Polyp Stromal

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OVERALL (a)	4/49 (8%)	4/50 (8%)
LITTERS (b)	4/29 (14%)	4/29 (14%)
POLY-3 RATE (c)	4/41.06	4/41.81
POLY-3 PERCENT (g)	9.7%	9.6%
TERMINAL (d)	3/27 (11%)	3/32 (9%)
FIRST INCIDENCE	695	638

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POLY 1.5	P=0.639N
POLY 6	P=0.617N
RAO-SCOTT	P=0.612N
LITTER C-A/FISHERS	P=0.647

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Females

DOSE	0/300 ppm	150/300 ppm
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Uterus (Longitudinal Evaluation)
Sarcoma Stromal or Polyp Stromal

TUMOR RATES	#	#
OVERALL (a)	11/49 (22%)	13/50 (26%)
LITTERS (b)	10/29 (34%)	11/29 (38%)
POLY-3 RATE (c)	11/42.02	13/42.30
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TERMINAL SACRIFICE AT 107 WEEKS**

Females

DOSE **0/300 ppm** **150/300 ppm**

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

TUMOR RATES

	#	#
OVERALL (a)	11/49 (22%)	13/50 (26%)
LITTERS (b)	10/29 (34%)	11/29 (38%)
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FIRST INCIDENCE	250	634

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POLY 1.5	P=0.401
POLY 6	P=0.454
RAO-SCOTT	P=0.414
LITTER C-A/FISHERS	P=0.500

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

Females

DOSE **0/300 ppm** **150/300 ppm**

Vagina (Longitudinal Evaluation)

Granular Cell Tumor

TUMOR RATES

	#	#
OVERALL (a)	1/49 (2%)	1/50 (2%)
LITTERS (b)	1/29 (3%)	1/29 (3%)
POLY-3 RATE (c)	1/40.88	1/41.54
POLY-3 PERCENT (g)	2.5%	2.4%
TERMINAL (d)	1/27 (4%)	0/32 (0%)
FIRST INCIDENCE	744 (T)	718

STATISTICAL TESTS

POLY 3	P=0.757N
POLY 1.5	P=0.759N
POLY 6	P=0.750N
RAO-SCOTT	P=0.722N
LITTER C-A/FISHERS	P=0.754

Experiment Number: 20614 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

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Females

DOSE	0/300 ppm	150/300 ppm
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Vagina (Standard or Longitudinal Evaluation)

Granular Cell Tumor

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	#	#
OVERALL (a)	1/49 (2%)	1/50 (2%)
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FIRST INCIDENCE	744 (T)	718

STATISTICAL TESTS

POLY 3	P=0.757N
POLY 1.5	P=0.759N
POLY 6	P=0.750N
RAO-SCOTT	P=0.722N
LITTER C-A/FISHERS	P=0.754

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: 15:04:23

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 ***