

**Experiment Number:** 20614 - 02  
**Test Type:** CHRONIC  
**Route:** DOSED FEED  
**Species/Strain:** RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
Perfluorooctanoic Acid  
**CAS Number:** 335-67-1

**Date Report Requested:** 06/07/2018  
**Time Report Requested:** 14:48:32  
**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<br>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  |                        |                        |

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**SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF PERFLUOROOCCTANOIC ACID**

**MALE RATS**

**Organ**

Adrenal Cortex  
Blood Vessel

Heart  
Islets, Pancreatic  
Kidney  
Liver

Liver: Bile Duct  
Liver: Hepatocyte

Nose: Olfactory Epithelium  
Pancreas  
Pancreas: Acinus  
Seminal Vesicle  
Testes  
Thyroid Gland: Follicular Cell

**Morphology**

Degeneration Cystic  
Inflammation  
Inflammation Chronic  
Cardiomyopathy  
Hyperplasia  
Nephropathy Chronic Progressive  
Degeneration Cystic  
Inflammation Focal  
Mixed Cell Focus  
Necrosis  
Pigment  
Hyperplasia  
Cytoplasmic Alteration  
Hypertrophy  
Single Cell Death  
Accumulation, Hyaline Droplet  
Inflammation Chronic  
Hyperplasia  
Inflammation  
Edema  
Hypertrophy

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

| DOSE  | Males       |            |            |            |
|---|-------------|------------|------------|------------|
|   | 300/0 ppm   | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Adrenal Cortex<br/>Degeneration Cystic</b> |             |            |            |            |
| <b>LESION RATES</b>                           |             |            |            |            |
| OVERALL (a)                                   | 12/50 (24%) | 5/50 (10%) | 3/50 (6%)  | 6/50 (12%) |
| LITTERS (b)                                   | 11/25 (44%) | 5/25 (20%) | 3/25 (12%) | 6/26 (23%) |
| POLY-3 RATE (c)                               | 12/44.30    | 5/44.81    | 3/45.82    | 6/44.73    |
| POLY-3 PERCENT (g)                            | 27.1%       | 11.2%      | 6.6%       | 13.4%      |
| TERMINAL (d)                                  | 6/35 (17%)  | 3/38 (8%)  | 2/38 (5%)  | 6/39 (15%) |
| FIRST INCIDENCE                               | 617         | 739        | 701        | 743 (T)    |
| <b>STATISTICAL TESTS</b>                      |             |            |            |            |
| POLY 3  | P=0.081N    | P=0.048N*  | P=0.008N** | P=0.088N   |
| POLY 1.5                                      | P=0.083N    | P=0.050N*  | P=0.009N** | P=0.090N   |
| POLY 6  | P=0.082N    | P=0.047N*  | P=0.008N** | P=0.090N   |
| RAO-SCOTT                                     | P=0.093N    | P=0.059N   | P=0.013N*  | P=0.100N   |
| LITTER C-A/FISHERS                            | P=0.099N    | P=0.064N   | P=0.013N*  | P=0.099N   |

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Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

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| DOSE                              | Males       |             |             |             |
|-----------------------------------|-------------|-------------|-------------|-------------|
|                                   | 300/0 ppm   | 300/20 ppm  | 300/40 ppm  | 300/80 ppm  |
| <b>Adrenal Cortex Hypertrophy</b> |             |             |             |             |
| <b>LESION RATES</b>               |             |             |             |             |
| OVERALL (a)                       | 23/50 (46%) | 24/50 (48%) | 20/50 (40%) | 17/50 (34%) |
| LITTERS (b)                       | 18/25 (72%) | 18/25 (72%) | 15/25 (60%) | 15/26 (58%) |
| POLY-3 RATE (c)                   | 23/43.60    | 24/45.00    | 20/46.11    | 17/44.94    |
| POLY-3 PERCENT (g)                | 52.8%       | 53.3%       | 43.4%       | 37.8%       |
| TERMINAL (d)                      | 20/35 (57%) | 23/38 (61%) | 18/38 (47%) | 16/39 (41%) |
| FIRST INCIDENCE                   | 660         | 683         | 648         | 689         |
| <b>STATISTICAL TESTS</b>          |             |             |             |             |
| POLY 3                            | P=0.059N    | P=0.563     | P=0.247N    | P=0.112N    |
| POLY 1.5                          | P=0.068N    | P=0.534     | P=0.284N    | P=0.127N    |
| POLY 6                            | P=0.055N    | P=0.578N    | P=0.223N    | P=0.102N    |
| RAO-SCOTT                         | P=0.065N    | P=0.555     | P=0.250N    | P=0.118N    |
| LITTER C-A/FISHERS                | P=0.131N    | P=0.623     | P=0.276N    | P=0.219N    |

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Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

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| DOSE  | Males      |            |            |            |
|---|------------|------------|------------|------------|
|   | 300/0 ppm  | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Adrenal Cortex: Zona Fasciculata<br/>Hyperplasia</b> |            |            |            |            |
| <b>LESION RATES</b>                                     |            |            |            |            |
| OVERALL (a)   | 6/50 (12%) | 2/50 (4%)  | 4/50 (8%)  | 5/50 (10%) |
| LITTERS (b)   | 6/25 (24%) | 2/25 (8%)  | 4/25 (16%) | 5/26 (19%) |
| POLY-3 RATE (c)   | 6/44.23    | 2/44.81    | 4/45.77    | 5/45.33    |
| POLY-3 PERCENT (g)                                      | 13.6%      | 4.5%       | 8.7%       | 11%        |
| TERMINAL (d)  | 3/35 (9%)  | 1/38 (3%)  | 3/38 (8%)  | 3/39 (8%)  |
| FIRST INCIDENCE   | 583        | 734        | 715        | 629        |
| <b>STATISTICAL TESTS</b>                                |            |            |            |            |
| POLY 3  | P=0.563    | P=0.128N   | P=0.348N   | P=0.483N   |
| POLY 1.5  | P=0.559    | P=0.131N   | P=0.356N   | P=0.490N   |
| POLY 6  | P=0.566    | P=0.126N   | P=0.346N   | P=0.478N   |
| RAO-SCOTT   | P=0.563    | P=0.136N   | P=0.350N   | P=0.480N   |
| LITTER C-A/FISHERS                                      | P=0.562N   | P=0.123N   | P=0.363N   | P=0.470N   |

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

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| DOSE                                   | Males      |            |            |            |
|--|------------|------------|------------|------------|
|  | 300/0 ppm  | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Adrenal Medulla<br/>Hyperplasia</b> |            |            |            |            |
| <b>LESION RATES</b>                    |            |            |            |            |
| OVERALL (a)                            | 6/50 (12%) | 3/50 (6%)  | 5/50 (10%) | 2/50 (4%)  |
| LITTERS (b)                            | 6/25 (24%) | 3/25 (12%) | 5/25 (20%) | 2/26 (8%)  |
| POLY-3 RATE (c)                        | 6/43.70    | 3/44.79    | 5/46.09    | 2/44.73    |
| POLY-3 PERCENT (g)                     | 13.7%      | 6.7%       | 10.9%      | 4.5%       |
| TERMINAL (d)                           | 4/35 (11%) | 2/38 (5%)  | 3/38 (8%)  | 2/39 (5%)  |
| FIRST INCIDENCE                        | 617        | 739        | 624        | 743 (T)    |
| <b>STATISTICAL TESTS</b>               |            |            |            |            |
| POLY 3                                 | P=0.139N   | P=0.229N   | P=0.463N   | P=0.125N   |
| POLY 1.5                               | P=0.141N   | P=0.235N   | P=0.478N   | P=0.128N   |
| POLY 6                                 | P=0.138N   | P=0.224N   | P=0.454N   | P=0.123N   |
| RAO-SCOTT                              | P=0.147N   | P=0.238N   | P=0.464N   | P=0.137N   |
| LITTER C-A/FISHERS                     | P=0.122N   | P=0.232N   | P=0.500N   | P=0.112N   |

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

| DOSE                             | Males      |            |            |            |
|----------------------------------|------------|------------|------------|------------|
|                                  | 300/0 ppm  | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Blood Vessel Inflammation</b> |            |            |            |            |
| <b>LESION RATES</b>              |            |            |            |            |
| <b>OVERALL (a)</b>               | 5/50 (10%) | 5/50 (10%) | 2/50 (4%)  | 1/50 (2%)  |
| <b>LITTERS (b)</b>               | 5/25 (20%) | 5/25 (20%) | 2/25 (8%)  | 1/26 (4%)  |
| <b>POLY-3 RATE (c)</b>           | 5/43.83    | 5/45.25    | 2/46.23    | 1/44.73    |
| <b>POLY-3 PERCENT (g)</b>        | 11.4%      | 11.1%      | 4.3%       | 2.2%       |
| <b>TERMINAL (d)</b>              | 2/35 (6%)  | 4/38 (11%) | 1/38 (3%)  | 1/39 (3%)  |
| <b>FIRST INCIDENCE</b>           | 660        | 599        | 561        | 743 (T)    |
| <b>STATISTICAL TESTS</b>         |            |            |            |            |
| <b>POLY 3</b>                    | P=0.042N*  | P=0.610N   | P=0.195N   | P=0.096N   |
| <b>POLY 1.5</b>                  | P=0.043N*  | P=0.619N   | P=0.203N   | P=0.098N   |
| <b>POLY 6</b>                    | P=0.042N*  | P=0.602N   | P=0.191N   | P=0.096N   |
| <b>RAO-SCOTT</b>                 | P=0.057N   | P=0.609N   | P=0.223N   | P=0.122N   |
| <b>LITTER C-A/FISHERS</b>        | P=0.036N*  | P=0.637    | P=0.209N   | P=0.087N   |

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

| DOSE   | Males      |            |            |            |
|--|------------|------------|------------|------------|
|  | 300/0 ppm  | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Blood Vessel<br/>Inflammation Chronic</b> |            |            |            |            |
| <b>LESION RATES</b>                          |            |            |            |            |
| OVERALL (a)                                  | 9/50 (18%) | 6/50 (12%) | 5/50 (10%) | 3/50 (6%)  |
| LITTERS (b)                                  | 8/25 (32%) | 5/25 (20%) | 4/25 (16%) | 3/26 (12%) |
| POLY-3 RATE (c)                              | 9/44.16    | 6/44.79    | 5/46.01    | 3/45.16    |
| POLY-3 PERCENT (g)                           | 20.4%      | 13.4%      | 10.9%      | 6.6%       |
| TERMINAL (d)                                 | 5/35 (14%) | 5/38 (13%) | 3/38 (8%)  | 2/39 (5%)  |
| FIRST INCIDENCE                              | 617        | 739        | 648        | 617        |
| <b>STATISTICAL TESTS</b>                     |            |            |            |            |
| POLY 3                                       | P=0.041N*  | P=0.276N   | P=0.169N   | P=0.054N   |
| POLY 1.5                                     | P=0.043N*  | P=0.281N   | P=0.178N   | P=0.056N   |
| POLY 6                                       | P=0.040N*  | P=0.272N   | P=0.166N   | P=0.053N   |
| RAO-SCOTT                                    | P=0.063N   | P=0.310N   | P=0.209N   | P=0.084N   |
| LITTER C-A/FISHERS                           | P=0.057N   | P=0.260N   | P=0.160N   | P=0.075N   |



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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

| DOSE                      | Males     |            |            |            |
|---------------------------|-----------|------------|------------|------------|
|                           | 300/0 ppm | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Blood Vessel</b>       |           |            |            |            |
| <b>Mineral</b>            |           |            |            |            |
| <b>LESION RATES</b>       |           |            |            |            |
| <b>OVERALL (a)</b>        | 1/50 (2%) | 1/50 (2%)  | 2/50 (4%)  | 4/50 (8%)  |
| <b>LITTERS (b)</b>        | 1/25 (4%) | 1/25 (4%)  | 2/25 (8%)  | 4/26 (15%) |
| <b>POLY-3 RATE (c)</b>    | 1/43.53   | 1/44.78    | 2/46.00    | 4/44.94    |
| <b>POLY-3 PERCENT (g)</b> | 2.3%      | 2.2%       | 4.4%       | 8.9%       |
| <b>TERMINAL (d)</b>       | 0/35 (0%) | 1/38 (3%)  | 1/38 (3%)  | 3/39 (8%)  |
| <b>FIRST INCIDENCE</b>    | 673       | 743 (T)    | 648        | 689        |
| <b>STATISTICAL TESTS</b>  |           |            |            |            |
| <b>POLY 3</b>             | P=0.075   | P=0.754N   | P=0.519    | P=0.188    |
| <b>POLY 1.5</b>           | P=0.074   | P=0.757N   | P=0.512    | P=0.184    |
| <b>POLY 6</b>             | P=0.076   | P=0.752N   | P=0.524    | P=0.191    |
| <b>RAO-SCOTT</b>          | P=0.095   | P=0.749N   | P=0.531    | P=0.215    |
| <b>LITTER C-A/FISHERS</b> | P=0.075   | P=0.755    | P=0.500    | P=0.187    |

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS

| DOSE                       | Males     |            |            |            |
|----------------------------|-----------|------------|------------|------------|
|                            | 300/0 ppm | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Blood Vessel: Aorta</b> |           |            |            |            |
| <b>Mineral</b>             |           |            |            |            |
| <b>LESION RATES</b>        |           |            |            |            |
| OVERALL (a)                | 0/50 (0%) | 3/50 (6%)  | 0/50 (0%)  | 4/50 (8%)  |
| LITTERS (b)                | 0/25 (0%) | 3/25 (12%) | 0/25 (0%)  | 4/26 (15%) |
| POLY-3 RATE (c)            | 0/43.27   | 3/44.78    | 0/45.66    | 4/45.16    |
| POLY-3 PERCENT (g)         | 0%        | 6.7%       | 0%         | 8.9%       |
| TERMINAL (d)               | 0/35 (0%) | 3/38 (8%)  | 0/38 (0%)  | 3/39 (8%)  |
| FIRST INCIDENCE            | ---       | 743 (T)    | ---        | 617        |
| <b>STATISTICAL TESTS</b>   |           |            |            |            |
| POLY 3                     | P=0.071   | P=0.125    | (e)        | P=0.066    |
| POLY 1.5                   | P=0.069   | P=0.122    | (e)        | P=0.064    |
| POLY 6                     | P=0.073   | P=0.128    | (e)        | P=0.068    |
| RAO-SCOTT                  | P=0.121   | P=0.201    | (e)        | P=0.126    |
| LITTER C-A/FISHERS         | P=0.070   | P=0.117    | (e)        | P=0.060    |

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

| DOSE                               | Males      |            |            |            |
|------------------------------------|------------|------------|------------|------------|
|                                    | 300/0 ppm  | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Bone Marrow<br/>Hyperplasia</b> |            |            |            |            |
| <b>LESION RATES</b>                |            |            |            |            |
| OVERALL (a)                        | 6/50 (12%) | 9/50 (18%) | 8/50 (16%) | 9/50 (18%) |
| LITTERS (b)                        | 6/25 (24%) | 8/25 (32%) | 8/25 (32%) | 9/26 (35%) |
| POLY-3 RATE (c)                    | 6/45.25    | 9/47.52    | 8/47.93    | 9/48.55    |
| POLY-3 PERCENT (g)                 | 13.3%      | 18.9%      | 16.7%      | 18.5%      |
| TERMINAL (d)                       | 0/35 (0%)  | 3/38 (8%)  | 3/38 (8%)  | 2/39 (5%)  |
| FIRST INCIDENCE                    | 568        | 465        | 116        | 134        |
| <b>STATISTICAL TESTS</b>           |            |            |            |            |
| POLY 3                             | P=0.357    | P=0.324    | P=0.432    | P=0.340    |
| POLY 1.5                           | P=0.342    | P=0.310    | P=0.420    | P=0.325    |
| POLY 6                             | P=0.365    | P=0.333    | P=0.433    | P=0.349    |
| RAO-SCOTT                          | P=0.354    | P=0.323    | P=0.429    | P=0.340    |
| LITTER C-A/FISHERS                 | P=0.278    | P=0.377    | P=0.377    | P=0.301    |

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TERMINAL SACRIFICE AT 107 WEEKS**

---

| DOSE                     | Males     |            |            |            |
|--------------------------|-----------|------------|------------|------------|
|                          | 300/0 ppm | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Brain</b>             |           |            |            |            |
| <b>Necrosis</b>          |           |            |            |            |
| <hr/>                    |           |            |            |            |
| <b>LESION RATES</b>      |           |            |            |            |
| OVERALL (a)              | 2/50 (4%) | 1/50 (2%)  | 1/50 (2%)  | 0/50 (0%)  |
| LITTERS (b)              | 2/25 (8%) | 1/25 (4%)  | 1/25 (4%)  | 0/26 (0%)  |
| POLY-3 RATE (c)          | 2/44.96   | 1/45.74    | 1/45.77    | 0/44.73    |
| POLY-3 PERCENT (g)       | 4.5%      | 2.2%       | 2.2%       | 0%         |
| TERMINAL (d)             | 0/35 (0%) | 0/38 (0%)  | 0/38 (0%)  | 0/39 (0%)  |
| FIRST INCIDENCE          | 247       | 241        | 715        | ---        |
| <hr/>                    |           |            |            |            |
| <b>STATISTICAL TESTS</b> |           |            |            |            |
| POLY 3                   | P=0.155N  | P=0.494N   | P=0.494N   | P=0.238N   |
| POLY 1.5                 | P=0.155N  | P=0.497N   | P=0.498N   | P=0.239N   |
| POLY 6                   | P=0.155N  | P=0.490N   | P=0.491N   | P=0.238N   |
| RAO-SCOTT                | P=0.187N  | P=0.520N   | P=0.520N   | P=0.285N   |
| LITTER C-A/FISHERS       | P=0.145N  | P=0.500N   | P=0.500N   | P=0.235N   |

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Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS

| DOSE                            | Males     |            |            |            |
|---------------------------------|-----------|------------|------------|------------|
|                                 | 300/0 ppm | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Eye: Cornea Inflammation</b> |           |            |            |            |
| <b>LESION RATES</b>             |           |            |            |            |
| OVERALL (a)                     | 1/50 (2%) | 3/50 (6%)  | 2/50 (4%)  | 3/50 (6%)  |
| LITTERS (b)                     | 1/25 (4%) | 3/25 (12%) | 2/25 (8%)  | 3/26 (12%) |
| POLY-3 RATE (c)                 | 1/43.29   | 3/44.78    | 2/45.68    | 3/44.73    |
| POLY-3 PERCENT (g)              | 2.3%      | 6.7%       | 4.4%       | 6.7%       |
| TERMINAL (d)                    | 0/35 (0%) | 3/38 (8%)  | 1/38 (3%)  | 3/39 (8%)  |
| FIRST INCIDENCE                 | 739       | 743 (T)    | 739        | 743 (T)    |
| <b>STATISTICAL TESTS</b>        |           |            |            |            |
| POLY 3                          | P=0.317   | P=0.317    | P=0.519    | P=0.317    |
| POLY 1.5                        | P=0.311   | P=0.312    | P=0.511    | P=0.312    |
| POLY 6                          | P=0.321   | P=0.323    | P=0.523    | P=0.320    |
| RAO-SCOTT                       | P=0.324   | P=0.328    | P=0.520    | P=0.327    |
| LITTER C-A/FISHERS              | P=0.315   | P=0.305    | P=0.500    | P=0.320    |

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

| DOSE                                | Males      |            |            |            |
|-------------------------------------|------------|------------|------------|------------|
|                                     | 300/0 ppm  | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Eye: Retina<br/>Degeneration</b> |            |            |            |            |
| <b>LESION RATES</b>                 |            |            |            |            |
| OVERALL (a)                         | 4/50 (8%)  | 0/50 (0%)  | 4/50 (8%)  | 6/50 (12%) |
| LITTERS (b)                         | 4/25 (16%) | 0/25 (0%)  | 4/25 (16%) | 5/26 (19%) |
| POLY-3 RATE (c)                     | 4/43.27    | 0/44.78    | 4/46.00    | 6/44.73    |
| POLY-3 PERCENT (g)                  | 9.2%       | 0%         | 8.7%       | 13.4%      |
| TERMINAL (d)                        | 4/35 (11%) | 0/38 (0%)  | 3/38 (8%)  | 6/39 (15%) |
| FIRST INCIDENCE                     | 743 (T)    | ---        | 648        | 743 (T)    |
| <b>STATISTICAL TESTS</b>            |            |            |            |            |
| POLY 3                              | P=0.113    | P=0.056N   | P=0.609N   | P=0.390    |
| POLY 1.5                            | P=0.112    | P=0.058N   | P=0.623N   | P=0.382    |
| POLY 6                              | P=0.112    | P=0.054N   | P=0.599N   | P=0.397    |
| RAO-SCOTT                           | P=0.154    | P=0.094N   | P=0.616N   | P=0.419    |
| LITTER C-A/FISHERS                  | P=0.215    | P=0.055N   | P=0.649    | P=0.526    |

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS 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>Cardiomyopathy</b>    |             |             |             |             |
| <b>LESION RATES</b>      |             |             |             |             |
| OVERALL (a)              | 33/50 (66%) | 32/50 (64%) | 24/50 (48%) | 24/50 (48%) |
| LITTERS (b)              | 22/25 (88%) | 21/25 (84%) | 18/25 (72%) | 20/26 (77%) |
| POLY-3 RATE (c)          | 33/47.73    | 32/45.51    | 24/48.39    | 24/45.18    |
| POLY-3 PERCENT (g)       | 69.1%       | 70.3%       | 49.6%       | 53.1%       |
| TERMINAL (d)             | 22/35 (63%) | 27/38 (71%) | 16/38 (42%) | 22/39 (56%) |
| FIRST INCIDENCE          | 351         | 599         | 116         | 617         |
| <b>STATISTICAL TESTS</b> |             |             |             |             |
| POLY 3                   | P=0.028N*   | P=0.541     | P=0.038N*   | P=0.081N    |
| POLY 1.5                 | P=0.025N*   | P=0.577     | P=0.041N*   | P=0.069N    |
| POLY 6                   | P=0.034N*   | P=0.511     | P=0.037N*   | P=0.101N    |
| RAO-SCOTT                | P=0.034N*   | P=0.538     | P=0.045N*   | P=0.091N    |
| LITTER C-A/FISHERS       | P=0.176N    | P=0.500N    | P=0.145N    | P=0.253N    |

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS

| DOSE  | Males      |            |             |            |
|---|------------|------------|-------------|------------|
|   | 300/0 ppm  | 300/20 ppm | 300/40 ppm  | 300/80 ppm |
| <b>Intestine Large, Colon<br/>Parasite Metazoan</b> |            |            |             |            |
| <b>LESION RATES</b>                                 |            |            |             |            |
| OVERALL (a)   | 8/50 (16%) | 5/50 (10%) | 10/50 (20%) | 7/50 (14%) |
| LITTERS (b)   | 8/25 (32%) | 4/25 (16%) | 9/25 (36%)  | 7/26 (27%) |
| POLY-3 RATE (c)                                     | 8/43.57    | 5/45.00    | 10/46.15    | 7/44.75    |
| POLY-3 PERCENT (g)                                  | 18.4%      | 11.1%      | 21.7%       | 15.6%      |
| TERMINAL (d)  | 7/35 (20%) | 4/38 (11%) | 7/38 (18%)  | 6/39 (15%) |
| FIRST INCIDENCE                                     | 660        | 683        | 683         | 739        |
| <b>STATISTICAL TESTS</b>                            |            |            |             |            |
| POLY 3  | P=0.544    | P=0.254N   | P=0.450     | P=0.478N   |
| POLY 1.5  | P=0.538    | P=0.264N   | P=0.428     | P=0.487N   |
| POLY 6  | P=0.543    | P=0.244N   | P=0.466     | P=0.473N   |
| RAO-SCOTT   | P=0.543    | P=0.256N   | P=0.447     | P=0.472N   |
| LITTER C-A/FISHERS                                  | P=0.537    | P=0.160N   | P=0.500     | P=0.464N   |



Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS 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 Hyperplasia</b> |           |            |            |            |
| <b>LESION RATES</b>                   |           |            |            |            |
| OVERALL (a)                           | 2/50 (4%) | 2/50 (4%)  | 8/50 (16%) | 9/50 (18%) |
| LITTERS (b)                           | 2/25 (8%) | 2/25 (8%)  | 6/25 (24%) | 8/26 (31%) |
| POLY-3 RATE (c)                       | 2/43.57   | 2/44.78    | 8/45.66    | 9/44.73    |
| POLY-3 PERCENT (g)                    | 4.6%      | 4.5%       | 17.5%      | 20.1%      |
| TERMINAL (d)                          | 1/35 (3%) | 2/38 (5%)  | 8/38 (21%) | 9/39 (23%) |
| FIRST INCIDENCE                       | 660       | 743 (T)    | 743 (T)    | 743 (T)    |
| <b>STATISTICAL TESTS</b>              |           |            |            |            |
| POLY 3                                | P=0.005** | P=0.684N   | P=0.053    | P=0.027*   |
| POLY 1.5                              | P=0.005** | P=0.688N   | P=0.050*   | P=0.027*   |
| POLY 6                                | P=0.005** | P=0.680N   | P=0.054    | P=0.028*   |
| RAO-SCOTT                             | P=0.019*  | P=0.698N   | P=0.104    | P=0.066    |
| LITTER C-A/FISHERS                    | P=0.011*  | P=0.695    | P=0.123    | P=0.043*   |

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS

| DOSE                     | Males     |            |            |            |
|--------------------------|-----------|------------|------------|------------|
|                          | 300/0 ppm | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| Kidney<br>Infarct        |           |            |            |            |
| <b>LESION RATES</b>      |           |            |            |            |
| OVERALL (a)              | 2/50 (4%) | 2/50 (4%)  | 4/50 (8%)  | 2/50 (4%)  |
| LITTERS (b)              | 2/25 (8%) | 2/25 (8%)  | 4/25 (16%) | 2/26 (8%)  |
| POLY-3 RATE (c)          | 2/43.27   | 2/44.78    | 4/45.66    | 2/44.73    |
| POLY-3 PERCENT (g)       | 4.6%      | 4.5%       | 8.8%       | 4.5%       |
| TERMINAL (d)             | 2/35 (6%) | 2/38 (5%)  | 4/38 (11%) | 2/39 (5%)  |
| FIRST INCIDENCE          | 743 (T)   | 743 (T)    | 743 (T)    | 743 (T)    |
| <b>STATISTICAL TESTS</b> |           |            |            |            |
| POLY 3                   | P=0.559   | P=0.682N   | P=0.362    | P=0.682N   |
| POLY 1.5                 | P=0.553   | P=0.687N   | P=0.352    | P=0.687N   |
| POLY 6                   | P=0.562   | P=0.675N   | P=0.368    | P=0.679N   |
| RAO-SCOTT                | P=0.553   | P=0.670N   | P=0.364    | P=0.670N   |
| LITTER C-A/FISHERS       | P=0.564   | P=0.695    | P=0.334    | P=0.680N   |

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS

| DOSE                                   | Males        |              |              |             |
|--|--------------|--------------|--------------|-------------|
|  | 300/0 ppm    | 300/20 ppm   | 300/40 ppm   | 300/80 ppm  |
| <b>Kidney</b>                          |              |              |              |             |
| <b>Nephropathy Chronic Progressive</b> |              |              |              |             |
| <b>LESION RATES</b>                    |              |              |              |             |
| OVERALL (a)                            | 48/50 (96%)  | 49/50 (98%)  | 48/50 (96%)  | 44/50 (88%) |
| LITTERS (b)                            | 25/25 (100%) | 25/25 (100%) | 25/25 (100%) | 24/26 (92%) |
| POLY-3 RATE (c)                        | 48/48.16     | 49/50.00     | 48/49.65     | 44/48.12    |
| POLY-3 PERCENT (g)                     | 99.7%        | 98%          | 96.7%        | 91.4%       |
| TERMINAL (d)                           | 35/35 (100%) | 37/38 (97%)  | 37/38 (97%)  | 37/39 (95%) |
| FIRST INCIDENCE                        | 351          | 238          | 116          | 134         |
| <b>STATISTICAL TESTS</b>               |              |              |              |             |
| POLY 3                                 | P=0.013N*    | P=0.570N     | P=0.347N     | P=0.045N*   |
| POLY 1.5                               | P=0.011N*    | P=0.698N     | P=0.429N     | P=0.049N*   |
| POLY 6                                 | P=0.029N*    | P=0.514N     | P=0.359N     | P=0.073N    |
| RAO-SCOTT                              | P=0.043N*    | P=0.647N     | P=0.450N     | P=0.121N    |
| LITTER C-A/FISHERS                     | P=0.049N*    | P=1.000      | P=1.000      | P=0.255N    |

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

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| DOSE                           | Males      |            |            |            |
|--------------------------------|------------|------------|------------|------------|
|                                | 300/0 ppm  | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Kidney: Cortex<br/>Cyst</b> |            |            |            |            |
| <b>LESION RATES</b>            |            |            |            |            |
| OVERALL (a)                    | 3/50 (6%)  | 1/50 (2%)  | 1/50 (2%)  | 0/50 (0%)  |
| LITTERS (b)                    | 3/25 (12%) | 1/25 (4%)  | 1/25 (4%)  | 0/26 (0%)  |
| POLY-3 RATE (c)                | 3/43.30    | 1/44.78    | 1/45.68    | 0/44.73    |
| POLY-3 PERCENT (g)             | 6.9%       | 2.2%       | 2.2%       | 0%         |
| TERMINAL (d)                   | 1/35 (3%)  | 1/38 (3%)  | 0/38 (0%)  | 0/39 (0%)  |
| FIRST INCIDENCE                | 739        | 743 (T)    | 739        | ---        |
| <b>STATISTICAL TESTS</b>       |            |            |            |            |
| POLY 3                         | P=0.071N   | P=0.293N   | P=0.286N   | P=0.113N   |
| POLY 1.5                       | P=0.072N   | P=0.299N   | P=0.294N   | P=0.115N   |
| POLY 6                         | P=0.071N   | P=0.287N   | P=0.282N   | P=0.111N   |
| RAO-SCOTT                      | P=0.105N   | P=0.342N   | P=0.337N   | P=0.166N   |
| LITTER C-A/FISHERS             | P=0.067N   | P=0.305N   | P=0.305N   | P=0.110N   |

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Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

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| DOSE   | Males      |            |            |            |
|--|------------|------------|------------|------------|
|  | 300/0 ppm  | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Kidney: Papilla, Urothelium<br/>Hyperplasia</b> |            |            |            |            |
| <b>LESION RATES</b>                                |            |            |            |            |
| OVERALL (a)  | 3/50 (6%)  | 2/50 (4%)  | 1/50 (2%)  | 1/50 (2%)  |
| LITTERS (b)  | 3/25 (12%) | 2/25 (8%)  | 1/25 (4%)  | 1/26 (4%)  |
| POLY-3 RATE (c)                                    | 3/44.38    | 2/44.79    | 1/45.66    | 1/44.73    |
| POLY-3 PERCENT (g)                                 | 6.8%       | 4.5%       | 2.2%       | 2.2%       |
| TERMINAL (d)                                       | 0/35 (0%)  | 1/38 (3%)  | 1/38 (3%)  | 1/39 (3%)  |
| FIRST INCIDENCE                                    | 617        | 739        | 743 (T)    | 743 (T)    |
| <b>STATISTICAL TESTS</b>                           |            |            |            |            |
| POLY 3   | P=0.198N   | P=0.496N   | P=0.295N   | P=0.302N   |
| POLY 1.5   | P=0.198N   | P=0.498N   | P=0.299N   | P=0.303N   |
| POLY 6   | P=0.199N   | P=0.496N   | P=0.296N   | P=0.305N   |
| RAO-SCOTT  | P=0.221N   | P=0.507N   | P=0.323N   | P=0.328N   |
| LITTER C-A/FISHERS                                 | P=0.185N   | P=0.500N   | P=0.305N   | P=0.290N   |

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Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS 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>Basophilic Focus</b>  |           |            |            |            |
| <b>LESION RATES</b>      |           |            |            |            |
| OVERALL (a)              | 0/50 (0%) | 1/50 (2%)  | 1/50 (2%)  | 2/50 (4%)  |
| LITTERS (b)              | 0/25 (0%) | 1/25 (4%)  | 1/25 (4%)  | 1/26 (4%)  |
| POLY-3 RATE (c)          | 0/43.27   | 1/44.78    | 1/46.00    | 2/44.73    |
| POLY-3 PERCENT (g)       | 0%        | 2.2%       | 2.2%       | 4.5%       |
| TERMINAL (d)             | 0/35 (0%) | 1/38 (3%)  | 0/38 (0%)  | 2/39 (5%)  |
| FIRST INCIDENCE          | ---       | 743 (T)    | 648        | 743 (T)    |
| <b>STATISTICAL TESTS</b> |           |            |            |            |
| POLY 3                   | P=0.161   | P=0.507    | P=0.512    | P=0.245    |
| POLY 1.5                 | P=0.158   | P=0.504    | P=0.507    | P=0.242    |
| POLY 6                   | P=0.162   | P=0.510    | P=0.516    | P=0.247    |
| RAO-SCOTT                | P=0.271   | P=0.667    | P=0.676    | P=0.412    |
| LITTER C-A/FISHERS       | P=0.394   | P=0.500    | P=0.500    | P=0.510    |

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

| DOSE                     | Males       |             |             |             |
|--------------------------|-------------|-------------|-------------|-------------|
|                          | 300/0 ppm   | 300/20 ppm  | 300/40 ppm  | 300/80 ppm  |
| Liver                    |             |             |             |             |
| Clear Cell Focus         |             |             |             |             |
| <b>LESION RATES</b>      |             |             |             |             |
| OVERALL (a)              | 35/50 (70%) | 38/50 (76%) | 33/50 (66%) | 38/50 (76%) |
| LITTERS (b)              | 22/25 (88%) | 23/25 (92%) | 23/25 (92%) | 23/26 (88%) |
| POLY-3 RATE (c)          | 35/44.01    | 38/45.14    | 33/46.07    | 38/44.84    |
| POLY-3 PERCENT (g)       | 79.5%       | 84.2%       | 71.6%       | 84.7%       |
| TERMINAL (d)             | 33/35 (94%) | 35/38 (92%) | 32/38 (84%) | 37/39 (95%) |
| FIRST INCIDENCE          | 484         | 683         | 624         | 715         |
| <b>STATISTICAL TESTS</b> |             |             |             |             |
| POLY 3                   | P=0.407     | P=0.375     | P=0.255N    | P=0.345     |
| POLY 1.5                 | P=0.388     | P=0.336     | P=0.322N    | P=0.327     |
| POLY 6                   | P=0.407     | P=0.449     | P=0.203N    | P=0.357     |
| RAO-SCOTT                | P=0.408     | P=0.376     | P=0.262N    | P=0.350     |
| LITTER C-A/FISHERS       | P=0.564N    | P=0.500     | P=0.500     | P=0.647     |

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

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| DOSE                         | Males     |            |            |             |
|------------------------------|-----------|------------|------------|-------------|
|                              | 300/0 ppm | 300/20 ppm | 300/40 ppm | 300/80 ppm  |
| <hr/>                        |           |            |            |             |
| Liver<br>Degeneration Cystic |           |            |            |             |
| <hr/>                        |           |            |            |             |
| <b>LESION RATES</b>          |           |            |            |             |
| OVERALL (a)                  | 0/50 (0%) | 3/50 (6%)  | 3/50 (6%)  | 11/50 (22%) |
| LITTERS (b)                  | 0/25 (0%) | 3/25 (12%) | 3/25 (12%) | 9/26 (35%)  |
| POLY-3 RATE (c)              | 0/43.27   | 3/44.78    | 3/45.66    | 11/45.04    |
| POLY-3 PERCENT (g)           | 0%        | 6.7%       | 6.6%       | 24.4%       |
| TERMINAL (d)                 | 0/35 (0%) | 3/38 (8%)  | 3/38 (8%)  | 9/39 (23%)  |
| FIRST INCIDENCE              | ---       | 743 (T)    | 743 (T)    | 689         |
| <hr/>                        |           |            |            |             |
| <b>STATISTICAL TESTS</b>     |           |            |            |             |
| POLY 3                       | P<0.001** | P=0.125    | P=0.129    | P<0.001**   |
| POLY 1.5                     | P<0.001** | P=0.122    | P=0.125    | P<0.001**   |
| POLY 6                       | P<0.001** | P=0.128    | P=0.131    | P<0.001**   |
| RAO-SCOTT                    | P<0.001** | P=0.202    | P=0.208    | P=0.005**   |
| LITTER C-A/FISHERS           | P<0.001** | P=0.117    | P=0.117    | P<0.001**   |

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Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS 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>Eosinophilic Focus</b> |           |            |            |            |
| <b>LESION RATES</b>       |           |            |            |            |
| OVERALL (a)               | 2/50 (4%) | 5/50 (10%) | 1/50 (2%)  | 7/50 (14%) |
| LITTERS (b)               | 2/25 (8%) | 5/25 (20%) | 1/25 (4%)  | 7/26 (27%) |
| POLY-3 RATE (c)           | 2/43.27   | 5/44.78    | 1/45.66    | 7/44.73    |
| POLY-3 PERCENT (g)        | 4.6%      | 11.2%      | 2.2%       | 15.7%      |
| TERMINAL (d)              | 2/35 (6%) | 5/38 (13%) | 1/38 (3%)  | 7/39 (18%) |
| FIRST INCIDENCE           | 743 (T)   | 743 (T)    | 743 (T)    | 743 (T)    |
| <b>STATISTICAL TESTS</b>  |           |            |            |            |
| POLY 3                    | P=0.084   | P=0.230    | P=0.481N   | P=0.086    |
| POLY 1.5                  | P=0.081   | P=0.224    | P=0.489N   | P=0.083    |
| POLY 6                    | P=0.085   | P=0.237    | P=0.477N   | P=0.088    |
| RAO-SCOTT                 | P=0.101   | P=0.247    | P=0.488N   | P=0.105    |
| LITTER C-A/FISHERS        | P=0.082   | P=0.209    | P=0.500N   | P=0.079    |

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS 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>Extramedullary Hematopoiesis</b> |           |            |            |            |
| <b>LESION RATES</b>                 |           |            |            |            |
| OVERALL (a)                         | 2/50 (4%) | 0/50 (0%)  | 0/50 (0%)  | 1/50 (2%)  |
| LITTERS (b)                         | 2/25 (8%) | 0/25 (0%)  | 0/25 (0%)  | 1/26 (4%)  |
| POLY-3 RATE (c)                     | 2/44.34   | 0/44.78    | 0/45.66    | 1/44.73    |
| POLY-3 PERCENT (g)                  | 4.5%      | 0%         | 0%         | 2.2%       |
| TERMINAL (d)                        | 0/35 (0%) | 0/38 (0%)  | 0/38 (0%)  | 1/39 (3%)  |
| FIRST INCIDENCE                     | 568       | ---        | ---        | 743 (T)    |
| <b>STATISTICAL TESTS</b>            |           |            |            |            |
| POLY 3                              | P=0.461N  | P=0.235N   | P=0.231N   | P=0.497N   |
| POLY 1.5                            | P=0.460N  | P=0.236N   | P=0.233N   | P=0.498N   |
| POLY 6                              | P=0.461N  | P=0.234N   | P=0.230N   | P=0.498N   |
| RAO-SCOTT                           | P=0.509N  | P=0.345N   | P=0.344N   | P=0.560N   |
| LITTER C-A/FISHERS                  | P=0.450N  | P=0.245N   | P=0.245N   | P=0.485N   |

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS 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>Inflammation Focal</b> |             |             |             |             |
| <b>LESION RATES</b>       |             |             |             |             |
| OVERALL (a)               | 13/50 (26%) | 11/50 (22%) | 19/50 (38%) | 24/50 (48%) |
| LITTERS (b)               | 9/25 (36%)  | 8/25 (32%)  | 15/25 (60%) | 19/26 (73%) |
| POLY-3 RATE (c)           | 13/45.73    | 11/45.66    | 19/46.48    | 24/45.16    |
| POLY-3 PERCENT (g)        | 28.4%       | 24.1%       | 40.9%       | 53.2%       |
| TERMINAL (d)              | 9/35 (26%)  | 9/38 (24%)  | 15/38 (40%) | 23/39 (59%) |
| FIRST INCIDENCE           | 366         | 465         | 624         | 617         |
| <b>STATISTICAL TESTS</b>  |             |             |             |             |
| POLY 3                    | P=0.002**   | P=0.408N    | P=0.149     | P=0.012*    |
| POLY 1.5                  | P=0.002**   | P=0.411N    | P=0.143     | P=0.013*    |
| POLY 6                    | P=0.002**   | P=0.404N    | P=0.153     | P=0.011*    |
| RAO-SCOTT                 | P=0.004**   | P=0.418N    | P=0.169     | P=0.021*    |
| LITTER C-A/FISHERS        | P<0.001**   | P=0.500N    | P=0.078     | P=0.008**   |

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

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| DOSE                     | Males     |            |            |            |
|--------------------------|-----------|------------|------------|------------|
|                          | 300/0 ppm | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <hr/>                    |           |            |            |            |
| Liver                    |           |            |            |            |
| Mixed Cell Focus         |           |            |            |            |
| <hr/>                    |           |            |            |            |
| <b>LESION RATES</b>      |           |            |            |            |
| OVERALL (a)              | 0/50 (0%) | 4/50 (8%)  | 4/50 (8%)  | 9/50 (18%) |
| LITTERS (b)              | 0/25 (0%) | 4/25 (16%) | 4/25 (16%) | 7/26 (27%) |
| POLY-3 RATE (c)          | 0/43.27   | 4/44.78    | 4/45.66    | 9/44.94    |
| POLY-3 PERCENT (g)       | 0%        | 8.9%       | 8.8%       | 20%        |
| TERMINAL (d)             | 0/35 (0%) | 4/38 (11%) | 4/38 (11%) | 8/39 (21%) |
| FIRST INCIDENCE          | ---       | 743 (T)    | 743 (T)    | 689        |
| <hr/>                    |           |            |            |            |
| <b>STATISTICAL TESTS</b> |           |            |            |            |
| POLY 3                   | P=0.002** | P=0.065    | P=0.067    | P=0.002**  |
| POLY 1.5                 | P<0.001** | P=0.063    | P=0.065    | P=0.002**  |
| POLY 6                   | P=0.002** | P=0.067    | P=0.069    | P=0.002**  |
| RAO-SCOTT                | P=0.007** | P=0.118    | P=0.123    | P=0.011*   |
| LITTER C-A/FISHERS       | P=0.010** | P=0.055    | P=0.055    | P=0.006**  |

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Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS

| DOSE                     | Males     |             |             |             |
|--------------------------|-----------|-------------|-------------|-------------|
|                          | 300/0 ppm | 300/20 ppm  | 300/40 ppm  | 300/80 ppm  |
| Liver<br>Necrosis        |           |             |             |             |
| <b>LESION RATES</b>      |           |             |             |             |
| OVERALL (a)              | 1/50 (2%) | 11/50 (22%) | 14/50 (28%) | 21/50 (42%) |
| LITTERS (b)              | 1/25 (4%) | 11/25 (44%) | 12/25 (48%) | 16/26 (62%) |
| POLY-3 RATE (c)          | 1/43.27   | 11/45.50    | 14/46.01    | 21/46.01    |
| POLY-3 PERCENT (g)       | 2.3%      | 24.2%       | 30.4%       | 45.7%       |
| TERMINAL (d)             | 1/35 (3%) | 10/38 (26%) | 13/38 (34%) | 18/39 (46%) |
| FIRST INCIDENCE          | 743 (T)   | 485         | 645         | 527         |
| <b>STATISTICAL TESTS</b> |           |             |             |             |
| POLY 3                   | P<0.001** | P=0.002**   | 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<0.001**   | P<0.001**   | P<0.001**   |

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

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| DOSE                     | Males     |            |             |             |
|--------------------------|-----------|------------|-------------|-------------|
|                          | 300/0 ppm | 300/20 ppm | 300/40 ppm  | 300/80 ppm  |
| Liver<br>Pigment         |           |            |             |             |
| <b>LESION RATES</b>      |           |            |             |             |
| OVERALL (a)              | 0/50 (0%) | 4/50 (8%)  | 11/50 (22%) | 26/50 (52%) |
| LITTERS (b)              | 0/25 (0%) | 4/25 (16%) | 10/25 (40%) | 16/26 (62%) |
| POLY-3 RATE (c)          | 0/43.27   | 4/45.53    | 11/45.89    | 26/46.21    |
| POLY-3 PERCENT (g)       | 0%        | 8.8%       | 24%         | 56.3%       |
| TERMINAL (d)             | 0/35 (0%) | 3/38 (8%)  | 10/38 (26%) | 22/39 (56%) |
| FIRST INCIDENCE          | ---       | 465        | 683         | 134         |
| <b>STATISTICAL TESTS</b> |           |            |             |             |
| POLY 3                   | P<0.001** | P=0.067    | P<0.001**   | P<0.001**   |
| POLY 1.5                 | P<0.001** | P=0.064    | P<0.001**   | P<0.001**   |
| POLY 6                   | P<0.001** | P=0.070    | P<0.001**   | P<0.001**   |
| RAO-SCOTT                | P<0.001** | P=0.098    | P=0.003**   | P<0.001**   |
| LITTER C-A/FISHERS       | P<0.001** | P=0.055    | P<0.001**   | P<0.001**   |

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Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS

| DOSE                                | Males       |            |            |            |
|-------------------------------------|-------------|------------|------------|------------|
|                                     | 300/0 ppm   | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Liver: Bile Duct Hyperplasia</b> |             |            |            |            |
| <b>LESION RATES</b>                 |             |            |            |            |
| OVERALL (a)                         | 25/50 (50%) | 8/50 (16%) | 2/50 (4%)  | 5/50 (10%) |
| LITTERS (b)                         | 19/25 (76%) | 7/25 (28%) | 2/25 (8%)  | 4/26 (15%) |
| POLY-3 RATE (c)                     | 25/45.15    | 8/44.97    | 2/45.66    | 5/44.73    |
| POLY-3 PERCENT (g)                  | 55.4%       | 17.8%      | 4.4%       | 11.2%      |
| TERMINAL (d)                        | 19/35 (54%) | 7/38 (18%) | 2/38 (5%)  | 5/39 (13%) |
| FIRST INCIDENCE                     | 478         | 693        | 743 (T)    | 743 (T)    |
| <b>STATISTICAL TESTS</b>            |             |            |            |            |
| POLY 3                              | P<0.001N**  | P<0.001N** | P<0.001N** | P<0.001N** |
| POLY 1.5                            | P<0.001N**  | P<0.001N** | P<0.001N** | P<0.001N** |
| POLY 6                              | P<0.001N**  | P<0.001N** | P<0.001N** | P<0.001N** |
| RAO-SCOTT                           | P<0.001N**  | P<0.001N** | P<0.001N** | P<0.001N** |
| LITTER C-A/FISHERS                  | P<0.001N**  | P<0.001N** | P<0.001N** | P<0.001N** |

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

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| DOSE  | Males     |            |             |             |
|---|-----------|------------|-------------|-------------|
|   | 300/0 ppm | 300/20 ppm | 300/40 ppm  | 300/80 ppm  |
| <hr/>                                       |           |            |             |             |
| Liver: Hepatocyte<br>Cytoplasmic Alteration |           |            |             |             |
| <hr/>                                       |           |            |             |             |
| <b>LESION RATES</b>                         |           |            |             |             |
| OVERALL (a)                                 | 0/50 (0%) | 4/50 (8%)  | 29/50 (58%) | 41/50 (82%) |
| LITTERS (b)                                 | 0/25 (0%) | 4/25 (16%) | 21/25 (84%) | 23/26 (88%) |
| POLY-3 RATE (c)                             | 0/43.27   | 4/45.53    | 29/46.88    | 41/46.59    |
| POLY-3 PERCENT (g)                          | 0%        | 8.8%       | 61.9%       | 88%         |
| TERMINAL (d)                                | 0/35 (0%) | 3/38 (8%)  | 27/38 (71%) | 37/39 (95%) |
| FIRST INCIDENCE                             | ---       | 465        | 116         | 134         |
| <hr/>                                       |           |            |             |             |
| <b>STATISTICAL TESTS</b>                    |           |            |             |             |
| POLY 3                                      | P<0.001** | P=0.067    | P<0.001**   | P<0.001**   |
| POLY 1.5                                    | P<0.001** | P=0.064    | P<0.001**   | P<0.001**   |
| POLY 6                                      | P<0.001** | P=0.070    | P<0.001**   | P<0.001**   |
| RAO-SCOTT                                   | P<0.001** | P=0.062    | P<0.001**   | P<0.001**   |
| LITTER C-A/FISHERS                          | P<0.001** | P=0.055    | P<0.001**   | P<0.001**   |

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Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

| DOSE                                 | Males     |            |             |             |
|--------------------------------------|-----------|------------|-------------|-------------|
|                                      | 300/0 ppm | 300/20 ppm | 300/40 ppm  | 300/80 ppm  |
| <b>Liver: Hepatocyte Hypertrophy</b> |           |            |             |             |
| <b>LESION RATES</b>                  |           |            |             |             |
| OVERALL (a)                          | 1/50 (2%) | 4/50 (8%)  | 29/50 (58%) | 42/50 (84%) |
| LITTERS (b)                          | 1/25 (4%) | 4/25 (16%) | 22/25 (88%) | 23/26 (88%) |
| POLY-3 RATE (c)                      | 1/43.83   | 4/45.00    | 29/48.18    | 42/46.86    |
| POLY-3 PERCENT (g)                   | 2.3%      | 8.9%       | 60.2%       | 89.6%       |
| TERMINAL (d)                         | 0/35 (0%) | 3/38 (8%)  | 26/38 (68%) | 37/39 (95%) |
| FIRST INCIDENCE                      | 568       | 683        | 116         | 134         |
| <b>STATISTICAL TESTS</b>             |           |            |             |             |
| POLY 3                               | P<0.001** | P=0.187    | P<0.001**   | P<0.001**   |
| POLY 1.5                             | P<0.001** | P=0.183    | P<0.001**   | P<0.001**   |
| POLY 6                               | P<0.001** | P=0.191    | P<0.001**   | P<0.001**   |
| RAO-SCOTT                            | P<0.001** | P=0.173    | P<0.001**   | P<0.001**   |
| LITTER C-A/FISHERS                   | P<0.001** | P=0.174    | P<0.001**   | P<0.001**   |

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

| DOSE   | Males     |            |            |             |
|--|-----------|------------|------------|-------------|
|  | 300/0 ppm | 300/20 ppm | 300/40 ppm | 300/80 ppm  |
| <b>Liver: Hepatocyte<br/>Single Cell Death</b> |           |            |            |             |
| <b>LESION RATES</b>                            |           |            |            |             |
| OVERALL (a)                                    | 1/50 (2%) | 3/50 (6%)  | 5/50 (10%) | 29/50 (58%) |
| LITTERS (b)                                    | 1/25 (4%) | 3/25 (12%) | 4/25 (16%) | 20/26 (77%) |
| POLY-3 RATE (c)                                | 1/44.24   | 3/47.47    | 5/46.66    | 29/46.62    |
| POLY-3 PERCENT (g)                             | 2.3%      | 6.3%       | 10.7%      | 62.2%       |
| TERMINAL (d)                                   | 0/35 (0%) | 0/38 (0%)  | 4/38 (11%) | 26/39 (67%) |
| FIRST INCIDENCE                                | 247       | 238        | 116        | 134         |
| <b>STATISTICAL TESTS</b>                       |           |            |            |             |
| POLY 3   | P<0.001** | P=0.331    | P=0.114    | P<0.001**   |
| POLY 1.5                                       | P<0.001** | P=0.322    | P=0.110    | P<0.001**   |
| POLY 6   | P<0.001** | P=0.339    | P=0.117    | P<0.001**   |
| RAO-SCOTT                                      | P<0.001** | P=0.344    | P=0.130    | P<0.001**   |
| LITTER C-A/FISHERS                             | P<0.001** | P=0.305    | P=0.174    | P<0.001**   |

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

| DOSE                     | Males     |            |            |            |
|--------------------------|-----------|------------|------------|------------|
|                          | 300/0 ppm | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| Lung<br>Foreign Body     |           |            |            |            |
| <b>LESION 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)   | ---        | ---        | ---        |
| <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=0.232N  | P=0.389N   | P=0.388N   | P=0.389N   |
| 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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

| DOSE                                    | Males       |             |             |             |
|---|-------------|-------------|-------------|-------------|
|   | 300/0 ppm   | 300/20 ppm  | 300/40 ppm  | 300/80 ppm  |
| <b>Lung</b>                             |             |             |             |             |
| <b>Infiltration Cellular Histiocyte</b> |             |             |             |             |
| <b>LESION RATES</b>                     |             |             |             |             |
| OVERALL (a)                             | 17/50 (34%) | 21/50 (42%) | 25/50 (50%) | 23/50 (46%) |
| LITTERS (b)                             | 12/25 (48%) | 14/25 (56%) | 18/25 (72%) | 16/26 (62%) |
| POLY-3 RATE (c)                         | 17/44.04    | 21/45.75    | 25/46.30    | 23/45.48    |
| POLY-3 PERCENT (g)                      | 38.6%       | 45.9%       | 54%         | 50.6%       |
| TERMINAL (d)                            | 14/35 (40%) | 18/38 (47%) | 22/38 (58%) | 21/39 (54%) |
| FIRST INCIDENCE                         | 478         | 478         | 645         | 527         |
| <b>STATISTICAL TESTS</b>                |             |             |             |             |
| POLY 3                                  | P=0.150     | P=0.313     | P=0.101     | P=0.175     |
| POLY 1.5                                | P=0.141     | P=0.291     | P=0.088     | P=0.163     |
| POLY 6                                  | P=0.156     | P=0.341     | P=0.114     | P=0.185     |
| RAO-SCOTT                               | P=0.181     | P=0.342     | P=0.138     | P=0.213     |
| LITTER C-A/FISHERS                      | P=0.182     | P=0.389     | P=0.074     | P=0.245     |

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

| DOSE                                 | Males      |            |            |            |
|--------------------------------------|------------|------------|------------|------------|
|                                      | 300/0 ppm  | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Lung<br/>Inflammation Chronic</b> |            |            |            |            |
| <b>LESION RATES</b>                  |            |            |            |            |
| OVERALL (a)                          | 4/50 (8%)  | 2/50 (4%)  | 5/50 (10%) | 6/50 (12%) |
| LITTERS (b)                          | 4/25 (16%) | 2/25 (8%)  | 5/25 (20%) | 5/26 (19%) |
| POLY-3 RATE (c)                      | 4/44.13    | 2/45.00    | 5/45.68    | 6/45.16    |
| POLY-3 PERCENT (g)                   | 9.1%       | 4.4%       | 11%        | 13.3%      |
| TERMINAL (d)                         | 2/35 (6%)  | 1/38 (3%)  | 4/38 (11%) | 5/39 (13%) |
| FIRST INCIDENCE                      | 617        | 683        | 739        | 617        |
| <b>STATISTICAL TESTS</b>             |            |            |            |            |
| POLY 3                               | P=0.191    | P=0.328N   | P=0.522    | P=0.384    |
| POLY 1.5                             | P=0.189    | P=0.332N   | P=0.514    | P=0.378    |
| POLY 6                               | P=0.190    | P=0.324N   | P=0.522    | P=0.386    |
| RAO-SCOTT                            | P=0.216    | P=0.350N   | P=0.529    | P=0.401    |
| LITTER C-A/FISHERS                   | P=0.314    | P=0.334N   | P=0.500    | P=0.526    |

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS

| DOSE                                    | Males      |             |            |            |
|---|------------|-------------|------------|------------|
|   | 300/0 ppm  | 300/20 ppm  | 300/40 ppm | 300/80 ppm |
| <b>Lung</b>                             |            |             |            |            |
| <b>Inflammation Granulomatous Focal</b> |            |             |            |            |
| <b>LESION RATES</b>                     |            |             |            |            |
| OVERALL (a)                             | 5/50 (10%) | 11/50 (22%) | 3/50 (6%)  | 6/50 (12%) |
| LITTERS (b)                             | 5/25 (20%) | 8/25 (32%)  | 3/25 (12%) | 5/26 (19%) |
| POLY-3 RATE (c)                         | 5/43.29    | 11/44.81    | 3/45.66    | 6/45.33    |
| POLY-3 PERCENT (g)                      | 11.6%      | 24.6%       | 6.6%       | 13.2%      |
| TERMINAL (d)                            | 4/35 (11%) | 9/38 (24%)  | 3/38 (8%)  | 5/39 (13%) |
| FIRST INCIDENCE                         | 739        | 739         | 743 (T)    | 550        |
| <b>STATISTICAL TESTS</b>                |            |             |            |            |
| POLY 3                                  | P=0.362N   | P=0.094     | P=0.327N   | P=0.532    |
| POLY 1.5                                | P=0.377N   | P=0.089     | P=0.339N   | P=0.519    |
| POLY 6                                  | P=0.351N   | P=0.100     | P=0.320N   | P=0.543    |
| RAO-SCOTT                               | P=0.396N   | P=0.141     | P=0.373N   | P=0.550    |
| LITTER C-A/FISHERS                      | P=0.357N   | P=0.260     | P=0.351N   | P=0.610N   |

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

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| DOSE   | Males     |            |            |            |
|--|-----------|------------|------------|------------|
|  | 300/0 ppm | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Lung: Alveolar Epithelium<br/>Hyperplasia</b> |           |            |            |            |
| <b>LESION RATES</b>                              |           |            |            |            |
| OVERALL (a)                                      | 1/50 (2%) | 4/50 (8%)  | 2/50 (4%)  | 2/50 (4%)  |
| LITTERS (b)                                      | 1/25 (4%) | 4/25 (16%) | 2/25 (8%)  | 2/26 (8%)  |
| POLY-3 RATE (c)                                  | 1/43.27   | 4/44.78    | 2/45.82    | 2/44.73    |
| POLY-3 PERCENT (g)                               | 2.3%      | 8.9%       | 4.4%       | 4.5%       |
| TERMINAL (d)                                     | 1/35 (3%) | 4/38 (11%) | 1/38 (3%)  | 2/39 (5%)  |
| FIRST INCIDENCE                                  | 743 (T)   | 743 (T)    | 701        | 743 (T)    |
| <b>STATISTICAL TESTS</b>                         |           |            |            |            |
| POLY 3   | P=0.589   | P=0.189    | P=0.520    | P=0.512    |
| POLY 1.5   | P=0.580   | P=0.184    | P=0.512    | P=0.507    |
| POLY 6   | P=0.590N  | P=0.194    | P=0.526    | P=0.515    |
| RAO-SCOTT  | P=0.578   | P=0.206    | P=0.523    | P=0.512    |
| LITTER C-A/FISHERS                               | P=0.588   | P=0.174    | P=0.500    | P=0.515    |

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Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

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| DOSE                                  | Males      |            |            |            |
|---------------------------------------|------------|------------|------------|------------|
|                                       | 300/0 ppm  | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Lymph Node, Mandibular Atrophy</b> |            |            |            |            |
| <b>LESION RATES</b>                   |            |            |            |            |
| OVERALL (a)                           | 3/50 (6%)  | 0/50 (0%)  | 2/50 (4%)  | 3/50 (6%)  |
| LITTERS (b)                           | 3/25 (12%) | 0/25 (0%)  | 2/25 (8%)  | 3/26 (12%) |
| POLY-3 RATE (c)                       | 3/43.53    | 0/44.78    | 2/46.37    | 3/46.32    |
| POLY-3 PERCENT (g)                    | 6.9%       | 0%         | 4.3%       | 6.5%       |
| TERMINAL (d)                          | 2/35 (6%)  | 0/38 (0%)  | 0/38 (0%)  | 1/39 (3%)  |
| FIRST INCIDENCE                       | 673        | ---        | 561        | 134        |
| <b>STATISTICAL TESTS</b>              |            |            |            |            |
| POLY 3                                | P=0.421    | P=0.114N   | P=0.471N   | P=0.633N   |
| POLY 1.5                              | P=0.417    | P=0.116N   | P=0.483N   | P=0.642N   |
| POLY 6                                | P=0.422    | P=0.111N   | P=0.463N   | P=0.628N   |
| RAO-SCOTT                             | P=0.447    | P=0.149N   | P=0.490N   | P=0.636N   |
| LITTER C-A/FISHERS                    | P=0.419    | P=0.117N   | P=0.500N   | P=0.647N   |

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Experiment Number: 20614 - 02  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Perfluorooctanoic Acid  
 CAS Number: 335-67-1

Date Report Requested: 06/07/2018  
 Time Report Requested: 14:48:32  
 First Dose M/F: 07/27/09 / NA  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 107 WEEKS**

| DOSE   | Males     |            |            |            |
|--|-----------|------------|------------|------------|
|  | 300/0 ppm | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Lymph Node, Mandibular<br/>Hyperplasia Lymphoid</b> |           |            |            |            |
| <b>LESION RATES</b>                                    |           |            |            |            |
| OVERALL (a)  | 2/50 (4%) | 0/50 (0%)  | 1/50 (2%)  | 3/50 (6%)  |
| LITTERS (b)  | 1/25 (4%) | 0/25 (0%)  | 1/25 (4%)  | 3/26 (12%) |
| POLY-3 RATE (c)  | 2/43.29   | 0/44.78    | 1/46.00    | 3/44.73    |
| POLY-3 PERCENT (g)                                     | 4.6%      | 0%         | 2.2%       | 6.7%       |
| TERMINAL (d)   | 1/35 (3%) | 0/38 (0%)  | 0/38 (0%)  | 3/39 (8%)  |
| FIRST INCIDENCE  | 739       | ---        | 648        | 743 (T)    |
| <b>STATISTICAL TESTS</b>                               |           |            |            |            |
| POLY 3   | P=0.245   | P=0.230N   | P=0.479N   | P=0.515    |
| POLY 1.5   | P=0.244   | P=0.233N   | P=0.487N   | P=0.509    |
| POLY 6   | P=0.244   | P=0.226N   | P=0.472N   | P=0.519    |
| RAO-SCOTT  | P=0.339   | P=0.380N   | P=0.573N   | P=0.579    |
| LITTER C-A/FISHERS                                     | P=0.101   | P=0.500N   | P=0.755    | P=0.320    |

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

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| DOSE  | Males      |            |            |            |
|---|------------|------------|------------|------------|
|   | 300/0 ppm  | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Lymph Node, Mandibular<br/>Infiltration Cellular Plasma Cell</b> |            |            |            |            |
| <b>LESION RATES</b>   |            |            |            |            |
| OVERALL (a)   | 3/50 (6%)  | 1/50 (2%)  | 2/50 (4%)  | 0/50 (0%)  |
| LITTERS (b)   | 3/25 (12%) | 1/25 (4%)  | 2/25 (8%)  | 0/26 (0%)  |
| POLY-3 RATE (c)   | 3/44.25    | 1/44.78    | 2/46.00    | 0/44.73    |
| POLY-3 PERCENT (g)  | 6.8%       | 2.2%       | 4.4%       | 0%         |
| TERMINAL (d)  | 1/35 (3%)  | 1/38 (3%)  | 1/38 (3%)  | 0/39 (0%)  |
| FIRST INCIDENCE   | 568        | 743 (T)    | 648        | ---        |
| <b>STATISTICAL TESTS</b>  |            |            |            |            |
| POLY 3  | P=0.102N   | P=0.301N   | P=0.482N   | P=0.117N   |
| POLY 1.5  | P=0.103N   | P=0.303N   | P=0.489N   | P=0.118N   |
| POLY 6  | P=0.103N   | P=0.299N   | P=0.480N   | P=0.117N   |
| RAO-SCOTT   | P=0.138N   | P=0.347N   | P=0.511N   | P=0.167N   |
| LITTER C-A/FISHERS  | P=0.095N   | P=0.305N   | P=0.500N   | P=0.110N   |

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Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

---

| DOSE   | Males     |            |            |            |
|--|-----------|------------|------------|------------|
|  | 300/0 ppm | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Nose: Glands, Respiratory Epithelium<br/>Inflammation</b> |           |            |            |            |
| <b>LESION RATES</b>  |           |            |            |            |
| OVERALL (a)  | 2/50 (4%) | 0/50 (0%)  | 8/50 (16%) | 1/50 (2%)  |
| LITTERS (b)  | 2/25 (8%) | 0/25 (0%)  | 7/25 (28%) | 1/26 (4%)  |
| POLY-3 RATE (c)  | 2/43.27   | 0/44.78    | 8/46.23    | 1/44.73    |
| POLY-3 PERCENT (g)   | 4.6%      | 0%         | 17.3%      | 2.2%       |
| TERMINAL (d)   | 2/35 (6%) | 0/38 (0%)  | 7/38 (18%) | 1/39 (3%)  |
| FIRST INCIDENCE  | 743 (T)   | ---        | 561        | 743 (T)    |
| <b>STATISTICAL TESTS</b>                                     |           |            |            |            |
| POLY 3   | P=0.537   | P=0.230N   | P=0.057    | P=0.488N   |
| POLY 1.5   | P=0.531   | P=0.233N   | P=0.052    | P=0.493N   |
| POLY 6   | P=0.539   | P=0.226N   | P=0.060    | P=0.485N   |
| RAO-SCOTT  | P=0.552   | P=0.333N   | P=0.115    | P=0.548N   |
| LITTER C-A/FISHERS   | P=0.564   | P=0.245N   | P=0.069    | P=0.485N   |

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Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

---

| DOSE  | Males        |              |              |             |
|---|--------------|--------------|--------------|-------------|
|   | 300/0 ppm    | 300/20 ppm   | 300/40 ppm   | 300/80 ppm  |
| <b>Nose: Olfactory Epithelium<br/>Accumulation, Hyaline Droplet</b> |              |              |              |             |
| <b>LESION RATES</b>   |              |              |              |             |
| OVERALL (a)   | 45/50 (90%)  | 49/50 (98%)  | 44/50 (88%)  | 42/50 (84%) |
| LITTERS (b)   | 25/25 (100%) | 25/25 (100%) | 25/25 (100%) | 25/26 (96%) |
| POLY-3 RATE (c)   | 45/46.93     | 49/49.96     | 44/47.49     | 42/47.32    |
| POLY-3 PERCENT (g)  | 95.9%        | 98.1%        | 92.7%        | 88.8%       |
| TERMINAL (d)  | 35/35 (100%) | 38/38 (100%) | 37/38 (97%)  | 36/39 (92%) |
| FIRST INCIDENCE   | 351          | 238          | 561          | 298         |
| <b>STATISTICAL TESTS</b>  |              |              |              |             |
| POLY 3  | P=0.037N*    | P=0.483      | P=0.395N     | P=0.148N    |
| POLY 1.5  | P=0.050N*    | P=0.275      | P=0.490N     | P=0.201N    |
| POLY 6  | P=0.029N*    | P=0.780      | P=0.275N     | P=0.109N    |
| RAO-SCOTT   | P=0.062N     | P=0.497      | P=0.415N     | P=0.193N    |
| LITTER C-A/FISHERS  | P=0.204N     | P=1.000      | P=1.000      | P=0.510N    |

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Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

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| DOSE   | Males      |            |            |            |
|--|------------|------------|------------|------------|
|  | 300/0 ppm  | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Nose: Respiratory Epithelium Inflammation</b> |            |            |            |            |
| <b>LESION RATES</b>                              |            |            |            |            |
| OVERALL (a)                                      | 3/50 (6%)  | 6/50 (12%) | 4/50 (8%)  | 7/50 (14%) |
| LITTERS (b)                                      | 3/25 (12%) | 6/25 (24%) | 4/25 (16%) | 7/26 (27%) |
| POLY-3 RATE (c)                                  | 3/43.27    | 6/45.09    | 4/45.82    | 7/44.73    |
| POLY-3 PERCENT (g)                               | 6.9%       | 13.3%      | 8.7%       | 15.7%      |
| TERMINAL (d)                                     | 3/35 (9%)  | 4/38 (11%) | 3/38 (8%)  | 7/39 (18%) |
| FIRST INCIDENCE                                  | 743 (T)    | 693        | 701        | 743 (T)    |
| <b>STATISTICAL TESTS</b>                         |            |            |            |            |
| POLY 3   | P=0.183    | P=0.262    | P=0.531    | P=0.170    |
| POLY 1.5   | P=0.178    | P=0.253    | P=0.518    | P=0.165    |
| POLY 6   | P=0.185    | P=0.274    | P=0.540    | P=0.174    |
| RAO-SCOTT  | P=0.183    | P=0.260    | P=0.521    | P=0.171    |
| LITTER C-A/FISHERS                               | P=0.176    | P=0.232    | P=0.500    | P=0.162    |

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Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

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| DOSE   | Males     |            |            |            |
|--|-----------|------------|------------|------------|
|  | 300/0 ppm | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Nose: Respiratory Epithelium<br/>Metaplasia</b> |           |            |            |            |
| <b>LESION 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)   | ---        | ---        | ---        |
| <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=0.232N  | P=0.390N   | P=0.388N   | P=0.390N   |
| LITTER C-A/FISHERS                                 | P=0.111N  | P=0.245N   | P=0.245N   | P=0.235N   |

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Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS

| DOSE                        | Males     |            |            |            |
|-----------------------------|-----------|------------|------------|------------|
|                             | 300/0 ppm | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Pancreas</b>             |           |            |            |            |
| <b>Inflammation Chronic</b> |           |            |            |            |
| <b>LESION RATES</b>         |           |            |            |            |
| OVERALL (a)                 | 1/50 (2%) | 0/50 (0%)  | 5/50 (10%) | 5/50 (10%) |
| LITTERS (b)                 | 1/25 (4%) | 0/25 (0%)  | 5/25 (20%) | 5/26 (19%) |
| POLY-3 RATE (c)             | 1/43.27   | 0/44.78    | 5/45.66    | 5/44.73    |
| POLY-3 PERCENT (g)          | 2.3%      | 0%         | 11%        | 11.2%      |
| TERMINAL (d)                | 1/35 (3%) | 0/38 (0%)  | 5/38 (13%) | 5/39 (13%) |
| FIRST INCIDENCE             | 743 (T)   | ---        | 743 (T)    | 743 (T)    |
| <b>STATISTICAL TESTS</b>    |           |            |            |            |
| POLY 3                      | P=0.020*  | P=0.493N   | P=0.114    | P=0.109    |
| POLY 1.5                    | P=0.020*  | P=0.496N   | P=0.109    | P=0.106    |
| POLY 6                      | P=0.021*  | P=0.490N   | P=0.117    | P=0.111    |
| RAO-SCOTT                   | P=0.040*  | P=0.542N   | P=0.158    | P=0.152    |
| LITTER C-A/FISHERS          | P=0.021*  | P=0.500N   | P=0.095    | P=0.104    |

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

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| DOSE                            | Males      |             |             |             |
|---------------------------------|------------|-------------|-------------|-------------|
|                                 | 300/0 ppm  | 300/20 ppm  | 300/40 ppm  | 300/80 ppm  |
| <b>Pancreas: Acinus Atrophy</b> |            |             |             |             |
| <b>LESION RATES</b>             |            |             |             |             |
| OVERALL (a)                     | 9/50 (18%) | 13/50 (26%) | 14/50 (28%) | 14/50 (28%) |
| LITTERS (b)                     | 9/25 (36%) | 10/25 (40%) | 12/25 (48%) | 13/26 (50%) |
| POLY-3 RATE (c)                 | 9/43.83    | 13/44.79    | 14/45.77    | 14/44.84    |
| POLY-3 PERCENT (g)              | 20.5%      | 29%         | 30.6%       | 31.2%       |
| TERMINAL (d)                    | 8/35 (23%) | 12/38 (32%) | 13/38 (34%) | 13/39 (33%) |
| FIRST INCIDENCE                 | 568        | 739         | 715         | 715         |
| <b>STATISTICAL TESTS</b>        |            |             |             |             |
| POLY 3                          | P=0.188    | P=0.249     | P=0.198     | P=0.182     |
| POLY 1.5                        | P=0.182    | P=0.241     | P=0.186     | P=0.177     |
| POLY 6                          | P=0.189    | P=0.257     | P=0.204     | P=0.185     |
| RAO-SCOTT                       | P=0.196    | P=0.256     | P=0.208     | P=0.192     |
| LITTER C-A/FISHERS              | P=0.172    | P=0.500     | P=0.284     | P=0.234     |

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Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

| DOSE                                    | Males       |             |             |             |
|---|-------------|-------------|-------------|-------------|
|   | 300/0 ppm   | 300/20 ppm  | 300/40 ppm  | 300/80 ppm  |
| <b>Pancreas: Acinus<br/>Hyperplasia</b> |             |             |             |             |
| <b>LESION RATES</b>                     |             |             |             |             |
| OVERALL (a)                             | 23/50 (46%) | 27/50 (54%) | 38/50 (76%) | 33/50 (66%) |
| LITTERS (b)                             | 16/25 (64%) | 19/25 (76%) | 24/25 (96%) | 22/26 (85%) |
| POLY-3 RATE (c)                         | 23/43.74    | 27/44.81    | 38/46.31    | 33/45.44    |
| POLY-3 PERCENT (g)                      | 52.6%       | 60.3%       | 82.1%       | 72.6%       |
| TERMINAL (d)                            | 19/35 (54%) | 25/38 (66%) | 33/38 (87%) | 31/39 (80%) |
| FIRST INCIDENCE                         | 617         | 739         | 683         | 550         |
| <b>STATISTICAL TESTS</b>                |             |             |             |             |
| POLY 3                                  | P=0.013*    | P=0.301     | P<0.001**   | P=0.035*    |
| POLY 1.5                                | P=0.012*    | P=0.285     | P<0.001**   | P=0.032*    |
| POLY 6                                  | P=0.014*    | P=0.318     | P=0.002**   | P=0.037*    |
| RAO-SCOTT                               | P=0.024*    | P=0.319     | P=0.005**   | P=0.054     |
| LITTER C-A/FISHERS                      | P=0.040*    | P=0.269     | P=0.005**   | P=0.085     |

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

| DOSE                                 | Males      |            |            |            |
|--------------------------------------|------------|------------|------------|------------|
|                                      | 300/0 ppm  | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Parathyroid Gland Hyperplasia</b> |            |            |            |            |
| <b>LESION RATES</b>                  |            |            |            |            |
| OVERALL (a)                          | 3/46 (7%)  | 0/39 (0%)  | 1/40 (3%)  | 1/42 (2%)  |
| LITTERS (b)                          | 3/25 (12%) | 0/25 (0%)  | 1/24 (4%)  | 1/24 (4%)  |
| POLY-3 RATE (c)                      | 3/42.75    | 0/33.83    | 1/37.02    | 1/37.16    |
| POLY-3 PERCENT (g)                   | 7%         | 0%         | 2.7%       | 2.7%       |
| TERMINAL (d)                         | 0/34 (0%)  | 0/29 (0%)  | 0/31 (0%)  | 0/31 (0%)  |
| FIRST INCIDENCE                      | 617        | ---        | 561        | 617        |
| <b>STATISTICAL TESTS</b>             |            |            |            |            |
| POLY 3                               | P=0.311N   | P=0.164N   | P=0.358N   | P=0.357N   |
| POLY 1.5                             | P=0.312N   | P=0.160N   | P=0.360N   | P=0.352N   |
| POLY 6                               | P=0.310N   | P=0.168N   | P=0.357N   | P=0.363N   |
| RAO-SCOTT                            | P=0.349N   | P=0.204N   | P=0.396N   | P=0.390N   |
| LITTER C-A/FISHERS                   | P=0.307N   | P=0.117N   | P=0.320N   | P=0.320N   |

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

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| DOSE  | Males       |             |             |             |
|---|-------------|-------------|-------------|-------------|
|   | 300/0 ppm   | 300/20 ppm  | 300/40 ppm  | 300/80 ppm  |
| <b>Pituitary Gland: Pars Distalis<br/>Hyperplasia</b> |             |             |             |             |
| <b>LESION RATES</b>                                   |             |             |             |             |
| OVERALL (a)   | 16/50 (32%) | 14/50 (28%) | 17/50 (34%) | 17/50 (34%) |
| LITTERS (b)   | 13/25 (52%) | 12/25 (48%) | 13/25 (52%) | 15/26 (58%) |
| POLY-3 RATE (c)                                       | 16/43.32    | 14/44.90    | 17/46.09    | 17/45.00    |
| POLY-3 PERCENT (g)                                    | 36.9%       | 31.2%       | 36.9%       | 37.8%       |
| TERMINAL (d)  | 13/35 (37%) | 13/38 (34%) | 15/38 (40%) | 16/39 (41%) |
| FIRST INCIDENCE                                       | 739         | 711         | 624         | 670         |
| <b>STATISTICAL TESTS</b>                              |             |             |             |             |
| POLY 3  | P=0.421     | P=0.365N    | P=0.585N    | P=0.555     |
| POLY 1.5  | P=0.404     | P=0.387N    | P=0.552     | P=0.531     |
| POLY 6  | P=0.432     | P=0.340N    | P=0.560N    | P=0.575     |
| RAO-SCOTT   | P=0.427     | P=0.370N    | P=0.580N    | P=0.551     |
| LITTER C-A/FISHERS                                    | P=0.341     | P=0.500N    | P=0.611     | P=0.450     |

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Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

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| DOSE   | Males     |            |            |            |
|--|-----------|------------|------------|------------|
|  | 300/0 ppm | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Prostate: Epithelium, Ventral Hyperplasia</b> |           |            |            |            |
| <b>LESION RATES</b>                              |           |            |            |            |
| OVERALL (a)                                      | 2/50 (4%) | 3/50 (6%)  | 5/50 (10%) | 3/50 (6%)  |
| LITTERS (b)                                      | 2/25 (8%) | 3/25 (12%) | 5/25 (20%) | 3/26 (12%) |
| POLY-3 RATE (c)                                  | 2/43.29   | 3/44.78    | 5/45.66    | 3/44.73    |
| POLY-3 PERCENT (g)                               | 4.6%      | 6.7%       | 11%        | 6.7%       |
| TERMINAL (d)                                     | 1/35 (3%) | 3/38 (8%)  | 5/38 (13%) | 3/39 (8%)  |
| FIRST INCIDENCE                                  | 739       | 743 (T)    | 743 (T)    | 743 (T)    |
| <b>STATISTICAL TESTS</b>                         |           |            |            |            |
| POLY 3   | P=0.423   | P=0.515    | P=0.238    | P=0.515    |
| POLY 1.5   | P=0.416   | P=0.508    | P=0.229    | P=0.509    |
| POLY 6   | P=0.426   | P=0.523    | P=0.243    | P=0.519    |
| RAO-SCOTT  | P=0.418   | P=0.505    | P=0.240    | P=0.505    |
| LITTER C-A/FISHERS                               | P=0.424   | P=0.500    | P=0.209    | P=0.519    |

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Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

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| DOSE  | Males     |            |            |            |
|---|-----------|------------|------------|------------|
|   | 300/0 ppm | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Prostate: Lateral<br/>Inflammation Chronic</b> |           |            |            |            |
| <b>LESION RATES</b>                               |           |            |            |            |
| OVERALL (a)                                       | 0/50 (0%) | 2/50 (4%)  | 1/50 (2%)  | 1/50 (2%)  |
| LITTERS (b)                                       | 0/25 (0%) | 2/25 (8%)  | 1/25 (4%)  | 1/26 (4%)  |
| POLY-3 RATE (c)                                   | 0/43.27   | 2/44.78    | 1/46.00    | 1/44.75    |
| POLY-3 PERCENT (g)                                | 0%        | 4.5%       | 2.2%       | 2.2%       |
| TERMINAL (d)                                      | 0/35 (0%) | 2/38 (5%)  | 0/38 (0%)  | 0/39 (0%)  |
| FIRST INCIDENCE                                   | ---       | 743 (T)    | 648        | 739        |
| <b>STATISTICAL TESTS</b>                          |           |            |            |            |
| POLY 3  | P=0.516   | P=0.245    | P=0.512    | P=0.507    |
| POLY 1.5  | P=0.510   | P=0.241    | P=0.507    | P=0.504    |
| POLY 6  | P=0.521   | P=0.249    | P=0.516    | P=0.509    |
| RAO-SCOTT   | P=0.525   | P=0.298    | P=0.561    | P=0.551    |
| LITTER C-A/FISHERS                                | P=0.512   | P=0.245    | P=0.500    | P=0.510    |

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Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS

| DOSE  | Males      |            |             |            |
|---|------------|------------|-------------|------------|
|   | 300/0 ppm  | 300/20 ppm | 300/40 ppm  | 300/80 ppm |
| <b>Prostate: Ventral<br/>Inflammation Chronic</b> |            |            |             |            |
| <b>LESION RATES</b>                               |            |            |             |            |
| OVERALL (a)                                       | 6/50 (12%) | 3/50 (6%)  | 10/50 (20%) | 9/50 (18%) |
| LITTERS (b)                                       | 6/25 (24%) | 3/25 (12%) | 9/25 (36%)  | 7/26 (27%) |
| POLY-3 RATE (c)                                   | 6/43.84    | 3/44.78    | 10/45.76    | 9/44.73    |
| POLY-3 PERCENT (g)                                | 13.7%      | 6.7%       | 21.9%       | 20.1%      |
| TERMINAL (d)                                      | 4/35 (11%) | 3/38 (8%)  | 8/38 (21%)  | 9/39 (23%) |
| FIRST INCIDENCE                                   | 568        | 743 (T)    | 722         | 743 (T)    |
| <b>STATISTICAL TESTS</b>                          |            |            |             |            |
| POLY 3  | P=0.110    | P=0.231N   | P=0.232     | P=0.301    |
| POLY 1.5  | P=0.109    | P=0.236N   | P=0.222     | P=0.295    |
| POLY 6  | P=0.109    | P=0.226N   | P=0.237     | P=0.302    |
| RAO-SCOTT   | P=0.138    | P=0.262N   | P=0.262     | P=0.326    |
| LITTER C-A/FISHERS                                | P=0.284    | P=0.232N   | P=0.269     | P=0.533    |

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

| DOSE                                | Males      |            |            |            |
|-------------------------------------|------------|------------|------------|------------|
|                                     | 300/0 ppm  | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Seminal Vesicle Inflammation</b> |            |            |            |            |
| <b>LESION RATES</b>                 |            |            |            |            |
| OVERALL (a)                         | 3/50 (6%)  | 1/50 (2%)  | 0/50 (0%)  | 0/50 (0%)  |
| LITTERS (b)                         | 3/25 (12%) | 1/25 (4%)  | 0/25 (0%)  | 0/26 (0%)  |
| POLY-3 RATE (c)                     | 3/43.84    | 1/44.78    | 0/45.66    | 0/44.73    |
| POLY-3 PERCENT (g)                  | 6.8%       | 2.2%       | 0%         | 0%         |
| TERMINAL (d)                        | 1/35 (3%)  | 1/38 (3%)  | 0/38 (0%)  | 0/39 (0%)  |
| FIRST INCIDENCE                     | 568        | 743 (T)    | ---        | ---        |
| <b>STATISTICAL TESTS</b>            |            |            |            |            |
| POLY 3                              | P=0.042N*  | P=0.298N   | P=0.111N   | P=0.115N   |
| POLY 1.5                            | P=0.043N*  | P=0.301N   | P=0.114N   | P=0.117N   |
| POLY 6                              | P=0.043N*  | P=0.294N   | P=0.110N   | P=0.114N   |
| RAO-SCOTT                           | P=0.089N   | P=0.375N   | P=0.197N   | P=0.199N   |
| LITTER C-A/FISHERS                  | P=0.041N*  | P=0.305N   | P=0.117N   | P=0.110N   |

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

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| DOSE                             | Males     |            |            |            |
|----------------------------------|-----------|------------|------------|------------|
|                                  | 300/0 ppm | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Skin</b>                      |           |            |            |            |
| <b>Cyst Epithelial Inclusion</b> |           |            |            |            |
| <hr/>                            |           |            |            |            |
| <b>LESION RATES</b>              |           |            |            |            |
| OVERALL (a)                      | 0/50 (0%) | 2/50 (4%)  | 0/50 (0%)  | 1/50 (2%)  |
| LITTERS (b)                      | 0/25 (0%) | 2/25 (8%)  | 0/25 (0%)  | 1/26 (4%)  |
| POLY-3 RATE (c)                  | 0/43.27   | 2/44.78    | 0/45.66    | 1/44.73    |
| POLY-3 PERCENT (g)               | 0%        | 4.5%       | 0%         | 2.2%       |
| TERMINAL (d)                     | 0/35 (0%) | 2/38 (5%)  | 0/38 (0%)  | 1/39 (3%)  |
| FIRST INCIDENCE                  | ---       | 743 (T)    | ---        | 743 (T)    |
| <hr/>                            |           |            |            |            |
| <b>STATISTICAL TESTS</b>         |           |            |            |            |
| POLY 3                           | P=0.554   | P=0.245    | (e)        | P=0.507    |
| POLY 1.5                         | P=0.548   | P=0.241    | (e)        | P=0.504    |
| POLY 6                           | P=0.559   | P=0.249    | (e)        | P=0.509    |
| RAO-SCOTT                        | P=0.582   | P=0.354    | (e)        | P=0.610    |
| LITTER C-A/FISHERS               | P=0.550   | P=0.245    | (e)        | P=0.510    |

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Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

| DOSE                     | Males     |            |            |            |
|--------------------------|-----------|------------|------------|------------|
|                          | 300/0 ppm | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Skin Inflammation</b> |           |            |            |            |
| <b>LESION RATES</b>      |           |            |            |            |
| OVERALL (a)              | 0/50 (0%) | 3/50 (6%)  | 2/50 (4%)  | 4/50 (8%)  |
| LITTERS (b)              | 0/25 (0%) | 3/25 (12%) | 2/25 (8%)  | 4/26 (15%) |
| POLY-3 RATE (c)          | 0/43.27   | 3/44.78    | 2/46.00    | 4/44.73    |
| POLY-3 PERCENT (g)       | 0%        | 6.7%       | 4.4%       | 8.9%       |
| TERMINAL (d)             | 0/35 (0%) | 3/38 (8%)  | 1/38 (3%)  | 4/39 (10%) |
| FIRST INCIDENCE          | ---       | 743 (T)    | 648        | 743 (T)    |
| <b>STATISTICAL TESTS</b> |           |            |            |            |
| POLY 3                   | P=0.081   | P=0.125    | P=0.251    | P=0.064    |
| POLY 1.5                 | P=0.078   | P=0.122    | P=0.245    | P=0.063    |
| POLY 6                   | P=0.082   | P=0.128    | P=0.255    | P=0.066    |
| RAO-SCOTT                | P=0.104   | P=0.161    | P=0.293    | P=0.094    |
| LITTER C-A/FISHERS       | P=0.078   | P=0.117    | P=0.245    | P=0.060    |

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS 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>Ulcer</b>             |           |            |            |            |
| <b>LESION RATES</b>      |           |            |            |            |
| OVERALL (a)              | 0/50 (0%) | 1/50 (2%)  | 0/50 (0%)  | 2/50 (4%)  |
| LITTERS (b)              | 0/25 (0%) | 1/25 (4%)  | 0/25 (0%)  | 2/26 (8%)  |
| POLY-3 RATE (c)          | 0/43.27   | 1/44.78    | 0/45.66    | 2/44.73    |
| POLY-3 PERCENT (g)       | 0%        | 2.2%       | 0%         | 4.5%       |
| TERMINAL (d)             | 0/35 (0%) | 1/38 (3%)  | 0/38 (0%)  | 2/39 (5%)  |
| FIRST INCIDENCE          | ---       | 743 (T)    | ---        | 743 (T)    |
| <b>STATISTICAL TESTS</b> |           |            |            |            |
| POLY 3                   | P=0.145   | P=0.507    | (e)        | P=0.245    |
| POLY 1.5                 | P=0.143   | P=0.504    | (e)        | P=0.242    |
| POLY 6                   | P=0.146   | P=0.510    | (e)        | P=0.247    |
| RAO-SCOTT                | P=0.219   | P=0.604    | (e)        | P=0.347    |
| LITTER C-A/FISHERS       | P=0.145   | P=0.500    | (e)        | P=0.255    |

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

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| DOSE                                | Males       |             |             |             |
|-------------------------------------|-------------|-------------|-------------|-------------|
|                                     | 300/0 ppm   | 300/20 ppm  | 300/40 ppm  | 300/80 ppm  |
| <b>Spleen</b>                       |             |             |             |             |
| <b>Extramedullary Hematopoiesis</b> |             |             |             |             |
| <hr/>                               |             |             |             |             |
| <b>LESION RATES</b>                 |             |             |             |             |
| <b>OVERALL (a)</b>                  | 40/50 (80%) | 40/50 (80%) | 40/50 (80%) | 36/50 (72%) |
| <b>LITTERS (b)</b>                  | 23/25 (92%) | 23/25 (92%) | 24/25 (96%) | 21/26 (81%) |
| <b>POLY-3 RATE (c)</b>              | 40/46.78    | 40/45.87    | 40/46.83    | 36/47.48    |
| <b>POLY-3 PERCENT (g)</b>           | 85.5%       | 87.2%       | 85.4%       | 75.8%       |
| <b>TERMINAL (d)</b>                 | 33/35 (94%) | 36/38 (95%) | 34/38 (90%) | 31/39 (80%) |
| <b>FIRST INCIDENCE</b>              | 247         | 478         | 624         | 134         |
| <hr/>                               |             |             |             |             |
| <b>STATISTICAL TESTS</b>            |             |             |             |             |
| <b>POLY 3</b>                       | P=0.084N    | P=0.528     | P=0.616N    | P=0.168N    |
| <b>POLY 1.5</b>                     | P=0.106N    | P=0.538     | P=0.593     | P=0.188N    |
| <b>POLY 6</b>                       | P=0.073N    | P=0.523     | P=0.611N    | P=0.159N    |
| <b>RAO-SCOTT</b>                    | P=0.114N    | P=0.533     | P=0.612N    | P=0.201N    |
| <b>LITTER C-A/FISHERS</b>           | P=0.119N    | P=0.695     | P=0.500     | P=0.226N    |

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Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

| DOSE                     | Males       |             |             |             |
|--------------------------|-------------|-------------|-------------|-------------|
|                          | 300/0 ppm   | 300/20 ppm  | 300/40 ppm  | 300/80 ppm  |
| Spleen<br>Pigment        |             |             |             |             |
| <b>LESION RATES</b>      |             |             |             |             |
| OVERALL (a)              | 34/50 (68%) | 33/50 (66%) | 39/50 (78%) | 28/50 (56%) |
| LITTERS (b)              | 22/25 (88%) | 22/25 (88%) | 23/25 (92%) | 20/26 (77%) |
| POLY-3 RATE (c)          | 34/46.31    | 33/46.56    | 39/46.96    | 28/46.55    |
| POLY-3 PERCENT (g)       | 73.4%       | 70.9%       | 83.1%       | 60.2%       |
| TERMINAL (d)             | 28/35 (80%) | 27/38 (71%) | 32/38 (84%) | 23/39 (59%) |
| FIRST INCIDENCE          | 366         | 241         | 561         | 134         |
| <b>STATISTICAL TESTS</b> |             |             |             |             |
| POLY 3                   | P=0.108N    | P=0.483N    | P=0.182     | P=0.122N    |
| POLY 1.5                 | P=0.113N    | P=0.492N    | P=0.168     | P=0.128N    |
| POLY 6                   | P=0.106N    | P=0.461N    | P=0.196     | P=0.118N    |
| RAO-SCOTT                | P=0.123N    | P=0.483N    | P=0.198     | P=0.136N    |
| LITTER C-A/FISHERS       | P=0.158N    | P=0.666     | P=0.500     | P=0.253N    |

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

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| DOSE | Males     |            |            |            |
|------|-----------|------------|------------|------------|
|      | 300/0 ppm | 300/20 ppm | 300/40 ppm | 300/80 ppm |

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Spleen: Lymphoid Follicle Atrophy

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| LESION RATES       |            |           |            |           |
|--------------------|------------|-----------|------------|-----------|
| OVERALL (a)        | 6/50 (12%) | 2/50 (4%) | 8/50 (16%) | 2/50 (4%) |
| LITTERS (b)        | 5/25 (20%) | 2/25 (8%) | 7/25 (28%) | 2/26 (8%) |
| POLY-3 RATE (c)    | 6/46.19    | 2/45.93   | 8/48.81    | 2/46.41   |
| POLY-3 PERCENT (g) | 13%        | 4.4%      | 16.4%      | 4.3%      |
| TERMINAL (d)       | 1/35 (3%)  | 0/38 (0%) | 1/38 (3%)  | 0/39 (0%) |
| FIRST INCIDENCE    | 247        | 238       | 116        | 134       |

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| STATISTICAL TESTS  |          |          |         |          |
|--------------------|----------|----------|---------|----------|
| POLY 3             | P=0.218N | P=0.135N | P=0.430 | P=0.131N |
| POLY 1.5           | P=0.219N | P=0.135N | P=0.416 | P=0.132N |
| POLY 6             | P=0.221N | P=0.134N | P=0.439 | P=0.133N |
| RAO-SCOTT          | P=0.264N | P=0.194N | P=0.468 | P=0.191N |
| LITTER C-A/FISHERS | P=0.269N | P=0.209N | P=0.371 | P=0.193N |

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Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

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| DOSE                                     | Males      |            |            |            |
|--|------------|------------|------------|------------|
|  | 300/0 ppm  | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Stomach, Forestomach Inflammation</b> |            |            |            |            |
| <b>LESION RATES</b>                      |            |            |            |            |
| OVERALL (a)                              | 4/50 (8%)  | 4/50 (8%)  | 3/50 (6%)  | 4/50 (8%)  |
| LITTERS (b)                              | 4/25 (16%) | 4/25 (16%) | 3/25 (12%) | 4/26 (15%) |
| POLY-3 RATE (c)                          | 4/44.77    | 4/46.75    | 3/47.23    | 4/46.12    |
| POLY-3 PERCENT (g)                       | 8.9%       | 8.6%       | 6.4%       | 8.7%       |
| TERMINAL (d)                             | 1/35 (3%)  | 0/38 (0%)  | 1/38 (3%)  | 2/39 (5%)  |
| FIRST INCIDENCE                          | 484        | 465        | 116        | 134        |
| <b>STATISTICAL TESTS</b>                 |            |            |            |            |
| POLY 3                                   | P=0.542N   | P=0.619N   | P=0.471N   | P=0.627N   |
| POLY 1.5                                 | P=0.543N   | P=0.629N   | P=0.479N   | P=0.630N   |
| POLY 6                                   | P=0.545N   | P=0.610N   | P=0.469N   | P=0.627N   |
| RAO-SCOTT                                | P=0.537N   | P=0.609N   | P=0.461N   | P=0.616N   |
| LITTER C-A/FISHERS                       | P=0.531N   | P=0.649    | P=0.500N   | P=0.626N   |

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Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

| DOSE                                  | Males     |            |            |            |
|---------------------------------------|-----------|------------|------------|------------|
|                                       | 300/0 ppm | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Stomach, Forestomach<br/>Ulcer</b> |           |            |            |            |
| <b>LESION RATES</b>                   |           |            |            |            |
| OVERALL (a)                           | 0/50 (0%) | 2/50 (4%)  | 1/50 (2%)  | 0/50 (0%)  |
| LITTERS (b)                           | 0/25 (0%) | 2/25 (8%)  | 1/25 (4%)  | 0/26 (0%)  |
| POLY-3 RATE (c)                       | 0/43.27   | 2/45.98    | 1/46.66    | 0/44.73    |
| POLY-3 PERCENT (g)                    | 0%        | 4.4%       | 2.1%       | 0%         |
| TERMINAL (d)                          | 0/35 (0%) | 0/38 (0%)  | 0/38 (0%)  | 0/39 (0%)  |
| FIRST INCIDENCE                       | ---       | 485        | 116        | ---        |
| <b>STATISTICAL TESTS</b>              |           |            |            |            |
| POLY 3                                | P=0.444N  | P=0.251    | P=0.515    | (e)        |
| POLY 1.5                              | P=0.451N  | P=0.245    | P=0.510    | (e)        |
| POLY 6                                | P=0.439N  | P=0.257    | P=0.518    | (e)        |
| RAO-SCOTT                             | P=0.502N  | P=0.353    | P=0.614    | (e)        |
| LITTER C-A/FISHERS                    | P=0.450N  | P=0.245    | P=0.500    | (e)        |

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

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| DOSE  | Males     |            |            |            |
|---|-----------|------------|------------|------------|
|   | 300/0 ppm | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Stomach, Forestomach: Epithelium Erosion</b> |           |            |            |            |
| <b>LESION RATES</b>                             |           |            |            |            |
| OVERALL (a)                                     | 2/50 (4%) | 1/50 (2%)  | 0/50 (0%)  | 0/50 (0%)  |
| LITTERS (b)                                     | 2/25 (8%) | 1/25 (4%)  | 0/25 (0%)  | 0/26 (0%)  |
| POLY-3 RATE (c)                                 | 2/44.05   | 1/45.53    | 0/45.66    | 0/44.73    |
| POLY-3 PERCENT (g)                              | 4.5%      | 2.2%       | 0%         | 0%         |
| TERMINAL (d)                                    | 0/35 (0%) | 0/38 (0%)  | 0/38 (0%)  | 0/39 (0%)  |
| FIRST INCIDENCE                                 | 583       | 465        | ---        | ---        |
| <b>STATISTICAL TESTS</b>                        |           |            |            |            |
| POLY 3  | P=0.100N  | P=0.488N   | P=0.229N   | P=0.234N   |
| POLY 1.5  | P=0.100N  | P=0.493N   | P=0.232N   | P=0.235N   |
| POLY 6  | P=0.101N  | P=0.485N   | P=0.229N   | P=0.234N   |
| RAO-SCOTT                                       | P=0.170N  | P=0.553N   | P=0.339N   | P=0.341N   |
| LITTER C-A/FISHERS                              | P=0.096N  | P=0.500N   | P=0.245N   | P=0.235N   |

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Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

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| DOSE  | Males      |            |            |            |
|---|------------|------------|------------|------------|
|   | 300/0 ppm  | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Stomach, Forestomach: Epithelium<br/>Hyperplasia</b> |            |            |            |            |
| <b>LESION RATES</b>                                     |            |            |            |            |
| OVERALL (a)   | 6/50 (12%) | 2/50 (4%)  | 2/50 (4%)  | 6/50 (12%) |
| LITTERS (b)   | 6/25 (24%) | 2/25 (8%)  | 2/25 (8%)  | 6/26 (23%) |
| POLY-3 RATE (c)   | 6/44.51    | 2/46.01    | 2/46.66    | 6/46.23    |
| POLY-3 PERCENT (g)                                      | 13.5%      | 4.4%       | 4.3%       | 13%        |
| TERMINAL (d)  | 4/35 (11%) | 0/38 (0%)  | 1/38 (3%)  | 3/39 (8%)  |
| FIRST INCIDENCE   | 484        | 465        | 116        | 134        |
| <b>STATISTICAL TESTS</b>                                |            |            |            |            |
| POLY 3  | P=0.440    | P=0.122N   | P=0.118N   | P=0.594N   |
| POLY 1.5  | P=0.439    | P=0.127N   | P=0.122N   | P=0.601N   |
| POLY 6  | P=0.438    | P=0.117N   | P=0.117N   | P=0.589N   |
| RAO-SCOTT   | P=0.458    | P=0.146N   | P=0.142N   | P=0.594N   |
| LITTER C-A/FISHERS                                      | P=0.453    | P=0.123N   | P=0.123N   | P=0.599N   |

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Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

| DOSE                              | Males     |            |            |            |
|-----------------------------------|-----------|------------|------------|------------|
|                                   | 300/0 ppm | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Stomach, Glandular Mineral</b> |           |            |            |            |
| <b>LESION RATES</b>               |           |            |            |            |
| OVERALL (a)                       | 0/50 (0%) | 2/50 (4%)  | 1/50 (2%)  | 0/50 (0%)  |
| LITTERS (b)                       | 0/25 (0%) | 2/25 (8%)  | 1/25 (4%)  | 0/26 (0%)  |
| POLY-3 RATE (c)                   | 0/43.27   | 2/45.52    | 1/45.68    | 0/44.73    |
| POLY-3 PERCENT (g)                | 0%        | 4.4%       | 2.2%       | 0%         |
| TERMINAL (d)                      | 0/35 (0%) | 0/38 (0%)  | 0/38 (0%)  | 0/39 (0%)  |
| FIRST INCIDENCE                   | ---       | 485        | 739        | ---        |
| <b>STATISTICAL TESTS</b>          |           |            |            |            |
| POLY 3                            | P=0.445N  | P=0.249    | P=0.511    | (e)        |
| POLY 1.5                          | P=0.452N  | P=0.244    | P=0.506    | (e)        |
| POLY 6                            | P=0.440N  | P=0.254    | P=0.514    | (e)        |
| RAO-SCOTT                         | P=0.503N  | P=0.351    | P=0.608    | (e)        |
| LITTER C-A/FISHERS                | P=0.450N  | P=0.245    | P=0.500    | (e)        |

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS 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>Edema</b>             |           |            |            |            |
| <b>LESION RATES</b>      |           |            |            |            |
| OVERALL (a)              | 0/50 (0%) | 0/50 (0%)  | 0/49 (0%)  | 2/50 (4%)  |
| LITTERS (b)              | 0/25 (0%) | 0/25 (0%)  | 0/25 (0%)  | 2/26 (8%)  |
| POLY-3 RATE (c)          | 0/43.27   | 0/44.78    | 0/44.80    | 2/44.73    |
| POLY-3 PERCENT (g)       | 0%        | 0%         | 0%         | 4.5%       |
| TERMINAL (d)             | 0/35 (0%) | 0/38 (0%)  | 0/38 (0%)  | 2/39 (5%)  |
| FIRST INCIDENCE          | ---       | ---        | ---        | 743 (T)    |
| <b>STATISTICAL TESTS</b> |           |            |            |            |
| POLY 3                   | P=0.047*  | (e)        | (e)        | P=0.245    |
| POLY 1.5                 | P=0.046*  | (e)        | (e)        | P=0.242    |
| POLY 6                   | P=0.047*  | (e)        | (e)        | P=0.247    |
| RAO-SCOTT                | P=0.137   | (e)        | (e)        | P=0.396    |
| LITTER C-A/FISHERS       | P=0.049*  | (e)        | (e)        | P=0.255    |

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS

| DOSE   | Males      |            |            |            |
|--|------------|------------|------------|------------|
|  | 300/0 ppm  | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Testes: Bilateral, Germinal Epithelium Degeneration</b> |            |            |            |            |
| <b>LESION RATES</b>  |            |            |            |            |
| OVERALL (a)  | 9/50 (18%) | 4/50 (8%)  | 4/49 (8%)  | 6/50 (12%) |
| LITTERS (b)  | 8/25 (32%) | 4/25 (16%) | 3/25 (12%) | 5/26 (19%) |
| POLY-3 RATE (c)  | 9/43.99    | 4/44.78    | 4/44.81    | 6/44.73    |
| POLY-3 PERCENT (g)   | 20.5%      | 8.9%       | 8.9%       | 13.4%      |
| TERMINAL (d)   | 5/35 (14%) | 4/38 (11%) | 3/38 (8%)  | 6/39 (15%) |
| FIRST INCIDENCE  | 617        | 743 (T)    | 739        | 743 (T)    |
| <b>STATISTICAL TESTS</b>                                   |            |            |            |            |
| POLY 3   | P=0.307N   | P=0.107N   | P=0.107N   | P=0.274N   |
| POLY 1.5   | P=0.309N   | P=0.111N   | P=0.113N   | P=0.279N   |
| POLY 6   | P=0.308N   | P=0.105N   | P=0.105N   | P=0.275N   |
| RAO-SCOTT  | P=0.327N   | P=0.141N   | P=0.141N   | P=0.304N   |
| LITTER C-A/FISHERS   | P=0.228N   | P=0.160N   | P=0.085N   | P=0.235N   |

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

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| DOSE  | Males       |            |             |             |
|---|-------------|------------|-------------|-------------|
|   | 300/0 ppm   | 300/20 ppm | 300/40 ppm  | 300/80 ppm  |
| <b>Testes: Germinal Epithelium Degeneration</b> |             |            |             |             |
| <b>LESION RATES</b>                             |             |            |             |             |
| OVERALL (a)                                     | 13/50 (26%) | 9/50 (18%) | 10/49 (20%) | 10/50 (20%) |
| LITTERS (b)                                     | 12/25 (48%) | 9/25 (36%) | 8/25 (32%)  | 9/26 (35%)  |
| POLY-3 RATE (c)                                 | 13/44.71    | 9/44.78    | 10/45.30    | 10/45.16    |
| POLY-3 PERCENT (g)                              | 29.1%       | 20.1%      | 22.1%       | 22.1%       |
| TERMINAL (d)                                    | 8/35 (23%)  | 9/38 (24%) | 7/38 (18%)  | 9/39 (23%)  |
| FIRST INCIDENCE                                 | 484         | 743 (T)    | 624         | 617         |
| <b>STATISTICAL TESTS</b>                        |             |            |             |             |
| POLY 3  | P=0.329N    | P=0.230N   | P=0.302N    | P=0.305N    |
| POLY 1.5  | P=0.334N    | P=0.232N   | P=0.317N    | P=0.310N    |
| POLY 6  | P=0.328N    | P=0.228N   | P=0.295N    | P=0.305N    |
| RAO-SCOTT                                       | P=0.333N    | P=0.236N   | P=0.308N    | P=0.310N    |
| LITTER C-A/FISHERS                              | P=0.230N    | P=0.284N   | P=0.193N    | P=0.246N    |

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Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

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| DOSE   | Males     |            |            |            |
|--|-----------|------------|------------|------------|
|  | 300/0 ppm | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Testes: Interstitial Cell Hyperplasia</b> |           |            |            |            |
| <b>LESION RATES</b>                          |           |            |            |            |
| OVERALL (a)                                  | 2/50 (4%) | 0/50 (0%)  | 0/49 (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    | 0/44.80    | 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)   | ---        | ---        | ---        |
| <b>STATISTICAL TESTS</b>                     |           |            |            |            |
| POLY 3                                       | P=0.116N  | P=0.230N   | P=0.229N   | P=0.230N   |
| POLY 1.5                                     | P=0.115N  | P=0.233N   | P=0.234N   | P=0.233N   |
| POLY 6                                       | P=0.118N  | P=0.226N   | P=0.226N   | P=0.227N   |
| RAO-SCOTT                                    | P=0.240N  | P=0.399N   | P=0.402N   | P=0.399N   |
| LITTER C-A/FISHERS                           | P=0.111N  | P=0.245N   | P=0.245N   | P=0.235N   |

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Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

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| DOSE                     | Males        |              |              |              |
|--------------------------|--------------|--------------|--------------|--------------|
|                          | 300/0 ppm    | 300/20 ppm   | 300/40 ppm   | 300/80 ppm   |
| Thymus Atrophy           |              |              |              |              |
| <b>LESION RATES</b>      |              |              |              |              |
| OVERALL (a)              | 45/48 (94%)  | 48/49 (98%)  | 46/47 (98%)  | 43/45 (96%)  |
| LITTERS (b)              | 25/25 (100%) | 25/25 (100%) | 25/25 (100%) | 25/26 (96%)  |
| POLY-3 RATE (c)          | 45/47.02     | 48/49.00     | 46/47.00     | 43/44.01     |
| POLY-3 PERCENT (g)       | 95.7%        | 98%          | 97.9%        | 97.7%        |
| TERMINAL (d)             | 32/33 (97%)  | 36/37 (97%)  | 35/36 (97%)  | 35/35 (100%) |
| FIRST INCIDENCE          | 351          | 238          | 116          | 134          |
| <b>STATISTICAL TESTS</b> |              |              |              |              |
| POLY 3                   | P=0.431      | P=0.481      | P=0.495      | P=0.523      |
| POLY 1.5                 | P=0.512      | P=0.444      | P=0.459      | P=0.578      |
| POLY 6                   | P=0.302      | P=0.492      | P=0.507      | P=0.406      |
| RAO-SCOTT                | P=0.449      | P=0.508      | P=0.521      | P=0.543      |
| LITTER C-A/FISHERS       | P=0.204N     | P=1.000      | P=1.000      | P=0.510N     |

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Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)  
TERMINAL SACRIFICE AT 107 WEEKS**

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| DOSE                                       | Males     |            |            |            |
|--|-----------|------------|------------|------------|
|  | 300/0 ppm | 300/20 ppm | 300/40 ppm | 300/80 ppm |
| <b>Thymus: Epithelial Cell Hyperplasia</b> |           |            |            |            |
| <b>LESION RATES</b>                        |           |            |            |            |
| OVERALL (a)                                | 2/48 (4%) | 0/49 (0%)  | 0/47 (0%)  | 0/45 (0%)  |
| LITTERS (b)                                | 2/25 (8%) | 0/25 (0%)  | 0/25 (0%)  | 0/26 (0%)  |
| POLY-3 RATE (c)                            | 2/41.57   | 0/43.78    | 0/43.01    | 0/40.42    |
| POLY-3 PERCENT (g)                         | 4.8%      | 0%         | 0%         | 0%         |
| TERMINAL (d)                               | 1/33 (3%) | 0/37 (0%)  | 0/36 (0%)  | 0/35 (0%)  |
| FIRST INCIDENCE                            | 660       | ---        | ---        | ---        |
| <b>STATISTICAL TESTS</b>                   |           |            |            |            |
| POLY 3                                     | P=0.121N  | P=0.226N   | P=0.229N   | P=0.243N   |
| POLY 1.5                                   | P=0.120N  | P=0.229N   | P=0.234N   | P=0.247N   |
| POLY 6                                     | P=0.122N  | P=0.223N   | P=0.226N   | P=0.241N   |
| RAO-SCOTT                                  | P=0.236N  | P=0.381N   | P=0.388N   | P=0.399N   |
| LITTER C-A/FISHERS                         | P=0.111N  | P=0.245N   | P=0.245N   | P=0.235N   |

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Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS 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 Hyperplasia</b> |             |             |             |            |
| <b>LESION RATES</b>                      |             |             |             |            |
| OVERALL (a)                              | 11/50 (22%) | 12/50 (24%) | 10/50 (20%) | 8/50 (16%) |
| LITTERS (b)                              | 10/25 (40%) | 11/25 (44%) | 8/25 (32%)  | 7/26 (27%) |
| POLY-3 RATE (c)                          | 11/43.27    | 12/45.74    | 10/46.07    | 8/44.73    |
| POLY-3 PERCENT (g)                       | 25.4%       | 26.2%       | 21.7%       | 17.9%      |
| TERMINAL (d)                             | 11/35 (31%) | 9/38 (24%)  | 9/38 (24%)  | 8/39 (21%) |
| FIRST INCIDENCE                          | 743 (T)     | 465         | 624         | 743 (T)    |
| <b>STATISTICAL TESTS</b>                 |             |             |             |            |
| POLY 3                                   | P=0.191N    | P=0.561     | P=0.435N    | P=0.274N   |
| POLY 1.5                                 | P=0.199N    | P=0.535     | P=0.462N    | P=0.287N   |
| POLY 6                                   | P=0.188N    | P=0.590     | P=0.415N    | P=0.265N   |
| RAO-SCOTT                                | P=0.197N    | P=0.555     | P=0.432N    | P=0.276N   |
| LITTER C-A/FISHERS                       | P=0.138N    | P=0.500     | P=0.384N    | P=0.244N   |

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS 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: Follicular Cell Hyperplasia</b> |           |            |            |            |
| <b>LESION RATES</b>                               |           |            |            |            |
| OVERALL (a)                                       | 0/50 (0%) | 0/50 (0%)  | 2/50 (4%)  | 0/50 (0%)  |
| LITTERS (b)                                       | 0/25 (0%) | 0/25 (0%)  | 2/25 (8%)  | 0/26 (0%)  |
| POLY-3 RATE (c)                                   | 0/43.27   | 0/44.78    | 2/45.66    | 0/44.73    |
| POLY-3 PERCENT (g)                                | 0%        | 0%         | 4.4%       | 0%         |
| TERMINAL (d)                                      | 0/35 (0%) | 0/38 (0%)  | 2/38 (5%)  | 0/39 (0%)  |
| FIRST INCIDENCE                                   | ---       | ---        | 743 (T)    | ---        |
| <b>STATISTICAL TESTS</b>                          |           |            |            |            |
| POLY 3  | P=0.606   | (e)        | P=0.249    | (e)        |
| POLY 1.5  | P=0.602   | (e)        | P=0.244    | (e)        |
| POLY 6  | P=0.608   | (e)        | P=0.252    | (e)        |
| RAO-SCOTT   | P=0.651   | (e)        | P=0.405    | (e)        |
| LITTER C-A/FISHERS                                | P=0.603   | (e)        | P=0.245    | (e)        |

Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/07/2018

Time Report Requested: 14:48:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS 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: Follicular Cell Hypertrophy</b> |             |            |            |             |
| <b>LESION RATES</b>                               |             |            |            |             |
| OVERALL (a)                                       | 12/50 (24%) | 7/50 (14%) | 9/50 (18%) | 19/50 (38%) |
| LITTERS (b)                                       | 11/25 (44%) | 6/25 (24%) | 7/25 (28%) | 15/26 (58%) |
| POLY-3 RATE (c)                                   | 12/44.42    | 7/46.48    | 9/46.82    | 19/46.03    |
| POLY-3 PERCENT (g)                                | 27%         | 15.1%      | 19.2%      | 41.3%       |
| TERMINAL (d)                                      | 10/35 (29%) | 5/38 (13%) | 7/38 (18%) | 15/39 (39%) |
| FIRST INCIDENCE                                   | 484         | 241        | 116        | 550         |
| <b>STATISTICAL TESTS</b>                          |             |            |            |             |
| POLY 3  | P=0.022*    | P=0.126N   | P=0.263N   | P=0.112     |
| POLY 1.5  | P=0.021*    | P=0.134N   | P=0.277N   | P=0.103     |
| POLY 6  | P=0.022*    | P=0.119N   | P=0.257N   | P=0.122     |
| RAO-SCOTT   | P=0.037*    | P=0.152N   | P=0.287N   | P=0.138     |
| LITTER C-A/FISHERS                                | P=0.087     | P=0.116N   | P=0.189N   | P=0.243     |

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Experiment Number: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Perfluorooctanoic Acid

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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 \*\*\*