

**Experiment Number:** 04049 - 01  
**Test Type:** 28-DAY  
**Route:** GAVAGE  
**Species/Strain:** RATS/HSD

**E02: ANIMALS REMOVED FROM EXPERIMENT**  
Perfluorononanoic Acid  
**CAS Number:** 375-95-1

**Date Report Requested:** 05/20/2016  
**Time Report Requested:** 14:38:54  
**First Dose M/F:** 02/02/12 / 02/03/12  
**Lab:** BAT

**NTP Study Number:** C04049  
**Lock Date:** 01/22/2016  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 3.0.2.3\_002  
**PWG Approval Date:** NONE

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Lab: BAT

**ANIMAL REMOVALS CHRONOLOGICALLY**

**MALE**

| TREATMENT          | CAGE | ANIMAL ID | REMOVAL DATE | REMOVAL TIME | DAY | WEEK | TERMINAL WEIGHT | REMOVAL WEIGHT STATUS | REASON FOR REMOVAL | REMOVAL CLINICAL OBSERVATIONS |
|--------------------|------|-----------|--------------|--------------|-----|------|-----------------|-----------------------|--------------------|-------------------------------|
| <b>0 mg/kg/d M</b> | 113  | 702       | 03/01/12     | 07:33        | 29  | 5    | 346.8           |                       | TSAC               | Unremarkable                  |
|                    | 113  | 701       | 03/01/12     | 07:33        | 29  | 5    | 328.6           |                       | TSAC               | Unremarkable                  |
|                    | 113  | 703       | 03/01/12     | 07:33        | 29  | 5    | 350.0           |                       | TSAC               | Unremarkable                  |
|                    | 113  | 704       | 03/01/12     | 07:34        | 29  | 5    | 341.4           |                       | TSAC               | Unremarkable                  |
|                    | 113  | 705       | 03/01/12     | 07:34        | 29  | 5    | 340.3           |                       | TSAC               | Unremarkable                  |
|                    | 114  | 706       | 03/01/12     | 07:34        | 29  | 5    | 353.6           |                       | TSAC               | Unremarkable                  |
|                    | 114  | 707       | 03/01/12     | 07:34        | 29  | 5    | 336.6           |                       | TSAC               | Unremarkable                  |
|                    | 114  | 708       | 03/01/12     | 07:35        | 29  | 5    | 373.3           |                       | TSAC               | Unremarkable                  |
|                    | 114  | 709       | 03/01/12     | 07:35        | 29  | 5    | 306.7           |                       | TSAC               | Unremarkable                  |
|                    | 114  | 710       | 03/01/12     | 07:35        | 29  | 5    | 358.0           |                       | TSAC               | Unremarkable                  |

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|-----------------------|------|-----------|--------------|--------------|-----|------|-----------------|-----------------------|--------------------|-------------------------------|
| <b>0.625mg/kg/d M</b> | 115  | 711       | 03/01/12     | 07:35        | 29  | 5    | 311.9           |                       | TSAC               | Unremarkable                  |
|                       | 115  | 712       | 03/01/12     | 07:36        | 29  | 5    | 338.4           |                       | TSAC               | Unremarkable                  |
|                       | 115  | 713       | 03/01/12     | 07:36        | 29  | 5    | 342.9           |                       | TSAC               | Unremarkable                  |
|                       | 115  | 714       | 03/01/12     | 07:36        | 29  | 5    | 327.7           |                       | TSAC               | Unremarkable                  |
|                       | 115  | 715       | 03/01/12     | 07:36        | 29  | 5    | 306.2           |                       | TSAC               | Unremarkable                  |
|                       | 116  | 716       | 03/01/12     | 07:37        | 29  | 5    | 355.8           |                       | TSAC               | Unremarkable                  |
|                       | 116  | 717       | 03/01/12     | 07:37        | 29  | 5    | 316.6           |                       | TSAC               | Unremarkable                  |
|                       | 116  | 718       | 03/01/12     | 07:37        | 29  | 5    | 320.4           |                       | TSAC               | Unremarkable                  |
|                       | 116  | 719       | 03/01/12     | 07:37        | 29  | 5    | 343.3           |                       | TSAC               | Unremarkable                  |
|                       | 116  | 720       | 03/01/12     | 07:37        | 29  | 5    | 356.9           |                       | TSAC               | Unremarkable                  |

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| TREATMENT             | CAGE | ANIMAL ID | REMOVAL DATE | REMOVAL TIME | DAY | WEEK | TERMINAL WEIGHT | REMOVAL WEIGHT STATUS | REASON FOR REMOVAL | REMOVAL CLINICAL OBSERVATIONS |
|-----------------------|------|-----------|--------------|--------------|-----|------|-----------------|-----------------------|--------------------|-------------------------------|
| <b>1.25 mg/kg/d M</b> | 117  | 721       | 03/01/12     | 07:38        | 29  | 5    | 308.3           |                       | TSAC               | Unremarkable                  |
|                       | 117  | 722       | 03/01/12     | 07:38        | 29  | 5    | 282.4           |                       | TSAC               | Unremarkable                  |
|                       | 117  | 723       | 03/01/12     | 07:39        | 29  | 5    | 285.3           |                       | TSAC               | Unremarkable                  |
|                       | 117  | 724       | 03/01/12     | 07:39        | 29  | 5    | 289.5           |                       | TSAC               | Unremarkable                  |
|                       | 117  | 725       | 03/01/12     | 07:39        | 29  | 5    | 293.6           |                       | TSAC               | Unremarkable                  |
|                       | 118  | 726       | 03/01/12     | 07:39        | 29  | 5    | 298.8           |                       | TSAC               | Unremarkable                  |
|                       | 118  | 727       | 03/01/12     | 07:40        | 29  | 5    | 264.4           |                       | TSAC               | Unremarkable                  |
|                       | 118  | 728       | 03/01/12     | 07:40        | 29  | 5    | 261.0           |                       | TSAC               | Unremarkable                  |
|                       | 118  | 729       | 03/01/12     | 07:40        | 29  | 5    | 282.2           |                       | TSAC               | Unremarkable                  |
|                       | 118  | 730       | 03/01/12     | 07:40        | 29  | 5    | 296.1           |                       | TSAC               | Unremarkable                  |

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| TREATMENT            | CAGE | ANIMAL ID | REMOVAL DATE | REMOVAL TIME | DAY | WEEK | TERMINAL WEIGHT | REMOVAL WEIGHT STATUS | REASON FOR REMOVAL | REMOVAL CLINICAL OBSERVATIONS |
|----------------------|------|-----------|--------------|--------------|-----|------|-----------------|-----------------------|--------------------|-------------------------------|
| <b>2.5 mg/kg/d M</b> | 119  | 731       | 03/01/12     | 07:41        | 29  | 5    | 183.0           |                       | TSAC               | Unremarkable                  |
|                      | 119  | 732       | 03/01/12     | 07:41        | 29  | 5    | 190.5           |                       | TSAC               | Unremarkable                  |
|                      | 119  | 733       | 03/01/12     | 07:41        | 29  | 5    | 239.9           |                       | TSAC               | Unremarkable                  |
|                      | 119  | 734       | 03/01/12     | 07:41        | 29  | 5    | 223.3           |                       | TSAC               | Unremarkable                  |
|                      | 119  | 735       | 03/01/12     | 07:41        | 29  | 5    | 170.5           |                       | TSAC               | Unremarkable                  |
|                      | 120  | 736       | 03/01/12     | 07:42        | 29  | 5    | 157.6           |                       | TSAC               | Unremarkable                  |
|                      | 120  | 737       | 03/01/12     | 07:42        | 29  | 5    | 199.9           |                       | TSAC               | Unremarkable                  |
|                      | 120  | 738       | 03/01/12     | 07:42        | 29  | 5    | 220.6           |                       | TSAC               | Unremarkable                  |
|                      | 120  | 739       | 03/01/12     | 07:42        | 29  | 5    | 179.5           |                       | TSAC               | Unremarkable                  |
|                      | 120  | 740       | 03/01/12     | 07:43        | 29  | 5    | 160.1           |                       | TSAC               | Unremarkable                  |

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|--------------------|------|-----------|--------------|--------------|-----|------|-----------------|-----------------------|--------------------|-------------------------------|
| <b>5 mg/kg/d M</b> | 121  | 741       | 02/25/12     | 08:00        | 24  | 4    | 117.0           |                       | NATD               | Unremarkable                  |
|                    | 122  | 750       | 02/25/12     | 11:00        | 24  | 4    | 132.9           |                       | NATD               | Thin                          |
|                    | 121  | 745       | 02/25/12     | 15:00        | 24  | 4    | 128.5           |                       | NATD               | Thin                          |
|                    | 121  | 743       | 02/25/12     | 15:00        | 24  | 4    | 135.7           |                       | NATD               | Thin                          |
|                    | 121  | 742       | 02/26/12     | 07:55        | 25  | 4    | 127.9           |                       | NATD               | Unremarkable                  |
|                    | 122  | 748       | 02/26/12     | 07:55        | 25  | 4    | 128.1           |                       | NATD               | Unremarkable                  |
|                    | 122  | 746       | 02/26/12     | 14:09        | 25  | 4    | 146.1           |                       | NATD               | Thin                          |
|                    | 122  | 749       | 02/27/12     | 07:41        | 26  | 4    | 142.9           |                       | NATD               | Thin                          |
|                    | 121  | 744       | 03/01/12     | 07:43        | 29  | 5    | 150.1           |                       | TSAC               | Thin                          |
|                    | 122  | 747       | 03/01/12     | 07:44        | 29  | 5    | 159.4           |                       | TSAC               | Thin                          |

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|---------------------|------|-----------|--------------|--------------|-----|------|-----------------|-----------------------|--------------------|-------------------------------|
| <b>10 mg/kg/d M</b> | 123  | 753       | 02/16/12     | 08:00        | 15  | 3    | 146.1           |                       | NATD               | Nasal/Eye Discharge<br>Thin   |
|                     | 123  | 751       | 02/16/12     | 14:15        | 15  | 3    | 169.3           |                       | NATD               | Thin                          |
|                     | 124  | 756       | 02/17/12     | 10:14        | 16  | 3    | 143.4           |                       | NATD               | Thin                          |
|                     | 124  | 760       | 02/17/12     | 10:16        | 16  | 3    | 136.0           |                       | NATD               | Thin                          |
|                     | 123  | 752       | 02/18/12     | 07:30        | 17  | 3    | 165.1           |                       | NATD               | Thin                          |
|                     | 123  | 754       | 02/18/12     | 07:31        | 17  | 3    | 150.4           |                       | NATD               | Thin                          |
|                     | 124  | 758       | 02/18/12     | 07:33        | 17  | 3    | 145.1           |                       | NATD               | Thin                          |
|                     | 124  | 757       | 02/18/12     | 07:35        | 17  | 3    | 141.7           |                       | NATD               | Thin                          |
|                     | 123  | 755       | 02/18/12     | 14:18        | 17  | 3    | 159.0           |                       | NATD               | Thin                          |
|                     | 124  | 759       | 02/19/12     | 07:18        | 18  | 3    | 146.6           |                       | NATD               | Nasal/Eye Discharge<br>Thin   |

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|-------------|------|-----------|--------------|--------------|-----|------|-----------------|-----------------------|--------------------|-------------------------------|
| 0 mg/kg/d F | 125  | 761       | 03/02/12     | 07:13        | 29  | 5    | 221.1           |                       | TSAC               | Unremarkable                  |
|             | 125  | 762       | 03/02/12     | 07:14        | 29  | 5    | 214.4           |                       | TSAC               | Unremarkable                  |
|             | 125  | 763       | 03/02/12     | 07:14        | 29  | 5    | 246.2           |                       | TSAC               | Unremarkable                  |
|             | 125  | 764       | 03/02/12     | 07:15        | 29  | 5    | 223.5           |                       | TSAC               | Unremarkable                  |
|             | 125  | 765       | 03/02/12     | 07:15        | 29  | 5    | 248.5           |                       | TSAC               | Unremarkable                  |
|             | 126  | 766       | 03/02/12     | 07:16        | 29  | 5    | 213.0           |                       | TSAC               | Unremarkable                  |
|             | 126  | 767       | 03/02/12     | 07:16        | 29  | 5    | 252.4           |                       | TSAC               | Unremarkable                  |
|             | 126  | 768       | 03/02/12     | 07:16        | 29  | 5    | 216.7           |                       | TSAC               | Unremarkable                  |
|             | 126  | 769       | 03/02/12     | 07:17        | 29  | 5    | 224.9           |                       | TSAC               | Unremarkable                  |
|             | 126  | 770       | 03/02/12     | 07:17        | 29  | 5    | 238.0           |                       | TSAC               | Unremarkable                  |



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|---------------|------|-----------|--------------|--------------|-----|------|-----------------|-----------------------|--------------------|-------------------------------|
| 1.56mg/kg/d F | 127  | 771       | 03/02/12     | 07:18        | 29  | 5    | 220.6           |                       | TSAC               | Unremarkable                  |
|               | 127  | 772       | 03/02/12     | 07:18        | 29  | 5    | 244.1           |                       | TSAC               | Unremarkable                  |
|               | 127  | 773       | 03/02/12     | 07:19        | 29  | 5    | 215.0           |                       | TSAC               | Unremarkable                  |
|               | 127  | 774       | 03/02/12     | 07:19        | 29  | 5    | 240.6           |                       | TSAC               | Unremarkable                  |
|               | 127  | 775       | 03/02/12     | 07:19        | 29  | 5    | 229.8           |                       | TSAC               | Unremarkable                  |
|               | 128  | 776       | 03/02/12     | 07:21        | 29  | 5    | 235.3           |                       | TSAC               | Unremarkable                  |
|               | 128  | 777       | 03/02/12     | 07:21        | 29  | 5    | 234.1           |                       | TSAC               | Unremarkable                  |
|               | 128  | 778       | 03/02/12     | 07:22        | 29  | 5    | 242.9           |                       | TSAC               | Unremarkable                  |
|               | 128  | 779       | 03/02/12     | 07:22        | 29  | 5    | 223.6           |                       | TSAC               | Unremarkable                  |
|               | 128  | 780       | 03/02/12     | 07:23        | 29  | 5    | 219.0           |                       | TSAC               | Unremarkable                  |

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|----------------------|------|-----------|--------------|--------------|-----|------|-----------------|-----------------------|--------------------|-------------------------------|
| <b>3.12mg/kg/d F</b> | 129  | 781       | 03/02/12     | 07:24        | 29  | 5    | 216.6           |                       | TSAC               | Unremarkable                  |
|                      | 129  | 782       | 03/02/12     | 07:24        | 29  | 5    | 214.5           |                       | TSAC               | Unremarkable                  |
|                      | 129  | 783       | 03/02/12     | 07:25        | 29  | 5    | 215.7           |                       | TSAC               | Unremarkable                  |
|                      | 129  | 784       | 03/02/12     | 07:25        | 29  | 5    | 205.0           |                       | TSAC               | Unremarkable                  |
|                      | 129  | 785       | 03/02/12     | 07:25        | 29  | 5    | 215.9           |                       | TSAC               | Unremarkable                  |
|                      | 130  | 786       | 03/02/12     | 07:26        | 29  | 5    | 206.9           |                       | TSAC               | Unremarkable                  |
|                      | 130  | 787       | 03/02/12     | 07:26        | 29  | 5    | 212.1           |                       | TSAC               | Unremarkable                  |
|                      | 130  | 788       | 03/02/12     | 07:26        | 29  | 5    | 216.7           |                       | TSAC               | Unremarkable                  |
|                      | 130  | 789       | 03/02/12     | 07:27        | 29  | 5    | 231.5           |                       | TSAC               | Unremarkable                  |
|                      | 130  | 790       | 03/02/12     | 07:27        | 29  | 5    | 230.2           |                       | TSAC               | Unremarkable                  |

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|----------------------|------|-----------|--------------|--------------|-----|------|-----------------|-----------------------|--------------------|-------------------------------|
| <b>6.25mg/kg/d F</b> | 131  | 791       | 03/02/12     | 07:28        | 29  | 5    | 212.7           |                       | TSAC               | Unremarkable                  |
|                      | 131  | 792       | 03/02/12     | 07:28        | 29  | 5    | 193.0           |                       | TSAC               | Unremarkable                  |
|                      | 131  | 793       | 03/02/12     | 07:28        | 29  | 5    | 213.0           |                       | TSAC               | Unremarkable                  |
|                      | 131  | 794       | 03/02/12     | 07:28        | 29  | 5    | 222.5           |                       | TSAC               | Unremarkable                  |
|                      | 131  | 795       | 03/02/12     | 07:29        | 29  | 5    | 204.5           |                       | TSAC               | Unremarkable                  |
|                      | 132  | 796       | 03/02/12     | 07:29        | 29  | 5    | 202.7           |                       | TSAC               | Unremarkable                  |
|                      | 132  | 797       | 03/02/12     | 07:30        | 29  | 5    | 216.6           |                       | TSAC               | Unremarkable                  |
|                      | 132  | 798       | 03/02/12     | 07:30        | 29  | 5    | 226.7           |                       | TSAC               | Unremarkable                  |
|                      | 132  | 799       | 03/02/12     | 07:31        | 29  | 5    | 186.3           |                       | TSAC               | Unremarkable                  |
|                      | 132  | 800       | 03/02/12     | 07:31        | 29  | 5    | 189.1           |                       | TSAC               | Unremarkable                  |

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|----------------------|------|-----------|--------------|--------------|-----|------|-----------------|-----------------------|--------------------|-------------------------------|
| <b>12.5mg/kg/d F</b> | 133  | 805       | 02/15/12     | 11:30        | 13  | 2    | 114.5           |                       | NATD               | Thin                          |
|                      | 133  | 803       | 02/17/12     | 10:18        | 15  | 3    | 116.3           |                       | NATD               | Thin                          |
|                      | 133  | 801       | 02/17/12     | 10:19        | 15  | 3    | 98.6            |                       | NATD               | Thin                          |
|                      | 133  | 802       | 02/17/12     | 10:23        | 15  | 3    | 116.0           |                       | NATD               | Thin                          |
|                      | 134  | 808       | 02/18/12     | 07:27        | 16  | 3    | 110.9           |                       | NATD               | Thin                          |
|                      | 133  | 804       | 02/19/12     | 07:20        | 17  | 3    | 120.0           |                       | NATD               | Nasal/Eye Discharge           |
|                      | 134  | 809       | 02/27/12     | 10:30        | 25  | 4    | 103.1           |                       | NATD               | Thin                          |
|                      | 134  | 810       | 02/29/12     | 07:00        | 27  | 4    | 103.6           |                       | NATD               | Thin                          |
|                      | 134  | 806       | 02/29/12     | 07:02        | 27  | 4    | 100.9           |                       | NATD               | Thin                          |
|                      | 134  | 807       | 03/02/12     | 07:33        | 29  | 5    | 177.9           |                       | TSAC               | Unremarkable                  |

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Lab: BAT

**ANIMAL REMOVALS CHRONOLOGICALLY**

**FEMALE**

| TREATMENT          | CAGE | ANIMAL ID | REMOVAL DATE | REMOVAL TIME | DAY | WEEK | TERMINAL WEIGHT | REMOVAL WEIGHT STATUS | REASON FOR REMOVAL | REMOVAL CLINICAL OBSERVATIONS |
|--------------------|------|-----------|--------------|--------------|-----|------|-----------------|-----------------------|--------------------|-------------------------------|
| <b>25mg/kg/d F</b> | 135  | 814       | 02/13/12     | 13:05        | 11  | 2    | 127.7           |                       | NATD               | Thin                          |
|                    | 135  | 812       | 02/14/12     | 07:04        | 12  | 2    | 122.5           |                       | NATD               | Thin                          |
|                    | 135  | 811       | 02/14/12     | 07:06        | 12  | 2    | 124.6           |                       | NATD               | Thin                          |
|                    | 135  | 813       | 02/14/12     | 07:08        | 12  | 2    | 123.7           |                       | NATD               | Thin                          |
|                    | 136  | 816       | 02/14/12     | 07:10        | 12  | 2    | 124.6           |                       | NATD               | Thin                          |
|                    | 136  | 818       | 02/14/12     | 07:11        | 12  | 2    | 122.4           |                       | NATD               | Thin                          |
|                    | 136  | 819       | 02/14/12     | 07:13        | 12  | 2    | 120.5           |                       | NATD               | Thin                          |
|                    | 135  | 815       | 02/14/12     | 11:05        | 12  | 2    | 144.5           |                       | NATD               | Thin                          |
|                    | 136  | 820       | 02/16/12     | 09:36        | 14  | 2    | 126.2           |                       | NATD               | Nasal/Eye Discharge<br>Thin   |
|                    | 136  | 817       | 02/17/12     | 10:21        | 15  | 3    | 121.3           |                       | NATD               | Thin                          |

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

**E02: ANIMALS REMOVED FROM EXPERIMENT**

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 05/20/2016

Time Report Requested: 14:38:54

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**ANIMAL REMOVALS BY CAGE**

**MALE**

| TREATMENT          | CAGE | ANIMAL ID | REMOVAL DATE | REMOVAL TIME | DAY | WEEK | TERMINAL WEIGHT | REMOVAL WEIGHT STATUS | REASON FOR REMOVAL | REMOVAL CLINICAL OBSERVATIONS |
|--------------------|------|-----------|--------------|--------------|-----|------|-----------------|-----------------------|--------------------|-------------------------------|
| <b>0 mg/kg/d M</b> | 113  | 701       | 03/01/12     | 07:33        | 29  | 5    | 328.6           |                       | TSAC               | Unremarkable                  |
|                    | 113  | 702       | 03/01/12     | 07:33        | 29  | 5    | 346.8           |                       | TSAC               | Unremarkable                  |
|                    | 113  | 703       | 03/01/12     | 07:33        | 29  | 5    | 350.0           |                       | TSAC               | Unremarkable                  |
|                    | 113  | 704       | 03/01/12     | 07:34        | 29  | 5    | 341.4           |                       | TSAC               | Unremarkable                  |
|                    | 113  | 705       | 03/01/12     | 07:34        | 29  | 5    | 340.3           |                       | TSAC               | Unremarkable                  |
|                    | 114  | 706       | 03/01/12     | 07:34        | 29  | 5    | 353.6           |                       | TSAC               | Unremarkable                  |
|                    | 114  | 707       | 03/01/12     | 07:34        | 29  | 5    | 336.6           |                       | TSAC               | Unremarkable                  |
|                    | 114  | 708       | 03/01/12     | 07:35        | 29  | 5    | 373.3           |                       | TSAC               | Unremarkable                  |
|                    | 114  | 709       | 03/01/12     | 07:35        | 29  | 5    | 306.7           |                       | TSAC               | Unremarkable                  |
|                    | 114  | 710       | 03/01/12     | 07:35        | 29  | 5    | 358.0           |                       | TSAC               | Unremarkable                  |

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

**E02: ANIMALS REMOVED FROM EXPERIMENT**

Perfluorononanoic Acid

CAS Number: 375-95-1

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Lab: BAT

**ANIMAL REMOVALS BY CAGE**

**MALE**

| TREATMENT             | CAGE | ANIMAL ID | REMOVAL DATE | REMOVAL TIME | DAY | WEEK | TERMINAL WEIGHT | REMOVAL WEIGHT STATUS | REASON FOR REMOVAL | REMOVAL CLINICAL OBSERVATIONS |
|-----------------------|------|-----------|--------------|--------------|-----|------|-----------------|-----------------------|--------------------|-------------------------------|
| <b>0.625mg/kg/d M</b> | 115  | 711       | 03/01/12     | 07:35        | 29  | 5    | 311.9           |                       | TSAC               | Unremarkable                  |
|                       | 115  | 712       | 03/01/12     | 07:36        | 29  | 5    | 338.4           |                       | TSAC               | Unremarkable                  |
|                       | 115  | 713       | 03/01/12     | 07:36        | 29  | 5    | 342.9           |                       | TSAC               | Unremarkable                  |
|                       | 115  | 714       | 03/01/12     | 07:36        | 29  | 5    | 327.7           |                       | TSAC               | Unremarkable                  |
|                       | 115  | 715       | 03/01/12     | 07:36        | 29  | 5    | 306.2           |                       | TSAC               | Unremarkable                  |
|                       | 116  | 716       | 03/01/12     | 07:37        | 29  | 5    | 355.8           |                       | TSAC               | Unremarkable                  |
|                       | 116  | 717       | 03/01/12     | 07:37        | 29  | 5    | 316.6           |                       | TSAC               | Unremarkable                  |
|                       | 116  | 718       | 03/01/12     | 07:37        | 29  | 5    | 320.4           |                       | TSAC               | Unremarkable                  |
|                       | 116  | 719       | 03/01/12     | 07:37        | 29  | 5    | 343.3           |                       | TSAC               | Unremarkable                  |
|                       | 116  | 720       | 03/01/12     | 07:37        | 29  | 5    | 356.9           |                       | TSAC               | Unremarkable                  |

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

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Lab: BAT

**ANIMAL REMOVALS BY CAGE**

**MALE**

| TREATMENT      | CAGE | ANIMAL ID | REMOVAL DATE | REMOVAL TIME | DAY | WEEK | TERMINAL WEIGHT | REMOVAL WEIGHT STATUS | REASON FOR REMOVAL | REMOVAL CLINICAL OBSERVATIONS |
|----------------|------|-----------|--------------|--------------|-----|------|-----------------|-----------------------|--------------------|-------------------------------|
| 1.25 mg/kg/d M | 117  | 721       | 03/01/12     | 07:38        | 29  | 5    | 308.3           |                       | TSAC               | Unremarkable                  |
|                | 117  | 722       | 03/01/12     | 07:38        | 29  | 5    | 282.4           |                       | TSAC               | Unremarkable                  |
|                | 117  | 723       | 03/01/12     | 07:39        | 29  | 5    | 285.3           |                       | TSAC               | Unremarkable                  |
|                | 117  | 724       | 03/01/12     | 07:39        | 29  | 5    | 289.5           |                       | TSAC               | Unremarkable                  |
|                | 117  | 725       | 03/01/12     | 07:39        | 29  | 5    | 293.6           |                       | TSAC               | Unremarkable                  |
|                | 118  | 726       | 03/01/12     | 07:39        | 29  | 5    | 298.8           |                       | TSAC               | Unremarkable                  |
|                | 118  | 727       | 03/01/12     | 07:40        | 29  | 5    | 264.4           |                       | TSAC               | Unremarkable                  |
|                | 118  | 728       | 03/01/12     | 07:40        | 29  | 5    | 261.0           |                       | TSAC               | Unremarkable                  |
|                | 118  | 729       | 03/01/12     | 07:40        | 29  | 5    | 282.2           |                       | TSAC               | Unremarkable                  |
|                | 118  | 730       | 03/01/12     | 07:40        | 29  | 5    | 296.1           |                       | TSAC               | Unremarkable                  |



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Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

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Lab: BAT

**ANIMAL REMOVALS BY CAGE**

**MALE**

| TREATMENT            | CAGE | ANIMAL ID | REMOVAL DATE | REMOVAL TIME | DAY | WEEK | TERMINAL WEIGHT | REMOVAL WEIGHT STATUS | REASON FOR REMOVAL | REMOVAL CLINICAL OBSERVATIONS |
|----------------------|------|-----------|--------------|--------------|-----|------|-----------------|-----------------------|--------------------|-------------------------------|
| <b>2.5 mg/kg/d M</b> | 119  | 731       | 03/01/12     | 07:41        | 29  | 5    | 183.0           |                       | TSAC               | Unremarkable                  |
|                      | 119  | 732       | 03/01/12     | 07:41        | 29  | 5    | 190.5           |                       | TSAC               | Unremarkable                  |
|                      | 119  | 733       | 03/01/12     | 07:41        | 29  | 5    | 239.9           |                       | TSAC               | Unremarkable                  |
|                      | 119  | 734       | 03/01/12     | 07:41        | 29  | 5    | 223.3           |                       | TSAC               | Unremarkable                  |
|                      | 119  | 735       | 03/01/12     | 07:41        | 29  | 5    | 170.5           |                       | TSAC               | Unremarkable                  |
|                      | 120  | 736       | 03/01/12     | 07:42        | 29  | 5    | 157.6           |                       | TSAC               | Unremarkable                  |
|                      | 120  | 737       | 03/01/12     | 07:42        | 29  | 5    | 199.9           |                       | TSAC               | Unremarkable                  |
|                      | 120  | 738       | 03/01/12     | 07:42        | 29  | 5    | 220.6           |                       | TSAC               | Unremarkable                  |
|                      | 120  | 739       | 03/01/12     | 07:42        | 29  | 5    | 179.5           |                       | TSAC               | Unremarkable                  |
|                      | 120  | 740       | 03/01/12     | 07:43        | 29  | 5    | 160.1           |                       | TSAC               | Unremarkable                  |

Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

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First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**ANIMAL REMOVALS BY CAGE**

**MALE**

| TREATMENT          | CAGE | ANIMAL ID | REMOVAL DATE | REMOVAL TIME | DAY | WEEK | TERMINAL WEIGHT | REMOVAL WEIGHT STATUS | REASON FOR REMOVAL | REMOVAL CLINICAL OBSERVATIONS |
|--------------------|------|-----------|--------------|--------------|-----|------|-----------------|-----------------------|--------------------|-------------------------------|
| <b>5 mg/kg/d M</b> | 121  | 741       | 02/25/12     | 08:00        | 24  | 4    | 117.0           |                       | NATD               | Unremarkable                  |
|                    | 121  | 742       | 02/26/12     | 07:55        | 25  | 4    | 127.9           |                       | NATD               | Unremarkable                  |
|                    | 121  | 743       | 02/25/12     | 15:00        | 24  | 4    | 135.7           |                       | NATD               | Thin                          |
|                    | 121  | 744       | 03/01/12     | 07:43        | 29  | 5    | 150.1           |                       | TSAC               | Thin                          |
|                    | 121  | 745       | 02/25/12     | 15:00        | 24  | 4    | 128.5           |                       | NATD               | Thin                          |
|                    | 122  | 746       | 02/26/12     | 14:09        | 25  | 4    | 146.1           |                       | NATD               | Thin                          |
|                    | 122  | 747       | 03/01/12     | 07:44        | 29  | 5    | 159.4           |                       | TSAC               | Thin                          |
|                    | 122  | 748       | 02/26/12     | 07:55        | 25  | 4    | 128.1           |                       | NATD               | Unremarkable                  |
|                    | 122  | 749       | 02/27/12     | 07:41        | 26  | 4    | 142.9           |                       | NATD               | Thin                          |
|                    | 122  | 750       | 02/25/12     | 11:00        | 24  | 4    | 132.9           |                       | NATD               | Thin                          |

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Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

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Lab: BAT

**ANIMAL REMOVALS BY CAGE**

**MALE**

| TREATMENT           | CAGE | ANIMAL ID | REMOVAL DATE | REMOVAL TIME | DAY | WEEK | TERMINAL WEIGHT | REMOVAL WEIGHT STATUS | REASON FOR REMOVAL | REMOVAL CLINICAL OBSERVATIONS |
|---------------------|------|-----------|--------------|--------------|-----|------|-----------------|-----------------------|--------------------|-------------------------------|
| <b>10 mg/kg/d M</b> | 123  | 751       | 02/16/12     | 14:15        | 15  | 3    | 169.3           |                       | NATD               | Thin                          |
|                     | 123  | 752       | 02/18/12     | 07:30        | 17  | 3    | 165.1           |                       | NATD               | Thin                          |
|                     | 123  | 753       | 02/16/12     | 08:00        | 15  | 3    | 146.1           |                       | NATD               | Nasal/Eye Discharge<br>Thin   |
|                     | 123  | 754       | 02/18/12     | 07:31        | 17  | 3    | 150.4           |                       | NATD               | Thin                          |
|                     | 123  | 755       | 02/18/12     | 14:18        | 17  | 3    | 159.0           |                       | NATD               | Thin                          |
|                     | 124  | 756       | 02/17/12     | 10:14        | 16  | 3    | 143.4           |                       | NATD               | Thin                          |
|                     | 124  | 757       | 02/18/12     | 07:35        | 17  | 3    | 141.7           |                       | NATD               | Thin                          |
|                     | 124  | 758       | 02/18/12     | 07:33        | 17  | 3    | 145.1           |                       | NATD               | Thin                          |
|                     | 124  | 759       | 02/19/12     | 07:18        | 18  | 3    | 146.6           |                       | NATD               | Nasal/Eye Discharge<br>Thin   |
|                     | 124  | 760       | 02/17/12     | 10:16        | 16  | 3    | 136.0           |                       | NATD               | Thin                          |

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Test Type: 28-DAY

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**ANIMAL REMOVALS BY CAGE**

**FEMALE**

| TREATMENT   | CAGE | ANIMAL ID | REMOVAL DATE | REMOVAL TIME | DAY | WEEK | TERMINAL WEIGHT | REMOVAL WEIGHT STATUS | REASON FOR REMOVAL | REMOVAL CLINICAL OBSERVATIONS |
|-------------|------|-----------|--------------|--------------|-----|------|-----------------|-----------------------|--------------------|-------------------------------|
| 0 mg/kg/d F | 125  | 761       | 03/02/12     | 07:13        | 29  | 5    | 221.1           |                       | TSAC               | Unremarkable                  |
|             | 125  | 762       | 03/02/12     | 07:14        | 29  | 5    | 214.4           |                       | TSAC               | Unremarkable                  |
|             | 125  | 763       | 03/02/12     | 07:14        | 29  | 5    | 246.2           |                       | TSAC               | Unremarkable                  |
|             | 125  | 764       | 03/02/12     | 07:15        | 29  | 5    | 223.5           |                       | TSAC               | Unremarkable                  |
|             | 125  | 765       | 03/02/12     | 07:15        | 29  | 5    | 248.5           |                       | TSAC               | Unremarkable                  |
|             | 126  | 766       | 03/02/12     | 07:16        | 29  | 5    | 213.0           |                       | TSAC               | Unremarkable                  |
|             | 126  | 767       | 03/02/12     | 07:16        | 29  | 5    | 252.4           |                       | TSAC               | Unremarkable                  |
|             | 126  | 768       | 03/02/12     | 07:16        | 29  | 5    | 216.7           |                       | TSAC               | Unremarkable                  |
|             | 126  | 769       | 03/02/12     | 07:17        | 29  | 5    | 224.9           |                       | TSAC               | Unremarkable                  |
|             | 126  | 770       | 03/02/12     | 07:17        | 29  | 5    | 238.0           |                       | TSAC               | Unremarkable                  |

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**FEMALE**

| TREATMENT     | CAGE | ANIMAL ID | REMOVAL DATE | REMOVAL TIME | DAY | WEEK | TERMINAL WEIGHT | REMOVAL WEIGHT STATUS | REASON FOR REMOVAL | REMOVAL CLINICAL OBSERVATIONS |
|---------------|------|-----------|--------------|--------------|-----|------|-----------------|-----------------------|--------------------|-------------------------------|
| 1.56mg/kg/d F | 127  | 771       | 03/02/12     | 07:18        | 29  | 5    | 220.6           |                       | TSAC               | Unremarkable                  |
|               | 127  | 772       | 03/02/12     | 07:18        | 29  | 5    | 244.1           |                       | TSAC               | Unremarkable                  |
|               | 127  | 773       | 03/02/12     | 07:19        | 29  | 5    | 215.0           |                       | TSAC               | Unremarkable                  |
|               | 127  | 774       | 03/02/12     | 07:19        | 29  | 5    | 240.6           |                       | TSAC               | Unremarkable                  |
|               | 127  | 775       | 03/02/12     | 07:19        | 29  | 5    | 229.8           |                       | TSAC               | Unremarkable                  |
|               | 128  | 776       | 03/02/12     | 07:21        | 29  | 5    | 235.3           |                       | TSAC               | Unremarkable                  |
|               | 128  | 777       | 03/02/12     | 07:21        | 29  | 5    | 234.1           |                       | TSAC               | Unremarkable                  |
|               | 128  | 778       | 03/02/12     | 07:22        | 29  | 5    | 242.9           |                       | TSAC               | Unremarkable                  |
|               | 128  | 779       | 03/02/12     | 07:22        | 29  | 5    | 223.6           |                       | TSAC               | Unremarkable                  |
|               | 128  | 780       | 03/02/12     | 07:23        | 29  | 5    | 219.0           |                       | TSAC               | Unremarkable                  |

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**FEMALE**

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|----------------------|------|-----------|--------------|--------------|-----|------|-----------------|-----------------------|--------------------|-------------------------------|
| <b>3.12mg/kg/d F</b> | 129  | 781       | 03/02/12     | 07:24        | 29  | 5    | 216.6           |                       | TSAC               | Unremarkable                  |
|                      | 129  | 782       | 03/02/12     | 07:24        | 29  | 5    | 214.5           |                       | TSAC               | Unremarkable                  |
|                      | 129  | 783       | 03/02/12     | 07:25        | 29  | 5    | 215.7           |                       | TSAC               | Unremarkable                  |
|                      | 129  | 784       | 03/02/12     | 07:25        | 29  | 5    | 205.0           |                       | TSAC               | Unremarkable                  |
|                      | 129  | 785       | 03/02/12     | 07:25        | 29  | 5    | 215.9           |                       | TSAC               | Unremarkable                  |
|                      | 130  | 786       | 03/02/12     | 07:26        | 29  | 5    | 206.9           |                       | TSAC               | Unremarkable                  |
|                      | 130  | 787       | 03/02/12     | 07:26        | 29  | 5    | 212.1           |                       | TSAC               | Unremarkable                  |
|                      | 130  | 788       | 03/02/12     | 07:26        | 29  | 5    | 216.7           |                       | TSAC               | Unremarkable                  |
|                      | 130  | 789       | 03/02/12     | 07:27        | 29  | 5    | 231.5           |                       | TSAC               | Unremarkable                  |
|                      | 130  | 790       | 03/02/12     | 07:27        | 29  | 5    | 230.2           |                       | TSAC               | Unremarkable                  |

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|----------------------|------|-----------|--------------|--------------|-----|------|-----------------|-----------------------|--------------------|-------------------------------|
| <b>6.25mg/kg/d F</b> | 131  | 791       | 03/02/12     | 07:28        | 29  | 5    | 212.7           |                       | TSAC               | Unremarkable                  |
|                      | 131  | 792       | 03/02/12     | 07:28        | 29  | 5    | 193.0           |                       | TSAC               | Unremarkable                  |
|                      | 131  | 793       | 03/02/12     | 07:28        | 29  | 5    | 213.0           |                       | TSAC               | Unremarkable                  |
|                      | 131  | 794       | 03/02/12     | 07:28        | 29  | 5    | 222.5           |                       | TSAC               | Unremarkable                  |
|                      | 131  | 795       | 03/02/12     | 07:29        | 29  | 5    | 204.5           |                       | TSAC               | Unremarkable                  |
|                      | 132  | 796       | 03/02/12     | 07:29        | 29  | 5    | 202.7           |                       | TSAC               | Unremarkable                  |
|                      | 132  | 797       | 03/02/12     | 07:30        | 29  | 5    | 216.6           |                       | TSAC               | Unremarkable                  |
|                      | 132  | 798       | 03/02/12     | 07:30        | 29  | 5    | 226.7           |                       | TSAC               | Unremarkable                  |
|                      | 132  | 799       | 03/02/12     | 07:31        | 29  | 5    | 186.3           |                       | TSAC               | Unremarkable                  |
|                      | 132  | 800       | 03/02/12     | 07:31        | 29  | 5    | 189.1           |                       | TSAC               | Unremarkable                  |

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Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

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**ANIMAL REMOVALS BY CAGE**

**FEMALE**

| TREATMENT            | CAGE | ANIMAL ID | REMOVAL DATE | REMOVAL TIME | DAY | WEEK | TERMINAL WEIGHT | REMOVAL WEIGHT STATUS | REASON FOR REMOVAL | REMOVAL CLINICAL OBSERVATIONS |
|----------------------|------|-----------|--------------|--------------|-----|------|-----------------|-----------------------|--------------------|-------------------------------|
| <b>12.5mg/kg/d F</b> | 133  | 801       | 02/17/12     | 10:19        | 15  | 3    | 98.6            |                       | NATD               | Thin                          |
|                      | 133  | 802       | 02/17/12     | 10:23        | 15  | 3    | 116.0           |                       | NATD               | Thin                          |
|                      | 133  | 803       | 02/17/12     | 10:18        | 15  | 3    | 116.3           |                       | NATD               | Thin                          |
|                      | 133  | 804       | 02/19/12     | 07:20        | 17  | 3    | 120.0           |                       | NATD               | Nasal/Eye Discharge           |
|                      | 133  | 805       | 02/15/12     | 11:30        | 13  | 2    | 114.5           |                       | NATD               | Thin                          |
|                      | 134  | 806       | 02/29/12     | 07:02        | 27  | 4    | 100.9           |                       | NATD               | Thin                          |
|                      | 134  | 807       | 03/02/12     | 07:33        | 29  | 5    | 177.9           |                       | TSAC               | Unremarkable                  |
|                      | 134  | 808       | 02/18/12     | 07:27        | 16  | 3    | 110.9           |                       | NATD               | Thin                          |
|                      | 134  | 809       | 02/27/12     | 10:30        | 25  | 4    | 103.1           |                       | NATD               | Thin                          |
|                      | 134  | 810       | 02/29/12     | 07:00        | 27  | 4    | 103.6           |                       | NATD               | Thin                          |



Experiment Number: 04049 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

**E02: ANIMALS REMOVED FROM EXPERIMENT**

Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 05/20/2016

Time Report Requested: 14:38:54

First Dose M/F: 02/02/12 / 02/03/12

Lab: BAT

**ANIMAL REMOVALS BY CAGE**

**FEMALE**

| TREATMENT          | CAGE | ANIMAL ID | REMOVAL DATE | REMOVAL TIME | DAY | WEEK | TERMINAL WEIGHT | REMOVAL WEIGHT STATUS | REASON FOR REMOVAL | REMOVAL CLINICAL OBSERVATIONS |
|--------------------|------|-----------|--------------|--------------|-----|------|-----------------|-----------------------|--------------------|-------------------------------|
| <b>25mg/kg/d F</b> | 135  | 811       | 02/14/12     | 07:06        | 12  | 2    | 124.6           |                       | NATD               | Thin                          |
|                    | 135  | 812       | 02/14/12     | 07:04        | 12  | 2    | 122.5           |                       | NATD               | Thin                          |
|                    | 135  | 813       | 02/14/12     | 07:08        | 12  | 2    | 123.7           |                       | NATD               | Thin                          |
|                    | 135  | 814       | 02/13/12     | 13:05        | 11  | 2    | 127.7           |                       | NATD               | Thin                          |
|                    | 135  | 815       | 02/14/12     | 11:05        | 12  | 2    | 144.5           |                       | NATD               | Thin                          |
|                    | 136  | 816       | 02/14/12     | 07:10        | 12  | 2    | 124.6           |                       | NATD               | Thin                          |
|                    | 136  | 817       | 02/17/12     | 10:21        | 15  | 3    | 121.3           |                       | NATD               | Thin                          |
|                    | 136  | 818       | 02/14/12     | 07:11        | 12  | 2    | 122.4           |                       | NATD               | Thin                          |
|                    | 136  | 819       | 02/14/12     | 07:13        | 12  | 2    | 120.5           |                       | NATD               | Thin                          |
|                    | 136  | 820       | 02/16/12     | 09:36        | 14  | 2    | 126.2           |                       | NATD               | Nasal/Eye Discharge<br>Thin   |

\*\*\*END OF REPORT\*\*\*