

Experiment Number: C91070B
Test Type: TOX
Route: Oral Gavage
Species/Strain: Rat/Harlan Sprague Dawley

R07: Hormone Summary
Test Compound: Perfluorooctanoic Acid
CAS Number: 335-67-1

Date Report Requested: 12/14/2016
Time Report Requested: 15:23:27
Lab: Battelle

C Number:	C91070B
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Male

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Terminal Sacrifice	Treatment Groups (mg/kg/day)				
	0	0.625	1.25	2.5	5
SD 28 - 28 Testosterone (ng/mL)	4.026 ± 1.452 (10)	4.591 ± 1.143 (10)	4.993 ± 1.136 (10)	2.786 ± 0.666 (10)	4.791 ± 1.485 (10)
SD 28 - 28 Thyroid Stimulating Hormone (ng/mL)	21.760 ± 2.659 (10) **	23.740 ± 2.340 (10)	15.501 ± 1.936 (10)	15.854 ± 2.427 (10)	12.630 ± 1.197 (10) **
SD 28 - 28 Triiodothyronine (ng/dL)	88.550 ± 5.583 (10)	53.520 ± 1.454 (10) **	56.930 ± 2.484 (10) **	61.470 ± 3.643 (10) *	58.980 ± 3.519 (10) **
SD 28 - 28 Free Thyroxine (ng/dL)	2.137 ± 0.131 (10) **	0.440 ± 0.042 (10) **	0.357 ± 0.024 (10) **	0.318 ± 0.008 (10) **	0.339 ± 0.015 (10) **
SD 28 - 28 Total Thyroxine (ug/dL)	2.340 ± 0.242 (10) **	0.210 ± 0.048 (10) **	0.170 ± 0.056 (10) **	0.070 ± 0.050 (10) **	0.110 ± 0.059 (10) **

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Terminal Sacrifice	Treatment Groups (mg/kg/day)
	10
SD 28 - 28 Testosterone (ng/mL)	3.121 ± 1.206 (10)
SD 28 - 28 Thyroid Stimulating Hormone (ng/mL)	15.072 ± 2.040 (10) *
SD 28 - 28 Triiodothyronine (ng/dL)	85.330 ± 6.716 (10)
SD 28 - 28 Free Thyroxine (ng/dL)	0.334 ± 0.018 (10) **
SD 28 - 28 Total Thyroxine (ug/dL)	0.390 ± 0.147 (10) **

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LEGEND

Data are displayed as mean \pm SEM (N)

Statistical analysis performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests

Statistical significance for a treatment group indicates a significant pairwise test compared to the vehicle control group

Statistical significance for the control group indicates a significant trend test

* Statistically significant at $P \leq 0.05$

** Statistically significant at $P \leq 0.01$

SD – Study Day; GD – Gestation Day; LD – Lactation Day; PND – Postnatal Day, adults post-weaning

**** END OF REPORT ****