

Experiment Number: C91070B

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

C Number:

C91070B

Cage Range:

All

Date Range:

All

Reasons For Removal:

All

Removal Date Range:

All

Treatment Groups:

All

Study Gender:

Female

R07: Hormone Summary

Test Compound: Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 12/14/2016

Time Report Requested: 15:23:11

Lab: Battelle

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Terminal Sacrifice	Treatment Groups (mg/kg/day)				
	0	6.25	12.5	25	50
SD 28 - 28 Testosterone (ng/mL)	0.238 ± 0.032 (10)	0.262 ± 0.024 (10)	0.220 ± 0.031 (10)	0.288 ± 0.053 (9)	0.204 ± 0.036 (10)
SD 28 - 28 Thyroid Stimulating Hormone (ng/mL)	10.054 ± 0.813 (10) **	14.080 ± 1.165 (10) **	12.989 ± 1.273 (10) *	13.996 ± 1.487 (9) *	17.810 ± 1.724 (10) **
SD 28 - 28 Triiodothyronine (ng/dL)	109.100 ± 6.724 (10)	115.250 ± 6.410 (10)	94.870 ± 5.943 (10)	116.460 ± 6.332 (10)	114.410 ± 5.305 (10)
SD 28 - 28 Free Thyroxine (ng/dL)	1.631 ± 0.179 (10) **	1.949 ± 0.146 (10)	1.475 ± 0.106 (10)	1.561 ± 0.195 (9)	1.511 ± 0.126 (10)
SD 28 - 28 Total Thyroxine (ug/dL)	2.100 ± 0.359 (10) **	2.430 ± 0.276 (10)	1.560 ± 0.237 (10)	2.030 ± 0.328 (10)	1.560 ± 0.232 (10)

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Terminal Sacrifice	Treatment Groups (mg/kg/day)
	100
SD 28 - 28 Testosterone (ng/mL)	0.276 ± 0.034 (9)
SD 28 - 28 Thyroid Stimulating Hormone (ng/mL)	15.834 ± 2.204 (8) **
SD 28 - 28 Triiodothyronine (ng/dL)	104.700 ± 4.137 (9)
SD 28 - 28 Free Thyroxine (ng/dL)	1.130 ± 0.144 (9) *
SD 28 - 28 Total Thyroxine (ug/dL)	1.111 ± 0.243 (9) *

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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 ****