

Experiment Number: C20615

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

C Number:

C20615

Cage Range:

All

Date Range:

All

Reasons For Removal:

All

Removal Date Range:

All

Treatment Groups:

All

Study Gender:

Both

R07: Hormone Summary

Test Compound: Perfluorodecanoic Acid

CAS Number: 335-76-2

Date Report Requested: 03/13/2017

Time Report Requested: 13:37:30

Lab: Battelle

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Lab: Battelle

Male

Terminal Sacrifice	Treatment Groups (mg/kg/day)				
	0	0.156	0.312	0.625	1.25
SD 28 - 28 Testosterone (ng/mL)	2.593 ± 0.652 (10) **	6.364 ± 1.693 (10)	3.422 ± 0.869 (10)	1.935 ± 0.412 (10)	0.929 ± 0.193 (10) *
SD 28 - 28 Thyroid Stimulating Hormone (ng/mL)	19.790 ± 3.747 (10) *	16.155 ± 1.882 (10)	17.729 ± 2.703 (10)	15.516 ± 2.503 (10)	11.634 ± 1.182 (9)
SD 28 - 28 Triiodothyronine (ng/dL)	95.864 ± 4.012 (10) **	72.874 ± 2.663 (10)	66.144 ± 2.836 (10)	74.739 ± 5.449 (10)	147.950 ± 9.686 (10)
SD 28 - 28 Free Thyroxine (ng/dL)	2.024 ± 0.205 (10) **	1.897 ± 0.216 (10)	1.165 ± 0.106 (10) **	1.132 ± 0.057 (10) **	0.653 ± 0.053 (10) **
SD 28 - 28 Total Thyroxine (ug/dL)	4.360 ± 0.322 (10)	4.270 ± 0.228 (10)	3.240 ± 0.177 (10) *	3.820 ± 0.092 (10)	4.590 ± 0.264 (10)

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Terminal Sacrifice	Treatment Groups (mg/kg/day)
	2.5
SD 28 - 28 Testosterone (ng/mL)	0.646 ± 0.255 (6) *
SD 28 - 28 Thyroid Stimulating Hormone (ng/mL)	8.970 ± 2.277 (3)
SD 28 - 28 Triiodothyronine (ng/dL)	179.987 ± 13.730 (6)
SD 28 - 28 Free Thyroxine (ng/dL)	0.357 ± 0.046 (6) **
SD 28 - 28 Total Thyroxine (ug/dL)	4.644 ± 0.154 (9)

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Female

Terminal Sacrifice		Treatment Groups (mg/kg/day)				
		0	0.156	0.312	0.625	1.25
SD 28 - 28	Testosterone (ng/mL)	0.314 ± 0.022 (9) **	0.357 ± 0.022 (9)	0.408 ± 0.031 (10) *	0.535 ± 0.060 (10) **	0.763 ± 0.091 (10) **
SD 28 - 28	Thyroid Stimulating Hormone (ng/mL)	12.098 ± 0.956 (9)	15.443 ± 1.228 (9)	15.359 ± 1.207 (10)	12.497 ± 0.987 (10)	16.281 ± 2.337 (10)
SD 28 - 28	Triiodothyronine (ng/dL)	100.675 ± 8.814 (9) **	107.268 ± 6.408 (9)	97.140 ± 4.512 (10)	106.020 ± 5.723 (10)	124.449 ± 10.257 (10) *
SD 28 - 28	Free Thyroxine (ng/dL)	1.780 ± 0.218 (9) **	2.141 ± 0.187 (9)	2.347 ± 0.164 (10)	1.953 ± 0.223 (10)	1.093 ± 0.078 (10) *
SD 28 - 28	Total Thyroxine (ug/dL)	3.867 ± 0.346 (9)	4.278 ± 0.311 (9)	4.200 ± 0.253 (10)	3.920 ± 0.373 (10)	3.530 ± 0.207 (10)

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Female

Terminal Sacrifice	Treatment Groups (mg/kg/day)
	2.5
SD 28 - 28 Testosterone (ng/mL)	1.408 ± 0.190 (4) **
SD 28 - 28 Thyroid Stimulating Hormone (ng/mL)	15.424 ± 1.718 (2)
SD 28 - 28 Triiodothyronine (ng/dL)	210.614 ± 37.652 (3) **
SD 28 - 28 Free Thyroxine (ng/dL)	0.467 ± 0.019 (3) *
SD 28 - 28 Total Thyroxine (ug/dL)	4.386 ± 0.144 (7)

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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 ****