

Experiment Number: C20613

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

C Number:

C20613

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: Perfluorohexanoic acid

CAS Number: 307-24-4

Date Report Requested: 12/14/2016

Time Report Requested: 15:02:10

Lab: Battelle

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Male

Terminal Sacrifice	Treatment Groups (mg/kg/day)				
	0	62.6	125	250	500
SD 28 - 28 Testosterone (ng/mL)	3.814 ± 0.805 (10)	3.525 ± 0.530 (10)	3.629 ± 1.021 (9)	3.609 ± 0.461 (10)	3.555 ± 0.586 (10)
SD 28 - 28 Thyroid Stimulating Hormone (ng/mL)	23.080 ± 2.634 (10)	25.156 ± 3.381 (9)	24.278 ± 3.044 (9)	24.469 ± 2.989 (10)	20.946 ± 2.845 (10)
SD 28 - 28 Triiodothyronine (ng/dL)	84.170 ± 5.249 (10) **	68.880 ± 3.760 (10) *	62.156 ± 3.508 (9) **	71.590 ± 3.881 (10) *	71.030 ± 4.091 (10) *
SD 28 - 28 Free Thyroxine (ng/dL)	2.876 ± 0.086 (10) **	2.158 ± 0.168 (10) **	1.782 ± 0.124 (9) **	1.740 ± 0.092 (10) **	1.295 ± 0.068 (10) **
SD 28 - 28 Total Thyroxine (ug/dL)	4.260 ± 0.146 (10) **	3.400 ± 0.231 (10) **	2.933 ± 0.161 (9) **	2.900 ± 0.165 (10) **	2.370 ± 0.102 (10) **

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Terminal Sacrifice	Treatment Groups (mg/kg/day)
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1000

SD 28 - 28	Testosterone (ng/mL)	2.930 ± 0.713 (10)
SD 28 - 28	Thyroid Stimulating Hormone (ng/mL)	18.291 ± 3.564 (10)
SD 28 - 28	Triiodothyronine (ng/dL)	60.070 ± 4.739 (10) **
SD 28 - 28	Free Thyroxine (ng/dL)	0.767 ± 0.097 (10) **
SD 28 - 28	Total Thyroxine (ug/dL)	1.770 ± 0.173 (10) **

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Female

Terminal Sacrifice		Treatment Groups (mg/kg/day)				
		0	62.6	125	250	500
SD 28 - 28	Testosterone (ng/mL)	0.301 ± 0.035 (10)	0.329 ± 0.025 (10)	0.321 ± 0.029 (10)	0.337 ± 0.033 (10)	0.256 ± 0.040 (10)
SD 28 - 28	Thyroid Stimulating Hormone (ng/mL)	17.320 ± 1.404 (10)	14.750 ± 1.173 (10)	15.867 ± 0.897 (9)	15.730 ± 1.060 (10)	24.180 ± 9.455 (10)
SD 28 - 28	Triiodothyronine (ng/dL)	98.190 ± 8.944 (10)	97.120 ± 6.101 (10)	92.570 ± 6.159 (10)	101.260 ± 7.496 (10)	111.580 ± 6.369 (10)
SD 28 - 28	Free Thyroxine (ng/dL)	1.970 ± 0.131 (10)	1.955 ± 0.130 (10)	1.888 ± 0.128 (10)	2.139 ± 0.187 (10)	1.896 ± 0.126 (10)
SD 28 - 28	Total Thyroxine (ug/dL)	3.620 ± 0.300 (10)	3.380 ± 0.227 (10)	3.210 ± 0.177 (10)	3.450 ± 0.275 (10)	3.300 ± 0.163 (10)

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Female

Terminal Sacrifice	Treatment Groups (mg/kg/day)
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1000

SD 28 - 28	Testosterone (ng/mL)	0.370 ± 0.023 (10)
SD 28 - 28	Thyroid Stimulating Hormone (ng/mL)	15.690 ± 0.774 (10)
SD 28 - 28	Triiodothyronine (ng/dL)	94.950 ± 7.914 (10)
SD 28 - 28	Free Thyroxine (ng/dL)	1.605 ± 0.146 (10)
SD 28 - 28	Total Thyroxine (ug/dL)	2.950 ± 0.213 (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 ****