

**Experiment Number:** C07040

**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Rat/Harlan Sprague Dawley

**C Number:**

C07040

**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:** Perfluorobutane sulfonate

**CAS Number:** 375-73-5

**Date Report Requested:** 12/14/2016

**Time Report Requested:** 15:10:42

**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)	3.241 ± 0.508 (9)	3.102 ± 0.767 (10)	2.537 ± 0.535 (10)	4.111 ± 0.582 (9)	3.724 ± 1.293 (9)
SD 28 - 28	Thyroid Stimulating Hormone (ng/mL)	23.267 ± 2.787 (9)	26.640 ± 3.927 (10)	25.510 ± 2.531 (10)	23.760 ± 2.583 (10)	32.189 ± 3.147 (9)
SD 28 - 28	Triiodothyronine (ng/dL)	117.756 ± 8.312 (9) **	87.850 ± 5.003 (10) *	64.480 ± 3.079 (10) **	60.200 ± 4.104 (10) **	50.444 ± 0.444 (9) **
SD 28 - 28	Free Thyroxine (ng/dL)	2.094 ± 0.090 (9) **	0.644 ± 0.037 (10) **	0.321 ± 0.012 (10) **	0.300 ± 0.000 (10) **	0.300 ± 0.000 (9) **
SD 28 - 28	Total Thyroxine (ug/dL)	3.344 ± 0.177 (9) **	0.900 ± 0.093 (10) **	0.220 ± 0.047 (10) **	0.100 ± 0.033 (10) **	0.289 ± 0.065 (9) **

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Female

Terminal Sacrifice	Treatment Groups (mg/kg/day)				
	0	62.6	125	250	500
SD 28 - 28 Testosterone (ng/mL)	0.312 ± 0.064 (10) *	0.323 ± 0.060 (10)	0.578 ± 0.128 (10)	0.431 ± 0.080 (9)	0.449 ± 0.060 (9)
SD 28 - 28 Thyroid Stimulating Hormone (ng/mL)	11.920 ± 1.287 (10)	14.564 ± 1.055 (10)	12.550 ± 1.056 (10)	14.400 ± 1.147 (9)	13.758 ± 0.993 (9)
SD 28 - 28 Triiodothyronine (ng/dL)	89.290 ± 5.566 (10) **	61.810 ± 3.336 (10) **	61.530 ± 3.328 (10) **	52.367 ± 1.869 (9) **	51.278 ± 0.870 (9) **
SD 28 - 28 Free Thyroxine (ng/dL)	1.535 ± 0.080 (10) **	0.723 ± 0.047 (10) **	0.553 ± 0.034 (10) **	0.475 ± 0.043 (9) **	0.355 ± 0.025 (9) **
SD 28 - 28 Total Thyroxine (ug/dL)	3.100 ± 0.153 (10) **	1.480 ± 0.085 (10) **	1.120 ± 0.051 (10) **	0.900 ± 0.076 (9) **	0.967 ± 0.088 (9) **

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**Female**

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<b>Terminal Sacrifice</b>	<b>Treatment Groups (mg/kg/day)</b>
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**1000**

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SD 28 - 28	Testosterone (ng/mL)	0.293 (1)
SD 28 - 28	Thyroid Stimulating Hormone (ng/mL)	30.500 (1)
SD 28 - 28	Triiodothyronine (ng/dL)	50.000 (1)
SD 28 - 28	Free Thyroxine (ng/dL)	0.383 (1)
SD 28 - 28	Total Thyroxine (ug/dL)	0.800 (1)

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LEGEND

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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 \*\***