

**Experiment Number:** C04049

**Test Type:** TOX

**Route:** Oral Gavage

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

**C Number:**

C04049

**Cage Range:**

All

**Date Range:**

All

**Reasons For Removal:**

All

**Removal Date Range:**

All

**Treatment Groups:**

All

**Study Gender:**

Male

**R07: Hormone Summary**

**Test Compound:** Perfluorononanoic Acid

**CAS Number:** 375-95-1

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

**Time Report Requested:** 15:26:19

**Lab:** Battelle

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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)	4.483 ± 1.308 (10) **	4.859 ± 1.329 (10)	3.233 ± 1.376 (10)	0.847 ± 0.512 (9) **	0.045 (1)
SD 28 - 28	Thyroid Stimulating Hormone (ng/mL)	20.330 ± 2.312 (10) **	13.702 ± 1.265 (10)	10.967 ± 1.223 (9) **	10.160 ± 3.348 (4) **	5.770 (1)
SD 28 - 28	Triiodothyronine (ng/dL)	78.210 ± 4.542 (10) **	58.540 ± 2.111 (10)	84.930 ± 2.941 (10)	111.789 ± 10.157 (9) *	61.000 (1)
SD 28 - 28	Free Thyroxine (ng/dL)	2.157 ± 0.152 (10) **	0.546 ± 0.024 (10) **	0.328 ± 0.009 (10) **	0.302 ± 0.001 (7) **	0.300 (1)
SD 28 - 28	Total Thyroxine (ug/dL)	2.360 ± 0.266 (10)	0.210 ± 0.069 (10) **	0.380 ± 0.066 (10) **	1.490 ± 0.129 (10)	1.000 (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 \*\***