

Study Number: C20022-01
Test Type: TOX
Route: Oral Gavage
Species/Strain: Rat/Sprague Dawley

R07: Hormone Summary
Test Compound: Perfluorohexanesulfonamide
CAS Number: 41997-13-1

Date Report Requested: 12/07/2020
Time Report Requested: 14:56:44
Lab: Battelle

Study Number: C20022-01
Study Gender: Both
PWG Approval Date: See web page for date of PWG Approval
Version: v1.1.3

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Male: Core Animals

Terminal Sacrifice		Treatment Groups (mg/kg)			
		0	0.15	0.5	1.4
SD 5 - 5	Thyroid Stimulating Hormone (ng/mL)	3.733 ± 0.810 (6)	4.567 ± 0.296 (3)	5.220 ± 0.696 (5)	3.180 ± 0.491 (5)
SD 5 - 5	Triiodothyronine (ng/dL)	52.550 ± 3.147 (6) **	55.767 ± 8.167 (3)	58.340 ± 5.567 (5)	51.040 ± 5.683 (5)
SD 5 - 5	Free Thyroxine (ng/dL)	5.290 ± 0.524 (6)	6.013 ± 1.023 (3)	6.988 ± 1.396 (5)	7.646 ± 1.492 (5)
SD 5 - 5	Total Thyroxine (ug/dL)	3.03 ± 0.29 (6) **	3.09 ± 0.58 (3)	2.73 ± 0.27 (5)	2.69 ± 0.33 (5)

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Terminal Sacrifice	Treatment Groups (mg/kg)			
	4	12	37	111
SD 5 - 5 Thyroid Stimulating Hormone (ng/mL)	3.700 ± 0.294 (4)	5.425 ± 1.276 (4)	2.700 ± 1.179 (3)	6.180 ± 1.726 (5)
SD 5 - 5 Triiodothyronine (ng/dL)	53.750 ± 5.446 (4)	49.425 ± 5.193 (4)	36.467 ± 5.102 (3)	24.160 ± 1.202 (5) **
SD 5 - 5 Free Thyroxine (ng/dL)	8.498 ± 1.697 (4)	6.323 ± 0.624 (4)	5.607 ± 1.038 (3)	6.110 ± 0.569 (5)
SD 5 - 5 Total Thyroxine (ug/dL)	2.95 ± 0.28 (4)	2.02 ± 0.34 (4) *	0.79 ± 0.17 (3) **	0.45 ± 0.04 (5) **

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Female: Core Animals

Terminal Sacrifice		Treatment Groups (mg/kg)			
		0	0.15	0.5	1.4
SD 5 - 5	Thyroid Stimulating Hormone (ng/mL)	1.900 ± 0.164 (9) *	1.675 ± 0.373 (4)	2.700 ± 0.457 (5)	1.700 ± 0.145 (5)
SD 5 - 5	Triiodothyronine (ng/dL)	53.378 ± 1.438 (9)	56.950 ± 0.562 (4)	61.360 ± 2.303 (5)	66.580 ± 2.937 (5) *
SD 5 - 5	Free Thyroxine (ng/dL)	6.386 ± 0.970 (9)	10.393 ± 1.473 (4)	7.688 ± 0.897 (5)	9.552 ± 0.643 (5)
SD 5 - 5	Total Thyroxine (ug/dL)	2.76 ± 0.15 (9) **	2.74 ± 0.31 (4)	3.41 ± 0.29 (5)	3.43 ± 0.24 (5)

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Terminal Sacrifice	Treatment Groups (mg/kg)			
	4	12	37	111
SD 5 - 5 Thyroid Stimulating Hormone (ng/mL)	1.775 ± 0.446 (4)	1.650 ± 0.429 (4)	3.525 ± 0.810 (4)	5.980 ± 1.075 (5)
SD 5 - 5 Triiodothyronine (ng/dL)	59.425 ± 7.397 (4)	57.050 ± 4.120 (4)	53.875 ± 2.082 (4)	38.580 ± 3.542 (5)
SD 5 - 5 Free Thyroxine (ng/dL)	11.067 ± 2.151 (4)	8.420 ± 1.164 (4)	8.258 ± 1.028 (4)	6.138 ± 0.752 (5)
SD 5 - 5 Total Thyroxine (ug/dL)	2.61 ± 0.30 (4)	2.55 ± 0.21 (4)	1.84 ± 0.23 (4) *	1.06 ± 0.12 (5) **

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LEGEND

Data are displayed as mean \pm SEM (N) unless otherwise noted.

SD – Study Day

Statistical analysis performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests.

Statistical significance for the control group indicates a significant trend test

Statistical significance for a treatment group indicates a significant pairwise test compared to the vehicle control group

* Statistically significant at $P \leq 0.05$

** Statistically significant at $P \leq 0.01$

**** END OF REPORT ****