

Study Number: C98090C-01
Test Type: TOX
Route: Oral Gavage
Species/Strain: Rat/Sprague Dawley

R07: Hormone Summary
Test Compound: 2,2',4,4'-Tetrabromodiphenyl Ether
CAS Number: 5436-43-1

Date Report Requested: 04/08/2019
Time Report Requested: 11:28:05
Lab: Battelle

C Number: C98090C-01
Study Gender: Male
PWG Approval Date See web page for date of PWG Approval

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Male: Core Males

Terminal Sacrifice	Treatment Groups (mg/kg)			
	0	0.0485	0.485	4.85
SD 5 - 5 Thyroid Stimulating Hormone (ng/mL)	13.9 ± 1.9 (5)	18.5 ± 3.1 (6)	18.8 ± 2.4 (5)	19.3 ± 3.0 (6)
SD 5 - 5 Triiodothyronine (ng/dL)	135.833 ± 8.490 (6) **	120.083 ± 3.097 (6)	124.000 ± 9.076 (5)	125.917 ± 5.214 (6)
SD 5 - 5 Free Thyroxine (ng/dL)	1.840 ± 0.261 (6) **	1.573 ± 0.133 (6)	1.320 ± 0.075 (6)	1.573 ± 0.082 (6)
SD 5 - 5 Total Thyroxine (ug/dL)	5.77 ± 0.63 (6) **	5.77 ± 0.35 (6)	5.00 ± 0.27 (6)	5.94 ± 0.28 (5)

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Terminal Sacrifice

Treatment Groups (mg/kg)

48.5

485

SD 5 - 5	Thyroid Stimulating Hormone (ng/mL)	13.4 ± 1.5 (6)	18.1 ± 1.5 (6)
SD 5 - 5	Triiodothyronine (ng/dL)	85.383 ± 7.547 (6) **	96.133 ± 4.413 (6) **
SD 5 - 5	Free Thyroxine (ng/dL)	0.365 ± 0.023 (6) **	0.315 ± 0.027 (6) **
SD 5 - 5	Total Thyroxine (ug/dL)	1.48 ± 0.10 (6) **	0.80 ± 0.08 (4) **

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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 (unless otherwise noted).

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 $P \leq 0.01$

One value for Total Thyroxine in the 4.85 mg/kg group was excluded. Two values for Total Thyroxine in the 485 mg/kg group were excluded.

**** END OF REPORT ****