

Study Number: C20042-01
Test Type: TOX
Route: Oral Gavage
Species/Strain: Rat/Sprague Dawley

R07: Hormone Summary
Test Compound: 2,3-Benzofluorene
CAS Number: 243-17-4

Date Report Requested: 12/21/2020
Time Report Requested: 10:59:28
Lab: Battelle

Study Number: C20042-01
Study Gender: Both
PWG Approval Date: See web page for date of PWG Approval
Version: v1.1.4

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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)	2.950 ± 0.617 (8) **	3.760 ± 1.448 (5)	4.260 ± 0.701 (5)	3.275 ± 1.121 (4)
SD 5 - 5	Triiodothyronine (ng/dL)	49.925 ± 3.226 (8)	49.480 ± 1.856 (5)	51.660 ± 7.242 (5)	62.075 ± 6.424 (4)
SD 5 - 5	Free Thyroxine (ng/dL)	7.068 ± 0.312 (8) **	6.102 ± 0.916 (5)	8.470 ± 1.406 (5)	14.438 ± 5.659 (4)
SD 5 - 5	Total Thyroxine (ug/dL)	2.80 ± 0.20 (8) **	2.59 ± 0.24 (5)	2.71 ± 0.22 (5)	3.16 ± 0.25 (4)

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Terminal Sacrifice	Treatment Groups (mg/kg)			
	4	12	37	111
SD 5 - 5 Thyroid Stimulating Hormone (ng/mL)	2.760 ± 0.354 (5)	3.900 ± 1.020 (5)	4.525 ± 0.945 (4)	7.033 ± 0.639 (3) **
SD 5 - 5 Triiodothyronine (ng/dL)	60.400 ± 2.712 (5)	48.420 ± 3.900 (5)	47.750 ± 5.721 (4)	50.900 ± 7.736 (3)
SD 5 - 5 Free Thyroxine (ng/dL)	9.842 ± 2.123 (5)	14.388 ± 1.481 (5)	10.803 ± 1.415 (4)	8.383 ± 1.301 (3)
SD 5 - 5 Total Thyroxine (ug/dL)	2.82 ± 0.39 (5)	2.72 ± 0.28 (5)	2.53 ± 0.35 (4)	1.97 ± 0.23 (3)

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Terminal Sacrifice	Treatment Groups (mg/kg)	
	333	1000
SD 5 - 5 Thyroid Stimulating Hormone (ng/mL)	7.500 ± 1.073 (4) **	7.233 ± 1.011 (3) *
SD 5 - 5 Triiodothyronine (ng/dL)	41.025 ± 2.726 (4)	35.100 ± 3.811 (3)
SD 5 - 5 Free Thyroxine (ng/dL)	13.958 ± 0.657 (4)	10.353 ± 2.907 (3)
SD 5 - 5 Total Thyroxine (ug/dL)	1.65 ± 0.12 (4) **	1.72 ± 0.16 (3) *

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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)	2.783 ± 0.326 (6) **	3.360 ± 0.853 (5)	2.940 ± 0.687 (5)	4.200 ± 0.476 (5)
SD 5 - 5	Triiodothyronine (ng/dL)	58.933 ± 6.169 (6)	62.720 ± 0.623 (5)	64.380 ± 6.833 (5)	61.660 ± 2.354 (5)
SD 5 - 5	Free Thyroxine (ng/dL)	9.405 ± 1.040 (6)	6.844 ± 1.182 (5)	5.700 ± 0.827 (5)	6.612 ± 0.831 (5)
SD 5 - 5	Total Thyroxine (ug/dL)	2.89 ± 0.33 (6)	3.36 ± 0.44 (5)	3.13 ± 0.45 (5)	2.89 ± 0.31 (5)

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Terminal Sacrifice	Treatment Groups (mg/kg)			
	4	12	37	111
SD 5 - 5 Thyroid Stimulating Hormone (ng/mL)	4.025 ± 0.333 (4)	4.260 ± 0.493 (5)	4.475 ± 0.239 (4) *	5.480 ± 1.102 (5) *
SD 5 - 5 Triiodothyronine (ng/dL)	54.875 ± 3.388 (4)	69.320 ± 5.255 (5)	61.600 ± 7.177 (4)	63.340 ± 0.874 (5)
SD 5 - 5 Free Thyroxine (ng/dL)	6.118 ± 0.692 (4)	6.356 ± 0.275 (5)	5.803 ± 0.437 (4)	5.504 ± 0.556 (5)
SD 5 - 5 Total Thyroxine (ug/dL)	3.20 ± 0.30 (4)	3.73 ± 0.37 (5)	2.33 ± 0.20 (4)	3.08 ± 0.34 (5)

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Terminal Sacrifice	Treatment Groups (mg/kg)	
	333	1000
SD 5 - 5 Thyroid Stimulating Hormone (ng/mL)	4.900 ± 1.360 (4) *	8.600 ± 1.762 (5) **
SD 5 - 5 Triiodothyronine (ng/dL)	65.200 ± 2.830 (4)	58.940 ± 3.511 (5)
SD 5 - 5 Free Thyroxine (ng/dL)	6.065 ± 0.616 (4)	9.402 ± 0.461 (5)
SD 5 - 5 Total Thyroxine (ug/dL)	2.54 ± 0.52 (4)	2.28 ± 0.33 (5)

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LEGEND

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

SD – Study Day

Statistical analysis were 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 ****