

Study Number: C11297-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Sprague Dawley

C Number:

Study Gender:

PWG Approval Date

PA49: Summary of Cytochrome Activity

Test Compound: 1,3,5,7,9,11-Hexabromocyclododecane

CAS Number: 25637-99-4

C11297-01

Male

See web page for date of PWG Approval

Date Report Requested: 04/26/2019

Time Report Requested: 07:40:54

Lab: Battelle

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Lab: Battelle

Male: Core Males

Treatment Groups (mg/kg)

	0	0.06	0.641	6.41	64.1
Total Protein Concentration (mg/ml)	9.31 ± 0.88 (6) *	8.62 ± 0.94 (6)	8.89 ± 0.72 (6)	9.68 ± 0.62 (6)	7.55 ± 0.60 (6)
Cytochrome P450 1A1 Concentration (ng/ml)	21.4 ± 1.4 (6) *	30.1 ± 5.9 (6)	18.9 ± 2.6 (6)	22.3 ± 1.2 (5)	19.4 ± 1.3 (6)
Cytochrome P450 1A1 Tissue Concentration (ng/mg)	2.377 ± 0.233 (6)	3.573 ± 0.551 (6)	2.360 ± 0.617 (6)	3.075 ± 0.768 (6)	2.610 ± 0.162 (6)
Cytochrome P450 2B1 Concentration (ng/ml)	3.27 ± 0.15 (6) *	3.18 ± 0.16 (6)	3.23 ± 0.14 (6)	2.93 ± 0.12 (6)	2.79 ± 0.09 (6)
Cytochrome P450 2B1 Tissue Concentration (ng/mg)	0.369 ± 0.041 (6)	0.409 ± 0.074 (6)	0.373 ± 0.025 (6)	0.314 ± 0.033 (6)	0.377 ± 0.023 (6)
Cytochrome P450 1A2 Concentration (ng/ml)	47.6 ± 3.5 (5) **	59.7 ± 10.3 (6)	39.2 ± 7.9 (6)	49.0 ± 6.1 (6)	40.3 ± 4.7 (6)
Cytochrome P450 1A2 Tissue Concentration (ng/mg)	6.392 ± 0.872 (6) **	7.120 ± 1.021 (6)	4.728 ± 1.105 (6)	5.023 ± 0.441 (6)	5.532 ± 0.878 (6)
UDP Glucuronosyltransferase 1 Concentration (ng/ml)	18262.167 ± 1841.528 (6) **	21260.167 ± 3128.318 (6)	13823.500 ± 1827.737 (6)	16312.750 ± 2500.187 (6)	12470.100 ± 882.771 (5) *
UDP Glucuronosyltransferase 1 Tissue Concentration (ng/mg)	1973.089 ± 103.760 (6)	2561.153 ± 348.670 (6)	1618.925 ± 240.680 (6)	1669.753 ± 219.588 (6)	2072.019 ± 325.013 (6)

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Treatment Groups (mg/kg)

641

Total Protein Concentration (mg/ml)	7.15 ± 0.61 (6)
Cytochrome P450 1A1 Concentration (ng/ml)	17.9 ± 1.0 (6)
Cytochrome P450 1A1 Tissue Concentration (ng/mg)	2.615 ± 0.310 (6)
Cytochrome P450 2B1 Concentration (ng/ml)	3.06 ± 0.19 (6)
Cytochrome P450 2B1 Tissue Concentration (ng/mg)	0.443 ± 0.049 (6)
Cytochrome P450 1A2 Concentration (ng/ml)	28.8 ± 4.4 (6) *
Cytochrome P450 1A2 Tissue Concentration (ng/mg)	3.388 ± 0.184 (5) **
UDP Glucuronosyltransferase 1 Concentration (ng/ml)	13628.083 ± 1136.968 (6) *
UDP Glucuronosyltransferase 1 Tissue Concentration (ng/mg)	1950.475 ± 181.504 (6)

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LEGEND

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

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 Cytochrome P450 1A2 Concentration in the 0 mg/kg group, one value for Cytochrome P450 1A1 Concentration in the 6.41 mg/kg group, one value for UDP Glucuronosyltransferase 1 Concentration in the 64.1 mg/kg group, and one value for Cytochrome P450 1A2 Tissue Concentration in the 641 mg/kg group were excluded because they were outliers.

**** END OF REPORT ****