

**Study Number:** C02047-01

**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:** Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)

**CAS Number:** 21850-44-2

C02047-01

Male

See web page for date of PWG Approval

**Date Report Requested:** 04/26/2019

**Time Report Requested:** 07:37:30

**Lab:** Battelle

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Treatment Groups (mg/kg)

	0		0.1		0.94		9.4		94.3	
Total Protein Concentration (mg/ml)	8.31	± 0.50 (6)	8.08	± 0.54 (6)	8.83	± 0.62 (6)	8.46	± 0.25 (6)	7.69	± 0.60 (6)
Cytochrome P450 1A1 Concentration (ng/ml)	24.4	± 1.8 (6) *	29.2	± 1.6 (6)	24.2	± 1.2 (6)	27.4	± 2.1 (5)	27.6	± 2.1 (5)
Cytochrome P450 1A1 Tissue Concentration (ng/mg)	2.648	± 0.069 (5) *	3.660	± 0.249 (6) *	2.785	± 0.167 (6)	3.258	± 0.209 (5)	3.660	± 0.436 (5)
Cytochrome P450 2B1 Concentration (ng/ml)	3.45	± 0.09 (6) **	3.61	± 0.10 (6)	3.50	± 0.09 (6)	3.60	± 0.11 (6)	3.77	± 0.10 (6)
Cytochrome P450 2B1 Tissue Concentration (ng/mg)	0.421	± 0.018 (6)	0.455	± 0.028 (6)	0.405	± 0.029 (6)	0.428	± 0.018 (6)	0.505	± 0.041 (6)
Cytochrome P450 1A2 Concentration (ng/ml)	37.6	± 1.3 (5)	62.3	± 13.6 (6)	72.2	± 19.7 (6)	37.4	± 3.8 (6)	41.7	± 5.9 (6)
Cytochrome P450 1A2 Tissue Concentration (ng/mg)	5.682	± 1.041 (6) *	7.532	± 1.253 (6)	7.707	± 1.676 (6)	4.425	± 0.440 (6)	5.317	± 0.527 (6)
UDP Glucuronosyltransferase 1 Concentration (ng/ml)	17282.667	± 1785.099 (6)	20381.167	± 3017.919 (6)	19972.917	± 1403.424 (6)	21572.917	± 2386.067 (6)	16410.000	± 1749.834 (6)
UDP Glucuronosyltransferase 1 Tissue Concentration (ng/mg)	2059.958	± 109.630 (6)	2511.993	± 301.098 (6)	2290.029	± 143.148 (6)	2535.729	± 230.732 (6)	2132.415	± 161.326 (6)

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Treatment Groups (mg/kg)

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943

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Total Protein Concentration (mg/ml)	9.11 ± 0.34	(6)
Cytochrome P450 1A1 Concentration (ng/ml)	45.3 ± 8.5	(6)
Cytochrome P450 1A1 Tissue Concentration (ng/mg)	5.103 ± 1.055	(6)
Cytochrome P450 2B1 Concentration (ng/ml)	3.84 ± 0.06	(6) *
Cytochrome P450 2B1 Tissue Concentration (ng/mg)	0.424 ± 0.019	(6)
Cytochrome P450 1A2 Concentration (ng/ml)	34.3 ± 4.0	(6)
Cytochrome P450 1A2 Tissue Concentration (ng/mg)	3.783 ± 0.480	(6)
UDP Glucuronosyltransferase 1 Concentration (ng/ml)	18369.250 ± 1749.258	(6)
UDP Glucuronosyltransferase 1 Tissue Concentration (ng/mg)	2006.024 ± 150.128	(6)

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LEGEND

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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 1A1 Tissue Concentration in the 0 mg/kg group, one value for Cytochrome P450 1A2 Concentration in the 0 mg/kg group, one value for Cytochrome P450 1A1 Concentration in the 9.4 mg/kg group, one value for Cytochrome P450 1A1 Tissue Concentration in the 9.4 mg/kg group, one value for Cytochrome P450 1A1 Concentration in the 94.3 mg/kg group, and one value for Cytochrome P450 1A1 Tissue Concentration in the 94.3 mg/kg group were excluded because they were outliers.

**\*\* END OF REPORT \*\***