

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

**PA49: Summary of Cytochrome Activity**  
**Test Compound:** 2,2',4,4'-Tetrabromodiphenyl Ether  
**CAS Number:** 5436-43-1

**Date Report Requested:** 03/11/2019  
**Time Report Requested:** 15:21:47  
**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**

**Treatment Groups (mg/kg)**

	0		0.0485		0.485		4.85		48.5	
Total Protein Concentration (mg/ml)	7.27	± 1.03 (6)	8.37	± 0.91 (6)	6.98	± 0.80 (6)	8.69	± 1.06 (6)	9.97	± 1.18 (6)
Cytochrome P450 1A1 Concentration (ng/ml)	18.6	± 1.4 (6)	18.9	± 0.8 (5)	19.3	± 0.5 (6)	20.8	± 1.2 (6)	22.1	± 1.9 (6)
Cytochrome P450 1A1 Tissue Concentration (ng/mg)	2.790	± 0.379 (6)	2.773	± 0.434 (6)	2.935	± 0.315 (6)	2.552	± 0.271 (6)	2.327	± 0.306 (6)
Cytochrome P450 2B1 Concentration (ng/ml)	3.20	± 0.05 (6)	3.41	± 0.19 (6)	3.39	± 0.23 (6)	3.45	± 0.21 (6)	3.14	± 0.07 (6)
Cytochrome P450 2B1 Tissue Concentration (ng/mg)	0.496	± 0.081 (6)	0.424	± 0.042 (6)	0.511	± 0.049 (6)	0.424	± 0.048 (6)	0.335	± 0.037 (6)
Cytochrome P450 1A2 Concentration (ng/ml)	48.7	± 14.5 (6)	49.0	± 8.7 (6)	39.2	± 4.9 (6)	36.9	± 4.1 (6)	55.3	± 15.8 (6)
Cytochrome P450 1A2 Tissue Concentration (ng/mg)	6.762	± 1.700 (6)	5.973	± 1.043 (6)	5.988	± 0.879 (6)	4.757	± 0.975 (6)	5.808	± 1.756 (6)
UDP Glucuronosyltransferase 1 Concentration (ng/ml)	15048.917	± 1453.437 (6) **	16626.417	± 2304.970 (6)	14805.417	± 1592.598 (6)	16437.750	± 1793.113 (6)	25644.667	± 2938.265 (6) **
UDP Glucuronosyltransferase 1 Tissue Concentration (ng/mg)	2376.768	± 487.613 (6)	2092.099	± 370.681 (6)	2282.695	± 337.689 (6)	2039.353	± 317.127 (6)	2633.788	± 249.490 (6)

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**Male: Core Males**

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**Treatment Groups (mg/kg)**

**485**

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Total Protein Concentration (mg/ml)	7.41 ± 1.29 (6)
Cytochrome P450 1A1 Concentration (ng/ml)	15.6 ± 0.8 (5)
Cytochrome P450 1A1 Tissue Concentration (ng/mg)	2.763 ± 0.280 (6)
Cytochrome P450 2B1 Concentration (ng/ml)	3.19 ± 0.17 (6)
Cytochrome P450 2B1 Tissue Concentration (ng/mg)	0.472 ± 0.055 (6)
Cytochrome P450 1A2 Concentration (ng/ml)	46.7 ± 5.6 (6)
Cytochrome P450 1A2 Tissue Concentration (ng/mg)	7.072 ± 1.206 (6)
UDP Glucuronosyltransferase 1 Concentration (ng/ml)	22583.917 ± 2239.463 (6) *
UDP Glucuronosyltransferase 1 Tissue Concentration (ng/mg)	3368.914 ± 513.011 (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 Concentration in the 0.0485 mg/kg group and one value for Cytochrome P450 1A1 Concentration in the 485 mg/kg group were excluded because they were outliers.

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