

**Study Number:** C20292-01

**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:** 1,2-Bis(2,4,6-tribromophenoxy)ethane

**CAS Number:** 37853-59-1

C20292-01

Male

See web page for date of PWG Approval

**Date Report Requested:** 03/11/2019

**Time Report Requested:** 15:23:32

**Lab:** Battelle

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Test Compound: 1,2-Bis(2,4,6-tribromophenoxy)ethane

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Male: Core Males

Treatment Groups (mg/kg)

	0	0.07	0.69	6.88	68
Total Protein Concentration (mg/ml)	9.59 ± 0.54 (6)	9.18 ± 1.02 (6)	10.27 ± 0.88 (6)	9.56 ± 0.36 (6)	10.59 ± 0.38 (6)
Cytochrome P450 1A1 Concentration (ng/ml)	34.5 ± 5.3 (6)	31.8 ± 7.0 (6)	40.7 ± 8.2 (6)	27.9 ± 5.0 (6)	28.5 ± 7.9 (6)
Cytochrome P450 1A1 Tissue Concentration (ng/mg)	3.588 ± 0.515 (6)	3.452 ± 0.620 (6)	3.902 ± 0.625 (6)	2.968 ± 0.585 (6)	2.633 ± 0.671 (6)
Cytochrome P450 2B1 Concentration (ng/ml)	3.43 ± 0.23 (6)	3.55 ± 0.24 (6)	3.61 ± 0.14 (6)	3.99 ± 0.26 (6)	3.91 ± 0.27 (6)
Cytochrome P450 2B1 Tissue Concentration (ng/mg)	0.362 ± 0.029 (6)	0.413 ± 0.055 (6)	0.366 ± 0.037 (6)	0.420 ± 0.029 (6)	0.375 ± 0.037 (6)
Cytochrome P450 1A2 Concentration (ng/ml)	38.9 ± 3.7 (6)	36.9 ± 4.5 (6)	50.4 ± 5.9 (6)	42.0 ± 3.5 (6)	42.4 ± 5.2 (6)
Cytochrome P450 1A2 Tissue Concentration (ng/mg)	4.078 ± 0.364 (6)	4.003 ± 0.335 (6)	4.945 ± 0.518 (6)	4.378 ± 0.262 (6)	3.983 ± 0.422 (6)
UDP Glucuronosyltransferase 1 Concentration (ng/ml)	14498.500 ± 1347.583 (6)	14673.917 ± 1368.540 (6)	15930.250 ± 2267.098 (6)	15258.583 ± 753.312 (6)	15899.333 ± 874.109 (6)
UDP Glucuronosyltransferase 1 Tissue Concentration (ng/mg)	1512.975 ± 111.572 (6)	1611.921 ± 49.895 (6)	1540.997 ± 155.885 (6)	1600.952 ± 74.575 (6)	1568.491 ± 16.937 (5)

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Treatment Groups (mg/kg)

680

Total Protein Concentration (mg/ml)	9.38 ± 0.56	(6)
Cytochrome P450 1A1 Concentration (ng/ml)	43.4 ± 2.7	(6)
Cytochrome P450 1A1 Tissue Concentration (ng/mg)	4.723 ± 0.439	(6)
Cytochrome P450 2B1 Concentration (ng/ml)	3.40 ± 0.13	(6)
Cytochrome P450 2B1 Tissue Concentration (ng/mg)	0.370 ± 0.031	(6)
Cytochrome P450 1A2 Concentration (ng/ml)	43.9 ± 1.8	(6)
Cytochrome P450 1A2 Tissue Concentration (ng/mg)	4.712 ± 0.173	(6)
UDP Glucuronosyltransferase 1 Concentration (ng/ml)	15404.500 ± 1276.204	(6)
UDP Glucuronosyltransferase 1 Tissue Concentration (ng/mg)	1634.752 ± 68.265	(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 UDP Glucuronosyltransferase 1 Tissue Concentration in the 68 mg/kg group was excluded because it was an outlier.

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