

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

Study Number: C02047-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Sprague Dawley

PA49: Summary of Cytochrome Activity

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

CAS Number: 21850-44-2

Date Report Requested: 04/26/2019

Time Report Requested: 07:37:30

Lab: Battelle

Male: Core Males

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)

Study Number: C02047-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Sprague Dawley

PA49: Summary of Cytochrome Activity

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

CAS Number: 21850-44-2

Date Report Requested: 04/26/2019

Time Report Requested: 07:37:30

Lab: Battelle

Male: Core Males

Treatment Groups (mg/kg)

943

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)

Study Number: C02047-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Sprague Dawley

PA49: Summary of Cytochrome Activity

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

CAS Number: 21850-44-2

Date Report Requested: 04/26/2019

Time Report Requested: 07:37:30

Lab: Battelle

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 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 ****