

Study Number: C13063-01
Test Type: TOX
Route: Oral Gavage
Species/Strain: Rat/Sprague Dawley

PA49: Summary of Cytochrome Activity
Test Compound: 2-ethylhexyl-2,3,4,5-tetrabromobenzoate
CAS Number: 183658-27-7

Date Report Requested: 03/11/2019
Time Report Requested: 15:31:10
Lab: Battelle

C Number:

C13063-01

Study Gender:

Male

PWG Approval Date

See web page for date of PWG Approval

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Treatment Groups (mg/kg)

	0	0.05	0.55	5.5	55
Total Protein Concentration (mg/ml)	8.00 ± 0.79 (5)	8.21 ± 1.25 (6)	8.41 ± 0.62 (6)	8.41 ± 0.89 (6)	9.33 ± 0.49 (6)
Cytochrome P450 1A1 Concentration (ng/ml)	13.7 ± 0.8 (4)	34.2 ± 8.0 (6)	15.8 ± 1.0 (5)	27.8 ± 9.6 (6)	15.8 ± 0.6 (6)
Cytochrome P450 1A1 Tissue Concentration (ng/mg)	1.875 ± 0.102 (4)	4.750 ± 1.094 (6)	1.842 ± 0.066 (5)	3.332 ± 1.066 (6)	1.715 ± 0.120 (6)
Cytochrome P450 2B1 Concentration (ng/ml)	3.95 ± 0.25 (5)	3.32 ± 0.10 (6)	3.65 ± 0.19 (6)	3.88 ± 0.20 (6)	3.92 ± 0.26 (6)
Cytochrome P450 2B1 Tissue Concentration (ng/mg)	0.503 ± 0.032 (5)	0.379 ± 0.031 (5)	0.445 ± 0.037 (6)	0.484 ± 0.054 (6)	0.425 ± 0.034 (6)
Cytochrome P450 1A2 Concentration (ng/ml)	42.7 ± 2.7 (5)	41.7 ± 7.5 (6)	48.2 ± 4.2 (6)	40.7 ± 5.1 (6)	51.3 ± 4.3 (6)
Cytochrome P450 1A2 Tissue Concentration (ng/mg)	5.442 ± 0.386 (5)	5.118 ± 0.625 (6)	5.902 ± 0.641 (6)	4.957 ± 0.596 (6)	5.655 ± 0.709 (6)
UDP Glucuronosyltransferase 1 Concentration (ng/ml)	11287.125 ± 198.577 (4)	13978.250 ± 1948.175 (6)	16187.250 ± 2124.849 (6)	12792.583 ± 1596.482 (6)	15428.583 ± 1152.366 (6)
UDP Glucuronosyltransferase 1 Tissue Concentration (ng/mg)	1593.184 ± 80.025 (5)	1813.335 ± 244.355 (6)	1661.244 ± 87.524 (5)	1543.427 ± 186.494 (6)	1680.362 ± 162.104 (6)

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Treatment Groups (mg/kg)

550

Total Protein Concentration (mg/ml)	9.37 ± 1.68	(6)
Cytochrome P450 1A1 Concentration (ng/ml)	25.3 ± 8.1	(6)
Cytochrome P450 1A1 Tissue Concentration (ng/mg)	3.583 ± 1.454	(6)
Cytochrome P450 2B1 Concentration (ng/ml)	3.33 ± 0.10	(6)
Cytochrome P450 2B1 Tissue Concentration (ng/mg)	0.440 ± 0.107	(6)
Cytochrome P450 1A2 Concentration (ng/ml)	41.4 ± 6.2	(6)
Cytochrome P450 1A2 Tissue Concentration (ng/mg)	4.833 ± 0.765	(6)
UDP Glucuronosyltransferase 1 Concentration (ng/ml)	17277.667 ± 2292.356	(6)
UDP Glucuronosyltransferase 1 Tissue Concentration (ng/mg)	2214.796 ± 46.390	(5)

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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 Concentration in the 0 mg/kg group, one value for Cytochrome P450 1A1 Tissue Concentration in the 0 mg/kg group, one value for UDP Glucuronosyltransferase 1 Concentration in the 0 mg/kg group, one value for Cytochrome P450 2B1 Tissue Concentration in the 0.05 mg/kg group, one value for Cytochrome P450 1A1 Concentration in the 0.55 mg/kg group, one value for Cytochrome P450 1A1 Tissue Concentration in the 0.55 mg/kg group, one value for UDP Glucuronosyltransferase 1 Tissue Concentration in the 0.55 mg/kg group, and one value for UDP Glucuronosyltransferase 1 Tissue Concentration in the 550 mg/kg group were excluded because they were outliers.

**** END OF REPORT ****