

Study Number: C10672-01
Test Type: TOX
Route: Oral Gavage
Species/Strain: Rat/Sprague Dawley

PA49: Summary of Cytochrome Activity
Test Compound: Decabromodiphenyl Ether
CAS Number: 1163-19-5

Date Report Requested: 03/11/2019
Time Report Requested: 15:22:31
Lab: Battelle

C Number:

C10672-01

Study Gender:

Male

PWG Approval Date

See web page for date of PWG Approval

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Treatment Groups (mg/kg)

	0		0.1		0.959		9.59		95.9	
Total Protein Concentration (mg/ml)	8.21	± 1.21 (6) *	9.43	± 0.19 (6)	9.35	± 0.63 (6)	9.46	± 0.46 (6)	10.04	± 0.81 (6)
Cytochrome P450 1A1 Concentration (ng/ml)	18.8	± 2.2 (6) *	19.9	± 1.0 (6)	18.0	± 1.3 (6)	22.4	± 1.6 (6)	21.8	± 1.7 (6)
Cytochrome P450 1A1 Tissue Concentration (ng/mg)	2.098	± 0.104 (5)	2.112	± 0.111 (6)	2.052	± 0.037 (5)	2.373	± 0.143 (6)	2.223	± 0.205 (6)
Cytochrome P450 2B1 Concentration (ng/ml)	2.47	± 0.10 (6)	2.80	± 0.31 (6)	2.78	± 0.21 (6)	2.46	± 0.12 (6)	2.46	± 0.19 (6)
Cytochrome P450 2B1 Tissue Concentration (ng/mg)	0.353	± 0.075 (6) *	0.297	± 0.030 (6)	0.308	± 0.038 (6)	0.266	± 0.027 (6)	0.254	± 0.031 (6)
Cytochrome P450 1A2 Concentration (ng/ml)	25.7	± 5.7 (6)	43.2	± 5.0 (6)	33.4	± 5.3 (6)	43.2	± 4.5 (6)	43.0	± 2.8 (6)
Cytochrome P450 1A2 Tissue Concentration (ng/mg)	3.127	± 0.453 (6)	4.578	± 0.546 (6)	3.480	± 0.425 (6)	4.550	± 0.466 (6)	4.327	± 0.205 (6)
UDP Glucuronosyltransferase 1 Concentration (ng/ml)	11061.083	± 1851.625 (6) **	15939.083	± 713.246 (6)	16076.083	± 1586.115 (6)	17720.833	± 1132.744 (6) **	19192.000	± 1181.587 (6) **
UDP Glucuronosyltransferase 1 Tissue Concentration (ng/mg)	1333.481	± 62.450 (6) **	1695.179	± 85.595 (6) *	1707.247	± 83.514 (6) *	1882.562	± 108.587 (6) **	1941.897	± 114.874 (6) **

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Treatment Groups (mg/kg)

959

Total Protein Concentration (mg/ml)	10.80 ± 0.41 (6)
Cytochrome P450 1A1 Concentration (ng/ml)	22.0 ± 2.0 (6)
Cytochrome P450 1A1 Tissue Concentration (ng/mg)	2.057 ± 0.214 (6)
Cytochrome P450 2B1 Concentration (ng/ml)	2.32 ± 0.05 (6)
Cytochrome P450 2B1 Tissue Concentration (ng/mg)	0.217 ± 0.009 (6)
Cytochrome P450 1A2 Concentration (ng/ml)	43.1 ± 6.7 (6)
Cytochrome P450 1A2 Tissue Concentration (ng/mg)	4.025 ± 0.605 (6)
UDP Glucuronosyltransferase 1 Concentration (ng/ml)	19371.167 ± 1438.438 (6) **
UDP Glucuronosyltransferase 1 Tissue Concentration (ng/mg)	1791.413 ± 104.139 (6) **

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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 1A1 Tissue Concentration in the 0 mg/kg group and one value for Cytochrome P450 1A1 Tissue Concentration in the 0.959 mg/kg group were excluded because they were outliers.

**** END OF REPORT ****