

**Study Number:** C15003-01

**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:** Hexachlorocyclopentadienyl-dibromocyclooctane

**CAS Number:** 51936-55-1

C15003-01

Male

See web page for date of PWG Approval

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

**Time Report Requested:** 15:21:40

**Lab:** Battelle

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Male: Core Males

Treatment Groups (mg/kg)

	0	0.05	0.54	5.41	54.1
Total Protein Concentration (mg/ml)	9.90 ± 0.99 (6)	10.67 ± 1.15 (6)	9.50 ± 0.51 (6)	10.14 ± 0.84 (6)	10.10 ± 0.82 (6)
Cytochrome P450 1A1 Concentration (ng/ml)	49.7 ± 6.5 (6)	47.5 ± 9.2 (6)	46.4 ± 3.4 (6)	57.2 ± 10.1 (6)	41.8 ± 6.3 (6)
Cytochrome P450 1A1 Tissue Concentration (ng/mg)	5.095 ± 0.577 (6)	4.337 ± 0.589 (6)	4.930 ± 0.370 (6)	5.628 ± 0.889 (6)	4.068 ± 0.371 (6)
Cytochrome P450 2B1 Concentration (ng/ml)	3.50 ± 0.21 (6)	3.59 ± 0.21 (6)	3.43 ± 0.24 (6)	3.37 ± 0.22 (6)	3.82 ± 0.15 (6)
Cytochrome P450 2B1 Tissue Concentration (ng/mg)	0.376 ± 0.049 (6)	0.361 ± 0.050 (6)	0.369 ± 0.041 (6)	0.346 ± 0.037 (6)	0.394 ± 0.041 (6)
Cytochrome P450 1A2 Concentration (ng/ml)	47.8 ± 3.6 (6)	50.3 ± 6.4 (6)	39.0 ± 1.1 (5)	48.1 ± 5.6 (6)	41.1 ± 3.6 (6)
Cytochrome P450 1A2 Tissue Concentration (ng/mg)	5.125 ± 0.719 (6)	4.757 ± 0.458 (6)	3.946 ± 0.158 (5)	4.732 ± 0.363 (6)	4.080 ± 0.203 (6)
UDP Glucuronosyltransferase 1 Concentration (ng/ml)	19495.500 ± 2684.533 (6)	19156.000 ± 1408.278 (6)	16560.100 ± 551.379 (5)	16856.750 ± 2981.839 (6)	20329.167 ± 1448.137 (6)
UDP Glucuronosyltransferase 1 Tissue Concentration (ng/mg)	1987.018 ± 215.450 (6)	1837.278 ± 110.077 (6)	1926.714 ± 150.645 (6)	1635.941 ± 212.602 (6)	2044.236 ± 142.173 (6)

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**Male: Core Males**

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**Treatment Groups (mg/kg)**

**541**

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Total Protein Concentration (mg/ml)	9.77 ± 0.66	(6)
Cytochrome P450 1A1 Concentration (ng/ml)	42.8 ± 7.7	(6)
Cytochrome P450 1A1 Tissue Concentration (ng/mg)	4.618 ± 1.067	(6)
Cytochrome P450 2B1 Concentration (ng/ml)	3.62 ± 0.13	(6)
Cytochrome P450 2B1 Tissue Concentration (ng/mg)	0.378 ± 0.023	(6)
Cytochrome P450 1A2 Concentration (ng/ml)	39.5 ± 3.2	(5)
Cytochrome P450 1A2 Tissue Concentration (ng/mg)	5.252 ± 0.980	(6)
UDP Glucuronosyltransferase 1 Concentration (ng/ml)	19725.250 ± 2361.806	(6)
UDP Glucuronosyltransferase 1 Tissue Concentration (ng/mg)	1995.764 ± 126.307	(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 1A2 Concentration in the 0.54 mg/kg group, one value for Cytochrome P450 1A2 Tissue Concentration in the 0.54 mg/kg group, one value for UDP Glucuronosyltransferase 1 Concentration in the 0.54 mg/kg group, and one value for Cytochrome P450 1A2 Concentration in the 541 mg/kg group were excluded because they were outliers.

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