

**Experiment Number:** C14013-01  
**Test Type:** TOX  
**Route:** Oral Gavage  
**Species/Strain:** Rat/Harlan Sprague Dawley

**PA41: Clinical Chemistry Summary**  
Test Compound: 4-Methylcyclohexanemethanol, Crude

**Date Report Requested:** 06/03/2015  
**Time Report Requested:** 12.00.00  
**Lab:** Battelle

C Number:	C14013-01
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Male

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F0 Males							
	Treatment Groups (mg/kg)						
	0	0.1	1	10	100	300	500
Urea Nitrogen (mg/dL)	11.9 ± 0.7 (8)	12 ± 0.6 (6)	12 ± 0.5 (6)	13.4 ± 0.4 (5)	11.6 ± 0.4 (5)	13.7 ± 1.5 (6)	11.5 ± 0.8 (6)
Percent of Control		101	101	113	98	115	97
Creatinine (mg/dL)	0.49 ± 0.01 (8)*	0.52 ± 0.02 (6)	0.55 ± 0.05 (6)	0.5 ± 0 (5)	0.5 ± 0 (5)	0.52 ± 0.02 (6)	0.55 ± 0.02 (6)*
Percent of Control		106	113	103	103	106	113
Serum Glucose (mg/dL)	190.1 ± 7.6 (8)**	191.7 ± 7.6 (6)	193.7 ± 6.3 (6)	188 ± 7.8 (5)	181.2 ± 9.4 (5)	169.8 ± 6.6 (6)	164.2 ± 5.7(6)*
Percent of Control		101	102	99	95	89	86
Sodium (meq/L)	149.8 ± 0.4 (8)	149.3 ± 0.5 (6)	149.3 ± 0.3 (6)	149.4 ± 0.2 (5)	149.8 ± 0.9 (5)	149.7 ± 0.2 (6)	150.7 ± 0.5 (6)
Percent of Control		100	100	100	100	100	101
Potassium (meq/L)	6.53 ± 0.14 (8)	6.6 ± 0.25 (6)	6.53 ± 0.1 (6)	6.76 ± 0.16 (5)	6.72 ± 0.13 (5)	6.57 ± 0.22 (6)	6.45 ± 0.15 (6)
Percent of Control		101	100	104	103	101	99
Chloride (meq/L)	101.1 ± 0.6 (8)	102.3 ± 0.8 (6)	101 ± 0.4 (6)	100.8 ± 0.4 (5)	101.4 ± 0.8 (5)	100.8 ± 0.4 (6)	101.8 ± 0.5 (6)
Percent of Control		101	100	100	100	100	101
Total Protein (g/dL)	5.55 ± 0.12 (8)*	5.67 ± 0.06 (6)	5.55 ± 0.08 (6)	5.7 ± 0.1 (5)	5.78 ± 0.1 (5)	5.68 ± 0.06 (6)	5.93 ± 0.1 (6)
Percent of Control		102	100	103	104	102	107
Albumin (g/dL)	4.09 ± 0.06 (8)*	4.2 ± 0.03 (6)	4.08 ± 0.07 (6)	4.2 ± 0.1 (5)	4.2 ± 0.04 (5)	4.13 ± 0.04 (6)	4.38 ± 0.05 (6)**
Percent of Control		103	100	103	103	101	107
Total Bilirubin (mg/dL)	0.036 ± 0.006 (8)	0.035 ± 0.005 (6)	0.037 ± 0.005 (6)	0.032 ± 0.008 (5)	0.048 ± 0.008 (5)	0.037 ± 0.007 (6)	0.035 ± 0.006 (6)
Percent of Control		97	101	88	132	101	97
Direct Bilirubin (mg/dL)	0.036 ± 0.003 (8)	0.038 ± 0.003 (6)	0.037 ± 0.002 (6)	0.036 ± 0.002 (5)	0.03 ± 0 (5)	0.033 ± 0.002 (6)	0.033 ± 0.003 (6)

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F0 Males							
	Treatment Groups (mg/kg)						
	0	0.1	1	10	100	300	500
Percent of Control		106	101	99	83	92	92
Cholesterol (mg/dL)	117.5 ± 5.6 (8)	111.8 ± 5.9 (6)	121.5 ± 5.7 (6)	121.4 ± 4.8 (5)	127.2 ± 5.6 (5)	125.3 ± 3 (6)	114 ± 4 (6)
Percent of Control		95	103	103	108	107	97
Triglyceride (mg/dL)	84.5 ± 8 (8)*	87.3 ± 9.7 (6)	69.8 ± 7.2 (6)	62.4 ± 7.2 (5)	74 ± 11.6 (5)	148.3 ± 8.2 (6)*	139.8 ± 22.6 (6)
Percent of Control		103	83	74	88	176	165
Alanine Aminotransferase (IU/L)	54.5 ± 1.64 (8)	56.83 ± 2.09 (6)	59.5 ± 2.68 (6)	63.2 ± 1.77 (5)	57.4 ± 2.54 (5)	53.17 ± 2.43 (6)	60.17 ± 3.2 (6)
Percent of Control		104	109	116	105	98	110
Alkaline Phosphatase (IU/L)	346 ± 13.5 (8)	384.2 ± 26.6 (6)	356.8 ± 17.2 (6)	395.6 ± 19.1 (5)	379.6 ± 17.5 (5)	356.8 ± 14.4 (6)	330.5 ± 18.6 (6)
Percent of Control		111	103	114	110	103	96
Creatinine Kinase (U/L)	159.4 ± 8.6 (8)	167 ± 12.8 (6)	171.5 ± 7.7 (6)	164.8 ± 9.6 (5)	145.2 ± 11.5 (5)	159.3 ± 9.6 (6)	160 ± 9.4 (6)
Percent of Control		105	108	103	91	100	100
Sorbitol Dehydrogenase (IU/L)	11.9 ± 1.2 (8)*	12.3 ± 1.5 (6)	12.7 ± 1.1 (6)	10.5 ± 0.8 (5)	8.6 ± 0.9 (5)	11 ± 0.8 (6)	9.2 ± 0.2 (6)
Percent of Control		103	106	88	72	92	77
Bile Acids (umol/L)	44.4 ± 4.2 (8)	37.7 ± 3.6 (6)	46.5 ± 4.1 (6)	46.4 ± 2.5 (5)	58.6 ± 8.7 (5)	46.8 ± 14.5 (6)	31.8 ± 6.2 (6)
Percent of Control		85	105	105	132	106	72

Values given as mean ± SEM (N) with Percent of Control calculated by (dosed group mean / control group mean) x 100

Statistical analysis performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests

Statistical significance for the control group indicates a significant trend test

\*Statistically significant at P<0.05; \*\*Statistically significant at P<0.01