

**Experiment Number:** C14001-01  
**Test Type:** TOX  
**Route:** Oral Gavage  
**Species/Strain:** Rat/Harlan Sprague Dawley

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

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

C Number:	C14001-01
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)	11.7 ± 0.6 (7)	11.8 ± 0.5 (6)	12 ± 1 (6)	12 ± 0.7 (6)	10.8 ± 0.6 (5)	12.7 ± 0.9 (6)	13.7 ± 0.7 (6)
Percent of Control		101	102	102	92	108	117
Creatinine (mg/dL)	0.51 ± 0.01 (7)	0.55 ± 0.05 (6)	0.5 ± 0 (6)	0.53 ± 0.03 (6)	0.52 ± 0.02 (5)	0.52 ± 0.02 (6)	0.55 ± 0.02 (6)
Percent of Control		107	97	104	101	100	107
Serum Glucose (mg/dL)	173.4 ± 10 (7)*	182.3 ± 8.6 (6)	187.7 ± 4.7 (6)	184.5 ± 3.1 (6)	187.2 ± 6.3 (5)	164 ± 2.1 (6)	158.3 ± 10.3 (6)
Percent of Control		105	108	106	108	95	91
Sodium (meq/L)	147.1 ± 0.7 (7)	146.8 ± 0.5 (6)	147.7 ± 0.4 (6)	147.7 ± 0.2 (6)	147.2 ± 0.2 (5)	148.3 ± 0.7 (6)	147.8 ± 0.6 (6)
Percent of Control		100	100	100	100	101	100
Potassium (meq/L)	6.6 ± 0.11 (7)	6.57 ± 0.18 (6)	6.62 ± 0.15 (6)	6.47 ± 0.16 (6)	6.62 ± 0.35 (5)	6.32 ± 0.18 (6)	6.62 ± 0.1 (6)
Percent of Control		99	100	98	100	96	100
Chloride (meq/L)	99.9 ± 0.5 (7)	99.8 ± 0.6 (6)	100.3 ± 0.7 (6)	99 ± 0.7 (6)	99.4 ± 0.4 (5)	99.8 ± 0.3 (6)	100.3 ± 0.6 (6)
Percent of Control		100	100	99	100	100	100
Total Protein (g/dL)	5.71 ± 0.1 (7)	5.47 ± 0.06 (6)	5.57 ± 0.1 (6)	5.47 ± 0.11 (6)	5.58 ± 0.1 (5)	5.77 ± 0.09 (6)	5.87 ± 0.19 (6)
Percent of Control		96	97	96	98	101	103
Albumin (g/dL)	4.2 ± 0.05 (7)	3.98 ± 0.04 (6)	4.05 ± 0.07 (6)	4.05 ± 0.07 (6)	4.16 ± 0.09 (5)	4.17 ± 0.07 (6)	4.32 ± 0.12 (6)
Percent of Control		95	96	96	99	99	103
Total Bilirubin (mg/dL)	0.043 ± 0.006 (7)	0.032 ± 0.005 (6)	0.033 ± 0.003 (6)	0.033 ± 0.006 (6)	0.042 ± 0.012 (5)	0.032 ± 0.007 (6)	0.028 ± 0.007 (6)
Percent of Control		74	78	78	98	74	66
Direct Bilirubin (mg/dL)	0.029 ± 0.003 (7)	0.028 ± 0.002 (6)	0.027 ± 0.002 (6)	0.028 ± 0.003 (6)	0.032 ± 0.004 (5)	0.033 ± 0.002 (6)	0.028 ± 0.002 (6)
Percent of Control		99	93	99	112	117	99

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	F0 Males						
	Treatment Groups (mg/kg)						
	0	0.1	1	10	100	300	500
Cholesterol (mg/dL)	113.6 ± 5.1 (7)	128.7 ± 3.8 (6)	127.8 ± 6.2 (6)	123.7 ± 2.3 (6)	125.4 ± 6.1 (5)	119.3 ± 5.3 (6)	110.2 ± 7 (6)
Percent of Control		113	113	109	110	105	97
Triglyceride (mg/dL)	83.6 ± 7.1 (7)**	87.3 ± 15 (6)	73.8 ± 6.1 (6)	52.8 ± 5.5 (6)	83 ± 9.4 (5)	132.5 ± 21.1 (6)	171.5 ± 28.8 (6)*
Percent of Control		105	88	63	99	159	205
Alanine Aminotransferase (IU/L)	69.57 ± 0.84 (7)	56.67 ± 1.89 (6)*	57.33 ± 3.62 (6)	59.17 ± 3.05 (6)	64.4 ± 2.86 (5)	59.33 ± 4.2 (6)	77.33 ± 1.74 (6)
Percent of Control		81	82	85	93	85	111
Alkaline Phosphatase (IU/L)	395.7 ± 17.3 (7)	353.2 ± 18.9 (6)	354.2 ± 14.8 (6)	290.7 ± 15.7 (6)**	395.8 ± 29 (5)	335.3 ± 7.9 (6)	385 ± 26.7 (6)
Percent of Control		89	90	73	100	85	97
Creatinine Kinase (U/L)	204.3 ± 22.8 (7)*	170.7 ± 12.1 (6)	167.8 ± 6.2 (6)	176.3 ± 8 (6)	157.4 ± 5.7 (5)	162.3 ± 16.2 (6)	153.5 ± 9.3 (6)
Percent of Control		84	82	86	77	79	75
Sorbitol Dehydrogenase (IU/L)	10.8 ± 2 (7)	10.6 ± 1.8 (6)	10.3 ± 0.5 (6)	12 ± 1.7 (6)	10.9 ± 0.9 (5)	8.4 ± 1 (6)	12.7 ± 2 (6)
Percent of Control		99	96	111	101	78	118
Bile Acids (umol/L)	40.4 ± 8 (7)	23.7 ± 2.6 (6)	29.7 ± 2 (6)	23.8 ± 7 (6)	36.8 ± 5.6 (5)	30.7 ± 2.1 (6)	27.2 ± 4.6 (6)
Percent of Control		59	73	59	91	76	67

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