

Study Number: C02047-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Sprague Dawley

C Number:

Study Gender:

PWG Approval Date

PA41: Clinical Chemistry Summary

Test Compound: Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)

CAS Number: 21850-44-2

C02047-01

Male

See web page for date of PWG Approval

Date Report Requested: 04/26/2019

Time Report Requested: 07:37:25

Lab: Battelle

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	Phase Day	Treatment Groups (mg/kg)				
		0	0.1	0.94	9.4	94.3
Urea Nitrogen (mg/dL)	SD 5	11.7 ± 0.8 (6)	12.5 ± 0.2 (6)	12.5 ± 0.7 (6)	12.4 ± 0.2 (5)	12.5 ± 0.8 (6)
Percent of Control			107.1	107.1	106.3	107.1
Creatinine (mg/dL)	SD 5	0.35 ± 0.02 (6)	0.38 ± 0.02 (5)	0.38 ± 0.02 (6)	0.37 ± 0.02 (6)	0.35 ± 0.02 (6)
Percent of Control			108.57	109.52	104.76	100.00
Glucose (mg/dL)	SD 5	218.8 ± 14.2 (6) **	210.3 ± 15.7 (6)	224.8 ± 15.0 (6)	249.2 ± 5.3 (5)	237.7 ± 7.6 (6)
Percent of Control			96.1	102.7	113.9	108.6
Sodium (mmol/L)	SD 5	147.3 ± 0.9 (6)	146.8 ± 0.7 (6)	147.8 ± 0.3 (6)	147.3 ± 0.5 (6)	147.7 ± 0.6 (6)
Percent of Control			99.7	100.3	100.0	100.2
Potassium (mmol/L)	SD 5	6.8 ± 0.2 (6)	7.5 ± 0.4 (6)	6.9 ± 0.2 (6)	7.7 ± 0.4 (6)	7.1 ± 0.2 (6)
Percent of Control			109.8	101.5	112.7	104.9
Chloride (mmol/L)	SD 5	99.8 ± 0.6 (6)	99.3 ± 0.8 (6)	100.0 ± 0.3 (6)	99.5 ± 0.6 (6)	100.7 ± 0.5 (6)
Percent of Control			99.5	100.2	99.7	100.8
Total Protein (g/dL)	SD 5	5.95 ± 0.06 (6)	6.30 ± 0.15 (6)	6.30 ± 0.07 (5)	6.23 ± 0.10 (6)	5.90 ± 0.03 (6)
Percent of Control			105.88	105.88	104.76	99.16
Globulin (g/dL)	SD 5	1.55 ± 0.06 (6)	1.75 ± 0.11 (6)	1.72 ± 0.06 (5)	1.78 ± 0.11 (6)	1.55 ± 0.03 (6)
Percent of Control			112.90	110.97	115.05	100.00
A/G Ratio	SD 5	2.86 ± 0.12 (6)	2.64 ± 0.12 (6)	2.68 ± 0.10 (5)	2.55 ± 0.17 (6)	2.81 ± 0.07 (6)
Percent of Control			92.10	93.49	88.99	98.30
Albumin (g/dL)	SD 5	4.40 ± 0.04 (6)	4.55 ± 0.06 (6)	4.58 ± 0.04 (5)	4.45 ± 0.08 (6)	4.35 ± 0.02 (6)
Percent of Control			103.41	104.09	101.14	98.86
Cholesterol (mg/dL)	SD 5	133.2 ± 3.8 (6)	151.3 ± 11.3 (6)	147.7 ± 6.7 (6)	153.2 ± 7.9 (6)	125.8 ± 5.4 (6)
Percent of Control			113.6	110.9	115.0	94.5

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	Phase Day	Treatment Groups (mg/kg)				
		0	0.1	0.94	9.4	94.3
Triglyceride (mg/dL)	SD 5	70.7 ± 4.4 (6)	85.7 ± 11.2 (6)	84.8 ± 7.4 (6)	71.7 ± 7.9 (6)	82.5 ± 8.2 (6)
Percent of Control			121.2	120.0	101.4	116.7
Alanine Aminotransferase (IU/L)	SD 5	55.8 ± 2.3 (6) **	59.2 ± 2.7 (6)	52.3 ± 2.8 (6)	79.8 ± 15.2 (6) *	66.8 ± 3.4 (6) *
Percent of Control			106.0	93.7	143.0	119.7
Creatine Kinase (IU/L)	SD 5	178.2 ± 6.2 (6) **	199.3 ± 16.8 (6)	190.3 ± 7.5 (6)	224.0 ± 12.9 (6) **	214.8 ± 4.0 (6) **
Percent of Control			111.9	106.8	125.7	120.6
Sorbitol Dehydrogenase (IU/L)	SD 5	10.0 ± 1.5 (6)	7.4 ± 0.9 (6)	10.1 ± 1.1 (5)	19.2 ± 10.4 (6)	8.8 ± 0.5 (6)
Percent of Control			73.8	101.0	192.0	87.5
Bile salt/acids (umol/L)	SD 5	39.0 ± 8.5 (6)	43.5 ± 14.9 (6)	44.7 ± 11.5 (6)	27.8 ± 11.4 (6)	49.5 ± 4.5 (6)
Percent of Control			111.5	114.5	71.4	126.9

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	Phase Day	Treatment Groups 943
Urea Nitrogen (mg/dL)	SD 5	12.7 ± 0.9 (6)
Percent of Control		108.6
Creatinine (mg/dL)	SD 5	0.38 ± 0.02 (6)
Percent of Control		109.52
Glucose (mg/dL)	SD 5	258.7 ± 9.4 (6) *
Percent of Control		118.2
Sodium (mmol/L)	SD 5	146.3 ± 0.3 (6)
Percent of Control		99.3
Potassium (mmol/L)	SD 5	7.6 ± 0.4 (6)
Percent of Control		112.5
Chloride (mmol/L)	SD 5	100.3 ± 0.6 (6)
Percent of Control		100.5
Total Protein (g/dL)	SD 5	6.22 ± 0.08 (6)
Percent of Control		104.48
Globulin (g/dL)	SD 5	1.63 ± 0.04 (6)
Percent of Control		105.38
A/G Ratio	SD 5	2.82 ± 0.09 (6)
Percent of Control		98.39
Albumin (g/dL)	SD 5	4.58 ± 0.08 (6)
Percent of Control		104.17
Cholesterol (mg/dL)	SD 5	138.0 ± 6.4 (6)
Percent of Control		103.6

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	Phase Day	Treatment Groups
		943
Triglyceride (mg/dL)	SD 5	74.7 ± 8.7 (6)
Percent of Control		105.7
Alanine Aminotransferase (IU/L)	SD 5	75.2 ± 2.9 (6) **
Percent of Control		134.6
Creatine Kinase (IU/L)	SD 5	215.3 ± 8.1 (6) **
Percent of Control		120.9
Sorbitol Dehydrogenase (IU/L)	SD 5	7.9 ± 0.3 (6)
Percent of Control		78.5
Bile salt/acids (umol/L)	SD 5	41.0 ± 4.3 (6)
Percent of Control		105.1

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LEGEND

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

SD – Study Day

Statistical analysis performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests (unless otherwise noted).

Statistical significance for the control group indicates a significant trend test

Statistical significance for a treatment group indicates a significant pairwise test compared to the vehicle control group

* Statistically significant at $P \leq 0.05$

** Statistically significant at $P \leq 0.01$

One value for Creatinine in the 0.1 mg/kg group was excluded. One value each for Albumin, Total Protein, Globulin, A/G Ratio and Sorbitol Dehydrogenase in the 0.94 group were excluded. One value for Glucose in the 9.4 mg/kg group was excluded.

**** END OF REPORT ****