

Study Number: C10672-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Sprague Dawley

C Number:

Study Gender:

PWG Approval Date

PA41: Clinical Chemistry Summary

Test Compound: Decabromodiphenyl Ether

CAS Number: 1163-19-5

C10672-01

Male

See web page for date of PWG Approval

Date Report Requested: 04/08/2019

Time Report Requested: 14:44:04

Lab: Battelle

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	Phase Day	Treatment Groups (mg/kg)				
		0	0.1	0.959	9.59	95.9
Urea Nitrogen (mg/dL)	SD 5	10.3 ± 0.7 (6)	10.8 ± 0.9 (4)	14.2 ± 0.2 (6) **	12.7 ± 0.7 (6)	11.2 ± 0.4 (6)
Percent of Control			104.0	137.1	122.6	108.1
Creatinine (mg/dL)	SD 5	0.43 ± 0.02 (6) *	0.40 ± 0.00 (5)	0.42 ± 0.02 (5)	0.40 ± 0.00 (6)	0.38 ± 0.02 (6)
Percent of Control			92.31	96.92	92.31	88.46
Glucose (mg/dL)	SD 5	247.7 ± 18.9 (6)	232.5 ± 13.7 (4)	245.7 ± 14.3 (6)	239.0 ± 15.0 (6)	216.5 ± 10.7 (6)
Percent of Control			93.9	99.2	96.5	87.4
Sodium (mmol/L)	SD 5	147.2 ± 0.4 (6)	148.2 ± 0.6 (6)	147.8 ± 0.7 (6)	147.8 ± 0.3 (6)	148.3 ± 0.8 (6)
Percent of Control			100.7	100.5	100.5	100.8
Potassium (mmol/L)	SD 5	7.3 ± 0.3 (6)	7.4 ± 0.3 (6)	7.5 ± 0.3 (6)	7.1 ± 0.3 (6)	7.2 ± 0.4 (6)
Percent of Control			100.7	102.7	97.0	97.9
Chloride (mmol/L)	SD 5	99.7 ± 0.4 (6)	100.2 ± 0.5 (6)	100.3 ± 0.6 (6)	100.2 ± 0.8 (6)	100.5 ± 0.5 (6)
Percent of Control			100.5	100.7	100.5	100.8
Total Protein (g/dL)	SD 5	6.05 ± 0.11 (6)	5.88 ± 0.26 (4)	6.02 ± 0.09 (6)	5.97 ± 0.15 (6)	5.88 ± 0.21 (5)
Percent of Control			97.11	99.45	98.62	97.19
Globulin (g/dL)	SD 5	1.67 ± 0.07 (6)	1.68 ± 0.21 (4)	1.67 ± 0.07 (6)	1.65 ± 0.07 (6)	1.66 ± 0.11 (5)
Percent of Control			100.50	100.00	99.00	99.60
A/G Ratio	SD 5	2.65 ± 0.09 (6)	2.61 ± 0.29 (4)	2.63 ± 0.12 (6)	2.63 ± 0.07 (6)	2.57 ± 0.11 (5)
Percent of Control			98.65	99.45	99.32	97.10
Albumin (g/dL)	SD 5	4.38 ± 0.05 (6)	4.32 ± 0.09 (6)	4.35 ± 0.08 (6)	4.32 ± 0.09 (6)	4.23 ± 0.09 (6)
Percent of Control			98.48	99.24	98.48	96.58
Cholesterol (mg/dL)	SD 5	151.3 ± 10.0 (6)	137.0 ± 14.1 (5)	138.8 ± 4.5 (5)	135.2 ± 9.7 (6)	144.3 ± 7.0 (6)
Percent of Control			90.5	91.7	89.3	95.4

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	Phase Day	Treatment Groups (mg/kg)				
		0	0.1	0.959	9.59	95.9
Triglyceride (mg/dL)	SD 5	75.5 ± 12.6 (6)	87.8 ± 14.4 (5)	100.2 ± 17.5 (6)	94.7 ± 3.6 (6)	91.2 ± 10.1 (6)
Percent of Control			116.3	132.7	125.4	120.8
Alanine Aminotransferase (IU/L)	SD 5	63.0 ± 4.0 (6)	64.0 ± 1.8 (6)	71.5 ± 5.0 (6)	61.3 ± 3.3 (6)	66.2 ± 3.6 (6)
Percent of Control			101.6	113.5	97.4	105.0
Creatine Kinase (IU/L)	SD 5	221.0 ± 24.5 (6)	226.0 ± 25.5 (5)	181.8 ± 11.9 (6)	185.2 ± 13.6 (6)	235.2 ± 43.8 (6)
Percent of Control			102.3	82.3	83.8	106.4
Sorbitol Dehydrogenase (IU/L)	SD 5	8.7 ± 1.0 (6)	11.5 ± 1.3 (4)	7.9 ± 1.1 (6)	9.5 ± 1.2 (6)	8.6 ± 1.8 (6)
Percent of Control			131.7	90.3	108.6	98.3
Bile salt/acids (umol/L)	SD 5	55.0 ± 11.3 (6) *	54.4 ± 9.1 (5)	47.0 ± 7.9 (6)	34.5 ± 3.0 (6)	30.2 ± 4.3 (5)
Percent of Control			98.9	85.5	62.7	54.9

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	Phase Day	Treatment Groups
		959
Urea Nitrogen (mg/dL)	SD 5	12.8 ± 0.5 (4)
Percent of Control		123.4
Creatinine (mg/dL)	SD 5	0.40 ± 0.00 (5)
Percent of Control		92.31
Glucose (mg/dL)	SD 5	248.8 ± 8.3 (4)
Percent of Control		100.4
Sodium (mmol/L)	SD 5	147.8 ± 0.3 (6)
Percent of Control		100.5
Potassium (mmol/L)	SD 5	7.3 ± 0.1 (6)
Percent of Control		99.3
Chloride (mmol/L)	SD 5	100.5 ± 0.6 (6)
Percent of Control		100.8
Total Protein (g/dL)	SD 5	6.28 ± 0.13 (4)
Percent of Control		103.72
Globulin (g/dL)	SD 5	1.78 ± 0.10 (4)
Percent of Control		106.50
A/G Ratio	SD 5	2.56 ± 0.13 (4)
Percent of Control		96.68
Albumin (g/dL)	SD 5	4.43 ± 0.07 (6)
Percent of Control		101.14
Cholesterol (mg/dL)	SD 5	180.4 ± 10.2 (5)
Percent of Control		119.2

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	Phase Day	Treatment Groups
		959
Triglyceride (mg/dL)	SD 5	88.5 ± 16.0 (4)
Percent of Control		117.2
Alanine Aminotransferase (IU/L)	SD 5	65.0 ± 1.7 (6)
Percent of Control		103.2
Creatine Kinase (IU/L)	SD 5	195.4 ± 14.5 (5)
Percent of Control		88.4
Sorbitol Dehydrogenase (IU/L)	SD 5	6.0 ± 1.3 (4)
Percent of Control		69.0
Bile salt/acids (umol/L)	SD 5	41.0 ± 7.4 (4)
Percent of Control		74.5

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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 each for A/G Ratio, Bile salts/acids, Cholesterol, Creatine Kinase, Creatinine, Globulin, Total Protein, Triglycerides, Urea Nitrogen and two values each for Glucose and Sorbitol Dehydrogenase in the 0.1 mg/kg group were excluded. One value for Cholesterol in the 0.959 mg/kg group was excluded. One value each for A/G Ratio, Bile salts/acids, Globulin, and Total Protein in the 95.9 mg/kg group were excluded. One value each for A/G Ratio, Bile salts/acids, Cholesterol, Creatine Kinase, Creatinine, Globulin, Glucose, Sorbitol Dehydrogenase, Total Protein, Triglycerides, and Urea Nitrogen in the 959 mg/kg group were excluded.

**** END OF REPORT ****