

Study Number: C11054B-01
Test Type: TOX
Route: Dosing in Water
Species/Strain: Rat/Harlan Sprague Dawley

PA41: Clinical Chemistry Summary (Interim Animals)
Test Compound: Sulfolane
CAS Number: 126-33-0

Date Report Requested: 07/22/2021
Time Report Requested: 13:46:53
Lab: Battelle

Study Number: C11054B-01
Study Sex: Both
PWG Approval Date: See web page for date of PWG Approval
Version: v1.2.7
Stat Version: S

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Lab: Battelle with CRL

F1 Male: F1 Interim Animals

	Phase Day	Treatment Groups (mg/L)				
		0	30	100	300	1000
Urea Nitrogen (mg/dL)	PND 125 - 128	17.8 ± 0.7 (10)	18.0 ± 0.8 (10)	17.2 ± 0.6 (10)	16.9 ± 0.5 (10)	17.3 ± 0.5 (10)
Percent of Control			101.1	96.6	94.9	97.2
Creatinine (mg/dL)	PND 125 - 128	0.40 ± 0.01 (10) **	0.38 ± 0.02 (10)	0.40 ± 0.01 (10)	0.36 ± 0.02 (10)	0.33 ± 0.02 (10) **
Percent of Control			95.0	100.0	90.0	82.5
Glucose (mg/dL)	PND 125 - 128	148.0 ± 14.0 (10)	133.7 ± 6.4 (10)	128.7 ± 5.0 (10)	127.9 ± 3.3 (10)	141.3 ± 9.0 (10)
Percent of Control			90.3	87.0	86.4	95.5
Total Protein (g/dL)	PND 125 - 128	6.84 ± 0.10 (10)	6.72 ± 0.10 (10)	6.70 ± 0.08 (10)	6.85 ± 0.07 (10)	6.64 ± 0.05 (10)
Percent of Control			98.2	98.0	100.1	97.1
Globulin (g/dL)	PND 125 - 128	2.56 ± 0.04 (10)	2.45 ± 0.08 (10)	2.34 ± 0.06 (10) *	2.46 ± 0.05 (10)	2.49 ± 0.07 (10)
Percent of Control			95.7	91.4	96.1	97.3
A/G Ratio	PND 125 - 128	1.67 ± 0.04 (10)	1.76 ± 0.06 (10)	1.87 ± 0.05 (10) *	1.79 ± 0.03 (10)	1.68 ± 0.07 (10)
Percent of Control			105.0	111.9	106.9	100.6
Albumin (g/dL)	PND 125 - 128	4.28 ± 0.09 (10)	4.27 ± 0.05 (10)	4.36 ± 0.03 (10)	4.39 ± 0.03 (10)	4.15 ± 0.07 (10)
Percent of Control			99.8	101.9	102.6	97.0
Cholesterol (mg/dL)	PND 125 - 128	147.9 ± 7.0 (10)	149.1 ± 6.8 (10)	139.8 ± 5.3 (10)	143.2 ± 4.8 (10)	155.0 ± 9.2 (10)
Percent of Control			100.8	94.5	96.8	104.8
Triglyceride (mg/dL)	PND 125 - 128	163.3 ± 21.1 (10)	123.4 ± 14.6 (10)	140.6 ± 20.7 (10)	129.6 ± 12.1 (10)	162.1 ± 20.4 (10)
Percent of Control			75.6	86.1	79.4	99.3

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Lab: Battelle with CRL

F1 Male: F1 Interim Animals

	Phase Day	Treatment Groups (mg/L)				
		0	30	100	300	1000
Alanine Aminotransferase (IU/L)	PND 125 - 128	63.2 ± 4.9 (10)	58.3 ± 8.1 (10)	62.2 ± 8.0 (10)	60.9 ± 7.1 (10)	57.2 ± 5.5 (10)
Percent of Control			92.2	98.4	96.4	90.5
Alkaline Phosphatase (IU/L)	PND 125 - 128	183.3 ± 8.4 (10)	181.8 ± 8.1 (10)	184.2 ± 7.7 (10)	182.0 ± 11.2 (10)	172.4 ± 9.3 (10)
Percent of Control			99.2	100.5	99.3	94.1
Creatine Kinase (IU/L)	PND 125 - 128	281.5 ± 42.7 (10)	373.3 ± 72.6 (10)	406.7 ± 51.3 (10)	267.3 ± 32.2 (10)	322.2 ± 70.6 (10)
Percent of Control			132.6	144.5	95.0	114.5
Sorbitol Dehydrogenase (IU/L)	PND 125 - 128	26.5 ± 2.8 (10)	25.8 ± 7.9 (10)	33.9 ± 6.6 (10)	24.1 ± 5.3 (10)	25.3 ± 4.8 (10)
Percent of Control			97.5	128.0	90.9	95.6
Bile salt/acids (μmol/L)	PND 125 - 128	37.5 ± 3.8 (10)	39.7 ± 3.1 (10)	40.4 ± 4.0 (10)	43.6 ± 6.8 (10)	37.8 ± 5.0 (10)
Percent of Control			105.9	107.7	116.3	100.8

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Lab: Battelle with CRL

F1 Female: F1 Interim Animals

	Phase Day	Treatment Groups (mg/L)				
		0	30	100	300	1000
Urea Nitrogen (mg/dL)	PND 125 - 128	18.3 ± 0.6 (10)	17.7 ± 0.6 (10)	18.2 ± 0.4 (10)	17.2 ± 0.6 (10)	18.5 ± 0.7 (10)
Percent of Control			96.7	99.5	94.0	101.1
Creatinine (mg/dL)	PND 125 - 128	0.44 ± 0.02 (10)	0.44 ± 0.02 (10)	0.41 ± 0.01 (10)	0.44 ± 0.02 (10)	0.41 ± 0.02 (10)
Percent of Control			100.0	93.2	100.0	93.2
Glucose (mg/dL)	PND 125 - 128	135.9 ± 7.3 (10)	141.8 ± 4.5 (10)	144.8 ± 8.9 (10)	141.3 ± 7.2 (10)	150.6 ± 6.7 (10)
Percent of Control			104.3	106.5	104.0	110.8
Total Protein (g/dL)	PND 125 - 128	7.01 ± 0.11 (10)	6.91 ± 0.12 (10)	6.76 ± 0.12 (10)	6.80 ± 0.11 (10)	6.82 ± 0.10 (10)
Percent of Control			98.6	96.4	97.0	97.3
Globulin (g/dL)	PND 125 - 128	2.08 ± 0.04 (10)	2.01 ± 0.07 (10)	2.05 ± 0.07 (10)	2.01 ± 0.07 (10)	2.00 ± 0.05 (10)
Percent of Control			96.6	98.6	96.6	96.2
A/G Ratio	PND 125 - 128	2.37 ± 0.03 (10)	2.46 ± 0.08 (10)	2.31 ± 0.06 (10)	2.40 ± 0.07 (10)	2.42 ± 0.05 (10)
Percent of Control			103.6	97.5	101.3	101.9
Albumin (g/dL)	PND 125 - 128	4.93 ± 0.08 (10)	4.90 ± 0.08 (10)	4.71 ± 0.06 (10)	4.79 ± 0.07 (10)	4.82 ± 0.06 (10)
Percent of Control			99.4	95.5	97.2	97.8
Cholesterol (mg/dL)	PND 125 - 128	137.5 ± 6.4 (10)	130.3 ± 4.5 (10)	122.2 ± 6.1 (10)	123.2 ± 7.6 (10)	127.8 ± 4.9 (10)
Percent of Control			94.8	88.9	89.6	92.9
Triglyceride (mg/dL)	PND 125 - 128	69.7 ± 7.5 (10)	103.4 ± 12.8 (10)	90.5 ± 13.7 (10)	103.8 ± 15.7 (10)	81.7 ± 8.7 (10)
Percent of Control			148.4	129.8	148.9	117.2

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	Phase Day	Treatment Groups (mg/L)				
		0	30	100	300	1000
Alanine Aminotransferase (IU/L)	PND 125 - 128	46.5 ± 1.6 (10)	45.8 ± 1.8 (10)	39.8 ± 1.8 (10)	45.0 ± 2.4 (10)	48.9 ± 2.5 (10)
Percent of Control			98.5	85.6	96.8	105.2
Alkaline Phosphatase (IU/L)	PND 125 - 128	152.0 ± 7.8 (10)	142.0 ± 5.4 (10)	159.5 ± 9.3 (10)	148.5 ± 8.2 (10)	157.0 ± 6.2 (10)
Percent of Control			93.4	104.9	97.7	103.3
Creatine Kinase (IU/L)	PND 125 - 128	197.3 ± 26.2 (10)	232.9 ± 36.1 (10)	168.6 ± 38.2 (10)	239.4 ± 29.6 (10)	249.0 ± 42.6 (10)
Percent of Control			118.0	85.5	121.3	126.2
Sorbitol Dehydrogenase (IU/L)	PND 125 - 128	17.3 ± 1.5 (10)	15.9 ± 1.4 (10)	14.1 ± 1.7 (10)	16.9 ± 2.5 (10)	20.8 ± 5.0 (10)
Percent of Control			91.5	81.4	97.7	120.0
Bile salt/acids (μmol/L)	PND 125 - 128	37.0 ± 6.8 (10)	31.5 ± 6.8 (10)	39.8 ± 4.7 (10)	36.0 ± 5.2 (10)	41.9 ± 7.9 (10)
Percent of Control			85.1	107.6	97.3	113.2

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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

PND - Postnatal Day, adults post-weaning

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

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 $P \leq 0.01$

**** END OF REPORT ****