

Study Number: C11054-03
Test Type: TOX
Route: Oral Gavage
Species/Strain: Guinea Pig/Hartley

PA41: Clinical Chemistry Summary
Test Compound: Sulfolane
CAS Number: 126-33-0

Date Report Requested: 11/14/2018
Time Report Requested: 06:05:14
Lab: Battelle

C Number:

C11054-03

Study Gender:

Both

PWG Approval Date

See web page for date of PWG Approval

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Male: Male Core

	Phase Day	Treatment Groups (mg/kg)				
		0	1	10	30	100
Urea Nitrogen (mg/dL)	SD 29	22.5 ± 0.5 (20) **	22.0 ± 0.7 (10)	21.1 ± 0.8 (10)	21.0 ± 0.6 (10)	20.5 ± 0.6 (10) *
Percent of Control			98.0	94.0	94.0	91.0
Creatinine (mg/dL)	SD 29	0.60 ± 0.01 (20)	0.60 ± 0.01 (10)	0.58 ± 0.02 (10)	0.61 ± 0.01 (10)	0.57 ± 0.02 (10)
Percent of Control			101.00	97.00	103.00	96.00
Glucose (mg/dL)	SD 29	152.1 ± 6.8 (20)	156.3 ± 4.8 (10)	154.6 ± 5.6 (10)	157.6 ± 7.8 (10)	163.1 ± 14.4 (10)
Percent of Control			103.0	102.0	104.0	107.0
Total Protein (g/dL)	SD 29	4.80 ± 0.06 (20)	4.75 ± 0.05 (10)	4.80 ± 0.08 (10)	4.89 ± 0.15 (10)	4.72 ± 0.11 (10)
Percent of Control			99.00	100.00	102.00	98.00
Albumin (g/dL)	SD 29	2.95 ± 0.04 (20)	2.89 ± 0.03 (10)	2.96 ± 0.05 (10)	2.93 ± 0.08 (10)	2.84 ± 0.07 (10)
Percent of Control			98.00	100.00	99.00	96.00
Cholesterol (mg/dL)	SD 29	38.3 ± 2.0 (20)	34.5 ± 2.8 (10)	32.9 ± 2.1 (10)	37.8 ± 3.5 (10)	36.8 ± 4.1 (10)
Percent of Control			90.0	86.0	99.0	96.0
Triglyceride (mg/dL)	SD 29	67.4 ± 4.5 (20)	77.4 ± 7.2 (10)	75.8 ± 8.5 (10)	88.7 ± 28.7 (10)	83.8 ± 14.0 (10)
Percent of Control			115.0	112.0	132.0	124.0
Alanine Aminotransferase (IU/L)	SD 29	55.55 ± 4.76 (20)	56.00 ± 5.12 (10)	51.40 ± 3.98 (10)	52.90 ± 3.78 (10)	53.20 ± 3.18 (10)
Percent of Control			101.00	93.00	95.00	96.00
Alkaline Phosphatase (IU/L)	SD 29	221.6 ± 6.9 (20)	214.2 ± 8.2 (10)	242.0 ± 17.0 (10)	238.2 ± 24.5 (10)	244.2 ± 21.2 (10)
Percent of Control			97.0	109.0	107.0	110.0
Creatine Kinase (IU/L)	SD 29	533.5 ± 59.7 (20)	681.8 ± 96.9 (10)	1656.3 ± 712.7 (10)	524.3 ± 72.1 (10)	1000.6 ± 309.6 (10)
Percent of Control			128.0	310.0	98.0	188.0
Sorbitol Dehydrogenase (IU/L)	SD 29	141.7 ± 24.3 (20)	126.5 ± 27.9 (10)	113.5 ± 18.9 (10)	127.0 ± 19.7 (10)	110.9 ± 19.4 (10)
Percent of Control			89.0	80.0	90.0	78.0

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		Treatment Groups (mg/kg)				
	Phase Day	0	1	10	30	100
Bile salt/acids (μmol/L)	SD 29	35.6 ± 2.7 (20)	30.6 ± 6.2 (10)	29.8 ± 4.9 (10)	30.9 ± 5.8 (10)	29.3 ± 4.4 (10)
Percent of Control			86.0	84.0	87.0	82.0

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		Treatment Groups
	Phase Day	300
Urea Nitrogen (mg/dL)	SD 29	20.7 ± 0.9 (9) *
Percent of Control		92.0
Creatinine (mg/dL)	SD 29	0.59 ± 0.01 (10)
Percent of Control		99.00
Glucose (mg/dL)	SD 29	158.2 ± 6.2 (10)
Percent of Control		104.0
Total Protein (g/dL)	SD 29	4.79 ± 0.09 (10)
Percent of Control		100.00
Albumin (g/dL)	SD 29	2.92 ± 0.04 (10)
Percent of Control		99.00
Cholesterol (mg/dL)	SD 29	36.9 ± 2.5 (10)
Percent of Control		96.0
Triglyceride (mg/dL)	SD 29	61.7 ± 4.9 (10)
Percent of Control		92.0
Alanine Aminotransferase (IU/L)	SD 29	61.50 ± 5.32 (10)
Percent of Control		111.00
Alkaline Phosphatase (IU/L)	SD 29	259.9 ± 19.7 (10)
Percent of Control		117.0
Creatine Kinase (IU/L)	SD 29	424.7 ± 40.2 (10)
Percent of Control		80.0
Sorbitol Dehydrogenase (IU/L)	SD 29	178.7 ± 36.5 (9)
Percent of Control		126.0

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	Phase Day	Treatment Groups
Bile salt/acids ($\mu\text{mol/L}$)	SD 29	36.0 \pm 7.0 (10)
Percent of Control		101.0

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	Phase Day	Treatment Groups (mg/kg)				
		0	1	10	30	100
Urea Nitrogen (mg/dL)	SD 29	19.2 ± 0.4 (20) *	19.7 ± 0.7 (10)	20.0 ± 0.7 (10)	20.6 ± 1.1 (10)	20.6 ± 0.7 (10)
Percent of Control			103.0	104.0	108.0	108.0
Creatinine (mg/dL)	SD 29	0.54 ± 0.01 (20)	0.54 ± 0.02 (10)	0.54 ± 0.02 (10)	0.55 ± 0.02 (10)	0.55 ± 0.02 (10)
Percent of Control			101.00	101.00	103.00	103.00
Glucose (mg/dL)	SD 29	157.0 ± 8.5 (20)	164.8 ± 20.2 (10)	157.7 ± 15.4 (10)	165.1 ± 13.1 (10)	178.7 ± 16.5 (10)
Percent of Control			105.0	100.0	105.0	114.0
Total Protein (g/dL)	SD 29	4.78 ± 0.06 (20)	4.88 ± 0.10 (10)	4.95 ± 0.05 (10)	4.97 ± 0.10 (10)	4.77 ± 0.09 (10)
Percent of Control			102.00	104.00	104.00	100.00
Albumin (g/dL)	SD 29	2.88 ± 0.04 (20) **	2.98 ± 0.08 (10)	3.05 ± 0.05 (10)	3.05 ± 0.07 (10)	2.96 ± 0.04 (10)
Percent of Control			104.00	106.00	106.00	103.00
Cholesterol (mg/dL)	SD 29	43.5 ± 2.6 (20)	40.1 ± 3.6 (10)	42.5 ± 2.3 (10)	42.1 ± 3.9 (10)	42.2 ± 3.2 (10)
Percent of Control			92.0	98.0	97.0	97.0
Triglyceride (mg/dL)	SD 29	72.7 ± 8.2 (20)	67.9 ± 8.7 (10)	84.9 ± 6.7 (10)	73.9 ± 7.3 (10)	68.4 ± 5.2 (10)
Percent of Control			93.0	117.0	102.0	94.0
Alanine Aminotransferase (IU/L)	SD 29	43.85 ± 1.71 (20)	58.80 ± 7.11 (10)	44.00 ± 2.42 (10)	44.90 ± 2.38 (10)	46.60 ± 2.40 (10)
Percent of Control			134.00	100.00	102.00	106.00
Alkaline Phosphatase (IU/L)	SD 29	227.6 ± 10.8 (20)	208.3 ± 11.2 (10)	217.5 ± 13.4 (10)	206.0 ± 15.6 (10)	206.8 ± 17.7 (10)
Percent of Control			92.0	96.0	91.0	91.0
Creatine Kinase (IU/L)	SD 29	484.2 ± 78.8 (20)	556.7 ± 272.3 (10)	464.4 ± 54.0 (10)	394.8 ± 67.5 (10)	304.9 ± 20.4 (10)
Percent of Control			115.0	96.0	82.0	63.0
Sorbitol Dehydrogenase (IU/L)	SD 29	94.3 ± 9.1 (20)	177.2 ± 40.3 (10)	109.7 ± 12.9 (10)	97.5 ± 12.9 (10)	109.7 ± 16.1 (10)
Percent of Control			188.0	116.0	103.0	116.0

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		Treatment Groups (mg/kg)				
	Phase Day	0	1	10	30	100
Bile salt/acids (µmol/L)	SD 29	57.6 ± 12.2 (20)	46.0 ± 14.7 (10)	65.4 ± 25.9 (10)	59.6 ± 21.4 (10)	46.8 ± 10.6 (10)
Percent of Control			80.0	114.0	103.0	81.0

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		Treatment Groups	
	Phase Day	300	
Urea Nitrogen (mg/dL)	SD 29	20.5 ± 0.4	(10)
Percent of Control		107.0	
Creatinine (mg/dL)	SD 29	0.56 ± 0.02	(10)
Percent of Control		105.00	
Glucose (mg/dL)	SD 29	174.9 ± 19.6	(10)
Percent of Control		111.0	
Total Protein (g/dL)	SD 29	4.97 ± 0.08	(10)
Percent of Control		104.00	
Albumin (g/dL)	SD 29	3.09 ± 0.05	(10) **
Percent of Control		107.00	
Cholesterol (mg/dL)	SD 29	41.0 ± 3.1	(10)
Percent of Control		94.0	
Triglyceride (mg/dL)	SD 29	71.9 ± 7.4	(10)
Percent of Control		99.0	
Alanine Aminotransferase (IU/L)	SD 29	47.40 ± 2.39	(10)
Percent of Control		108.00	
Alkaline Phosphatase (IU/L)	SD 29	229.7 ± 12.6	(10)
Percent of Control		101.0	
Creatine Kinase (IU/L)	SD 29	526.6 ± 169.5	(10)
Percent of Control		109.0	
Sorbitol Dehydrogenase (IU/L)	SD 29	97.0 ± 9.1	(10)
Percent of Control		103.0	

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	Phase Day	Treatment Groups
		300
Bile salt/acids ($\mu\text{mol/L}$)	SD 29	36.7 \pm 3.9 (10)
Percent of Control		64.0

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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 $P \leq 0.01$

**** END OF REPORT ****