

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

PA43: Hematology Summary
Test Compound: Sulfolane
CAS Number: 126-33-0

Date Report Requested: 11/14/2018
Time Report Requested: 06:05:17
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
Hematocrit (%)	SD 29	46.9 ± 0.5 (20)	45.3 ± 0.6 (9)	46.4 ± 0.7 (10)	47.9 ± 1.3 (10)
Percent of Control			97.0	99.0	102.0
Manual Hematocrit (%)	SD 29	47.5 ± 0.4 (20)	45.7 ± 0.5 (9)	47.3 ± 0.8 (10)	48.7 ± 1.2 (10)
Percent of Control			96.0	100.0	103.0
Hemoglobin (g/dL)	SD 29	14.8 ± 0.2 (20)	14.3 ± 0.2 (9)	14.8 ± 0.2 (10)	15.2 ± 0.4 (10)
Percent of Control			96.0	99.0	102.0
Erythrocytes (10 ⁶ /uL)	SD 29	5.65 ± 0.06 (20)	5.40 ± 0.07 (9)	5.56 ± 0.09 (10)	5.67 ± 0.16 (10)
Percent of Control			96.00	98.00	100.00
Reticulocytes (10 ³ /uL)	SD 29	95.4 ± 3.4 (20) *	85.2 ± 7.5 (9)	87.0 ± 5.6 (10)	108.8 ± 6.8 (10)
Percent of Control			89.0	91.0	114.0
Mean Cell Volume (fL)	SD 29	83.1 ± 0.4 (20)	84.0 ± 0.8 (9)	83.6 ± 0.6 (10)	84.5 ± 0.6 (10)
Percent of Control			101.0	101.0	102.0
Mean Cell Hemoglobin (pg)	SD 29	26.3 ± 0.2 (20)	26.5 ± 0.2 (9)	26.6 ± 0.2 (10)	26.9 ± 0.1 (10)
Percent of Control			101.0	101.0	102.0
Mean Cell Hemoglobin Concentration (g/dL)	SD 29	31.7 ± 0.2 (20)	31.6 ± 0.1 (9)	31.8 ± 0.2 (10)	31.8 ± 0.1 (10)
Percent of Control			100.0	100.0	100.0
Platelets (10 ³ /uL)	SD 29	405 ± 13 (20)	391 ± 22 (9)	394 ± 21 (10)	359 ± 32 (10)
Percent of Control			96	97	89
White Blood Cells (10 ³ /uL)	SD 29	6.49 ± 0.25 (20)	5.33 ± 0.28 (9)	5.70 ± 0.29 (10)	5.61 ± 0.35 (10)
Percent of Control			82.00	88.00	87.00
Neutrophils (10 ³ /uL)	SD 29	2.02 ± 0.14 (20)	1.67 ± 0.18 (9)	2.04 ± 0.19 (10)	1.81 ± 0.21 (10)
Percent of Control			82.00	101.00	89.00

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	Phase Day	Treatment Groups (mg/kg)			
		0	1	10	30
Lymphocytes (10 ³ /uL)	SD 29	3.96 ± 0.15 (20)	3.19 ± 0.21 (9) *	3.26 ± 0.16 (10) *	3.40 ± 0.22 (10)
Percent of Control			81.00	82.00	86.00
Total Lymphocytes (10 ³ /uL)	SD 29	4.13 ± 0.16 (20) *	3.32 ± 0.21 (9) *	3.38 ± 0.16 (10) *	3.52 ± 0.23 (10)
Percent of Control			80.00	82.00	85.00
Monocytes (10 ³ /uL)	SD 29	0.23 ± 0.04 (20)	0.22 ± 0.05 (9)	0.18 ± 0.04 (10)	0.18 ± 0.04 (10)
Percent of Control			97.00	77.00	77.00
Basophils (10 ³ /uL)	SD 29	0.06 ± 0.00 (20)	0.05 ± 0.00 (9)	0.05 ± 0.00 (10)	0.04 ± 0.01 (10)
Percent of Control			83.00	86.00	79.00
Eosinophils (10 ³ /uL)	SD 29	0.07 ± 0.01 (20)	0.06 ± 0.02 (9)	0.06 ± 0.01 (10)	0.06 ± 0.02 (10)
Percent of Control			95.00	85.00	87.00
Large Unstained Cells (10 ³ /uL)	SD 29	0.17 ± 0.03 (20) *	0.13 ± 0.02 (9)	0.13 ± 0.03 (10)	0.12 ± 0.03 (10)
Percent of Control			75.00	73.00	68.00

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	Phase Day	Treatment Groups (mg/kg)	
		100	300
Hematocrit (%)	SD 29	46.5 ± 1.0 (9)	46.5 ± 0.9 (9)
Percent of Control		99.0	99.0
Manual Hematocrit (%)	SD 29	47.8 ± 0.6 (9)	46.4 ± 0.8 (9)
Percent of Control		101.0	98.0
Hemoglobin (g/dL)	SD 29	14.9 ± 0.2 (9)	14.8 ± 0.3 (9)
Percent of Control		100.0	100.0
Erythrocytes (10 ⁶ /uL)	SD 29	5.55 ± 0.09 (9)	5.60 ± 0.08 (9)
Percent of Control		98.00	99.00
Reticulocytes (10 ³ /uL)	SD 29	117.1 ± 12.6 (9)	106.5 ± 5.2 (9)
Percent of Control		123.0	112.0
Mean Cell Volume (fL)	SD 29	83.8 ± 0.6 (9)	83.1 ± 0.8 (9)
Percent of Control		101.0	100.0
Mean Cell Hemoglobin (pg)	SD 29	26.8 ± 0.3 (9)	26.4 ± 0.2 (9)
Percent of Control		102.0	100.0
Mean Cell Hemoglobin Concentration (g/dL)	SD 29	32.0 ± 0.4 (9)	31.8 ± 0.1 (9)
Percent of Control		101.0	100.0
Platelets (10 ³ /uL)	SD 29	367 ± 32 (9)	415 ± 39 (9)
Percent of Control		91	102
White Blood Cells (10 ³ /uL)	SD 29	5.90 ± 0.45 (9)	6.25 ± 0.15 (9)
Percent of Control		91.00	96.00
Neutrophils (10 ³ /uL)	SD 29	1.81 ± 0.20 (9)	2.47 ± 0.22 (9)
Percent of Control		89.00	122.00

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	Phase Day	Treatment Groups (mg/kg)	
		100	300
Lymphocytes (10 ³ /uL)	SD 29	3.55 ± 0.29 (9)	3.38 ± 0.17 (9)
Percent of Control		90.00	85.00
Total Lymphocytes (10 ³ /uL)	SD 29	3.67 ± 0.30 (9)	3.46 ± 0.17 (9)
Percent of Control		89.00	84.00
Monocytes (10 ³ /uL)	SD 29	0.29 ± 0.09 (9)	0.19 ± 0.04 (9)
Percent of Control		126.00	81.00
Basophils (10 ³ /uL)	SD 29	0.05 ± 0.01 (9)	0.05 ± 0.01 (9)
Percent of Control		95.00	83.00
Eosinophils (10 ³ /uL)	SD 29	0.08 ± 0.03 (9)	0.08 ± 0.02 (9)
Percent of Control		118.00	123.00
Large Unstained Cells (10 ³ /uL)	SD 29	0.12 ± 0.03 (9)	0.07 ± 0.02 (9)
Percent of Control		67.00	43.00

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	Phase Day	Treatment Groups (mg/kg)			
		0	1	10	30
Hematocrit (%)	SD 29	44.8 ± 0.5 (19)	45.5 ± 0.8 (9)	46.3 ± 0.6 (10)	47.7 ± 1.9 (10)
Percent of Control			102.0	103.0	107.0
Manual Hematocrit (%)	SD 29	45.4 ± 0.6 (20)	46.9 ± 0.9 (9)	47.2 ± 0.7 (10)	48.2 ± 2.0 (10)
Percent of Control			103.0	104.0	106.0
Hemoglobin (g/dL)	SD 29	14.3 ± 0.2 (19)	14.6 ± 0.3 (9)	14.7 ± 0.2 (10)	15.0 ± 0.6 (10)
Percent of Control			102.0	103.0	105.0
Erythrocytes (10 ⁶ /uL)	SD 29	5.31 ± 0.06 (19)	5.48 ± 0.11 (9)	5.48 ± 0.07 (10)	5.66 ± 0.23 (10)
Percent of Control			103.00	103.00	107.00
Reticulocytes (10 ³ /uL)	SD 29	67.5 ± 11.2 (19)	56.3 ± 6.4 (9)	71.7 ± 10.7 (10)	120.3 ± 21.3 (10)
Percent of Control			83.0	106.0	178.0
Mean Cell Volume (fL)	SD 29	84.3 ± 0.4 (19)	83.1 ± 0.6 (9)	84.5 ± 0.6 (10)	84.4 ± 0.7 (10)
Percent of Control			99.0	100.0	100.0
Mean Cell Hemoglobin (pg)	SD 29	26.9 ± 0.2 (19)	26.7 ± 0.1 (9)	26.7 ± 0.2 (10)	26.5 ± 0.2 (10)
Percent of Control			99.0	100.0	99.0
Mean Cell Hemoglobin Concentration (g/dL)	SD 29	31.8 ± 0.1 (19)	32.1 ± 0.2 (9)	31.7 ± 0.1 (10)	31.4 ± 0.1 (10)
Percent of Control			101.0	100.0	99.0
Platelets (10 ³ /uL)	SD 29	440 ± 16 (19) *	403 ± 18 (9)	429 ± 27 (10)	425 ± 34 (10)
Percent of Control			92	98	97
White Blood Cells (10 ³ /uL)	SD 29	5.81 ± 0.23 (19)	6.09 ± 0.33 (9)	5.59 ± 0.25 (10)	5.70 ± 0.34 (10)
Percent of Control			105.00	96.00	98.00
Neutrophils (10 ³ /uL)	SD 29	1.32 ± 0.10 (19)	1.44 ± 0.13 (9)	1.21 ± 0.09 (10)	1.25 ± 0.10 (10)
Percent of Control			109.00	92.00	95.00

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	Phase Day	Treatment Groups (mg/kg)			
		0	1	10	30
Lymphocytes (10 ³ /uL)	SD 29	3.87 ± 0.17 (19)	3.94 ± 0.30 (9)	3.79 ± 0.21 (10)	3.80 ± 0.32 (10)
Percent of Control			102.00	98.00	98.00
Total Lymphocytes (10 ³ /uL)	SD 29	4.12 ± 0.18 (19)	4.22 ± 0.28 (9)	4.14 ± 0.21 (10)	4.02 ± 0.32 (10)
Percent of Control			102.00	100.00	97.00
Monocytes (10 ³ /uL)	SD 29	0.24 ± 0.03 (19)	0.25 ± 0.05 (9)	0.22 ± 0.04 (10)	0.31 ± 0.04 (10)
Percent of Control			102.00	89.00	125.00
Basophils (10 ³ /uL)	SD 29	0.05 ± 0.00 (19)	0.06 ± 0.01 (9)	0.05 ± 0.01 (10)	0.06 ± 0.01 (10)
Percent of Control			116.00	94.00	118.00
Eosinophils (10 ³ /uL)	SD 29	0.09 ± 0.01 (19)	0.15 ± 0.05 (9)	0.12 ± 0.03 (10)	0.10 ± 0.01 (10)
Percent of Control			165.00	136.00	107.00
Large Unstained Cells (10 ³ /uL)	SD 29	0.26 ± 0.03 (19)	0.28 ± 0.06 (9)	0.36 ± 0.02 (10)	0.22 ± 0.06 (10)
Percent of Control			110.00	140.00	87.00

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	Phase Day	Treatment Groups (mg/kg)	
		100	300
Hematocrit (%)	SD 29	44.8 ± 0.7 (10)	46.3 ± 0.8 (10)
Percent of Control		100.0	103.0
Manual Hematocrit (%)	SD 29	46.4 ± 0.7 (10)	47.1 ± 0.9 (10)
Percent of Control		102.0	104.0
Hemoglobin (g/dL)	SD 29	14.3 ± 0.2 (10)	14.6 ± 0.3 (10)
Percent of Control		100.0	103.0
Erythrocytes (10 ⁶ /uL)	SD 29	5.31 ± 0.08 (10)	5.51 ± 0.09 (10)
Percent of Control		100.00	104.00
Reticulocytes (10 ³ /uL)	SD 29	65.9 ± 10.8 (10)	55.8 ± 7.6 (10)
Percent of Control		98.0	83.0
Mean Cell Volume (fL)	SD 29	84.5 ± 0.6 (10)	84.1 ± 0.5 (10)
Percent of Control		100.0	100.0
Mean Cell Hemoglobin (pg)	SD 29	26.9 ± 0.2 (10)	26.6 ± 0.2 (10)
Percent of Control		100.0	99.0
Mean Cell Hemoglobin Concentration (g/dL)	SD 29	31.9 ± 0.1 (10)	31.6 ± 0.2 (10)
Percent of Control		100.0	99.0
Platelets (10 ³ /uL)	SD 29	380 ± 9 (10)	387 ± 20 (10)
Percent of Control		86	88
White Blood Cells (10 ³ /uL)	SD 29	6.18 ± 0.27 (10)	5.72 ± 0.23 (10)
Percent of Control		106.00	98.00
Neutrophils (10 ³ /uL)	SD 29	1.50 ± 0.12 (10)	1.15 ± 0.12 (10)
Percent of Control		113.00	87.00

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		100	300
Lymphocytes (10 ³ /uL)	SD 29	4.03 ± 0.20 (10)	3.99 ± 0.16 (10)
Percent of Control		104.00	103.00
Total Lymphocytes (10 ³ /uL)	SD 29	4.41 ± 0.24 (10)	4.24 ± 0.16 (10)
Percent of Control		107.00	103.00
Monocytes (10 ³ /uL)	SD 29	0.30 ± 0.03 (10)	0.23 ± 0.03 (10)
Percent of Control		123.00	93.00
Basophils (10 ³ /uL)	SD 29	0.04 ± 0.01 (10)	0.05 ± 0.01 (10)
Percent of Control		72.00	104.00
Eosinophils (10 ³ /uL)	SD 29	0.10 ± 0.01 (10)	0.10 ± 0.02 (10)
Percent of Control		112.00	113.00
Large Unstained Cells (10 ³ /uL)	SD 29	0.38 ± 0.05 (10)	0.25 ± 0.03 (10)
Percent of Control		147.00	98.00

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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 ****