

Study Number: C11054-02
Test Type: TOX
Route: Oral Gavage
Species/Strain: Mouse/B6C3F1/N

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

Date Report Requested: 11/14/2018
Time Report Requested: 09:44:45
Lab: Battelle

C Number:

C11054-02

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	50.6 ± 1.1 (10)	50.3 ± 1.0 (10)	51.2 ± 0.8 (10)	50.8 ± 1.2 (10)
Percent of Control			100.0	101.0	100.0
Manual Hematocrit (%)	SD 29	53.0 ± 1.0 (10)	52.6 ± 1.2 (10)	53.5 ± 1.0 (10)	52.8 ± 0.9 (10)
Percent of Control			99.0	101.0	100.0
Hemoglobin (g/dL)	SD 29	16.5 ± 0.4 (10) *	16.4 ± 0.3 (10)	16.7 ± 0.3 (10)	16.4 ± 0.3 (10)
Percent of Control			100.0	101.0	100.0
Erythrocytes (10 ⁶ /uL)	SD 29	10.83 ± 0.23 (10) **	10.76 ± 0.20 (10)	10.91 ± 0.16 (10)	10.82 ± 0.21 (10)
Percent of Control			99.00	101.00	100.00
Reticulocytes (10 ³ /uL)	SD 29	269.3 ± 8.3 (10)	261.7 ± 8.0 (10)	267.4 ± 8.9 (10)	266.3 ± 7.7 (10)
Percent of Control			97.0	99.0	99.0
Mean Cell Volume (fL)	SD 29	46.7 ± 0.2 (10) **	46.8 ± 0.2 (10)	46.9 ± 0.1 (10)	46.9 ± 0.2 (10)
Percent of Control			100.0	100.0	100.0
Mean Cell Hemoglobin (pg)	SD 29	15.2 ± 0.0 (10) *	15.2 ± 0.1 (10)	15.3 ± 0.1 (10)	15.2 ± 0.1 (10)
Percent of Control			100.0	100.0	100.0
Mean Cell Hemoglobin Concentration (g/dL)	SD 29	32.5 ± 0.1 (10)	32.5 ± 0.1 (10)	32.6 ± 0.2 (10)	32.4 ± 0.2 (10)
Percent of Control			100.0	100.0	99.0
Platelets (10 ³ /uL)	SD 29	808 ± 34 (10)	810 ± 26 (10)	774 ± 39 (10)	831 ± 27 (10)
Percent of Control			100	96	103
White Blood Cells (10 ³ /uL)	SD 29	4.66 ± 0.26 (10)	5.08 ± 0.35 (10)	4.70 ± 0.37 (10)	5.08 ± 0.28 (10)
Percent of Control			109.00	101.00	109.00
Neutrophils (10 ³ /uL)	SD 29	0.59 ± 0.06 (10)	0.64 ± 0.06 (10)	0.64 ± 0.07 (10)	0.62 ± 0.06 (10)
Percent of Control			108.00	108.00	104.00

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	Phase Day	Treatment Groups (mg/kg)			
		0	1	10	30
Lymphocytes (10 ³ /uL)	SD 29	3.86 ± 0.20 (10)	4.17 ± 0.28 (10)	3.87 ± 0.31 (10)	4.23 ± 0.22 (10)
Percent of Control			108.00	100.00	110.00
Total Lymphocytes (10 ³ /uL)	SD 29	3.90 ± 0.20 (10)	4.22 ± 0.28 (10)	3.91 ± 0.31 (10)	4.28 ± 0.23 (10)
Percent of Control			108.00	100.00	110.00
Monocytes (10 ³ /uL)	SD 29	0.08 ± 0.01 (10)	0.12 ± 0.02 (10)	0.08 ± 0.01 (10)	0.09 ± 0.01 (10)
Percent of Control			145.00	100.00	116.00
Basophils (10 ³ /uL)	SD 29	0.01 ± 0.00 (10)	0.01 ± 0.00 (10)	0.01 ± 0.00 (10)	0.01 ± 0.00 (10)
Percent of Control			100.00	100.00	160.00
Eosinophils (10 ³ /uL)	SD 29	0.08 ± 0.01 (10)	0.11 ± 0.01 (10)	0.07 ± 0.02 (10)	0.09 ± 0.01 (10)
Percent of Control			127.00	82.00	107.00
Large Unstained Cells (10 ³ /uL)	SD 29	0.04 ± 0.01 (10)	0.05 ± 0.01 (10)	0.04 ± 0.00 (10)	0.05 ± 0.01 (10)
Percent of Control			118.00	92.00	121.00

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	Phase Day	Treatment Groups (mg/kg)	
		100	300
Hematocrit (%)	SD 29	47.9 ± 0.7 (10)	48.9 ± 0.6 (10)
Percent of Control		95.0	97.0
Manual Hematocrit (%)	SD 29	50.1 ± 0.7 (10)	51.2 ± 0.6 (10)
Percent of Control		95.0	97.0
Hemoglobin (g/dL)	SD 29	15.6 ± 0.2 (10)	15.7 ± 0.2 (10)
Percent of Control		95.0	95.0
Erythrocytes (10 ⁶ /uL)	SD 29	10.21 ± 0.14 (10) *	10.21 ± 0.12 (10) *
Percent of Control		94.00	94.00
Reticulocytes (10 ³ /uL)	SD 29	269.8 ± 11.3 (10)	281.3 ± 4.9 (10)
Percent of Control		100.0	104.0
Mean Cell Volume (fL)	SD 29	46.9 ± 0.2 (10)	47.9 ± 0.2 (10) **
Percent of Control		100.0	102.0
Mean Cell Hemoglobin (pg)	SD 29	15.3 ± 0.1 (10)	15.4 ± 0.0 (10)
Percent of Control		100.0	101.0
Mean Cell Hemoglobin Concentration (g/dL)	SD 29	32.6 ± 0.2 (10)	32.2 ± 0.1 (10)
Percent of Control		100.0	99.0
Platelets (10 ³ /uL)	SD 29	824 ± 26 (10)	780 ± 33 (10)
Percent of Control		102	97
White Blood Cells (10 ³ /uL)	SD 29	5.94 ± 0.23 (10) *	5.06 ± 0.42 (10)
Percent of Control		127.00	109.00
Neutrophils (10 ³ /uL)	SD 29	0.76 ± 0.07 (10)	0.68 ± 0.09 (10)
Percent of Control		129.00	115.00

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	Phase Day	Treatment Groups (mg/kg)	
		100	300
Lymphocytes (10 ³ /uL)	SD 29	4.83 ± 0.18 (10) *	4.16 ± 0.37 (10)
Percent of Control		125.00	108.00
Total Lymphocytes (10 ³ /uL)	SD 29	4.89 ± 0.18 (10) *	4.19 ± 0.38 (10)
Percent of Control		125.00	108.00
Monocytes (10 ³ /uL)	SD 29	0.21 ± 0.07 (10)	0.10 ± 0.01 (10)
Percent of Control		261.00	120.00
Basophils (10 ³ /uL)	SD 29	0.01 ± 0.00 (10)	0.01 ± 0.00 (10)
Percent of Control		140.00	100.00
Eosinophils (10 ³ /uL)	SD 29	0.09 ± 0.01 (10)	0.10 ± 0.02 (10)
Percent of Control		102.00	114.00
Large Unstained Cells (10 ³ /uL)	SD 29	0.05 ± 0.00 (10)	0.04 ± 0.01 (10)
Percent of Control		142.00	97.00

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	Phase Day	Treatment Groups (mg/kg)			
		0	1	10	30
Hematocrit (%)	SD 29	48.7 ± 0.4 (10)	51.5 ± 0.8 (10)	49.1 ± 0.9 (10)	49.1 ± 1.1 (10)
Percent of Control			106.0	101.0	101.0
Manual Hematocrit (%)	SD 29	52.1 ± 0.7 (10)	54.1 ± 1.0 (10)	52.2 ± 0.9 (10)	52.5 ± 1.2 (10)
Percent of Control			104.0	100.0	101.0
Hemoglobin (g/dL)	SD 29	16.4 ± 0.1 (10)	17.4 ± 0.3 (10)	16.4 ± 0.2 (10)	16.4 ± 0.3 (10)
Percent of Control			106.0	100.0	100.0
Erythrocytes (10 ⁶ /uL)	SD 29	10.46 ± 0.09 (10)	11.04 ± 0.18 (10)	10.46 ± 0.13 (10)	10.50 ± 0.22 (10)
Percent of Control			106.00	100.00	100.00
Reticulocytes (10 ³ /uL)	SD 29	254.4 ± 10.3 (10)	300.3 ± 9.4 (10) *	316.6 ± 12.5 (10) **	287.9 ± 12.9 (10)
Percent of Control			118.0	124.0	113.0
Mean Cell Volume (fL)	SD 29	46.6 ± 0.2 (10) **	46.6 ± 0.2 (10)	46.9 ± 0.2 (10)	46.8 ± 0.2 (10)
Percent of Control			100.0	101.0	101.0
Mean Cell Hemoglobin (pg)	SD 29	15.7 ± 0.0 (10)	15.7 ± 0.1 (10)	15.7 ± 0.1 (10)	15.6 ± 0.1 (10)
Percent of Control			100.0	100.0	99.0
Mean Cell Hemoglobin Concentration (g/dL)	SD 29	33.7 ± 0.1 (10) *	33.7 ± 0.1 (10)	33.4 ± 0.2 (10)	33.3 ± 0.2 (10)
Percent of Control			100.0	99.0	99.0
Platelets (10 ³ /uL)	SD 29	618 ± 54 (10)	610 ± 46 (10)	642 ± 21 (10)	677 ± 46 (10)
Percent of Control			99	104	109
White Blood Cells (10 ³ /uL)	SD 29	5.32 ± 0.28 (10)	4.90 ± 0.31 (10)	4.65 ± 0.35 (10)	5.34 ± 0.41 (10)
Percent of Control			92.00	87.00	100.00
Neutrophils (10 ³ /uL)	SD 29	0.61 ± 0.06 (10)	0.49 ± 0.05 (10)	0.50 ± 0.04 (10)	0.59 ± 0.10 (10)
Percent of Control			79.00	82.00	95.00

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	Phase Day	Treatment Groups (mg/kg)			
		0	1	10	30
Lymphocytes (10 ³ /uL) Percent of Control	SD 29	4.46 ± 0.23 (10)	4.19 ± 0.26 (10) 94.00	3.95 ± 0.30 (10) 89.00	4.54 ± 0.31 (10) 102.00
Total Lymphocytes (10 ³ /uL) Percent of Control	SD 29	4.50 ± 0.23 (10)	4.23 ± 0.26 (10) 94.00	3.99 ± 0.30 (10) 89.00	4.57 ± 0.32 (10) 102.00
Monocytes (10 ³ /uL) Percent of Control	SD 29	0.10 ± 0.03 (10)	0.08 ± 0.01 (10) 80.00	0.08 ± 0.01 (10) 76.00	0.08 ± 0.01 (10) 76.00
Basophils (10 ³ /uL) Percent of Control	SD 29	0.01 ± 0.00 (10)	0.01 ± 0.00 (10) 82.00	0.01 ± 0.00 (10) 64.00	0.01 ± 0.00 (10) 55.00
Eosinophils (10 ³ /uL) Percent of Control	SD 29	0.11 ± 0.02 (10)	0.10 ± 0.02 (10) 93.00	0.09 ± 0.02 (10) 82.00	0.10 ± 0.02 (10) 97.00
Large Unstained Cells (10 ³ /uL) Percent of Control	SD 29	0.04 ± 0.00 (10)	0.04 ± 0.00 (10) 95.00	0.03 ± 0.01 (10) 87.00	0.04 ± 0.00 (10) 95.00

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	Phase Day	Treatment Groups (mg/kg)	
		100	300
Hematocrit (%)	SD 29	49.5 ± 0.8 (10)	50.3 ± 1.2 (10)
Percent of Control		102.0	103.0
Manual Hematocrit (%)	SD 29	51.7 ± 0.7 (10)	52.6 ± 1.0 (10)
Percent of Control		99.0	101.0
Hemoglobin (g/dL)	SD 29	16.6 ± 0.3 (10)	16.7 ± 0.4 (10)
Percent of Control		101.0	102.0
Erythrocytes (10 ⁶ /uL)	SD 29	10.56 ± 0.17 (10)	10.55 ± 0.26 (10)
Percent of Control		101.00	101.00
Reticulocytes (10 ³ /uL)	SD 29	291.2 ± 10.3 (10)	302.4 ± 12.9 (10) *
Percent of Control		114.0	119.0
Mean Cell Volume (fL)	SD 29	46.9 ± 0.1 (10)	47.7 ± 0.2 (10) **
Percent of Control		101.0	102.0
Mean Cell Hemoglobin (pg)	SD 29	15.7 ± 0.1 (10)	15.8 ± 0.0 (10)
Percent of Control		100.0	101.0
Mean Cell Hemoglobin Concentration (g/dL)	SD 29	33.5 ± 0.1 (10)	33.2 ± 0.2 (10)
Percent of Control		100.0	99.0
Platelets (10 ³ /uL)	SD 29	661 ± 34 (10)	644 ± 44 (10)
Percent of Control		107	104
White Blood Cells (10 ³ /uL)	SD 29	5.04 ± 0.40 (10)	4.78 ± 0.32 (10)
Percent of Control		95.00	90.00
Neutrophils (10 ³ /uL)	SD 29	0.61 ± 0.07 (10)	0.76 ± 0.18 (10)
Percent of Control		99.00	124.00

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		100	300
Lymphocytes (10 ³ /uL)	SD 29	4.22 ± 0.36 (10)	3.82 ± 0.20 (10)
Percent of Control		95.00	86.00
Total Lymphocytes (10 ³ /uL)	SD 29	4.26 ± 0.36 (10)	3.85 ± 0.20 (10)
Percent of Control		95.00	86.00
Monocytes (10 ³ /uL)	SD 29	0.10 ± 0.02 (10)	0.09 ± 0.02 (10)
Percent of Control		96.00	86.00
Basophils (10 ³ /uL)	SD 29	0.01 ± 0.00 (10)	0.01 ± 0.00 (10)
Percent of Control		55.00	64.00
Eosinophils (10 ³ /uL)	SD 29	0.08 ± 0.02 (10)	0.08 ± 0.02 (10)
Percent of Control		79.00	72.00
Large Unstained Cells (10 ³ /uL)	SD 29	0.04 ± 0.01 (10)	0.03 ± 0.00 (10)
Percent of Control		90.00	77.00

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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 ****