

Study Number: I11054B

Test Type: TOX

Route: Dosing in Water

Species/Strain: Rat/Harlan Sprague Dawley

C Number:

I11054B

Study Gender:

Both

PWG Approval Date

See web page for date of PWG Approval

M04: Hematology

Test Compound: Sulfolane

CAS Number: 126-33-0

Date Report Requested: 01/03/2019

Time Report Requested: 07:46:16

Lab: Burleson Research Technologies

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F1 Males

Treatment Groups (mg/L)

	0	30	100	300	1000
Erythrocyte (x10 ⁶)	8.809 ± 0.095 (12)	8.676 ± 0.076 (11)	8.835 ± 0.122 (10)	8.684 ± 0.071 (12)	8.497 ± 0.098 (12)
Hemoglobin (g/dL)	16.90 ± 0.16 (12)	16.85 ± 0.17 (11)	17.29 ± 0.23 (10)	17.05 ± 0.16 (12)	16.68 ± 0.17 (12)
Hematocrit (%)	48.83 ± 0.53 (12)	48.36 ± 0.51 (11)	48.99 ± 0.70 (10)	48.71 ± 0.35 (12)	47.57 ± 0.32 (12)
MCV (fL)	55.42 ± 0.27 (12)	55.75 ± 0.49 (11)	55.47 ± 0.36 (10)	56.09 ± 0.39 (12)	56.02 ± 0.45 (12)
MCH (pg)	19.19 ± 0.11 (12) *	19.45 ± 0.16 (11)	19.54 ± 0.13 (10)	19.65 ± 0.15 (12)	19.65 ± 0.16 (12)
MCHC (g/dL)	34.64 ± 0.16 (12)	34.87 ± 0.17 (11)	35.25 ± 0.15 (10) *	35.01 ± 0.12 (12)	35.09 ± 0.17 (12)
Platelets (x10 ³)	643.6 ± 32.4 (12)	705.8 ± 70.6 (11)	670.8 ± 54.4 (10)	586.7 ± 29.6 (12)	684.3 ± 49.1 (12)
Leukocyte (x10 ³)	10.80 ± 0.74 (12)	10.54 ± 0.55 (11)	10.52 ± 0.69 (10)	11.78 ± 0.81 (12)	12.03 ± 1.00 (12)
Reticulocytes (x10 ³)	224.74 ± 5.05 (12)	240.04 ± 9.20 (11)	241.61 ± 6.21 (10)	238.71 ± 6.43 (12)	229.78 ± 7.17 (12)
Percent Reticulocytes	4.836 ± 0.367 (12)	4.481 ± 0.326 (11)	4.397 ± 0.331 (10)	4.981 ± 0.377 (12)	5.233 ± 0.389 (12)

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F1 Males	
Treatment Groups	
15 mg/kg CPS	
Erythrocyte (x10 ⁶)	8.274 ± 0.099 (8) **
Hemoglobin (g/dL)	16.43 ± 0.19 (8)
Hematocrit (%)	46.64 ± 0.65 (8) *
MCV (fL)	56.38 ± 0.32 (8)
MCH (pg)	19.84 ± 0.09 (8) **
MCHC (g/dL)	35.21 ± 0.16 (8) *
Platelets (x10 ³)	618.1 ± 26.6 (8)
Leukocyte (x10 ³)	3.34 ± 0.18 (8) **
Reticulocytes (x10 ³)	24.69 ± 3.05 (8) **
Percent Reticulocytes	14.936 ± 1.773 (8) **

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F1 Females

Treatment Groups (mg/L)

	0	30	100	300	1000
Erythrocyte (x10 ⁶)	8.048 ± 0.095 (11)	8.092 ± 0.190 (10)	8.184 ± 0.166 (10)	8.208 ± 0.121 (10)	7.826 ± 0.159 (11)
Hemoglobin (g/dL)	15.47 ± 0.17 (11)	15.95 ± 0.33 (10)	16.01 ± 0.22 (10)	16.16 ± 0.21 (10)	15.54 ± 0.28 (11)
Hematocrit (%)	44.32 ± 0.44 (11)	45.61 ± 1.00 (10)	45.64 ± 0.69 (10)	46.27 ± 0.58 (10)	44.47 ± 0.69 (11)
MCV (fL)	55.09 ± 0.43 (11) *	56.39 ± 0.51 (10)	55.84 ± 0.42 (10)	56.41 ± 0.61 (10)	56.92 ± 0.50 (11) *
MCH (pg)	19.24 ± 0.16 (11)	19.71 ± 0.25 (10)	19.58 ± 0.18 (10)	19.72 ± 0.22 (10)	19.89 ± 0.20 (11)
MCHC (g/dL)	34.92 ± 0.10 (11)	34.98 ± 0.25 (10)	35.07 ± 0.15 (10)	34.95 ± 0.12 (10)	34.95 ± 0.17 (11)
Platelets (x10 ³)	718.5 ± 70.1 (11)	734.1 ± 47.0 (10)	619.9 ± 71.5 (10)	776.1 ± 61.6 (10)	773.2 ± 88.4 (11)
Leukocyte (x10 ³)	8.31 ± 0.63 (11) *	7.86 ± 0.62 (10)	8.35 ± 0.66 (10)	7.92 ± 0.51 (10)	6.63 ± 0.31 (11)
Reticulocytes (x10 ³)	216.93 ± 13.44 (11) *	224.49 ± 6.51 (10)	250.13 ± 6.37 (10)	238.16 ± 20.63 (10)	258.57 ± 15.58 (11)
Percent Reticulocytes	4.080 ± 0.500 (11) *	3.500 ± 0.264 (10)	3.339 ± 0.252 (10)	3.590 ± 0.417 (10)	2.638 ± 0.182 (11) *

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Treatment Groups

15 mg/kg CPS

Erythrocyte (x10 ⁶)	7.695 ± 0.196 (6)
Hemoglobin (g/dL)	15.35 ± 0.23 (6)
Hematocrit (%)	43.60 ± 1.08 (6)
MCV (fL)	56.70 ± 0.89 (6)
MCH (pg)	20.00 ± 0.34 (6)
MCHC (g/dL)	35.27 ± 0.38 (6)
Platelets (x10 ³)	521.2 ± 92.6 (6)
Leukocyte (x10 ³)	3.01 ± 0.38 (6) **
Reticulocytes (x10 ³)	22.07 ± 6.47 (6) **
Percent Reticulocytes	20.145 ± 5.648 (6) **

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LEGEND

Data are displayed as mean \pm SEM (N) unless otherwise noted.

Statistical analysis performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests (unless otherwise noted).

Statistical analysis for the positive control group compared to the vehicle control group was performed using the Kruskal-Wallis test.

* Statistically significant at $P \leq 0.05$

** Statistically significant at $P \leq 0.01$

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

MCV - mean corpuscular volume; MCH - mean corpuscular hemoglobin; MCHC - mean corpuscular hemoglobin concentration

Decrease in N for all measurements in the 30 mg/L dose group is due to one animal's values being excluded because they were outliers.

CPS = Cyclophosphamide

**** END OF REPORT ****