

Study Number: I11054B

Test Type: TOX

Route: Dosing in Water

Species/Strain: Rat/Harlan Sprague Dawley

C Number:

Study Gender:

PWG Approval Date

M03: Peripheral Blood Leukocyte Cell Differential

Test Compound: Sulfolane

CAS Number: 126-33-0

I11054B

Both

See web page for date of PWG Approval

Date Report Requested: 12/07/2018

Time Report Requested: 07:28:54

Lab: Burleson Research Technologies

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F1 Males

Treatment Groups (mg/L)

	0	30	100	300	1000	15 mg/kg CPS
Leukocytes (10 ³ /μl)	10.799 ± 0.738 (12)	10.543 ± 0.549 (11)	10.518 ± 0.687 (10)	11.778 ± 0.812 (12)	12.030 ± 0.996 (12)	3.336 ± 0.180 (8) **
Lymphocytes (10 ³ /μl)	9.113 ± 0.650 (12)	8.865 ± 0.478 (11)	8.770 ± 0.541 (10)	9.977 ± 0.681 (12)	9.898 ± 0.868 (12)	2.424 ± 0.137 (8) **
Neutrophils (10 ³ /μl)	1.164 ± 0.122 (12)	1.178 ± 0.094 (11)	1.265 ± 0.158 (10)	1.238 ± 0.121 (12)	1.567 ± 0.160 (12)	0.715 ± 0.104 (8) *
Monocytes (10 ³ /μl)	0.237 ± 0.021 (12)	0.254 ± 0.026 (11)	0.213 ± 0.041 (10)	0.281 ± 0.044 (12)	0.270 ± 0.036 (12)	0.071 ± 0.014 (8) **
Eosinophils (10 ³ /μl)	0.162 ± 0.030 (12)	0.123 ± 0.019 (11)	0.142 ± 0.021 (10)	0.145 ± 0.024 (12)	0.142 ± 0.027 (12)	0.083 ± 0.023 (8) **
Basophils (10 ³ /μl)	0.058 ± 0.006 (12)	0.055 ± 0.008 (11)	0.057 ± 0.012 (10)	0.063 ± 0.009 (12)	0.065 ± 0.010 (12)	0.020 ± 0.003 (8) **
Large Unstained Cells (10 ³ /μl)	0.068 ± 0.008 (12)	0.069 ± 0.007 (11)	0.071 ± 0.013 (10)	0.076 ± 0.009 (12)	0.084 ± 0.009 (12)	0.016 ± 0.003 (8) **
Percent Lymphocytes	84.29 ± 1.28 (12)	84.06 ± 0.85 (11)	83.68 ± 1.31 (10)	84.85 ± 0.91 (12)	82.33 ± 1.35 (12)	73.08 ± 2.88 (8) **
Percent Neutrophils	10.84 ± 0.97 (12)	11.25 ± 0.76 (11)	11.87 ± 1.23 (10)	10.43 ± 0.62 (12)	13.06 ± 1.10 (12)	21.09 ± 2.42 (8) **
Percent Monocytes	2.23 ± 0.17 (12)	2.34 ± 0.15 (11)	1.96 ± 0.28 (10)	2.37 ± 0.31 (12)	2.21 ± 0.21 (12)	2.16 ± 0.38 (8)
Percent Eosinophils	1.51 ± 0.23 (12)	1.16 ± 0.17 (11)	1.32 ± 0.12 (10)	1.23 ± 0.18 (12)	1.18 ± 0.19 (12)	2.45 ± 0.57 (8) *
Percent Basophils	0.54 ± 0.06 (12)	0.53 ± 0.08 (11)	0.50 ± 0.09 (10)	0.53 ± 0.05 (12)	0.53 ± 0.06 (12)	0.65 ± 0.10 (8)
Percent Large Unstained Cells	0.60 ± 0.05 (12)	0.65 ± 0.05 (11)	0.67 ± 0.10 (10)	0.62 ± 0.04 (12)	0.70 ± 0.05 (12)	0.55 ± 0.07 (8)

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F1 Females

Treatment Groups (mg/L)

	0	30	100	300	1000	15 mg/kg CPS
Leukocytes (10 ³ /μl)	8.312 ± 0.631 (11) *	7.859 ± 0.619 (10)	8.349 ± 0.662 (10)	7.916 ± 0.513 (10)	6.625 ± 0.309 (11)	3.008 ± 0.382 (6) **
Lymphocytes (10 ³ /μl)	6.974 ± 0.571 (11)	6.552 ± 0.553 (10)	6.921 ± 0.562 (10)	6.829 ± 0.474 (10)	5.459 ± 0.305 (11)	2.163 ± 0.403 (6) **
Neutrophils (10 ³ /μl)	0.952 ± 0.082 (11)	0.925 ± 0.135 (10)	0.937 ± 0.088 (10)	0.728 ± 0.080 (10)	0.810 ± 0.084 (11)	0.622 ± 0.140 (6)
Monocytes (10 ³ /μl)	0.151 ± 0.015 (11)	0.170 ± 0.016 (10)	0.205 ± 0.033 (10)	0.155 ± 0.026 (10)	0.147 ± 0.013 (11)	0.078 ± 0.016 (6) **
Eosinophils (10 ³ /μl)	0.145 ± 0.020 (11)	0.131 ± 0.025 (10)	0.190 ± 0.036 (10)	0.129 ± 0.031 (10)	0.132 ± 0.025 (11)	0.107 ± 0.018 (6)
Basophils (10 ³ /μl)	0.037 ± 0.011 (11)	0.036 ± 0.008 (10)	0.035 ± 0.006 (10)	0.031 ± 0.007 (10)	0.033 ± 0.004 (11)	0.013 ± 0.002 (6) *
Large Unstained Cells (10 ³ /μl)	0.055 ± 0.009 (11)	0.047 ± 0.006 (10)	0.061 ± 0.012 (10)	0.041 ± 0.007 (10)	0.045 ± 0.006 (11)	0.025 ± 0.008 (6) *
Percent Lymphocytes	83.55 ± 1.08 (11)	83.27 ± 1.53 (10)	82.83 ± 1.06 (10)	85.99 ± 1.55 (10)	82.15 ± 1.60 (11)	69.78 ± 6.55 (6) *
Percent Neutrophils	11.85 ± 1.01 (11)	11.77 ± 1.37 (10)	11.31 ± 0.81 (10)	9.50 ± 1.13 (10)	12.37 ± 1.30 (11)	22.72 ± 5.91 (6)
Percent Monocytes	1.87 ± 0.17 (11)	2.22 ± 0.25 (10)	2.44 ± 0.34 (10)	1.92 ± 0.23 (10)	2.19 ± 0.14 (11)	2.53 ± 0.28 (6) *
Percent Eosinophils	1.72 ± 0.19 (11)	1.70 ± 0.30 (10)	2.27 ± 0.35 (10)	1.71 ± 0.42 (10)	2.10 ± 0.43 (11)	3.85 ± 0.75 (6) *
Percent Basophils	0.41 ± 0.09 (11)	0.45 ± 0.07 (10)	0.41 ± 0.07 (10)	0.39 ± 0.06 (10)	0.51 ± 0.04 (11)	0.42 ± 0.04 (6)
Percent Large Unstained Cells	0.65 ± 0.08 (11)	0.58 ± 0.06 (10)	0.71 ± 0.11 (10)	0.49 ± 0.06 (10)	0.65 ± 0.07 (11)	0.73 ± 0.16 (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

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 ****