

Study Number: I11054B

Test Type: TOX

Route: Dosing in Water

Species/Strain: Rat/Harlan Sprague Dawley

C Number:

Study Gender:

PWG Approval Date

M15: Natural Killer Cell Activity

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: 07:31:40

Lab: Burleson Research Technologies

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F1 Males

Treatment Groups (mg/L)

	0	30	100	300	1000	15 mg/kg CPS
NK Cell Activity (12.5:1)	9.47 ± 0.61 (12)	8.91 ± 0.78 (12)	9.16 ± 1.37 (12)	10.00 ± 1.33 (12)	6.71 ± 1.21 (12)	16.86 ± 3.10 (8) *
NK Cell Activity (25:1)	16.72 ± 0.89 (12)	15.75 ± 1.15 (12)	16.29 ± 1.56 (12)	14.76 ± 1.00 (12)	13.50 ± 1.44 (12)	22.57 ± 3.50 (8)
NK Cell Activity (50:1)	29.48 ± 1.30 (12)	25.94 ± 1.71 (12)	26.77 ± 1.75 (12)	25.88 ± 1.85 (12)	25.89 ± 1.71 (12)	47.13 ± 7.52 (8) *

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F1 Females

Treatment Groups (mg/L)

	0	30	100	300	1000	15 mg/kg CPS
NK Cell Activity (12.5:1)	9.97 ± 1.29 (12) **	8.77 ± 0.78 (12)	6.95 ± 0.77 (11)	7.63 ± 0.49 (12)	2.35 ± 0.79 (12) **	4.59 ± 0.67 (8) **
NK Cell Activity (25:1)	16.39 ± 1.60 (12) **	14.39 ± 1.07 (12)	11.94 ± 1.03 (11)	14.30 ± 0.92 (12)	8.40 ± 0.72 (12) **	8.42 ± 1.08 (8) **
NK Cell Activity (50:1)	29.80 ± 2.23 (12) **	26.18 ± 1.85 (12)	22.27 ± 1.29 (11) **	23.71 ± 1.19 (12) **	18.02 ± 1.37 (12) **	15.36 ± 1.35 (8) **

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LEGEND

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

Data displayed as a mean of (effector cell:target cell ratio)

NK - Natural Killer

NK Cell Activity is expressed as % target cell killing calculated as (sample Cr51 release - spontaneous Cr51 release / total Cr51 release - spontaneous Cr51 release)

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

CPS = Cyclophosphamide

**** END OF REPORT ****