

**Study Number:** I11054B

**Test Type:** TOX

**Route:** Dosing in Water

**Species/Strain:** Rat/Harlan Sprague Dawley

**C Number:**

**Study Gender:**

**PWG Approval Date**

**M12: Cytotoxic T 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:** 07:44:58

**Lab:** Burleson Research Technologies

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**F1 Males**

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**Treatment Groups (mg/L)**

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	<b>0</b>	<b>30</b>	<b>100</b>	<b>300</b>	<b>1000</b>	<b>15 mg/kg CPS</b>
CTL Activity (12.5:1) <sup>a</sup>	7.64 ± 1.52 (6)	9.72 ± 2.05 (6)	6.60 ± 1.41 (5)	9.19 ± 1.13 (6)	4.09 ± 1.24 (6)	0.22 ± 0.22 (4) **
CTL Activity (25:1)	25.59 ± 3.75 (6)	23.64 ± 3.37 (6)	17.02 ± 3.10 (6)	21.54 ± 1.74 (6)	12.44 ± 2.23 (6)	0.00 ± 0.00 (4) **
CTL Activity (50:1)	38.19 ± 3.34 (6) *	36.61 ± 6.08 (6)	29.28 ± 4.03 (6)	29.90 ± 1.52 (6)	37.26 ± 3.66 (6)	0.00 ± 0.00 (4) **

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**F1 Females**

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**Treatment Groups (mg/L)**

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	<b>0</b>	<b>30</b>	<b>100</b>	<b>300</b>	<b>1000</b>	<b>15 mg/kg CPS</b>
CTL Activity (12.5:1) <sup>a</sup>	1.78 ± 1.23 (6)	4.00 ± 2.65 (6)	2.41 ± 0.83 (6)	6.70 ± 2.02 (6)	3.06 ± 1.17 (6)	0.00 ± 0.00 (4)
CTL Activity (25:1)	12.90 ± 3.08 (6) *	27.82 ± 2.99 (5)	16.45 ± 3.44 (6)	14.38 ± 2.84 (6)	21.59 ± 3.16 (6)	0.00 ± 0.00 (4) **
CTL Activity (50:1)	35.87 ± 4.00 (6)	35.53 ± 3.17 (6)	37.96 ± 5.06 (6)	39.19 ± 4.66 (6)	34.31 ± 4.42 (6)	0.00 ± 0.00 (4) **

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#### LEGEND

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

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

CTL - Cytotoxic T Lymphocytes

<sup>a</sup>CTL 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 \*\***