

Study Number: I11054B

Test Type: TOX

Route: Dosing in Water

Species/Strain: Rat/Harlan Sprague Dawley

M07: TDAR SRBC: Spleen AFC

Test Compound: Sulfolane

CAS Number: 126-33-0

Date Report Requested: 07/22/2021

Time Report Requested: 07:34:16

Lab: BRT with EPL

Study Number:

I11054B

Study Gender:

Both

PWG Approval Date:

See web page for date of PWG Approval

Version:

v1.2.7

Stat Version:

v2.5.2A

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F1 Males: SRBC

Treatment Groups (mg/L)

	0	30	100	300
Spleen Weight (g)	0.8389 ± 0.0258 (12)	0.7773 ± 0.0197 (12)	0.7968 ± 0.0225 (12)	0.8213 ± 0.0225 (12)
Spleen Cells (x10 ⁶)	382.00 ± 15.72 (12)	372.00 ± 15.01 (12)	367.05 ± 22.35 (12)	402.45 ± 15.11 (12)
AFC/10 ⁶ Spleen Cells	389.5 ± 143.0 (12)	313.0 ± 121.3 (12)	335.9 ± 81.8 (12)	317.0 ± 111.3 (12)
AFC/Spleen (x10 ²)	1361.3 ± 459.0 (12)	1185.0 ± 461.1 (12)	1261.3 ± 333.5 (12)	1302.5 ± 463.2 (12)

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F1 Males: SRBC

Treatment Groups (mg/L)

	1000	15 mg/kg CPS
Spleen Weight (g)	0.8253 ± 0.0220 (12)	0.4601 ± 0.0263 (8) **
Spleen Cells (x10 ⁶)	398.20 ± 20.52 (12)	117.68 ± 12.86 (8) **
AFC/10 ⁶ Spleen Cells	297.4 ± 69.2 (12)	1.7 ± 1.7 (8) **
AFC/Spleen (x10 ²)	1171.3 ± 250.5 (12)	1.9 ± 1.9 (8) **

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F1 Females: SRBC

Treatment Groups (mg/L)

	0	30	100	300
Spleen Weight (g)	0.6360 ± 0.0300 (12)	0.6471 ± 0.0322 (12)	0.6259 ± 0.0140 (12)	0.6592 ± 0.0223 (12)
Spleen Cells (x10 ⁶)	326.20 ± 17.56 (12) **	344.60 ± 21.45 (12)	373.45 ± 14.75 (12) *	426.90 ± 19.20 (12) **
AFC/10 ⁶ Spleen Cells	442.3 ± 90.7 (12)	534.2 ± 174.1 (10)	474.0 ± 116.4 (12)	454.0 ± 69.9 (12)
AFC/Spleen (x10 ²)	1542.5 ± 386.0 (12)	1852.5 ± 584.4 (10)	1748.8 ± 467.3 (12)	1966.3 ± 346.4 (12)

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F1 Females: SRBC

Treatment Groups (mg/L)

	1000	15 mg/kg CPS
Spleen Weight (g)	0.6129 ± 0.0177 (12)	0.4061 ± 0.0101 (8) **
Spleen Cells (x10 ⁶)	389.15 ± 23.87 (12) **	121.80 ± 7.33 (8) **
AFC/10 ⁶ Spleen Cells	325.9 ± 89.7 (12)	14.0 ± 6.0 (8) **
AFC/Spleen (x10 ²)	1273.8 ± 372.7 (12)	15.0 ± 6.3 (8) **

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LEGEND

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

Statistical analysis for F1 data performed by Jonckheere (trend) and then a pairwise test. Williams/Dunnett pairwise tests are used for organ weights, Shirley/Dunn pairwise tests are used for all other endpoints.

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

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 $P \leq 0.01$

TDAR - T-Dependent Antibody Response; SRBC - Sheep Red Blood Cells; AFC - Antibody-Forming Cells

CPS = Cyclophosphamide

**** END OF REPORT ****