

Study Number: I10482B

Test Type: TOX

Route: Dosing in Feed

Species/Strain: Rat/Harlan Sprague Dawley

M19: TDAR SRBC: ELISpot

Test Compound: N-Butylbenzenesulfonamide

CAS Number: 3622-84-2

Date Report Requested: 08/19/2022

Time Report Requested: 08:39:16

Lab: Burleson Research Technologies

Study Number:

I10482B

Study Gender:

Both

PWG Approval Date:

See web page for date of PWG Approval

Version:

v1.4.2

Stat Version:

v2.9.1A

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F1 Males: SRBC

Treatment Groups (ppm)

	0	250	500	1000	15 mg/kg CPS
Spleen Weight (g)	0.6747 ± 0.0269 (12) *	0.7512 ± 0.0257 (12)	0.6593 ± 0.0266 (12)	0.6167 ± 0.0270 (12)	0.4771 ± 0.0213 (8) **
Spleen Cells (x10 ⁶)	260.30 ± 15.16 (12) **	275.60 ± 15.90 (12)	216.90 ± 14.49 (12) *	163.15 ± 13.71 (12) **	85.66 ± 8.73 (8) **
IgM AFC/10 ⁶ Spleen Cells	118.8 ± 29.5 (12)	100.4 ± 45.8 (12)	75.6 ± 23.2 (12)	144.8 ± 45.3 (12)	1.9 ± 0.6 (8) **
IgM AFC/Spleen (x10 ³)	30.92 ± 7.79 (12)	29.87 ± 14.31 (12)	17.47 ± 5.76 (12)	22.52 ± 6.17 (12)	0.18 ± 0.07 (8) **

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F1 Females: SRBC

Treatment Groups (ppm)

	0	250	500	1000	15 mg/kg CPS
Spleen Weight (g)	0.5912 ± 0.0186 (12) **	0.6061 ± 0.0226 (11)	0.5509 ± 0.0249 (12)	0.5295 ± 0.0159 (11) *	0.4344 ± 0.0137 (8) **
Spleen Cells (x10 ⁶)	254.30 ± 12.00 (12) *	272.56 ± 32.40 (11)	245.45 ± 15.82 (12)	195.27 ± 14.23 (11) *	98.55 ± 7.26 (8) **
IgM AFC/10 ⁶ Spleen Cells	212.3 ± 46.3 (12)	210.7 ± 75.8 (11)	178.5 ± 33.0 (12)	237.3 ± 79.7 (11)	6.6 ± 3.4 (8) **
IgM AFC/Spleen (x10 ³)	52.20 ± 11.17 (12)	56.78 ± 20.16 (11)	43.49 ± 8.13 (12)	49.73 ± 17.86 (11)	0.64 ± 0.32 (8) **

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LEGEND

The ELISpot assay was conducted on the same set of animals as the AFC assay. Data for spleen weight and spleen cell count reported here are also included on the M07 report.

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

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

Statistical analysis was performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests.

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 $P \leq 0.01$

CPS = Cyclophosphamide

**** END OF REPORT ****