

**Study Number:** I10482B

**Test Type:** TOX

**Route:** Dosing in Feed

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

**M07: TDAR SRBC: Spleen AFC**

**Test Compound:** N-Butylbenzenesulfonamide

**CAS Number:** 3622-84-2

**Date Report Requested:** 07/26/2021

**Time Report Requested:** 11:21:37

**Lab:** Burleson Research Technologies

**Study Number:**

I10482B

**Study Gender:**

Both

**PWG Approval Date:**

See web page for date of PWG Approval

**Version:**

v1.2.8

**Stat Version:**

v2.5.2A

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**F1 Males: SRBC**

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**Treatment Groups (ppm)**

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	<b>0</b>	<b>250</b>	<b>500</b>	<b>1000</b>
Spleen Weight (g)	0.6747 ± 0.0269 (12) *	0.7512 ± 0.0257 (12)	0.6593 ± 0.0266 (12)	0.6167 ± 0.0270 (12)
Spleen Cells (x10 <sup>6</sup> )	260.30 ± 15.16 (12) **	275.60 ± 15.90 (12)	216.90 ± 14.49 (12) *	163.15 ± 13.71 (12) **
AFC/10 <sup>6</sup> Spleen Cells	517.4 ± 86.5 (12)	655.5 ± 153.2 (12)	791.5 ± 161.5 (12)	768.9 ± 139.5 (12)
AFC/Spleen (x10 <sup>2</sup> )	1383.8 ± 240.2 (12)	1937.5 ± 593.0 (12)	1808.8 ± 426.3 (12)	1157.5 ± 165.8 (12)

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**F1 Males: SRBC**

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**Treatment Groups (ppm)**

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**15 mg/kg CPS**

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Spleen Weight (g)	0.4771 ± 0.0213 (8) **
Spleen Cells (x10 <sup>6</sup> )	85.66 ± 8.73 (8) **
AFC/10 <sup>6</sup> Spleen Cells	35.7 ± 16.6 (8) **
AFC/Spleen (x10 <sup>2</sup> )	24.4 ± 11.0 (8) **

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**F1 Females: SRBC**

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**Treatment Groups (ppm)**

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	<b>0</b>	<b>250</b>	<b>500</b>	<b>1000</b>
Spleen Weight (g)	0.5912 ± 0.0186 (12) **	0.6061 ± 0.0226 (11)	0.5509 ± 0.0249 (12)	0.5295 ± 0.0159 (11)
Spleen Cells (x10 <sup>6</sup> )	254.30 ± 12.00 (12) *	272.56 ± 32.40 (11)	245.45 ± 15.82 (12)	195.27 ± 14.23 (11) *
AFC/10 <sup>6</sup> Spleen Cells	535.7 ± 81.5 (12) *	524.6 ± 88.9 (11)	566.0 ± 145.0 (12)	249.4 ± 41.3 (11) *
AFC/Spleen (x10 <sup>2</sup> )	1311.3 ± 181.2 (12) **	1375.9 ± 254.9 (11)	1333.8 ± 302.5 (12)	488.2 ± 94.5 (11) **

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**F1 Females: SRBC**

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**Treatment Groups (ppm)**

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**15 mg/kg CPS**

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Spleen Weight (g)	0.4344 ± 0.0137 (8) **
Spleen Cells (x10 <sup>6</sup> )	98.55 ± 7.26 (8) **
AFC/10 <sup>6</sup> Spleen Cells	24.3 ± 9.8 (8) **
AFC/Spleen (x10 <sup>2</sup> )	24.4 ± 10.2 (8) **

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#### LEGEND

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

Statistical analysis 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 \*\***