

**Study Number:** I10482  
**Test Type:** TOX  
**Route:** Dosing in Feed  
**Species/Strain:** Mouse/B6C3F1/N

**M15: Natural Killer Cell Activity**  
**Test Compound:** N-Butylbenzenesulfonamide  
**CAS Number:** 3622-84-2

**Date Report Requested:** 04/09/2021  
**Time Report Requested:** 10:12:06  
**Lab:** Burleson Research Technologies

**Study Number:** I10482  
**Study Gender:** Female  
**PWG Approval Date:** See web page for date of PWG Approval  
**Version:** v1.2.0

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**Females: Immunophenotyping**

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**Treatment Groups (ppm)**

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	<b>0</b>	<b>313</b>	<b>625</b>	<b>1250</b>	<b>2500</b>	<b>5000</b>	<b>50 mg/kg CPS</b>
NK Cell Activity (6.25:1)	14.41 ± 1.77 (8) **	22.24 ± 1.40 (8) **	22.45 ± 2.39 (8) *	21.97 ± 1.00 (8) **	24.67 ± 1.25 (8) **	23.95 ± 0.91 (8) **	19.31 ± 1.75 (8) *
NK Cell Activity (12.5:1)	23.45 ± 2.16 (8) *	35.21 ± 2.20 (8) **	34.58 ± 2.71 (8) *	33.12 ± 1.47 (8)	34.14 ± 1.14 (8) *	33.84 ± 1.16 (8) *	24.44 ± 1.62 (8)
NK Cell Activity (25:1)	33.57 ± 2.45 (8) *	44.62 ± 2.88 (8) *	41.51 ± 2.16 (8)	41.79 ± 1.36 (8)	44.50 ± 1.87 (8) **	42.99 ± 2.18 (8)	30.62 ± 4.57 (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)

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 were 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 \*\***