Study Number:	I10482
Study Gender:	Female
PWG Approval Date:	See web page for date of PWG Approval
Version:	v1.0.9

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

M06: Spleen Immunophenotyping
Test Compound: N-Butylbenzenesulfonamide
CAS Number: 3622-84-2

Date Report Requested: 11/04/2020
Time Report Requested: 14:07:27
Lab: Burleson Research Technologies

Females: Immunophenotyping

	Treatment Groups (ppm)						
	0	**313**	**625**	**1250**	**2500**	**5000**	**50 mg/kg CPS**
Spleen Cells (x10^6)	32.62 ± 2.44 (8)	27.86 ± 2.41 (8)	32.21 ± 3.34 (8)	35.70 ± 2.20 (8)	30.57 ± 3.51 (8)	31.46 ± 2.38 (8)	9.20 ± 0.72 (8) **
Total Lymphocytes	30.941 ± 2.197 (8)	26.950 ± 2.362 (8)	30.651 ± 3.165 (8)	33.755 ± 2.075 (8)	27.346 ± 2.921 (8)	28.407 ± 2.061 (8)	8.947 ± 0.689 (8) **
Total T Cells	10.690 ± 0.888 (8)	9.176 ± 0.872 (8)	10.634 ± 1.197 (8)	11.670 ± 0.843 (8)	8.908 ± 0.969 (8)	9.669 ± 0.595 (8)	4.609 ± 0.346 (8) **
$CD4^+$ T Cells[a]	6.202 ± 0.504 (8)	5.364 ± 0.522 (8)	6.125 ± 0.694 (8)	6.779 ± 0.463 (8)	5.064 ± 0.561 (8)	5.415 ± 0.315 (8)	2.522 ± 0.194 (8) **
$CD8^+$ T Cells[b]	3.804 ± 0.341 (8)	3.155 ± 0.301 (8)	3.740 ± 0.424 (8)	4.080 ± 0.339 (8)	3.124 ± 0.335 (8)	3.523 ± 0.225 (8)	1.807 ± 0.145 (8) **
B Cells	18.109 ± 1.243 (8)	15.863 ± 1.329 (8)	17.784 ± 1.804 (8)	19.624 ± 1.172 (8)	16.322 ± 1.742 (8)	16.563 ± 1.310 (8)	3.843 ± 0.342 (8) **
NK Cells	1.435 ± 0.122 (8)	1.318 ± 0.158 (8)	1.409 ± 0.147 (8)	1.472 ± 0.083 (8)	1.306 ± 0.157 (8)	1.256 ± 0.092 (8)	0.334 ± 0.020 (8) **
Mono/Mac Cells[c]	0.797 ± 0.062 (8)	0.680 ± 0.065 (8)	0.753 ± 0.080 (8)	0.873 ± 0.081 (8)	0.686 ± 0.076 (8)	0.646 ± 0.044 (8)	0.252 ± 0.019 (8) **
Neutrophils	0.600 ± 0.062 (8)	0.523 ± 0.048 (8)	0.598 ± 0.060 (8)	0.745 ± 0.086 (8)	0.657 ± 0.082 (8)	0.673 ± 0.020 (8)	0.093 ± 0.009 (8) **
Eosinophils	0.138 ± 0.011 (8)	0.118 ± 0.012 (8)	0.143 ± 0.016 (8)	0.162 ± 0.020 (8)	0.123 ± 0.013 (8)	0.126 ± 0.005 (8)	0.036 ± 0.003 (8) **
Total T Cells: B Cells Ratio	0.589 ± 0.023 (8)	0.575 ± 0.015 (8)	0.600 ± 0.021 (8)	0.595 ± 0.021 (8)	0.547 ± 0.013 (8)	0.591 ± 0.016 (8)	1.217 ± 0.053 (8) **
$CD4^+$ T Cells: $CD8^+$ T Cells Ratio	1.647 ± 0.050 (8) *	1.702 ± 0.047 (8)	1.644 ± 0.024 (8)	1.673 ± 0.046 (8)	1.613 ± 0.029 (8)	1.541 ± 0.027 (8)	1.410 ± 0.066 (8) *
Percent Total Lymphocytes	95.173 ± 1.156 (8) **	96.676 ± 0.504 (8)	95.400 ± 0.975 (8)	94.654 ± 1.315 (8)	90.551 ± 1.548 (8) *	90.525 ± 0.998 (8) *	97.404 ± 0.741 (8)
Percent Total T Cells	34.400 ± 0.883 (8)	33.885 ± 0.543 (8)	34.668 ± 0.776 (8)	34.505 ± 0.781 (8)	32.593 ± 0.482 (8)	34.268 ± 0.605 (8)	51.640 ± 1.058 (8) **
Percent $CD4^+$ T Cells[a]	58.150 ± 0.779 (8) **	58.384 ± 0.646 (8)	57.685 ± 0.442 (8)	58.168 ± 0.633 (8)	56.690 ± 0.326 (8)	56.089 ± 0.480 (8) *	54.724 ± 1.015 (8) *
Percent $CD8^+$ T Cells[b]	35.444 ± 0.608 (8)	34.415 ± 0.586 (8)	35.108 ± 0.290 (8)	34.874 ± 0.593 (8)	35.210 ± 0.458 (8)	36.436 ± 0.403 (8)	39.139 ± 0.960 (8) *
Percent B Cells	58.665 ± 0.817 (8)	59.056 ± 0.579 (8)	57.974 ± 0.671 (8)	58.181 ± 0.751 (8)	59.691 ± 0.578 (8)	58.110 ± 0.557 (8)	42.735 ± 0.986 (8) **
Percent NK Cells	4.606 ± 0.127 (8)	4.793 ± 0.214 (8)	4.626 ± 0.222 (8)	4.384 ± 0.126 (8)	4.713 ± 0.161 (8)	4.425 ± 0.057 (8)	3.795 ± 0.181 (8) *
Percent Mono/Mac Cells[c]	2.454 ± 0.095 (8) **	2.442 ± 0.092 (8)	2.357 ± 0.075 (8)	2.428 ± 0.135 (8)	2.260 ± 0.044 (8)	2.076 ± 0.082 (8) **	2.769 ± 0.125 (8)
Percent Neutrophils	1.842 ± 0.114 (8) *	1.928 ± 0.181 (8)	1.892 ± 0.088 (8)	2.074 ± 0.173 (8)	2.150 ± 0.102 (8)	2.220 ± 0.165 (8)	1.018 ± 0.067 (8) **
Percent Eosinophils	0.429 ± 0.025 (8)	0.425 ± 0.026 (8)	0.446 ± 0.018 (8)	0.450 ± 0.040 (8)	0.409 ± 0.013 (8)	0.416 ± 0.032 (8)	0.400 ± 0.042 (8)

LEGEND

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

[a]Helper/DTH - T Cell

[b]Cytotoxic T Cell

[c]Monocytes/Macrophage

All units are per 10^6 spleen cells unless otherwise noted

Statistical analysis 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 <= 0.05

** Statistically significant at P <= 0.01

CPS = Cyclophosphamide

** END OF REPORT **