

Study Number: I10482B

Test Type: TOX

Route: Dosing in Feed

Species/Strain: Rat/Harlan Sprague Dawley

Study Number:

Study Gender:

PWG Approval Date:

Version:

M04: Hematology

Test Compound: N-Butylbenzenesulfonamide

CAS Number: 3622-84-2

I10482B

Both

See web page for date of PWG Approval

v1.1.1

Date Report Requested: 11/20/2020

Time Report Requested: 13:05:24

Lab: Burleson Research Technologies

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F1 Males: Immunopathology

Treatment Groups (ppm)

	0	250	500	1000	15 mg/kg CPS
Erythrocyte (x10 ⁶)	8.502 ± 0.060 (12)	8.502 ± 0.037 (11)	8.493 ± 0.075 (12)	8.373 ± 0.102 (12)	8.525 ± 0.050 (8)
Hemoglobin (g/dL)	15.73 ± 0.13 (12) *	15.75 ± 0.10 (11)	15.63 ± 0.13 (12)	15.29 ± 0.13 (12)	14.93 ± 0.14 (8) **
Hematocrit (%)	51.85 ± 0.54 (12)	52.21 ± 0.31 (11)	52.23 ± 0.54 (12)	51.49 ± 0.49 (12)	49.31 ± 0.50 (8) **
MCV (fL)	60.98 ± 0.46 (12)	61.41 ± 0.35 (11)	61.51 ± 0.48 (12)	61.54 ± 0.49 (12)	57.81 ± 0.55 (8) **
MCH (pg)	18.50 ± 0.12 (12)	18.52 ± 0.13 (11)	18.39 ± 0.12 (12)	18.27 ± 0.16 (12)	17.51 ± 0.13 (8) **
MCHC (g/dL)	30.33 ± 0.13 (12) **	30.17 ± 0.16 (11)	29.90 ± 0.19 (12) *	29.69 ± 0.12 (12) **	30.28 ± 0.22 (8)
Platelets (x10 ³)	694.7 ± 22.9 (12)	746.7 ± 28.7 (11)	729.2 ± 20.4 (12)	694.5 ± 30.6 (12)	683.0 ± 31.2 (8)
Leukocyte (x10 ³)	12.50 ± 0.84 (12) **	10.17 ± 0.68 (11) *	10.09 ± 0.83 (12) *	9.60 ± 0.44 (12) **	3.79 ± 0.38 (8) **
Reticulocytes (x10 ³)	212.52 ± 9.46 (12)	213.72 ± 5.29 (11)	217.63 ± 6.94 (12)	207.21 ± 8.09 (12)	23.59 ± 2.90 (8) **
Percent Reticulocytes	2.498 ± 0.110 (12)	2.515 ± 0.065 (11)	2.564 ± 0.080 (12)	2.477 ± 0.094 (12)	0.276 ± 0.035 (8) **

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F1 Females: Immunopathology

Treatment Groups (ppm)

	0	250	500	1000	15 mg/kg CPS
Erythrocyte (x10 ⁶)	7.966 ± 0.079 (12)	8.083 ± 0.091 (12)	7.988 ± 0.059 (12)	7.728 ± 0.074 (12)	7.770 ± 0.190 (8)
Hemoglobin (g/dL)	15.48 ± 0.11 (12)	15.51 ± 0.10 (12)	15.61 ± 0.16 (12)	15.15 ± 0.12 (12)	14.53 ± 0.33 (8) **
Hematocrit (%)	47.74 ± 0.32 (12)	48.98 ± 0.30 (12)	48.40 ± 0.51 (12)	47.30 ± 0.45 (12)	44.91 ± 1.10 (8) **
MCV (fL)	59.95 ± 0.51 (12)	60.66 ± 0.45 (12)	60.59 ± 0.41 (12)	61.21 ± 0.28 (12)	57.83 ± 0.37 (8) *
MCH (pg)	19.46 ± 0.19 (12)	19.22 ± 0.16 (12)	19.53 ± 0.11 (12)	19.60 ± 0.11 (12)	18.71 ± 0.16 (8) *
MCHC (g/dL)	32.43 ± 0.19 (12)	31.68 ± 0.07 (12) **	32.24 ± 0.10 (12)	32.01 ± 0.23 (12)	32.36 ± 0.21 (8)
Platelets (x10 ³)	766.8 ± 36.9 (12)	804.7 ± 37.6 (12)	728.4 ± 36.3 (12)	767.8 ± 28.6 (12)	783.1 ± 49.5 (8)
Leukocyte (x10 ³)	9.50 ± 0.48 (12)	10.53 ± 0.66 (12)	9.48 ± 0.41 (12)	10.69 ± 0.65 (12)	2.97 ± 0.16 (8) **
Reticulocytes (x10 ³)	218.28 ± 12.14 (12)	233.70 ± 10.06 (12)	233.12 ± 12.12 (12)	248.63 ± 9.40 (12)	16.99 ± 2.05 (8) **
Percent Reticulocytes	2.749 ± 0.162 (12) *	2.897 ± 0.132 (12)	2.922 ± 0.158 (12)	3.217 ± 0.113 (12)	0.218 ± 0.024 (8) **

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LEGEND

Data are displayed as mean \pm SEM (N) 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 $P \leq 0.05$

** Statistically significant at $P \leq 0.01$

MCV - mean corpuscular volume; MCH - mean corpuscular hemoglobin; MCHC - mean corpuscular hemoglobin concentration

CPS = Cyclophosphamide

**** END OF REPORT ****