

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

PA06: Organ Weights Summary
Test Compound: N-Butylbenzenesulfonamide
CAS Number: 3622-84-2

Date Report Requested: 11/05/2020
Time Report Requested: 06:57:50
Lab: Burleson Research Technologies

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

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Females: SRBC

	Treatment Groups (ppm)				
	0	313	625	1250	2500
Terminal Body Wt. (g)	24.7 ± 0.6 (8)	24.0 ± 1.0 (8)	23.5 ± 0.6 (8)	22.8 ± 0.5 (8)	24.8 ± 0.5 (8)
Spleen					
Absolute (g)	0.112 ± 0.006 (8) *	0.105 ± 0.005 (8)	0.103 ± 0.004 (8)	0.100 ± 0.005 (8)	0.105 ± 0.003 (8)
Relative (mg/g)	4.52 ± 0.20 (8) *	4.36 ± 0.10 (8)	4.40 ± 0.18 (8)	4.36 ± 0.18 (8)	4.24 ± 0.09 (8)
Thymus					
Absolute (g)	0.057 ± 0.004 (8)	0.052 ± 0.002 (8)	0.053 ± 0.002 (8)	0.055 ± 0.003 (8)	0.055 ± 0.003 (8)
Relative (mg/g)	2.29 ± 0.15 (8)	2.18 ± 0.09 (8)	2.27 ± 0.10 (8)	2.42 ± 0.14 (8)	2.22 ± 0.09 (8)

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Females: SRBC

	Treatment Groups (ppm)	
	5000	50 mg/kg CPS
Terminal Body Wt. (g)	22.5 ± 0.5 (8)	23.5 ± 0.7 (8)
Spleen		
Absolute (g)	0.089 ± 0.004 (8) **	0.049 ± 0.002 (8) **
Relative (mg/g)	3.96 ± 0.14 (8)	2.10 ± 0.05 (8) **
Thymus		
Absolute (g)	0.052 ± 0.002 (8)	0.025 ± 0.002 (8) **
Relative (mg/g)	2.32 ± 0.06 (8)	1.07 ± 0.08 (8) **

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Females: KLH

	Treatment Groups (ppm)				
	0	313	625	1250	2500
Terminal Body Wt. (g)	24.3 ± 1.0 (8) **	24.3 ± 0.4 (8)	24.3 ± 0.6 (8)	23.9 ± 0.9 (8)	22.8 ± 0.4 (8)
Spleen					
Absolute (g)	0.078 ± 0.004 (8)	0.086 ± 0.003 (8)	0.087 ± 0.002 (8)	0.080 ± 0.005 (8)	0.086 ± 0.004 (8)
Relative (mg/g)	3.19 ± 0.11 (8)	3.54 ± 0.11 (8)	3.61 ± 0.11 (8)	3.34 ± 0.15 (8)	3.79 ± 0.19 (8) *
Thymus					
Absolute (g)	0.055 ± 0.003 (8)	0.054 ± 0.002 (8)	0.055 ± 0.003 (8)	0.057 ± 0.003 (8)	0.054 ± 0.002 (8)
Relative (mg/g)	2.25 ± 0.09 (8) *	2.22 ± 0.10 (8)	2.28 ± 0.11 (8)	2.39 ± 0.10 (8)	2.36 ± 0.09 (8)

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Females: KLH

	Treatment Groups (ppm)	
	5000	50 mg/kg CPS
Terminal Body Wt. (g)	21.5 ± 0.3 (8) **	21.9 ± 0.4 (8) *
Spleen		
Absolute (g)	0.073 ± 0.004 (8)	0.058 ± 0.004 (8) **
Relative (mg/g)	3.40 ± 0.16 (8)	2.66 ± 0.19 (8) *
Thymus		
Absolute (g)	0.053 ± 0.002 (8)	0.017 ± 0.001 (8) **
Relative (mg/g)	2.45 ± 0.08 (8)	0.80 ± 0.07 (8) **

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Females: Immunophenotyping

	Treatment Groups (ppm)				
	0	313	625	1250	2500
Terminal Body Wt. (g)	24.7 ± 0.7 (8)	25.8 ± 1.2 (8)	24.9 ± 0.4 (8)	25.2 ± 0.4 (8)	24.8 ± 0.7 (8)
Spleen					
Absolute (g)	0.087 ± 0.003 (8)	0.084 ± 0.003 (8)	0.085 ± 0.002 (8)	0.088 ± 0.004 (8)	0.086 ± 0.003 (8)
Relative (mg/g)	3.52 ± 0.13 (8)	3.27 ± 0.14 (8)	3.41 ± 0.10 (8)	3.51 ± 0.13 (8)	3.45 ± 0.09 (8)
Thymus					
Absolute (g)	0.055 ± 0.005 (8)	0.065 ± 0.002 (8)	0.054 ± 0.002 (8)	0.056 ± 0.001 (8)	0.059 ± 0.002 (8)
Relative (mg/g)	2.23 ± 0.18 (8)	2.53 ± 0.05 (8)	2.16 ± 0.08 (8)	2.20 ± 0.05 (8)	2.39 ± 0.08 (8)

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Females: Immunophenotyping

	Treatment Groups (ppm)	
	5000	50 mg/kg CPS
Terminal Body Wt. (g)	22.9 ± 0.5 (8)	23.8 ± 0.6 (8)
Spleen		
Absolute (g)	0.081 ± 0.002 (8)	0.053 ± 0.002 (8) **
Relative (mg/g)	3.55 ± 0.09 (8)	2.26 ± 0.11 (8) **
Thymus		
Absolute (g)	0.052 ± 0.003 (8)	0.028 ± 0.002 (8) **
Relative (mg/g)	2.26 ± 0.09 (8)	1.17 ± 0.09 (8) **

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Females: CTL

	Treatment Groups (ppm)				
	0	313	625	1250	2500
Terminal Body Wt. (g)	22.8 ± 0.6 (8) *	23.2 ± 0.4 (8)	22.3 ± 0.6 (8)	23.8 ± 0.5 (8)	22.0 ± 0.3 (8)
Spleen					
Absolute (g)	0.144 ± 0.006 (8) **	0.144 ± 0.007 (8)	0.136 ± 0.009 (8)	0.137 ± 0.007 (8)	0.125 ± 0.006 (8)
Relative (mg/g)	6.33 ± 0.22 (8) **	6.20 ± 0.29 (8)	6.07 ± 0.22 (8)	5.77 ± 0.25 (8)	5.68 ± 0.28 (8)
Thymus					
Absolute (g)	0.051 ± 0.003 (8)	0.056 ± 0.004 (8)	0.052 ± 0.003 (8)	0.060 ± 0.005 (8)	0.049 ± 0.004 (8)
Relative (mg/g)	2.26 ± 0.18 (8)	2.39 ± 0.14 (8)	2.33 ± 0.11 (8)	2.54 ± 0.20 (8)	2.23 ± 0.17 (8)

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Females: CTL

	Treatment Groups (ppm)	
	5000	50 mg/kg CPS
Terminal Body Wt. (g)	20.3 ± 0.7 (8) *	20.2 ± 0.7 (7) *
Spleen		
Absolute (g)	0.107 ± 0.008 (8) **	0.036 ± 0.003 (7) **
Relative (mg/g)	5.20 ± 0.22 (8) **	1.79 ± 0.11 (7) **
Thymus		
Absolute (g)	0.045 ± 0.003 (8)	0.014 ± 0.003 (7) **
Relative (mg/g)	2.18 ± 0.12 (8)	0.70 ± 0.15 (7) **

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Females: Immunopath

	Treatment Groups (ppm)														
	0			313			625			1250			2500		
Terminal Body Wt. (g)	23.6	± 0.5	(8)	22.5	± 0.4	(8)	23.4	± 0.7	(8)	23.9	± 0.5	(8)	23.9	± 0.5	(8)
R. Adrenal gland															
Absolute (g)	0.0046 ± 0.0001 (8)			0.0045 ± 0.0002 (8)			0.0047 ± 0.0004 (8)			0.0050 ± 0.0003 (8)			0.0052 ± 0.0005 (8)		
Relative (mg/g)	0.20 ± 0.01 (8)			0.20 ± 0.01 (8)			0.20 ± 0.01 (8)			0.21 ± 0.01 (8)			0.21 ± 0.02 (8)		
R. Kidney															
Absolute (g)	0.16 ± 0.00 (8) *			0.15 ± 0.00 (8)			0.16 ± 0.00 (8)			0.17 ± 0.01 (8)			0.17 ± 0.00 (8)		
Relative (mg/g)	6.79 ± 0.14 (8) **			6.85 ± 0.20 (8)			6.93 ± 0.18 (8)			6.90 ± 0.23 (8)			7.08 ± 0.13 (8)		
Liver															
Absolute (g)	1.13 ± 0.03 (8) **			1.10 ± 0.02 (8)			1.20 ± 0.04 (8)			1.26 ± 0.04 (8) *			1.35 ± 0.04 (8) **		
Relative (mg/g)	48.02 ± 0.66 (8) **			48.91 ± 0.60 (8)			51.15 ± 0.58 (8) **			52.65 ± 1.00 (8) **			56.62 ± 0.64 (8) **		
Spleen															
Absolute (g)	0.077 ± 0.002 (8)			0.075 ± 0.002 (8)			0.075 ± 0.002 (8)			0.080 ± 0.003 (8)			0.078 ± 0.003 (8)		
Relative (mg/g)	3.28 ± 0.09 (8)			3.33 ± 0.10 (8)			3.22 ± 0.10 (8)			3.37 ± 0.12 (8)			3.29 ± 0.10 (8)		
Thymus															
Absolute (g)	0.057 ± 0.003 (8)			0.062 ± 0.003 (8)			0.065 ± 0.002 (8)			0.059 ± 0.003 (8)			0.061 ± 0.004 (8)		
Relative (mg/g)	2.41 ± 0.17 (8)			2.74 ± 0.12 (8)			2.80 ± 0.14 (8)			2.49 ± 0.14 (8)			2.56 ± 0.14 (8)		

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Females: Immunopath

	Treatment Groups (ppm)					
	5000			50 mg/kg CPS		
Terminal Body Wt. (g)	22.5	± 0.4	(8)	23.7	± 0.7	(8)
R. Adrenal gland						
Absolute (g)	0.0045	± 0.0002	(8)	0.0052	± 0.0004	(8)
Relative (mg/g)	0.20	± 0.01	(8)	0.22	± 0.02	(8)
R. Kidney						
Absolute (g)	0.17	± 0.00	(8)	0.16	± 0.00	(8)
Relative (mg/g)	7.56	± 0.17	(8) **	6.56	± 0.15	(8)
Liver						
Absolute (g)	1.41	± 0.03	(8) **	1.17	± 0.04	(8)
Relative (mg/g)	62.73	± 0.61	(8) **	49.40	± 0.88	(8)
Spleen						
Absolute (g)	0.080	± 0.003	(8)	0.048	± 0.002	(8) **
Relative (mg/g)	3.54	± 0.11	(8)	2.04	± 0.09	(8) **
Thymus						
Absolute (g)	0.060	± 0.002	(8)	0.031	± 0.004	(8) **
Relative (mg/g)	2.65	± 0.07	(8)	1.31	± 0.15	(8) **

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LEGEND

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

Relative organ weights (organ-weight-to-body-weight ratios) are given as mg organ weight/g body weight

Statistical analysis performed by Jonckheere (trend) and Williams or Dunnett (pairwise) tests.

Statistical analysis for the positive control group compared to the vehicle control group was performed using the t-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 ****