

Study Number: I10482B
Test Type: TOX
Route: Dosing in Feed
Species/Strain: Rat/Harlan Sprague Dawley

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

Date Report Requested: 11/20/2020
Time Report Requested: 14:35:39
Lab: Burleson Research Technologies

Study Number: I10482B
Study Gender: Both
PWG Approval Date: See web page for date of PWG Approval
Version: v1.1.1

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F1 Males: SRBC

	Treatment Groups (ppm)									
	0		250		500		1000		15 mg/kg CPS	
Terminal Body Wt. (g)	354.3	± 6.4 (12) **	357.0	± 5.8 (12)	330.8	± 4.7 (12) **	316.7	± 6.0 (12) **	335.5	± 3.0 (8) *
Spleen										
Absolute (g)	0.675	± 0.027 (12)	0.751	± 0.026 (12)	0.659	± 0.027 (12)	0.617	± 0.027 (12)	0.477	± 0.021 (8) **
Relative (mg/g)	1.90	± 0.06 (12)	2.10	± 0.06 (12)	1.99	± 0.07 (12)	1.95	± 0.07 (12)	1.42	± 0.06 (8) **
Thymus										
Absolute (g)	0.536	± 0.024 (12) **	0.562	± 0.025 (12)	0.473	± 0.014 (12) *	0.471	± 0.020 (12) *	0.180	± 0.010 (8) **
Relative (mg/g)	1.51	± 0.06 (12)	1.57	± 0.06 (12)	1.43	± 0.03 (12)	1.48	± 0.05 (12)	0.54	± 0.03 (8) **

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F1 Females: SRBC

	Treatment Groups (ppm)														
	0			250			500			1000			15 mg/kg CPS		
Terminal Body Wt. (g)	231.3	± 3.9	(12)	226.3	± 4.0	(12)	214.1	± 2.5	(12) **	212.5	± 4.7	(11) **	223.3	± 2.9	(8)
Spleen															
Absolute (g)	0.591	± 0.019	(12) **	0.606	± 0.023	(11)	0.551	± 0.025	(12)	0.530	± 0.016	(11)	0.434	± 0.014	(8) **
Relative (mg/g)	2.56	± 0.09	(12)	2.69	± 0.10	(11)	2.57	± 0.10	(12)	2.50	± 0.08	(11)	1.95	± 0.07	(8) **
Thymus															
Absolute (g)	0.369	± 0.014	(12)	0.376	± 0.014	(12)	0.376	± 0.012	(12)	0.373	± 0.017	(11)	0.146	± 0.004	(8) **
Relative (mg/g)	1.60	± 0.07	(12) *	1.67	± 0.06	(12)	1.76	± 0.05	(12)	1.75	± 0.05	(11)	0.65	± 0.02	(8) **

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F1 Males: KLH

Treatment Groups (ppm)

	0	250	500	1000	15 mg/kg CPS
Terminal Body Wt. (g)	400.3 ± 8.0 (12) **	389.0 ± 6.2 (12)	362.8 ± 4.8 (12) **	365.6 ± 6.5 (12) **	374.9 ± 5.5 (8) *
Spleen					
Absolute (g)	0.699 ± 0.030 (12) *	0.685 ± 0.031 (12)	0.643 ± 0.024 (12)	0.601 ± 0.040 (12)	0.412 ± 0.033 (8) **
Relative (mg/g)	1.75 ± 0.07 (12)	1.76 ± 0.08 (12)	1.77 ± 0.07 (12)	1.66 ± 0.11 (12)	1.10 ± 0.09 (8) **
Thymus					
Absolute (g)	0.459 ± 0.023 (12)	0.477 ± 0.018 (12)	0.434 ± 0.027 (12)	0.464 ± 0.022 (12)	0.081 ± 0.004 (8) **
Relative (mg/g)	1.15 ± 0.06 (12)	1.22 ± 0.04 (12)	1.20 ± 0.08 (12)	1.28 ± 0.06 (12)	0.22 ± 0.01 (8) **

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F1 Females: KLH

Treatment Groups (ppm)

	0	250	500	1000	15 mg/kg CPS
Terminal Body Wt. (g)	235.9 ± 4.2 (12)	232.7 ± 5.2 (12)	234.5 ± 4.3 (12)	229.4 ± 4.3 (12)	238.9 ± 2.1 (8)
Spleen					
Absolute (g)	0.546 ± 0.024 (12)	0.523 ± 0.022 (12)	0.529 ± 0.017 (12)	0.557 ± 0.028 (12)	0.368 ± 0.022 (8) **
Relative (mg/g)	2.31 ± 0.08 (12)	2.25 ± 0.09 (12)	2.26 ± 0.07 (12)	2.42 ± 0.09 (12)	1.54 ± 0.10 (8) **
Thymus					
Absolute (g)	0.354 ± 0.015 (12)	0.329 ± 0.014 (12)	0.337 ± 0.017 (12)	0.333 ± 0.015 (12)	0.083 ± 0.010 (8) **
Relative (mg/g)	1.51 ± 0.08 (12)	1.42 ± 0.07 (12)	1.44 ± 0.07 (12)	1.45 ± 0.05 (12)	0.35 ± 0.04 (8) **

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F1 Males: Immunophenotyping

	Treatment Groups (ppm)														
	0			250			500			1000			15 mg/kg CPS		
Terminal Body Wt. (g)	380.3	± 6.0	(12) **	375.4	± 6.5	(12)	354.5	± 7.4	(11) **	356.7	± 3.5	(12) **	409.9	± 6.2	(8) **
Spleen															
Absolute (g)	0.688	± 0.025	(12)	0.663	± 0.040	(12)	0.602	± 0.025	(11)	0.674	± 0.018	(12)	0.525	± 0.020	(8) **
Relative (mg/g)	1.81	± 0.06	(12)	1.76	± 0.09	(12)	1.70	± 0.08	(11)	1.89	± 0.05	(12)	1.28	± 0.04	(8) **
Thymus															
Absolute (g)	0.522	± 0.034	(12)	0.524	± 0.023	(12)	0.506	± 0.021	(11)	0.510	± 0.014	(12)	0.183	± 0.017	(8) **
Relative (mg/g)	1.37	± 0.07	(12)	1.40	± 0.06	(12)	1.43	± 0.04	(11)	1.43	± 0.04	(12)	0.44	± 0.04	(8) **

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F1 Females: Immunophenotyping

	Treatment Groups (ppm)														
	0			250			500			1000			15 mg/kg CPS		
Terminal Body Wt. (g)	233.6	± 3.8	(12)	231.8	± 3.4	(12)	224.1	± 4.2	(12)	215.7	± 2.4	(12) **	238.3	± 2.0	(8)
Spleen															
Absolute (g)	0.574	± 0.019	(12)	0.548	± 0.021	(12)	0.536	± 0.025	(12)	0.535	± 0.017	(12)	0.425	± 0.019	(8) **
Relative (mg/g)	2.46	± 0.07	(12)	2.36	± 0.08	(12)	2.40	± 0.11	(12)	2.48	± 0.07	(12)	1.79	± 0.09	(8) **
Thymus															
Absolute (g)	0.421	± 0.019	(12)	0.379	± 0.013	(12)	0.388	± 0.014	(12)	0.384	± 0.015	(12)	0.150	± 0.012	(8) **
Relative (mg/g)	1.80	± 0.07	(12)	1.63	± 0.05	(12)	1.74	± 0.07	(12)	1.78	± 0.07	(12)	0.63	± 0.05	(8) **

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F1 Males: CTL

	Treatment Groups (ppm)														
	0			250			500			1000			15 mg/kg CPS		
Terminal Body Wt. (g)	356.4	± 5.6	(12) *	339.9	± 5.5	(11)	347.5	± 4.9	(12)	333.1	± 5.8	(12) *	321.3	± 5.3	(8) **
Lung															
Absolute (g)	1.83	± 0.06	(12)	1.95	± 0.05	(11)	1.98	± 0.04	(12)	1.97	± 0.07	(12)	2.06	± 0.09	(8)
Relative (mg/g)	5.13	± 0.18	(12) **	5.75	± 0.14	(11) *	5.69	± 0.10	(12) *	5.92	± 0.21	(12) **	6.44	± 0.32	(8) **
Spleen															
Absolute (g)	0.609	± 0.015	(12)	0.623	± 0.017	(11)	0.650	± 0.020	(12)	0.614	± 0.027	(12)	0.326	± 0.040	(8) **
Relative (mg/g)	1.71	± 0.03	(12)	1.84	± 0.06	(11)	1.87	± 0.05	(12)	1.84	± 0.07	(12)	1.01	± 0.12	(8) **
Thymus															
Absolute (g)	0.402	± 0.017	(12)	0.431	± 0.019	(11)	0.459	± 0.019	(12)	0.459	± 0.022	(12)	0.093	± 0.009	(8) **
Relative (mg/g)	1.13	± 0.04	(12) **	1.27	± 0.06	(11)	1.32	± 0.05	(12) *	1.37	± 0.05	(12) **	0.29	± 0.02	(8) **

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F1 Females: CTL

Treatment Groups (ppm)

	0	250	500	1000	15 mg/kg CPS
Terminal Body Wt. (g)	225.5 ± 3.0 (12) **	217.8 ± 2.3 (12)	211.3 ± 4.0 (12) *	209.5 ± 6.0 (12) **	209.0 ± 3.1 (7) **
Lung					
Absolute (g)	1.62 ± 0.06 (12)	1.50 ± 0.04 (12)	1.49 ± 0.05 (12)	1.56 ± 0.06 (12)	1.73 ± 0.08 (7)
Relative (mg/g)	7.21 ± 0.28 (12)	6.87 ± 0.19 (12)	7.05 ± 0.22 (12)	7.48 ± 0.24 (12)	8.25 ± 0.34 (7) *
Spleen					
Absolute (g)	0.555 ± 0.039 (12)	0.514 ± 0.022 (12)	0.532 ± 0.012 (12)	0.512 ± 0.019 (12)	0.306 ± 0.018 (7) **
Relative (mg/g)	2.45 ± 0.16 (12)	2.36 ± 0.10 (12)	2.52 ± 0.05 (12)	2.45 ± 0.07 (12)	1.47 ± 0.10 (7) **
Thymus					
Absolute (g)	0.346 ± 0.010 (12)	0.382 ± 0.020 (12)	0.348 ± 0.012 (12)	0.334 ± 0.019 (12)	0.084 ± 0.007 (7) **
Relative (mg/g)	1.54 ± 0.05 (12)	1.76 ± 0.09 (12)	1.66 ± 0.07 (12)	1.60 ± 0.08 (12)	0.40 ± 0.04 (7) **

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F1 Males: Immunopathology

	Treatment Groups (ppm)														
	0			250			500			1000			15 mg/kg CPS		
Terminal Body Wt. (g)	375.9	± 5.7	(12)	361.9	± 6.4	(11)	347.6	± 7.9	(12) **	346.3	± 4.6	(12) **	407.9	± 4.4	(8) **
R. Adrenal gland															
Absolute (g)	0.0317	± 0.0017	(12)	0.0262	± 0.0030	(11)	0.0309	± 0.0016	(12)	0.0282	± 0.0014	(12)	0.0333	± 0.0014	(8)
Relative (mg/g)	0.08	± 0.01	(12)	0.07	± 0.01	(11)	0.09	± 0.01	(12)	0.08	± 0.00	(12)	0.08	± 0.00	(8)
R. Kidney															
Absolute (g)	1.39	± 0.02	(12)	1.38	± 0.03	(11)	1.37	± 0.04	(12)	1.49	± 0.03	(12)	1.52	± 0.04	(8) *
Relative (mg/g)	3.71	± 0.05	(12)	3.81	± 0.07	(11)	3.95	± 0.08	(12) *	4.30	± 0.06	(12) **	3.73	± 0.10	(8)
Liver															
Absolute (g)	14.79	± 0.27	(12)	14.64	± 0.28	(11)	14.76	± 0.48	(12)	15.46	± 0.31	(12)	14.60	± 0.34	(8)
Relative (mg/g)	39.35	± 0.46	(12)	40.47	± 0.53	(11)	42.37	± 0.60	(12) **	44.62	± 0.44	(12) **	35.76	± 0.53	(8) **
Lung															
Absolute (g)	2.53	± 0.06	(12) *	2.46	± 0.09	(11)	2.32	± 0.06	(12)	2.38	± 0.06	(12)	2.85	± 0.08	(8) **
Relative (mg/g)	6.73	± 0.08	(12)	6.79	± 0.18	(11)	6.69	± 0.14	(12)	6.88	± 0.19	(12)	6.98	± 0.19	(8)
Spleen															
Absolute (g)	0.735	± 0.032	(12) *	0.632	± 0.026	(11) *	0.633	± 0.028	(12) *	0.636	± 0.023	(12) *	0.556	± 0.035	(8) **
Relative (mg/g)	1.96	± 0.09	(12)	1.75	± 0.08	(11)	1.82	± 0.06	(12)	1.84	± 0.07	(12)	1.36	± 0.08	(8) **
Thymus															
Absolute (g)	0.563	± 0.031	(12)	0.508	± 0.018	(11)	0.491	± 0.022	(12)	0.502	± 0.022	(12)	0.196	± 0.018	(8) **
Relative (mg/g)	1.50	± 0.08	(12)	1.40	± 0.05	(11)	1.41	± 0.06	(12)	1.45	± 0.06	(12)	0.48	± 0.04	(8) **

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F1 Females: Immunopathology

	Treatment Groups (ppm)														
	0			250			500			1000			15 mg/kg CPS		
Terminal Body Wt. (g)	218.4	± 5.6	(12)	220.2	± 3.0	(12)	219.3	± 4.2	(12)	213.3	± 2.9	(12)	228.9	± 2.2	(8)
R. Adrenal gland															
Absolute (g)	0.0328	± 0.0010	(12)	0.0344	± 0.0016	(12)	0.0343	± 0.0014	(12)	0.0321	± 0.0009	(12)	0.0372	± 0.0016	(8) *
Relative (mg/g)	0.15	± 0.00	(12)	0.16	± 0.01	(12)	0.16	± 0.01	(12)	0.15	± 0.01	(12)	0.16	± 0.01	(8)
R. Kidney															
Absolute (g)	0.82	± 0.02	(12) *	0.88	± 0.03	(12)	0.85	± 0.03	(12)	0.89	± 0.01	(12)	0.88	± 0.02	(8) *
Relative (mg/g)	3.74	± 0.06	(12)	3.98	± 0.14	(12)	3.86	± 0.07	(12)	4.16	± 0.08	(12) **	3.83	± 0.07	(8)
Liver															
Absolute (g)	8.30	± 0.32	(12)	8.85	± 0.44	(12)	8.65	± 0.24	(12)	8.79	± 0.18	(12)	8.07	± 0.20	(8)
Relative (mg/g)	37.88	± 0.66	(12)	40.18	± 1.95	(12)	39.39	± 0.51	(12)	41.16	± 0.41	(12) *	35.26	± 0.73	(8) *
Lung															
Absolute (g)	2.03	± 0.07	(12)	1.95	± 0.04	(12)	2.02	± 0.07	(12)	1.89	± 0.05	(12)	2.23	± 0.08	(8)
Relative (mg/g)	9.29	± 0.23	(12)	8.84	± 0.15	(12)	9.21	± 0.25	(12)	8.86	± 0.23	(12)	9.77	± 0.40	(8)
Spleen															
Absolute (g)	0.552	± 0.032	(12)	0.504	± 0.015	(12)	0.551	± 0.029	(12)	0.561	± 0.017	(12)	0.426	± 0.014	(8) **
Relative (mg/g)	2.52	± 0.10	(12)	2.29	± 0.06	(12)	2.51	± 0.11	(12)	2.63	± 0.06	(12)	1.86	± 0.06	(8) **
Thymus															
Absolute (g)	0.420	± 0.015	(12)	0.385	± 0.008	(12)	0.405	± 0.013	(12)	0.402	± 0.023	(12)	0.144	± 0.008	(8) **
Relative (mg/g)	1.92	± 0.04	(12)	1.75	± 0.03	(12)	1.85	± 0.06	(12)	1.88	± 0.10	(12)	0.63	± 0.04	(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 ****