

Study Number: C05051-01

Test Type: TOX

Route: Dosing in Water

Species/Strain: Rat/Harlan Sprague Dawley

Study Number:

Study Gender:

PWG Approval Date

PA06: Organ Weights Summary

Test Compound: 1-Butyl-1-Methylpyrrolidinium Chloride

CAS Number: 479500-35-1

C05051-01

Both

See web page for date of PWG Approval

Date Report Requested: 05/12/2020

Time Report Requested: 09:03:00

Lab: NTP

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Males

Treatment Groups (mg/mL)

	0	0.3	1	3
Terminal Body Wt. (g)	429.6 ± 7.5 (10) **	417.0 ± 11.0 (10)	412.6 ± 7.5 (10)	399.0 ± 6.8 (10) *
Heart				
Absolute (g)	1.56 ± 0.03 (10)	1.47 ± 0.03 (10)	1.48 ± 0.02 (10)	1.47 ± 0.04 (10)
Relative (mg/g)	3.64 ± 0.06 (10)	3.53 ± 0.04 (10)	3.60 ± 0.05 (10)	3.68 ± 0.08 (10)
R. Kidney				
Absolute (g)	1.48 ± 0.04 (10)	1.42 ± 0.07 (10)	1.42 ± 0.04 (10)	1.48 ± 0.03 (10)
Relative (mg/g)	3.44 ± 0.08 (10)	3.40 ± 0.10 (10)	3.44 ± 0.06 (10)	3.71 ± 0.10 (10)
Liver				
Absolute (g)	16.29 ± 0.47 (10)	16.42 ± 0.74 (10)	15.70 ± 0.57 (10)	15.04 ± 0.35 (10)
Relative (mg/g)	37.91 ± 0.78 (10)	39.24 ± 0.87 (10)	37.99 ± 0.97 (10)	37.71 ± 0.66 (10)
Lung				
Absolute (g)	2.67 ± 0.16 (10)	2.61 ± 0.09 (10)	2.48 ± 0.11 (10)	2.54 ± 0.20 (10)
Relative (mg/g)	6.22 ± 0.36 (10)	6.26 ± 0.18 (10)	6.02 ± 0.29 (10)	6.37 ± 0.50 (10)
R. Testis				
Absolute (g)	2.004 ± 0.043 (10)	1.884 ± 0.061 (10)	1.867 ± 0.034 (10)	1.874 ± 0.058 (10)
Relative (mg/g)	4.67 ± 0.09 (10)	4.52 ± 0.09 (10)	4.54 ± 0.14 (10)	4.71 ± 0.17 (10)
Thymus				
Absolute (g)	0.362 ± 0.027 (10)	0.367 ± 0.018 (10)	0.365 ± 0.017 (10)	0.343 ± 0.016 (10)
Relative (mg/g)	0.84 ± 0.06 (10)	0.88 ± 0.04 (10)	0.88 ± 0.04 (10)	0.86 ± 0.04 (10)

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Females

Treatment Groups (mg/mL)

	0	1	3	6
Terminal Body Wt. (g)	250.1 ± 3.8 (10) **	249.4 ± 5.1 (10)	251.6 ± 6.5 (10)	220.4 ± 3.9 (10) **
Heart				
Absolute (g)	0.99 ± 0.02 (10)	0.98 ± 0.03 (10)	1.05 ± 0.03 (10)	0.95 ± 0.02 (10)
Relative (mg/g)	3.98 ± 0.08 (10) **	3.93 ± 0.10 (10)	4.19 ± 0.07 (10)	4.32 ± 0.09 (10) **
R. Kidney				
Absolute (g)	0.84 ± 0.01 (10)	0.85 ± 0.02 (10)	0.88 ± 0.02 (10)	0.83 ± 0.01 (10)
Relative (mg/g)	3.38 ± 0.06 (10) **	3.43 ± 0.06 (10)	3.49 ± 0.09 (10)	3.77 ± 0.06 (10) **
Liver				
Absolute (g)	9.11 ± 0.26 (10) **	8.46 ± 0.36 (10)	8.49 ± 0.33 (10)	7.28 ± 0.21 (10) **
Relative (mg/g)	36.41 ± 0.91 (10) **	33.78 ± 0.88 (10) *	33.69 ± 0.75 (10) *	33.00 ± 0.57 (10) **
Lung				
Absolute (g)	2.19 ± 0.14 (10)	2.46 ± 0.19 (10)	2.17 ± 0.08 (10)	2.35 ± 0.10 (10)
Relative (mg/g)	8.82 ± 0.64 (10) *	9.88 ± 0.78 (10)	8.66 ± 0.32 (10)	10.70 ± 0.53 (10)
Thymus				
Absolute (g)	0.272 ± 0.016 (10)	0.261 ± 0.022 (10)	0.300 ± 0.016 (10)	0.259 ± 0.012 (10)
Relative (mg/g)	1.09 ± 0.07 (10)	1.05 ± 0.08 (10)	1.19 ± 0.05 (10)	1.18 ± 0.06 (10)

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LEGEND

Values are displayed as mean \pm SEM (N).

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 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 $P \leq 0.01$

**** END OF REPORT ****