

Study Number: C05049-03

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: N-Butylpyridinium Chloride

C05049-03

Both

See web page for date of PWG Approval

Date Report Requested: 05/12/2020

Time Report Requested: 12:52:48

Lab: NTP

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| | | Males | | | | | | | |
|-----------------------|-----------------|--------------------------|----------------|-------|--------------|-------|---------------|-------|----------------|
| | | Treatment Groups (mg/ml) | | | | | | | |
| | | 0 | | 1 | | 3 | | 6 | |
| Terminal Body Wt. (g) | | 278.3 | ± 3.4 (10) ** | 282.6 | ± 5.1 (5) | 257.8 | ± 3.8 (5) * | 189.9 | ± 9.5 (5) ** |
| Heart | | | | | | | | | |
| | Absolute (g) | 0.11 | ± 0.00 (10) ** | 0.12 | ± 0.00 (5) | 0.13 | ± 0.01 (5) * | 0.12 | ± 0.01 (5) * |
| | Relative (mg/g) | 0.38 | ± 0.00 (10) ** | 0.41 | ± 0.01 (5) * | 0.50 | ± 0.02 (5) ** | 0.61 | ± 0.02 (5) ** |
| R. Kidney | | | | | | | | | |
| | Absolute (g) | 0.11 | ± 0.00 (10) * | 0.12 | ± 0.01 (5) | 0.11 | ± 0.00 (5) | 0.09 | ± 0.00 (5) ** |
| | Relative (mg/g) | 0.41 | ± 0.01 (10) ** | 0.41 | ± 0.01 (5) | 0.43 | ± 0.01 (5) | 0.48 | ± 0.02 (5) ** |
| Liver | | | | | | | | | |
| | Absolute (g) | 1.36 | ± 0.04 (10) ** | 1.25 | ± 0.04 (5) | 1.21 | ± 0.04 (5) * | 0.91 | ± 0.04 (5) ** |
| | Relative (mg/g) | 4.88 | ± 0.10 (10) | 4.43 | ± 0.09 (5) * | 4.68 | ± 0.15 (5) | 4.78 | ± 0.14 (5) |
| Lung | | | | | | | | | |
| | Absolute (g) | 0.17 | ± 0.01 (10) * | 0.18 | ± 0.01 (5) | 0.17 | ± 0.01 (5) | 0.12 | ± 0.01 (5) ** |
| | Relative (mg/g) | 0.60 | ± 0.02 (10) | 0.62 | ± 0.03 (5) | 0.66 | ± 0.03 (5) | 0.64 | ± 0.03 (5) |
| R. Testis | | | | | | | | | |
| | Absolute (g) | 0.158 | ± 0.004 (10) | 0.161 | ± 0.006 (5) | 0.169 | ± 0.006 (5) | 0.157 | ± 0.006 (5) |
| | Relative (mg/g) | 0.57 | ± 0.02 (10) ** | 0.57 | ± 0.02 (5) | 0.66 | ± 0.03 (5) * | 0.83 | ± 0.04 (5) ** |
| Thymus | | | | | | | | | |
| | Absolute (g) | 0.061 | ± 0.003 (10) | 0.066 | ± 0.002 (5) | 0.069 | ± 0.005 (5) | 0.036 | ± 0.005 (5) ** |
| | Relative (mg/g) | 0.22 | ± 0.01 (10) | 0.23 | ± 0.00 (5) | 0.27 | ± 0.02 (5) * | 0.19 | ± 0.02 (5) |

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Females

Treatment Groups (mg/ml)

| | 0 | 1 | 3 | 6 |
|-----------------------|-----------------------|-------------------|-------------------|----------------------|
| Terminal Body Wt. (g) | 183.1 ± 1.9 (10) ** | 176.5 ± 4.4 (5) | 173.7 ± 2.0 (5) | 122.8 ± 14.8 (5) ** |
| Heart | | | | |
| Absolute (g) | 0.08 ± 0.00 (10) | 0.07 ± 0.00 (5) | 0.08 ± 0.00 (5) | 0.08 ± 0.01 (5) |
| Relative (mg/g) | 0.42 ± 0.01 (10) ** | 0.42 ± 0.01 (5) | 0.45 ± 0.02 (5) | 0.64 ± 0.02 (5) ** |
| R. Kidney | | | | |
| Absolute (g) | 0.07 ± 0.00 (10) | 0.07 ± 0.00 (5) | 0.07 ± 0.00 (5) | 0.06 ± 0.01 (5) * |
| Relative (mg/g) | 0.40 ± 0.01 (10) ** | 0.40 ± 0.01 (5) | 0.41 ± 0.02 (5) | 0.51 ± 0.02 (5) ** |
| Liver | | | | |
| Absolute (g) | 0.77 ± 0.02 (10) ** | 0.71 ± 0.01 (5) | 0.68 ± 0.02 (5) | 0.55 ± 0.09 (5) ** |
| Relative (mg/g) | 4.19 ± 0.07 (10) | 4.00 ± 0.07 (5) | 3.92 ± 0.09 (5) | 4.34 ± 0.35 (5) |
| Lung | | | | |
| Absolute (g) | 0.13 ± 0.00 (10) ** | 0.13 ± 0.00 (5) | 0.12 ± 0.00 (5) * | 0.09 ± 0.00 (5) ** |
| Relative (mg/g) | 0.73 ± 0.02 (10) | 0.75 ± 0.02 (5) | 0.68 ± 0.01 (5) | 0.81 ± 0.09 (5) |
| Thymus | | | | |
| Absolute (g) | 0.040 ± 0.001 (10) ** | 0.037 ± 0.000 (5) | 0.036 ± 0.003 (5) | 0.025 ± 0.006 (5) ** |
| Relative (mg/g) | 0.22 ± 0.01 (10) | 0.21 ± 0.01 (5) | 0.21 ± 0.02 (5) | 0.19 ± 0.04 (5) |

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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 ****