

**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:** 1-Butyl-3-Methylimidazolium Chloride

**CAS Number:** 79917-90-1

C05049-03

Both

See web page for date of PWG Approval

**Date Report Requested:** 05/12/2020

**Time Report Requested:** 12:47:13

**Lab:** NTP

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|                       |                 | Males                    |         |         |       |         |        |       |         |        |       |         |        |
|-----------------------|-----------------|--------------------------|---------|---------|-------|---------|--------|-------|---------|--------|-------|---------|--------|
|                       |                 | Treatment Groups (mg/ml) |         |         |       |         |        |       |         |        |       |         |        |
|                       |                 | 0                        |         |         | 0.3   |         |        | 1     |         |        | 3     |         |        |
| Terminal Body Wt. (g) |                 | 278.3                    | ± 3.4   | (10) ** | 280.5 | ± 4.0   | (5)    | 272.0 | ± 5.2   | (5)    | 235.9 | ± 5.5   | (5) ** |
| Heart                 |                 |                          |         |         |       |         |        |       |         |        |       |         |        |
|                       | Absolute (g)    | 0.11                     | ± 0.00  | (10) ** | 0.12  | ± 0.00  | (5) ** | 0.12  | ± 0.00  | (5) ** | 0.13  | ± 0.01  | (5) ** |
|                       | Relative (mg/g) | 0.38                     | ± 0.00  | (10) ** | 0.43  | ± 0.01  | (5) ** | 0.43  | ± 0.01  | (5) ** | 0.57  | ± 0.02  | (5) ** |
| R. Kidney             |                 |                          |         |         |       |         |        |       |         |        |       |         |        |
|                       | Absolute (g)    | 0.11                     | ± 0.00  | (10) ** | 0.11  | ± 0.00  | (5)    | 0.11  | ± 0.00  | (5)    | 0.10  | ± 0.00  | (5) ** |
|                       | Relative (mg/g) | 0.41                     | ± 0.01  | (10)    | 0.41  | ± 0.01  | (5)    | 0.40  | ± 0.00  | (5)    | 0.42  | ± 0.01  | (5)    |
| Liver                 |                 |                          |         |         |       |         |        |       |         |        |       |         |        |
|                       | Absolute (g)    | 1.36                     | ± 0.04  | (10) ** | 1.37  | ± 0.04  | (5)    | 1.24  | ± 0.04  | (5) *  | 1.07  | ± 0.03  | (5) ** |
|                       | Relative (mg/g) | 4.88                     | ± 0.10  | (10) *  | 4.90  | ± 0.11  | (5)    | 4.57  | ± 0.07  | (5)    | 4.53  | ± 0.06  | (5) *  |
| Lung                  |                 |                          |         |         |       |         |        |       |         |        |       |         |        |
|                       | Absolute (g)    | 0.17                     | ± 0.01  | (10)    | 0.17  | ± 0.01  | (5)    | 0.17  | ± 0.01  | (5)    | 0.15  | ± 0.00  | (5)    |
|                       | Relative (mg/g) | 0.60                     | ± 0.02  | (10)    | 0.62  | ± 0.04  | (5)    | 0.61  | ± 0.01  | (5)    | 0.64  | ± 0.01  | (5)    |
| R. Testis             |                 |                          |         |         |       |         |        |       |         |        |       |         |        |
|                       | Absolute (g)    | 0.158                    | ± 0.004 | (10)    | 0.173 | ± 0.007 | (5)    | 0.165 | ± 0.005 | (5)    | 0.160 | ± 0.006 | (5)    |
|                       | Relative (mg/g) | 0.57                     | ± 0.02  | (10) ** | 0.62  | ± 0.03  | (5)    | 0.61  | ± 0.03  | (5)    | 0.68  | ± 0.02  | (5) ** |
| Thymus                |                 |                          |         |         |       |         |        |       |         |        |       |         |        |
|                       | Absolute (g)    | 0.061                    | ± 0.003 | (10)    | 0.062 | ± 0.004 | (5)    | 0.054 | ± 0.002 | (5)    | 0.054 | ± 0.002 | (5)    |
|                       | Relative (mg/g) | 0.22                     | ± 0.01  | (10)    | 0.22  | ± 0.01  | (5)    | 0.20  | ± 0.01  | (5)    | 0.23  | ± 0.01  | (5)    |

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Females

Treatment Groups (mg/ml)

|                       | 0                   | 0.3               | 1                  | 3                  |
|-----------------------|---------------------|-------------------|--------------------|--------------------|
| Terminal Body Wt. (g) | 183.1 ± 1.9 (10) ** | 181.2 ± 5.1 (5)   | 179.5 ± 3.3 (5)    | 157.2 ± 2.4 (5) ** |
| Heart                 |                     |                   |                    |                    |
| Absolute (g)          | 0.08 ± 0.00 (10) ** | 0.08 ± 0.00 (5)   | 0.09 ± 0.00 (5) *  | 0.09 ± 0.00 (5) ** |
| Relative (mg/g)       | 0.42 ± 0.01 (10) ** | 0.42 ± 0.01 (5)   | 0.48 ± 0.01 (5) ** | 0.60 ± 0.02 (5) ** |
| R. Kidney             |                     |                   |                    |                    |
| Absolute (g)          | 0.07 ± 0.00 (10) ** | 0.07 ± 0.00 (5)   | 0.07 ± 0.00 (5)    | 0.07 ± 0.00 (5) ** |
| Relative (mg/g)       | 0.40 ± 0.01 (10)    | 0.38 ± 0.01 (5)   | 0.39 ± 0.01 (5)    | 0.42 ± 0.01 (5)    |
| Liver                 |                     |                   |                    |                    |
| Absolute (g)          | 0.77 ± 0.02 (10) *  | 0.76 ± 0.03 (5)   | 0.78 ± 0.04 (5)    | 0.66 ± 0.01 (5) *  |
| Relative (mg/g)       | 4.19 ± 0.07 (10)    | 4.21 ± 0.13 (5)   | 4.32 ± 0.18 (5)    | 4.18 ± 0.04 (5)    |
| Lung                  |                     |                   |                    |                    |
| Absolute (g)          | 0.13 ± 0.00 (10) ** | 0.14 ± 0.01 (5)   | 0.12 ± 0.01 (5)    | 0.11 ± 0.00 (5) ** |
| Relative (mg/g)       | 0.73 ± 0.02 (10)    | 0.75 ± 0.03 (5)   | 0.69 ± 0.02 (5)    | 0.71 ± 0.02 (5)    |
| Thymus                |                     |                   |                    |                    |
| Absolute (g)          | 0.040 ± 0.001 (10)  | 0.038 ± 0.002 (5) | 0.044 ± 0.001 (5)  | 0.039 ± 0.003 (5)  |
| Relative (mg/g)       | 0.22 ± 0.01 (10)    | 0.21 ± 0.01 (5)   | 0.25 ± 0.01 (5)    | 0.25 ± 0.02 (5)    |

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LEGEND

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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 \*\***