

Experiment Number: R92025
Test Type: RACB - Range Finding
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

R03: Summary of Litter Data
Test Compound: 4-Methylimidazole
CAS Number: 822-36-6

Date Report Requested: 05/17/2018
Time Report Requested: 13:58:27
Lab: RTI

C Number:	R92025
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both

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F1 Pups

Treatment Groups (ppm)

Litter ID	0	625	1250	2500	5000
A					
Total Litter Size ^a					
PND 0	15.3 ± 0.9 (6)	13.6 ± 1.0 (7)	13.3 ± 1.6 (7)	12.4 ± 0.9 (7)	4.0 ± 2.0 (2)
Live Litter Size ^a					
PND 0	14.5 ± 0.9 (6)	11.4 ± 2.0 (7)	12.7 ± 1.6 (7)	11.3 ± 0.9 (7)	1.5 ± 1.5 (2)
PND 1	14.3 ± 1.0 (6)	11.4 ± 2.0 (7)	12.3 ± 1.5 (7)	11.1 ± 0.9 (7)	1.0 ± 1.0 (2)
PND 4	14.3 ± 1.0 (6)	11.4 ± 2.0 (7)	11.6 ± 1.5 (7)	11.1 ± 0.9 (7)	1.0 ± 1.0 (2)
PND 7	13.7 ± 0.7 (6) *	11.4 ± 2.0 (7)	10.4 ± 1.5 (7)	10.7 ± 0.9 (7)	1.0 ± 1.0 (2)
PND 14	12.5 ± 0.6 (6)	11.0 ± 1.8 (7)	9.0 ± 1.7 (7)	9.3 ± 1.0 (7)	1.0 ± 1.0 (2)
PND 21	12.5 ± 0.6 (6)	11.0 ± 1.8 (7)	9.0 ± 1.7 (7)	9.1 ± 1.0 (7)	1.0 ± 1.0 (2)
Total Dead ^a					
PND 0	0.83 ± 0.31 (6)	2.14 ± 1.16 (7)	0.57 ± 0.30 (7)	1.14 ± 0.51 (7)	2.50 ± 0.50 (2)
PND 1 - 4	0.17 ± 0.17 (6)	0.00 ± 0.00 (7)	1.14 ± 0.51 (7)	0.14 ± 0.14 (7)	1.00 (1)
PND 5 - 21	1.83 ± 0.65 (6)	0.43 ± 0.20 (7)	2.57 ± 1.09 (7)	2.00 ± 0.58 (7)	0.00 (1)
PND 1 - 21	2.00 ± 0.58 (6)	0.43 ± 0.20 (7)	3.71 ± 1.34 (7)	2.14 ± 0.55 (7)	1.00 (1)
Survival Ratio ^a					
PND 0	0.95 ± 0.02 (6)	0.81 ± 0.11 (7)	0.96 ± 0.02 (7)	0.91 ± 0.04 (7)	0.25 ± 0.25 (2)
PND 1 - 4	0.99 ± 0.01 (6)	1.00 ± 0.00 (7)	0.92 ± 0.04 (7)	0.98 ± 0.02 (7)	0.67 (1)
PND 5 - 21	0.88 ± 0.04 (6)	0.97 ± 0.01 (7)	0.78 ± 0.11 (7)	0.82 ± 0.05 (7)	1.00 (1)
PND 1 - 21	0.87 ± 0.04 (6)	0.97 ± 0.01 (7)	0.73 ± 0.11 (7)	0.81 ± 0.05 (7)	0.67 (1)

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LEGEND

Data are displayed as the means and standard errors of the litter means, N is number of litters

All calculations are based on the last litter observation of the day

^aF1 litter size and survival endpoints were analyzed using Jonckheere's test for trend and Shirley's or Dunn's methods for pairwise comparison of controls to dose groups.

Data with sample sizes of 1 or 2 were excluded from the trend and multiple comparisons tests.

* Statistically significant at $P \leq 0.05$

** Statistically significant at $P \leq 0.01$

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

**** END OF REPORT ****