

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

R02: Reproductive Performance Summary

Test Compound: 4-Methylimidazole
CAS Number: 822-36-6

Date Report Requested: 09/14/2017

Time Report Requested: 14:01:39

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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F0 Female

Treatment Groups (ppm)

Litter ID	0	625	1250	2500	5000
A					
No. Females Paired	8	8	8	8	8
No. Females Mated	7	7	7	8	3
No. Females Littering	6	7	7	7	2
Percent of Mated Females/ Paired ^a	87.5 **	87.5	87.5	100.0	37.5
Percent of Littered Females/ Paired ^a	75.0 *	87.5	87.5	87.5	28.6
Percent of Littered Females/ Mated ^a	85.7	100.0	100.0	87.5	100.0
Pre-coital Interval ^b	4.4 ± 1.6 (7)	4.0 ± 1.6 (7)	5.7 ± 1.5 (7)	7.0 ± 2.1 (7)	7.0 ± 3.1 (3)
Gestational Length ^b	22.5 ± 0.2 (6)	22.3 ± 0.4 (7)	22.3 ± 0.2 (7)	22.1 ± 0.1 (7)	23.0 ± 0.0 (2)

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LEGEND

Pre-coital interval in days is calculated for sperm positive females; results shown as mean \pm SEM (N)

Gestation length in days calculated for sperm positive females that delivered a litter; results shown as mean \pm SEM (N)

Animals removed from study between mating and littering excluded from calculations of percent littered females

^aStatistical analysis performed by Cochran-Armitage (trend) and Fisher Exact (pairwise) tests (unless otherwise noted).

^bStatistical analysis performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests (unless otherwise noted).

* 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 ****