C Number:	MOG003B
Study Gender:	Both
PWG Approval Date	See web page for date of PWG Approval

Study Number: MOG003B
Test Type: MOG
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

R02: Reproductive Performance Summary
Test Compound: 2-Ethylhexyl p-Methoxycinnamate
CAS Number: 5466-77-3

Date Report Requested: 01/14/2020
Time Report Requested: 12:07:45
Lab: RTI

F0 Female

	Treatment Groups (ppm)			
	0	**1000**	**3000**	**6000**
No. Females Mated	26	26	26	26
No. Females Pregnant	22	24	19	22
No. Females Littering	22	24	19	22
Percent of Pregnant Females/Mated	84.6	92.3	73.1	84.6
Percent of Littered Females/Mated	84.6	92.3	73.1	88.0
Percent of Littered Females/Pregnant	100.0	100.0	100.0	100.0
Gestational Length	22.0 ± 0.0 (22)	22.0 ± 0.0 (24)	21.9 ± 0.1 (19)	22.1 ± 0.1 (22)

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F1 Female: Fertility Females

	Treatment Groups (ppm)			
	0	**1000**	**3000**	**6000**
No. Females Paired	36	46	35	37
No. Females Mated	34	41	32	34
No. Females Pregnant	27	35	27	27
No. Females Littering	26	34	24	26
Percent of Mated Females/Paired	94.4	89.1	91.4	91.9
Percent of Littered Females/Paired	72.2	73.9	70.6	70.3
Percent of Pregnant Females/Mated	79.4	85.4	84.4	79.4
Percent of Littered Females/Mated	76.5	82.9	77.4	76.5
Percent of Littered Females/Pregnant	96.3	97.1	92.3	96.3
Pre-coital Interval	4.9 ± 0.7 (19)	5.1 ± 0.6 (22)	4.8 ± 0.7 (19)	4.6 ± 0.6 (20)
Gestational Length	22.5 ± 0.1 (16) *	22.7 ± 0.1 (22)	22.2 ± 0.1 (18) *	22.3 ± 0.1 (18)

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F1 Female: Prenatal Female

	Treatment Groups (ppm)			
	0	**1000**	**3000**	**6000**
No. Females Paired	21	23	19	22
No. Females Mated	19	21	18	20
No. Females Pregnant	19	18	15	16
Percent of Mated Females/Paired	90.5	91.3	94.7	90.9
Percent of Pregnant Females/Mated	100.0	85.7	83.3	80.0
Pre-coital Interval	4.3 ± 0.9 (19)	4.9 ± 1.0 (21)	2.9 ± 0.6 (15)	5.4 ± 0.9 (20)

LEGEND

F0 time mated females were vendor provided so endpoints involving number of females paired, and pre-coital interval were not calculated. Pregnancy was defined as evidence of implantation or littering. Vendor's time of confirmation of mating was utilized for calculation of F0 gestational length.

F1 Fertility cohort consisted of up to 2/sex/litter (no sibling mating pairs); F1 Prenatal cohort consisted of 1/sex/litter where possible.

For F0 and F1 Prenatal cohorts, results shown as mean ± SEM (N is number of animals). For F1 Fertility cohort, results shown as mean of litter means ± SEM of litter means (N is number of litters).

F1 Prenatal females were sectioned prior to littering, so endpoints involving number of females littering, and gestation length were not calculated for this litter.

When reported, pre-coital interval in days is calculated for sperm positive females.

Gestation length in days calculated for sperm positive females that delivered a litter.

Animals that died or were removed from study between mating and littering were excluded from the littered/paired, littered/mated, and littered/pregnant endpoints.

For F0 and F1 Prenatal cohorts, statistical analysis for the Percent of Pregnant Females/Mated; Percent of Littered Females/Mated; Percent of Littered Females/Pregnant; Percent of Mated Females/Paired; Percent of Littered Females/Paired was performed by Cochran-Armitage (trend) and Fisher Exact (pairwise) tests. For the F1 Fertility cohort, statistical analysis performed using the Rao-Scott Cochran-Armitage test for both trend and pairwise tests to adjust for litter effects.

For F0 and F1 Prenatal cohorts, statistical analysis performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests. For F1 Fertility cohort, statistical analysis performed using a bootstrapped Jonckheere test (trend), and modified Wilcoxon (pairwise) test that were modified using the methods of Datta and Satten to account for litter effects, with a Hommel adjustment to correct for multiple pairwise comparisons. These tests were used for the Pre-coital Interval and Gestational Length endpoints if present.

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 <= 0.05

** Statistically significant at P <= 0.01

** END OF REPORT **