

Study Number: MOG002B
Test Type: MOG
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

R02: Reproductive Performance Summary
Test Compound: 2-Hydroxy-4-methoxybenzophenone
CAS Number: 131-57-7

Date Report Requested: 12/13/2019
Time Report Requested: 13:51:42
Lab: RTI

C Number:

MOG002B

Study Gender:

Both

PWG Approval Date

See web page for date of PWG Approval

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F0 Female

Treatment Groups (ppm)

	0	3000	10000	30000	0.05 ppm EE
No. Females Mated	25	25	25	25	25
No. Females Pregnant	22	21	22	20	20
No. Females Littering	22	21	22	20	18
Percent of Pregnant Females/Mated	88.0	84.0	88.0	80.0	80.0
Percent of Littered Females/Mated	88.0	84.0	88.0	80.0	75.0
Percent of Littered Females/Pregnant	100.0	100.0	100.0	100.0	94.7
Gestational Length	22.3 ± 0.1 (22)	22.3 ± 0.1 (21)	22.2 ± 0.1 (22)	22.4 ± 0.1 (20)	22.4 ± 0.1 (18)

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F1 Female: Fertility Female

Treatment Groups (ppm)

	0	3000	10000	30000	0.05 ppm EE
No. Females Paired	41	40	40	40	30
No. Females Mated	40	37	35	35	29
No. Females Pregnant	35	37	33	33	28
No. Females Littering	35	37	33	32	28
Percent of Mated Females/Paired	97.6	92.5	87.5	87.5	96.7
Percent of Littered Females/Paired	85.4	92.5	82.5	80.0	93.3
Percent of Pregnant Females/Mated	87.5	100.0	94.3	94.3	96.6
Percent of Littered Females/Mated	87.5	100.0	94.3	91.4	96.6
Percent of Littered Females/Pregnant	100.0	100.0	100.0	97.0	100.0
Pre-coital Interval	4.7 ± 0.6 (22)	4.8 ± 0.5 (20)	5.1 ± 0.7 (19)	4.2 ± 0.8 (20)	4.0 ± 0.6 (15)
Gestational Length	22.4 ± 0.1 (22)	22.5 ± 0.1 (20)	22.6 ± 0.1 (19)	22.3 ± 0.1 (20)	22.0 ± 0.1 (15) **

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F1 Female: Prenatal Female

Treatment Groups (ppm)

	0	3000	10000	30000	0.05 ppm EE
No. Females Paired	22	20	22	20	15
No. Females Mated	19	19	21	19	15
No. Females Pregnant	18	18	20	19	15
Percent of Mated Females/Paired	86.4	95.0	95.5	95.0	100.0
Percent of Pregnant Females/Mated	94.7	94.7	95.2	100.0	100.0
Pre-coital Interval	4.3 ± 0.7 (19)	5.3 ± 1.0 (18)	4.1 ± 0.8 (19)	3.9 ± 0.6 (18)	3.4 ± 0.5 (15)

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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 \pm SEM (N is number of animals). For F1 Fertility cohort, results shown as mean of litter means \pm SEM of litter means (N is number of litters).

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 $P \leq 0.05$

** Statistically significant at $P \leq 0.01$

The EE group was not included in any trend analysis, it was included in the pairwise analysis to the control group.

EE = Ethinyl estradiol

**** END OF REPORT ****