

Study Number: MOG002B

Test Type: MOG

Route: Dosing in Feed

Species/Strain: Rat/Sprague-Dawley

C Number:

Study Gender:

PWG Approval Date

R03: Summary of Litter Data

Test Compound: 2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

MOG002B

Both

See web page for date of PWG Approval

Date Report Requested: 12/18/2019

Time Report Requested: 07:34:58

Lab: RTI

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F1 Pups from F0 Females

Treatment Groups (ppm)

	0	3000	10000	30000	0.05 ppm EE
No. F0 Dams					
PND 0	22	21	22	20	18
Total No. Pups					
PND 0	282	272	293	247	238
Total Pups per Litter					
PND 0	12.8 ± 0.6 (22)	13.0 ± 0.6 (21)	13.3 ± 0.6 (22)	12.4 ± 0.4 (20)	13.2 ± 0.6 (18)
Total No. Live					
PND 0	273	263	282	234	221
Live per Litter					
PND 0	12.4 ± 0.6 (22)	12.5 ± 0.7 (21)	12.8 ± 0.5 (22)	11.7 ± 0.4 (20)	12.3 ± 0.6 (18)
PND 1	12.3 ± 0.6 (22)	13.0 ± 0.5 (20)	12.5 ± 0.5 (22)	11.7 ± 0.4 (20)	11.6 ± 0.8 (18)
PND 4	12.2 ± 0.5 (22)	13.0 ± 0.5 (20)	12.5 ± 0.5 (22)	11.7 ± 0.4 (20)	11.4 ± 0.9 (16)
PND 4 post-cull	7.9 ± 0.1 (22)	7.9 ± 0.1 (20)	7.9 ± 0.1 (22)	8.0 ± 0.0 (20)	7.9 ± 0.1 (15)
PND 7	7.9 ± 0.1 (22)	7.9 ± 0.1 (20)	7.8 ± 0.1 (22)	8.0 ± 0.0 (20)	7.9 ± 0.1 (15)
PND 10	7.9 ± 0.1 (22)	7.9 ± 0.1 (20)	7.8 ± 0.1 (22)	7.9 ± 0.1 (20)	7.9 ± 0.1 (15)
PND 13	7.9 ± 0.1 (22)	7.9 ± 0.1 (20)	7.8 ± 0.1 (22)	7.9 ± 0.1 (20)	7.9 ± 0.1 (15)
PND 16	7.9 ± 0.1 (22)	7.9 ± 0.1 (20)	7.7 ± 0.1 (22)	7.9 ± 0.1 (20)	7.9 ± 0.1 (15)
PND 19	7.9 ± 0.1 (22)	7.9 ± 0.1 (20)	7.7 ± 0.1 (22)	7.8 ± 0.1 (20)	7.9 ± 0.1 (15)
PND 21	7.9 ± 0.1 (22)	7.9 ± 0.1 (20)	7.7 ± 0.1 (22)	7.8 ± 0.1 (20)	7.9 ± 0.1 (15)
PND 25	7.8 ± 0.1 (22)	7.9 ± 0.1 (20)	7.7 ± 0.1 (22)	7.8 ± 0.1 (20)	7.9 ± 0.1 (15)
PND 28	7.8 ± 0.1 (22)	7.9 ± 0.1 (20)	7.7 ± 0.1 (22)	7.8 ± 0.1 (20)	7.4 ± 0.2 (15)**
Dead per Litter					
PND 0	0.41 ± 0.28 (22)	0.43 ± 0.15 (21)	0.50 ± 0.14 (22)	0.65 ± 0.27 (20)	0.94 ± 0.47 (18)
PND 1 - 4	0.23 ± 0.11 (22)	0.19 ± 0.09 (21)	0.32 ± 0.19 (22)	0.05 ± 0.05 (20)	2.17 ± 1.13 (18)
PND 5 - 28	0.05 ± 0.05 (22)	0.05 ± 0.05 (20)	0.18 ± 0.11 (22)	0.20 ± 0.09 (20)	0.00 ± 0.00 (15)
Number of Dead					
PND 0	9 (4)	9 (7)	11 (9)	13 (7)	17 (5)

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Treatment Groups (ppm)

	0	3000	10000	30000	0.05 ppm EE
PND 1 - 4	5 (4)	4 (4)	7 (4)	1 (1)	39 (5)
PND 5 - 28	1 (1)	1 (1)	4 (3)	4 (4)	0 (0)
% Live Male Pups per Litter					
PND 0	46.62 ± 2.90 (22)	52.08 ± 3.48 (21)	48.11 ± 4.01 (22)	52.56 ± 2.93 (20)	47.76 ± 3.60 (18)
Survival Ratio					
PND 0	0.97 ± 0.02 (22)	0.94 ± 0.03 (21)	0.96 ± 0.01 (22)	0.95 ± 0.02 (20)	0.93 ± 0.03 (18)
PND 1 - 4	0.98 ± 0.01 (22)	0.94 ± 0.05 (21)	0.98 ± 0.01 (22)	1.00 ± 0.00 (20)	0.83 ± 0.09 (18)
PND 5 - 28	0.99 ± 0.01 (22)	0.99 ± 0.01 (20)	0.98 ± 0.01 (22)	0.98 ± 0.01 (20)	1.00 ± 0.00 (15)

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F2 Pups from F1 Fertility Females

	Treatment Groups (ppm)				
	0	3000	10000	30000	0.05 ppm EE
No. F0 Dams					
PND 0	22	20	20	20	15
No. F1 Dams					
PND 0	35	37	33	32	28
Total No. Pups					
PND 0	511	503	446	415	330
Total Pups per Litter					
PND 0	14.6 ± 0.5 (22) *	13.8 ± 0.5 (20)	13.7 ± 0.7 (20)	12.9 ± 0.5 (20) *	11.8 ± 0.4 (15) **
Total No. Live					
PND 0	477	462	404	386	314
Live per Litter					
PND 0	13.6 ± 0.5 (22) *	12.9 ± 0.6 (20)	12.4 ± 0.9 (20)	12.0 ± 0.4 (20) *	11.3 ± 0.5 (15) **
PND 1	13.4 ± 0.5 (22) *	12.7 ± 0.6 (20)	12.2 ± 0.9 (20)	12.0 ± 0.4 (20)	10.9 ± 0.5 (15) **
PND 4	13.1 ± 0.4 (22) *	12.6 ± 0.6 (20)	11.9 ± 0.8 (20)	11.5 ± 0.4 (20)	10.8 ± 0.5 (15) **
PND 4 post-cull	7.8 ± 0.2 (22)	7.6 ± 0.2 (20)	7.6 ± 0.3 (20)	7.9 ± 0.1 (20)	7.6 ± 0.2 (15)
PND 7	6.8 ± 0.4 (21)	6.9 ± 0.3 (20)	6.8 ± 0.3 (20)	6.8 ± 0.4 (20)	7.3 ± 0.3 (15)
PND 10	6.2 ± 0.4 (20)	6.3 ± 0.4 (20)	6.3 ± 0.3 (20)	6.7 ± 0.3 (18)	7.2 ± 0.3 (15) *
PND 13	5.7 ± 0.4 (20)	6.1 ± 0.3 (19)	5.8 ± 0.3 (20)	6.2 ± 0.4 (18)	6.8 ± 0.3 (15) *
PND 16	5.7 ± 0.4 (20)	5.9 ± 0.3 (19)	5.7 ± 0.3 (20)	6.0 ± 0.4 (18)	6.8 ± 0.3 (15) *
PND 19	5.7 ± 0.4 (20)	5.9 ± 0.3 (19)	5.7 ± 0.3 (20)	6.0 ± 0.4 (18)	6.8 ± 0.3 (15) *
PND 21	5.7 ± 0.4 (20)	5.9 ± 0.3 (19)	5.7 ± 0.3 (20)	6.0 ± 0.4 (18)	6.8 ± 0.3 (15) *
PND 25	5.7 ± 0.4 (20)	5.9 ± 0.3 (19)	5.7 ± 0.3 (20)	5.9 ± 0.3 (18)	6.7 ± 0.3 (15) *
PND 28	5.7 ± 0.4 (20)	5.9 ± 0.3 (19)	5.7 ± 0.3 (20)	5.9 ± 0.3 (18)	6.7 ± 0.3 (15) *
Dead per Litter					
PND 0	0.95 ± 0.27 (22)	1.03 ± 0.49 (20)	1.67 ± 0.70 (20)	0.94 ± 0.25 (20)	0.47 ± 0.15 (15)
PND 1 - 4	0.84 ± 0.32 (22)	0.35 ± 0.12 (20)	0.45 ± 0.13 (20)	0.48 ± 0.16 (20)	0.53 ± 0.19 (15)
PND 5 - 28	2.73 ± 0.45 (22)	1.93 ± 0.40 (20)	1.84 ± 0.29 (20)	2.60 ± 0.51 (20)	1.18 ± 0.28 (15) **

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F2 Pups from F1 Fertility Females

Treatment Groups (ppm)

	0	3000	10000	30000	0.05 ppm EE
Number of Dead					
PND 0	34 (18)	41 (13)	42 (18)	29 (17)	16 (12)
PND 1 - 4	27 (13)	13 (9)	17 (9)	13 (11)	14 (8)
PND 5 - 28	83 (26)	69 (25)	58 (23)	79 (24)	35 (13)
% Live Male Pups per Litter					
PND 0	44.73 ± 2.68 (22)	50.52 ± 2.80 (20)	48.97 ± 2.25 (20)	47.55 ± 2.51 (20)	48.75 ± 4.19 (15)
Survival Ratio					
PND 0	0.94 ± 0.02 (22)	0.94 ± 0.03 (20)	0.86 ± 0.05 (20)	0.93 ± 0.02 (20)	0.95 ± 0.02 (15)
PND 1 - 4	0.92 ± 0.03 (22)	0.98 ± 0.01 (20)	0.97 ± 0.01 (20)	0.96 ± 0.01 (20)	0.95 ± 0.02 (15)
PND 5 - 28	0.64 ± 0.06 (22)	0.75 ± 0.05 (20)	0.77 ± 0.04 (20)	0.67 ± 0.06 (20)	0.85 ± 0.04 (15) **

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LEGEND

Total No. of Pups and Total Pups per Litter is inclusive of nonviable pups.

For the endpoints of Total Pups per Litter, Live per Litter, Dead per Litter, % Live Male Pups per Litter, and Survival Ratio for the F1 and F2 pups, data are displayed as the mean of litter values \pm SEM of litter values (number of litters produced by F0 dams). For F2 pups, N is number of litters produced by the F0 generation where up to 2 F1 offspring/sex/litter were selected to produce F2 pups through non-sibling mating.

F1 Total Pups per Litter, Live per Litter, Dead per Litter, % Live Male Pups per Litter, and Survival Ration endpoints were analyzed using Jonckheere's test for trend and Shirley's or Dunn's methods for pairwise comparison of controls to dose groups. The same endpoints for the F2 litters from the F1 Fertility females were analyzed using the bootstrapped Jonckheere for trend; pairwise comparisons were done using the Datta-Satten modified Wilcoxon test with the Hommel adjustment for multiple comparisons.

For Number of Dead, N is displayed as the number of pups (number of litters contributing dead pups).

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

Survival ratio on PND 0 is live pup count at the last PND 0 litter observation relative to the total number of pups upon completion of parturition.

Litters were standardized to 10 pups (5 males and 5 females when possible).

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 ****