

Study Number: MOG002B

Test Type: MOG

Route: Dosing in Feed

Species/Strain: Rat/Sprague-Dawley

C Number:

Study Gender:

PWG Approval Date

R06: Andrology Summary

Test Compound: 2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

MOG002B

Both

See web page for date of PWG Approval

Date Report Requested: 12/13/2019

Time Report Requested: 13:53:56

Lab: RTI

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| | | | | Male | | | |
|------------|---------------|----------------|---|------------------------|---------------|------------------|------------------|
| Generation | Terminal Sac | Cohort | | Treatment Groups (ppm) | | | |
| | | | | 0 | 3000 | 10000 | 30000 |
| F1 | PND 153 - 155 | Fertility Male | No. Examined (Litters) | 41 (22) | 40 (20) | 40 (21) | 40 (20) |
| | | | Testis Weight (g) | 2.104 ± 0.020 ** | 2.066 ± 0.017 | 1.977 ± 0.029 ** | 1.978 ± 0.028 ** |
| | | | Spermatid Head Count (millions) | 271.6 ± 6.3 | 266.2 ± 5.6 | 255.6 ± 7.3 | 259.1 ± 5.7 |
| | | | Spermatid Head Concentration (millions/gram tissue) | 129.3 ± 3.1 | 129.0 ± 2.7 | 128.7 ± 3.9 | 131.4 ± 2.8 |
| | | | Percent Motile Sperm | 71.6 ± 2.0 | 70.1 ± 2.3 | 69.1 ± 2.6 | 70.2 ± 1.9 |
| | | | Percent Progressively Motile Sperm | 61.2 ± 1.9 | 59.9 ± 2.2 | 59.4 ± 2.3 | 58.6 ± 1.7 |
| | | | Epididymis Weight (g) | 0.695 ± 0.007 ** | 0.683 ± 0.006 | 0.667 ± 0.009 | 0.651 ± 0.009 ** |
| | | | Cauda Epididymis Weight (g) | 0.255 ± 0.004 * | 0.252 ± 0.004 | 0.246 ± 0.005 | 0.241 ± 0.004 |
| | | | Cauda Epididymis Sperm Count (millions) | 217.2 ± 7.7 * | 206.4 ± 8.0 | 202.6 ± 6.6 | 187.1 ± 7.5 * |
| | | | Cauda Epididymis Sperm Concentration (millions/gram tissue) | 848.5 ± 24.2 | 814.8 ± 25.3 | 814.2 ± 23.5 | 774.3 ± 26.9 |

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| | | | | Male | |
|------------|---------------|----------------|---|------------------|------------|
| Generation | Terminal Sac | Cohort | Treatment Groups (ppm) | | |
| | | | 0.05 ppm EE | | |
| F1 | PND 153 - 155 | Fertility Male | No. Examined (Litters) | 30 (15) | |
| | | | Testis Weight (g) | 1.920 ± 0.024 ** | |
| | | | Spermatid Head Count (millions) | 246.5 | ± 7.0 * |
| | | | Spermatid Head Concentration (millions/gram tissue) | 128.5 | ± 3.6 |
| | | | Percent Motile Sperm | 66.1 | ± 2.6 |
| | | | Percent Progressively Motile Sperm | 57.7 | ± 2.5 |
| | | | Epididymis Weight (g) | 0.640 | ± 0.007 ** |
| | | | Cauda Epididymis Weight (g) | 0.233 | ± 0.004 ** |
| | | | Cauda Epididymis Sperm Count (millions) | 185.8 | ± 7.3 ** |
| | | | Cauda Epididymis Sperm Concentration (millions/gram tissue) | 798.1 | ± 31.6 |

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LEGEND

Data are displayed as mean of litter means \pm SEM of litter means.

Statistical analysis of F1 and/or F2 organ weight endpoints performed using linear mixed models with the dam ID as the random effect for both trend and pairwise test, and using the Dunnett-Hsu adjustment for multiple comparisons. For all other F1 and/or F2 endpoints, a bootstrapped Jonckheere trend test was used, and pairwise comparisons were done using the Datta-Satten modified Wilcoxon test with Hommel adjustment for multiple comparisons.

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 ****