

Study Number: MOG002B

Test Type: MOG

Route: Dosing in Feed

Species/Strain: Rat/Sprague-Dawley

C Number:

Study Gender:

PWG Approval Date

R19G: Pup Mean Body Weight Gain

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: 13:58:58

Lab: RTI

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 CAS Number: 131-57-7

Date Report Requested: 12/13/2019
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 Lab: RTI

F1 Pups

Treatment Groups (ppm)

| Phase | Days | 0 | | 3000 | | 10000 | | 30000 | | 0.05 ppm EE | |
|-------|---------|-----------------|----------|---------------|----------|-----------------|----------|-----------------|----------|-----------------|----------|
| | | WT Gain (g) | N | WT Gain (g) | N | WT Gain (g) | N | WT Gain (g) | N | WT Gain (g) | N |
| PND | 1 - 4 | 3.37 ± 0.09 ** | 268 (22) | 3.20 ± 0.16 | 259 (20) | 3.00 ± 0.12 | 275 (22) | 2.34 ± 0.15 ** | 233 (20) | 2.23 ± 0.35 ** | 193 (17) |
| | 4 - 7 | 5.61 ± 0.15 ** | 173 (22) | 5.41 ± 0.23 | 158 (20) | 5.11 ± 0.18 | 172 (22) | 4.50 ± 0.14 ** | 159 (20) | 4.74 ± 0.17 ** | 118 (15) |
| | 7 - 10 | 7.22 ± 0.16 ** | 173 (22) | 7.04 ± 0.21 | 158 (20) | 6.70 ± 0.17 | 172 (22) | 5.42 ± 0.18 ** | 158 (20) | 6.08 ± 0.17 ** | 118 (15) |
| | 10 - 13 | 7.35 ± 0.21 ** | 173 (22) | 7.59 ± 0.26 | 157 (20) | 6.65 ± 0.31 | 171 (22) | 5.84 ± 0.20 ** | 158 (20) | 6.47 ± 0.20 ** | 118 (15) |
| | 13 - 16 | 7.66 ± 0.13 ** | 173 (22) | 7.69 ± 0.14 | 157 (20) | 7.53 ± 0.16 | 170 (22) | 5.95 ± 0.12 ** | 157 (20) | 6.86 ± 0.18 ** | 118 (15) |
| | 16 - 19 | 6.78 ± 0.22 ** | 173 (22) | 6.63 ± 0.33 | 157 (20) | 6.43 ± 0.22 | 170 (22) | 5.06 ± 0.22 ** | 156 (20) | 6.68 ± 0.22 | 118 (15) |
| | 19 - 21 | 7.75 ± 0.24 ** | 173 (22) | 6.62 ± 0.36 * | 157 (20) | 6.37 ± 0.22 ** | 170 (22) | 5.00 ± 0.27 ** | 156 (20) | 7.18 ± 0.31 | 118 (15) |
| | 21 - 25 | 15.69 ± 0.73 ** | 172 (22) | 15.49 ± 0.71 | 157 (20) | 15.32 ± 0.35 | 170 (22) | 11.35 ± 0.74 ** | 156 (20) | 16.16 ± 0.48 | 117 (15) |
| | 25 - 28 | 16.41 ± 0.59 ** | 172 (22) | 15.79 ± 0.58 | 157 (20) | 13.29 ± 0.35 ** | 170 (22) | 11.79 ± 0.59 ** | 156 (20) | 14.32 ± 0.35 * | 110 (15) |
| | 4 - 28 | 74.49 ± 0.90 ** | 172 (22) | 72.27 ± 1.42 | 157 (20) | 67.51 ± 0.85 ** | 170 (22) | 55.15 ± 1.62 ** | 156 (20) | 68.58 ± 0.94 ** | 111 (15) |

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CAS Number: 131-57-7

Date Report Requested: 12/13/2019
Time Report Requested: 13:58:58
Lab: RTI

F1 Males

Treatment Groups (ppm)

| Phase | Days | 0 | | 3000 | | 10000 | | 30000 | | 0.05 ppm EE | |
|-------|---------|-----------------|----------|----------------|----------|-----------------|----------|-----------------|----------|-----------------|---------|
| | | WT Gain (g) | N | WT Gain (g) | N | WT Gain (g) | N | WT Gain (g) | N | WT Gain (g) | N |
| PND | 1 - 4 | 3.50 ± 0.10 ** | 126 (22) | 3.32 ± 0.17 | 141 (20) | 3.05 ± 0.12 | 136 (21) | 2.34 ± 0.16 ** | 121 (20) | 2.31 ± 0.35 ** | 91 (17) |
| | 4 - 7 | 5.75 ± 0.15 ** | 85 (22) | 5.62 ± 0.23 | 80 (20) | 5.28 ± 0.19 | 82 (21) | 4.61 ± 0.18 ** | 83 (20) | 4.82 ± 0.19 ** | 57 (15) |
| | 7 - 10 | 7.37 ± 0.16 ** | 85 (22) | 7.19 ± 0.19 | 80 (20) | 6.88 ± 0.18 | 82 (21) | 5.37 ± 0.23 ** | 82 (20) | 6.23 ± 0.20 ** | 57 (15) |
| | 10 - 13 | 7.51 ± 0.19 ** | 85 (22) | 7.63 ± 0.27 | 80 (20) | 6.78 ± 0.34 | 82 (21) | 5.74 ± 0.24 ** | 82 (20) | 6.50 ± 0.28 ** | 57 (15) |
| | 13 - 16 | 7.92 ± 0.13 ** | 85 (22) | 7.91 ± 0.16 | 80 (20) | 7.84 ± 0.19 | 82 (21) | 6.10 ± 0.17 ** | 81 (20) | 6.96 ± 0.21 ** | 57 (15) |
| | 16 - 19 | 7.13 ± 0.25 ** | 85 (22) | 6.91 ± 0.40 | 80 (20) | 6.54 ± 0.21 | 82 (21) | 5.11 ± 0.21 ** | 80 (20) | 6.80 ± 0.22 | 57 (15) |
| | 19 - 21 | 8.29 ± 0.27 ** | 85 (22) | 6.82 ± 0.36 ** | 80 (20) | 6.58 ± 0.22 ** | 82 (21) | 5.19 ± 0.30 ** | 80 (20) | 7.59 ± 0.36 | 57 (15) |
| | 21 - 25 | 17.00 ± 0.78 ** | 85 (22) | 16.48 ± 0.71 | 80 (20) | 16.44 ± 0.47 | 82 (21) | 12.40 ± 0.89 ** | 80 (20) | 16.67 ± 0.54 | 56 (15) |
| | 25 - 28 | 18.20 ± 0.64 ** | 85 (22) | 17.33 ± 0.60 | 80 (20) | 14.83 ± 0.47 ** | 82 (21) | 13.36 ± 0.59 ** | 80 (20) | 15.63 ± 0.36 ** | 56 (15) |
| | 4 - 28 | 79.17 ± 0.93 ** | 85 (22) | 75.91 ± 1.42 | 80 (20) | 71.18 ± 1.03 ** | 82 (21) | 58.31 ± 1.87 ** | 80 (20) | 71.19 ± 0.97 ** | 57 (15) |

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R19G: Pup Mean Body Weight Gain
Test Compound: 2-Hydroxy-4-methoxybenzophenone
CAS Number: 131-57-7

Date Report Requested: 12/13/2019
Time Report Requested: 13:58:58
Lab: RTI

F1 Females

Treatment Groups (ppm)

| Phase | Days | 0 | | 3000 | | 10000 | | 30000 | | 0.05 ppm EE | |
|-------|---------|-----------------|----------|--------------|----------|-----------------|----------|-----------------|----------|-----------------|----------|
| | | WT Gain (g) | N | WT Gain (g) | N | WT Gain (g) | N | WT Gain (g) | N | WT Gain (g) | N |
| PND | 1 - 4 | 3.25 ± 0.10 ** | 142 (22) | 3.06 ± 0.17 | 118 (20) | 2.90 ± 0.12 | 139 (22) | 2.31 ± 0.15 ** | 112 (20) | 2.15 ± 0.34 ** | 102 (17) |
| | 4 - 7 | 5.48 ± 0.16 ** | 88 (22) | 5.19 ± 0.23 | 78 (20) | 4.90 ± 0.19 | 90 (22) | 4.35 ± 0.14 ** | 76 (20) | 4.66 ± 0.16 ** | 61 (15) |
| | 7 - 10 | 7.11 ± 0.19 ** | 88 (22) | 6.89 ± 0.25 | 78 (20) | 6.48 ± 0.19 | 90 (22) | 5.45 ± 0.17 ** | 76 (20) | 5.98 ± 0.16 ** | 61 (15) |
| | 10 - 13 | 7.18 ± 0.25 ** | 88 (22) | 7.55 ± 0.29 | 77 (20) | 6.43 ± 0.34 | 89 (22) | 6.01 ± 0.25 * | 76 (20) | 6.37 ± 0.19 * | 61 (15) |
| | 13 - 16 | 7.45 ± 0.16 ** | 88 (22) | 7.46 ± 0.16 | 77 (20) | 7.27 ± 0.14 | 88 (22) | 5.67 ± 0.21 ** | 76 (20) | 6.80 ± 0.18 * | 61 (15) |
| | 16 - 19 | 6.46 ± 0.20 ** | 88 (22) | 6.32 ± 0.29 | 77 (20) | 6.25 ± 0.23 | 88 (22) | 4.99 ± 0.23 ** | 76 (20) | 6.56 ± 0.23 | 61 (15) |
| | 19 - 21 | 7.25 ± 0.23 ** | 88 (22) | 6.42 ± 0.38 | 77 (20) | 6.10 ± 0.26 * | 88 (22) | 4.78 ± 0.24 ** | 76 (20) | 6.79 ± 0.28 | 61 (15) |
| | 21 - 25 | 14.44 ± 0.71 ** | 87 (22) | 14.45 ± 0.74 | 77 (20) | 14.07 ± 0.34 | 88 (22) | 10.16 ± 0.63 ** | 76 (20) | 15.68 ± 0.44 | 61 (15) |
| | 25 - 28 | 14.89 ± 0.54 ** | 87 (22) | 14.19 ± 0.60 | 77 (20) | 11.80 ± 0.34 ** | 88 (22) | 10.03 ± 0.61 ** | 76 (20) | 12.99 ± 0.32 * | 54 (15) |
| | 4 - 28 | 70.30 ± 1.03 ** | 87 (22) | 68.49 ± 1.44 | 77 (20) | 63.53 ± 0.98 ** | 88 (22) | 51.43 ± 1.34 ** | 76 (20) | 65.75 ± 0.93 ** | 54 (15) |

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R19G: Pup Mean Body Weight Gain
Test Compound: 2-Hydroxy-4-methoxybenzophenone
CAS Number: 131-57-7

Date Report Requested: 12/13/2019
Time Report Requested: 13:58:58
Lab: RTI

F2 Pups

Treatment Groups (ppm)

| Phase | Days | 0 | | 3000 | | 10000 | | 30000 | | 0.05 ppm EE | |
|-------|---------|-----------------|----------|----------------|----------|---------------|----------|-----------------|----------|----------------|----------|
| | | WT Gain (g) | N | WT Gain (g) | N | WT Gain (g) | N | WT Gain (g) | N | WT Gain (g) | N |
| PND | 1 - 4 | 2.11 ± 0.21 | 450 (34) | 2.36 ± 0.21 | 449 (36) | 2.35 ± 0.14 | 387 (32) | 2.02 ± 0.12 | 374 (32) | 2.45 ± 0.15 | 300 (28) |
| | 4 - 7 | 2.73 ± 0.27 | 225 (33) | 3.87 ± 0.25 ** | 247 (35) | 3.65 ± 0.21 * | 222 (32) | 3.30 ± 0.27 | 225 (32) | 3.88 ± 0.28 ** | 203 (28) |
| | 7 - 10 | 4.21 ± 0.26 ** | 199 (31) | 4.94 ± 0.29 | 226 (35) | 4.55 ± 0.24 | 206 (32) | 3.58 ± 0.34 | 198 (30) | 4.98 ± 0.22 | 191 (27) |
| | 10 - 13 | 6.48 ± 0.24 ** | 185 (31) | 6.79 ± 0.25 | 209 (34) | 6.76 ± 0.21 | 191 (32) | 5.16 ± 0.36 ** | 181 (30) | 6.54 ± 0.22 | 181 (27) |
| | 13 - 16 | 7.43 ± 0.27 ** | 185 (31) | 7.07 ± 0.22 | 205 (34) | 7.71 ± 0.19 | 186 (32) | 6.17 ± 0.27 ** | 175 (30) | 7.20 ± 0.22 | 179 (27) |
| | 16 - 19 | 6.09 ± 0.19 ** | 185 (31) | 5.91 ± 0.23 | 205 (34) | 6.08 ± 0.19 | 186 (32) | 5.23 ± 0.30 ** | 175 (30) | 6.31 ± 0.13 | 179 (27) |
| | 19 - 21 | 5.52 ± 0.26 ** | 185 (31) | 6.15 ± 0.27 | 205 (34) | 5.02 ± 0.24 | 186 (32) | 4.38 ± 0.25 * | 175 (30) | 6.00 ± 0.18 | 179 (27) |
| | 21 - 25 | 14.02 ± 0.45 ** | 185 (31) | 14.60 ± 0.56 | 205 (34) | 12.78 ± 0.48 | 186 (32) | 9.08 ± 0.61 ** | 174 (30) | 14.13 ± 0.44 | 178 (27) |
| | 25 - 28 | 14.07 ± 0.44 ** | 185 (31) | 15.70 ± 0.48 * | 205 (34) | 14.25 ± 0.45 | 186 (32) | 10.37 ± 0.60 ** | 174 (30) | 14.37 ± 0.36 | 178 (27) |
| | 4 - 28 | 61.53 ± 1.45 ** | 185 (31) | 66.18 ± 1.62 | 205 (34) | 61.75 ± 1.19 | 186 (32) | 48.19 ± 2.19 ** | 174 (30) | 64.14 ± 0.87 | 178 (27) |

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CAS Number: 131-57-7

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Lab: RTI

F2 Males

Treatment Groups (ppm)

| Phase | Days | 0 | | 3000 | | 10000 | | 30000 | | 0.05 ppm EE | |
|-------|---------|-----------------|----------|----------------|----------|----------------|----------|-----------------|----------|----------------|----------|
| | | WT Gain (g) | N | WT Gain (g) | N | WT Gain (g) | N | WT Gain (g) | N | WT Gain (g) | N |
| PND | 1 - 4 | 2.22 ± 0.21 | 205 (33) | 2.52 ± 0.21 | 223 (36) | 2.65 ± 0.15 | 187 (32) | 2.12 ± 0.13 | 184 (32) | 2.70 ± 0.14 | 141 (28) |
| | 4 - 7 | 2.70 ± 0.29 | 110 (32) | 4.24 ± 0.25 ** | 126 (35) | 3.92 ± 0.22 ** | 117 (32) | 3.49 ± 0.28 | 112 (31) | 3.94 ± 0.28 ** | 97 (28) |
| | 7 - 10 | 4.03 ± 0.36 | 98 (30) | 5.39 ± 0.34 * | 121 (35) | 5.09 ± 0.35 | 110 (32) | 3.83 ± 0.38 | 99 (30) | 5.20 ± 0.25 * | 93 (27) |
| | 10 - 13 | 6.46 ± 0.28 ** | 91 (30) | 7.13 ± 0.28 | 112 (34) | 6.88 ± 0.29 | 103 (32) | 5.32 ± 0.39 * | 92 (30) | 6.62 ± 0.27 | 89 (27) |
| | 13 - 16 | 7.39 ± 0.28 ** | 91 (30) | 7.35 ± 0.25 | 110 (34) | 7.75 ± 0.25 | 101 (32) | 6.44 ± 0.26 * | 88 (30) | 7.27 ± 0.28 | 88 (27) |
| | 16 - 19 | 6.09 ± 0.25 * | 91 (30) | 6.06 ± 0.27 | 110 (34) | 6.33 ± 0.28 | 101 (32) | 5.40 ± 0.30 | 88 (30) | 6.54 ± 0.16 | 88 (27) |
| | 19 - 21 | 5.55 ± 0.33 ** | 91 (30) | 6.53 ± 0.29 * | 110 (34) | 5.30 ± 0.28 | 101 (32) | 4.53 ± 0.26 | 88 (30) | 6.33 ± 0.21 | 88 (27) |
| | 21 - 25 | 14.80 ± 0.52 ** | 91 (30) | 15.98 ± 0.61 | 110 (34) | 13.98 ± 0.60 | 101 (32) | 10.23 ± 0.69 ** | 88 (30) | 15.24 ± 0.49 | 87 (27) |
| | 25 - 28 | 14.93 ± 0.52 ** | 91 (30) | 16.72 ± 0.55 | 110 (34) | 15.47 ± 0.50 | 101 (32) | 12.40 ± 0.71 * | 88 (30) | 15.13 ± 0.46 | 87 (27) |
| | 4 - 28 | 62.96 ± 1.77 ** | 91 (30) | 70.20 ± 1.79 * | 110 (34) | 65.52 ± 1.56 | 101 (32) | 52.43 ± 2.38 ** | 88 (30) | 66.92 ± 1.09 | 87 (27) |

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F2 Females

Treatment Groups (ppm)

| Phase | Days | 0 | | 3000 | | 10000 | | 30000 | | 0.05 ppm EE | |
|--------|-----------------|-----------------|--------------|--------------|--------------|----------------|-----------------|----------------|--------------|---------------|----------|
| | | WT Gain (g) | N | WT Gain (g) | N | WT Gain (g) | N | WT Gain (g) | N | WT Gain (g) | N |
| PND | 1 - 4 | 1.98 ± 0.21 | 245 (34) | 2.26 ± 0.22 | 226 (35) | 2.09 ± 0.16 | 200 (32) | 1.91 ± 0.13 | 190 (32) | 2.20 ± 0.18 | 159 (27) |
| | 4 - 7 | 2.90 ± 0.24 | 115 (31) | 3.44 ± 0.28 | 121 (34) | 3.33 ± 0.26 | 105 (32) | 3.17 ± 0.28 | 113 (32) | 3.78 ± 0.30 * | 106 (27) |
| | 7 - 10 | 4.31 ± 0.33 * | 101 (30) | 4.51 ± 0.48 | 105 (33) | 4.25 ± 0.26 | 96 (32) | 3.46 ± 0.37 | 99 (29) | 4.74 ± 0.27 | 98 (26) |
| | 10 - 13 | 6.54 ± 0.27 ** | 94 (30) | 6.24 ± 0.32 | 97 (32) | 6.62 ± 0.27 | 88 (32) | 5.15 ± 0.41 ** | 89 (29) | 6.50 ± 0.26 | 92 (26) |
| | 13 - 16 | 7.45 ± 0.30 ** | 94 (30) | 6.67 ± 0.24 | 95 (32) | 7.47 ± 0.30 | 85 (32) | 6.14 ± 0.26 ** | 87 (28) | 7.17 ± 0.19 | 91 (26) |
| | 16 - 19 | 6.11 ± 0.18 ** | 94 (30) | 5.92 ± 0.19 | 95 (32) | 5.76 ± 0.27 | 85 (32) | 5.06 ± 0.27 ** | 87 (28) | 6.09 ± 0.13 | 91 (26) |
| | 19 - 21 | 5.42 ± 0.26 ** | 94 (30) | 5.62 ± 0.29 | 95 (32) | 4.70 ± 0.28 | 85 (32) | 4.49 ± 0.19 * | 87 (28) | 5.67 ± 0.20 | 91 (26) |
| | 21 - 25 | 13.34 ± 0.50 ** | 94 (30) | 12.91 ± 0.59 | 95 (32) | 11.35 ± 0.47 * | 85 (32) | 8.10 ± 0.57 ** | 86 (28) | 13.25 ± 0.48 | 91 (26) |
| | 25 - 28 | 13.23 ± 0.44 ** | 94 (30) | 14.44 ± 0.57 | 95 (32) | 12.74 ± 0.51 | 85 (32) | 8.74 ± 0.52 ** | 86 (28) | 13.74 ± 0.50 | 91 (26) |
| 4 - 28 | 60.08 ± 1.50 ** | 94 (30) | 61.12 ± 1.81 | 95 (32) | 57.15 ± 1.57 | 85 (32) | 45.62 ± 1.93 ** | 86 (28) | 61.75 ± 0.97 | 91 (26) | |

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LEGEND

N = the number of pups (number of litters contributing)

PND4 weights are precull if litters are culled on postnatal day 4.

Data are displayed as the means and standard errors of the litter means.

PND - Postnatal Day, pups pre-weaning

Pup weights are adjusted for covariate litter size using total live on PND 1 for day 1 to cull day, and number of live pups on the day of culling after culling completed for weight days after the day of culling.

Statistical analysis was performed using mixed models with dam ID as a random effect for both trend and pairwise tests, using Dunnett-Hsu 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 ****