

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

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

Date Report Requested: 08/28/2020
Time Report Requested: 06:46:18
Lab: RTI

Study Number:

MOG002B

Study Gender:

Both

PWG Approval Date

See web page for date of PWG Approval

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F1 Males

Phase	Days	Treatment Groups (ppm)							
		0		3000		10000		30000	
		WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N
PND	1 - 4 (unadjusted)	3.53 ± 0.12 **	126 (22)	3.21 ± 0.17	141 (20)	2.97 ± 0.17	136 (21)	2.50 ± 0.21 **	121 (20)
	1 - 4	3.42 ± 0.10 **	126 (22)	3.24 ± 0.17	141 (20)	2.97 ± 0.12	136 (21)	2.26 ± 0.16 **	121 (20)
	4 - 7	5.75 ± 0.15 **	85 (22)	5.62 ± 0.23	80 (20)	5.28 ± 0.19	82 (21)	4.60 ± 0.18 **	83 (20)
	7 - 10	7.38 ± 0.16 **	85 (22)	7.20 ± 0.19	80 (20)	6.89 ± 0.18	82 (21)	5.38 ± 0.23 **	82 (20)
	10 - 13	7.50 ± 0.19 **	85 (22)	7.63 ± 0.27	80 (20)	6.78 ± 0.34	82 (21)	5.74 ± 0.24 **	82 (20)
	13 - 16	7.93 ± 0.13 **	85 (22)	7.92 ± 0.16	80 (20)	7.85 ± 0.19	82 (21)	6.11 ± 0.17 **	81 (20)
	16 - 19	7.13 ± 0.25 **	85 (22)	6.91 ± 0.40	80 (20)	6.54 ± 0.21	82 (21)	5.10 ± 0.21 **	80 (20)
	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)
	21 - 25	16.98 ± 0.78 **	85 (22)	16.46 ± 0.71	80 (20)	16.42 ± 0.47	82 (21)	12.38 ± 0.89 **	80 (20)
	25 - 28	18.20 ± 0.64 **	85 (22)	17.34 ± 0.60	80 (20)	14.84 ± 0.47 **	82 (21)	13.36 ± 0.59 **	80 (20)
	4 - 28	79.16 ± 0.93 **	85 (22)	75.90 ± 1.42	80 (20)	71.17 ± 1.03 **	82 (21)	58.30 ± 1.87 **	80 (20)

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F1 Males

Phase	Days	Treatment Groups (ppm)	
		0.05 ppm EE	
		WT Gain (g)	N
PND	1 - 4 (unadjusted)	2.32 ± 0.36 **	91 (17)
	1 - 4	2.22 ± 0.35 **	91 (17)
	4 - 7	4.81 ± 0.19 **	57 (15)
	7 - 10	6.27 ± 0.20 **	57 (15)
	10 - 13	6.50 ± 0.28 **	57 (15)
	13 - 16	6.95 ± 0.21 **	57 (15)
	16 - 19	6.79 ± 0.22	57 (15)
	19 - 21	7.58 ± 0.36	57 (15)
	21 - 25	16.62 ± 0.54	56 (15)
	25 - 28	15.64 ± 0.36 **	56 (15)
	4 - 28	71.17 ± 0.97 **	57 (15)

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Phase	Days	Treatment Groups (ppm)							
		0		3000		10000		30000	
		WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N
PND	1 - 4 (unadjusted)	3.26 ± 0.13 **	142 (22)	2.93 ± 0.18	118 (20)	2.86 ± 0.19	139 (22)	2.46 ± 0.20 **	112 (20)
	1 - 4	3.17 ± 0.10 **	142 (22)	2.98 ± 0.17	118 (20)	2.82 ± 0.12	139 (22)	2.23 ± 0.15 **	112 (20)
	4 - 7	5.47 ± 0.16 **	88 (22)	5.19 ± 0.23	78 (20)	4.90 ± 0.19	90 (22)	4.35 ± 0.14 **	76 (20)
	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)
	10 - 13	7.18 ± 0.25 **	88 (22)	7.54 ± 0.29	77 (20)	6.43 ± 0.34	89 (22)	6.01 ± 0.25 *	76 (20)
	13 - 16	7.46 ± 0.16 **	88 (22)	7.46 ± 0.16	77 (20)	7.28 ± 0.14	88 (22)	5.67 ± 0.21 **	76 (20)
	16 - 19	6.45 ± 0.20 **	88 (22)	6.32 ± 0.29	77 (20)	6.25 ± 0.23	88 (22)	4.98 ± 0.23 **	76 (20)
	19 - 21	7.25 ± 0.23 **	88 (22)	6.42 ± 0.38	77 (20)	6.09 ± 0.26 *	88 (22)	4.77 ± 0.24 **	76 (20)
	21 - 25	14.43 ± 0.71 **	87 (22)	14.44 ± 0.74	77 (20)	14.06 ± 0.34	88 (22)	10.15 ± 0.63 **	76 (20)
	25 - 28	14.89 ± 0.54 **	87 (22)	14.19 ± 0.60	77 (20)	11.80 ± 0.34 **	88 (22)	10.04 ± 0.61 **	76 (20)
	4 - 28	70.28 ± 1.03 **	87 (22)	68.48 ± 1.44	77 (20)	63.51 ± 0.98 **	88 (22)	51.42 ± 1.34 **	76 (20)

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Phase	Days	Treatment Groups (ppm)	
		0.05 ppm EE	
		WT Gain (g)	N
PND	1 - 4 (unadjusted)	2.16 ± 0.35 **	102 (17)
	1 - 4	2.12 ± 0.34 **	102 (17)
	4 - 7	4.65 ± 0.16 **	61 (15)
	7 - 10	6.00 ± 0.16 **	61 (15)
	10 - 13	6.37 ± 0.19 *	61 (15)
	13 - 16	6.79 ± 0.18 *	61 (15)
	16 - 19	6.55 ± 0.23	61 (15)
	19 - 21	6.79 ± 0.28	61 (15)
	21 - 25	15.67 ± 0.44	61 (15)
	25 - 28	13.01 ± 0.32 *	54 (15)
	4 - 28	65.76 ± 0.93 **	54 (15)

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F1 Pups

Treatment Groups (ppm)

Phase	Days	0		3000		10000		30000	
		WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N
PND	1 - 4 (unadjusted)	3.38 ± 0.12 **	268 (22)	3.07 ± 0.17	259 (20)	2.96 ± 0.19	275 (22)	2.49 ± 0.21 **	233 (20)
	1 - 4	3.28 ± 0.09 **	268 (22)	3.11 ± 0.16	259 (20)	2.91 ± 0.12	275 (22)	2.25 ± 0.15 **	233 (20)
	4 - 7	5.60 ± 0.15 **	173 (22)	5.40 ± 0.23	158 (20)	5.10 ± 0.18	172 (22)	4.49 ± 0.14 **	159 (20)
	7 - 10	7.23 ± 0.16 **	173 (22)	7.05 ± 0.21	158 (20)	6.70 ± 0.17	172 (22)	5.43 ± 0.18 **	158 (20)
	10 - 13	7.34 ± 0.21 **	173 (22)	7.58 ± 0.26	157 (20)	6.64 ± 0.31	171 (22)	5.83 ± 0.20 **	158 (20)
	13 - 16	7.67 ± 0.13 **	173 (22)	7.70 ± 0.14	157 (20)	7.54 ± 0.16	170 (22)	5.96 ± 0.12 **	157 (20)
	16 - 19	6.77 ± 0.22 **	173 (22)	6.62 ± 0.33	157 (20)	6.42 ± 0.22	170 (22)	5.06 ± 0.22 **	156 (20)
	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)
	21 - 25	15.66 ± 0.73 **	172 (22)	15.46 ± 0.71	157 (20)	15.29 ± 0.35	170 (22)	11.32 ± 0.74 **	156 (20)
	25 - 28	16.42 ± 0.59 **	172 (22)	15.80 ± 0.58	157 (20)	13.30 ± 0.35 **	170 (22)	11.80 ± 0.59 **	156 (20)
	4 - 28	74.46 ± 0.90 **	172 (22)	72.24 ± 1.42	157 (20)	67.48 ± 0.85 **	170 (22)	55.11 ± 1.62 **	156 (20)

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F1 Pups

Phase	Days	Treatment Groups (ppm)	
		0.05 ppm EE	
		WT Gain (g)	N
PND	1 - 4 (unadjusted)	2.25 ± 0.36 **	193 (17)
	1 - 4	2.18 ± 0.35 **	193 (17)
	4 - 7	4.73 ± 0.17 **	118 (15)
	7 - 10	6.11 ± 0.17 **	118 (15)
	10 - 13	6.47 ± 0.20 **	118 (15)
	13 - 16	6.86 ± 0.18 **	118 (15)
	16 - 19	6.68 ± 0.22	118 (15)
	19 - 21	7.17 ± 0.31	118 (15)
	21 - 25	16.14 ± 0.48	117 (15)
	25 - 28	14.35 ± 0.35 *	110 (15)
	4 - 28	68.59 ± 0.94 **	111 (15)

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F2 Males

Phase	Days	Treatment Groups (ppm)							
		0		3000		10000		30000	
		WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N
PND	1 - 4 (unadjusted)	2.07 ± 0.22	205 (33)	2.53 ± 0.22	223 (36)	2.69 ± 0.18	187 (32)	2.23 ± 0.16	184 (32)
	1 - 4	2.13 ± 0.21	205 (33)	2.43 ± 0.21	223 (36)	2.55 ± 0.15	187 (32)	2.03 ± 0.13	184 (32)
	4 - 7	2.71 ± 0.29	110 (32)	4.24 ± 0.25 **	126 (35)	3.93 ± 0.22 **	117 (32)	3.50 ± 0.28	112 (31)
	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)
	10 - 13	6.49 ± 0.28 **	91 (30)	7.17 ± 0.28	112 (34)	6.91 ± 0.29	103 (32)	5.35 ± 0.39 *	92 (30)
	13 - 16	7.43 ± 0.28 **	91 (30)	7.39 ± 0.25	110 (34)	7.79 ± 0.25	101 (32)	6.47 ± 0.26 *	88 (30)
	16 - 19	6.11 ± 0.25 *	91 (30)	6.07 ± 0.27	110 (34)	6.34 ± 0.28	101 (32)	5.42 ± 0.30	88 (30)
	19 - 21	5.56 ± 0.33 **	91 (30)	6.53 ± 0.29 *	110 (34)	5.30 ± 0.28	101 (32)	4.54 ± 0.26	88 (30)
	21 - 25	14.77 ± 0.52 **	91 (30)	15.95 ± 0.61	110 (34)	13.95 ± 0.60	101 (32)	10.20 ± 0.69 **	88 (30)
	25 - 28	14.96 ± 0.52 **	91 (30)	16.75 ± 0.55	110 (34)	15.50 ± 0.50	101 (32)	12.43 ± 0.71 *	88 (30)
	4 - 28	63.04 ± 1.77 **	91 (30)	70.29 ± 1.79 *	110 (34)	65.61 ± 1.56	101 (32)	52.51 ± 2.38 **	88 (30)

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F2 Males

Phase	Days	Treatment Groups (ppm)	
		0.05 ppm EE	
		WT Gain (g)	N
PND	1 - 4 (unadjusted)	2.93 ± 0.15 **	141 (28)
	1 - 4	2.64 ± 0.14	141 (28)
	4 - 7	3.92 ± 0.28 **	97 (28)
	7 - 10	5.18 ± 0.25 *	93 (27)
	10 - 13	6.60 ± 0.27	89 (27)
	13 - 16	7.26 ± 0.28	88 (27)
	16 - 19	6.53 ± 0.16	88 (27)
	19 - 21	6.31 ± 0.21	88 (27)
	21 - 25	15.21 ± 0.49	87 (27)
	25 - 28	15.14 ± 0.46	87 (27)
	4 - 28	66.84 ± 1.09	87 (27)

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F2 Females

Phase	Days	Treatment Groups (ppm)							
		0		3000		10000		30000	
		WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N
PND	1 - 4 (unadjusted)	1.81 ± 0.23	245 (34)	2.24 ± 0.24	226 (35)	2.15 ± 0.18	200 (32)	2.05 ± 0.17	190 (32)
	1 - 4	1.84 ± 0.21	245 (34)	2.13 ± 0.22	226 (35)	1.95 ± 0.16	200 (32)	1.77 ± 0.13	190 (32)
	4 - 7	2.88 ± 0.24	115 (31)	3.43 ± 0.28	121 (34)	3.31 ± 0.26	105 (32)	3.16 ± 0.28	113 (32)
	7 - 10	4.29 ± 0.33 *	101 (30)	4.48 ± 0.48	105 (33)	4.23 ± 0.26	96 (32)	3.44 ± 0.37	99 (29)
	10 - 13	6.53 ± 0.27 **	94 (30)	6.23 ± 0.32	97 (32)	6.61 ± 0.27	88 (32)	5.14 ± 0.41 **	89 (29)
	13 - 16	7.46 ± 0.30 **	94 (30)	6.68 ± 0.24	95 (32)	7.48 ± 0.30	85 (32)	6.15 ± 0.26 **	87 (28)
	16 - 19	6.08 ± 0.18 **	94 (30)	5.90 ± 0.19	95 (32)	5.74 ± 0.27	85 (32)	5.04 ± 0.27 **	87 (28)
	19 - 21	5.40 ± 0.26 **	94 (30)	5.60 ± 0.29	95 (32)	4.68 ± 0.28	85 (32)	4.47 ± 0.19 *	87 (28)
	21 - 25	13.27 ± 0.50 **	94 (30)	12.84 ± 0.59	95 (32)	11.28 ± 0.47 *	85 (32)	8.03 ± 0.57 **	86 (28)
	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)
	4 - 28	59.94 ± 1.50 **	94 (30)	60.98 ± 1.81	95 (32)	57.01 ± 1.57	85 (32)	45.47 ± 1.93 **	86 (28)

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Phase	Days	Treatment Groups (ppm)	
		0.05 ppm EE	
		WT Gain (g)	N
PND	1 - 4 (unadjusted)	2.54 ± 0.19 *	159 (27)
	1 - 4	2.08 ± 0.18	159 (27)
	4 - 7	3.78 ± 0.30 *	106 (27)
	7 - 10	4.71 ± 0.27	98 (26)
	10 - 13	6.50 ± 0.26	92 (26)
	13 - 16	7.15 ± 0.19	91 (26)
	16 - 19	6.08 ± 0.13	91 (26)
	19 - 21	5.67 ± 0.20	91 (26)
	21 - 25	13.23 ± 0.48	91 (26)
	25 - 28	13.80 ± 0.50	91 (26)
	4 - 28	61.74 ± 0.97	91 (26)

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F2 Pups

Treatment Groups (ppm)

Phase	Days	0		3000		10000		30000	
		WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N
PND	1 - 4 (unadjusted)	1.94 ± 0.22	450 (34)	2.37 ± 0.22	449 (36)	2.40 ± 0.17	387 (32)	2.14 ± 0.16	374 (32)
	1 - 4	1.99 ± 0.21	450 (34)	2.23 ± 0.21	449 (36)	2.23 ± 0.14	387 (32)	1.89 ± 0.12	374 (32)
	4 - 7	2.72 ± 0.27	225 (33)	3.86 ± 0.25 **	247 (35)	3.64 ± 0.21 *	222 (32)	3.29 ± 0.27	225 (32)
	7 - 10	4.20 ± 0.26 **	199 (31)	4.93 ± 0.29	226 (35)	4.54 ± 0.24	206 (32)	3.57 ± 0.34	198 (30)
	10 - 13	6.49 ± 0.24 **	185 (31)	6.81 ± 0.25	209 (34)	6.77 ± 0.21	191 (32)	5.17 ± 0.36 **	181 (30)
	13 - 16	7.46 ± 0.27 **	185 (31)	7.10 ± 0.22	205 (34)	7.74 ± 0.19	186 (32)	6.20 ± 0.27 **	175 (30)
	16 - 19	6.08 ± 0.19 **	185 (31)	5.90 ± 0.23	205 (34)	6.07 ± 0.19	186 (32)	5.22 ± 0.30 **	175 (30)
	19 - 21	5.50 ± 0.26 **	185 (31)	6.14 ± 0.27	205 (34)	5.01 ± 0.24	186 (32)	4.37 ± 0.25 *	175 (30)
	21 - 25	13.95 ± 0.45 **	185 (31)	14.53 ± 0.56	205 (34)	12.71 ± 0.48	186 (32)	9.02 ± 0.61 **	174 (30)
	25 - 28	14.08 ± 0.44 **	185 (31)	15.72 ± 0.48 *	205 (34)	14.27 ± 0.45	186 (32)	10.39 ± 0.60 **	174 (30)
	4 - 28	61.48 ± 1.45 **	185 (31)	66.13 ± 1.62	205 (34)	61.70 ± 1.19	186 (32)	48.15 ± 2.19 **	174 (30)

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F2 Pups

Phase	Days	Treatment Groups (ppm)	
		0.05 ppm EE	
		WT Gain (g)	N
PND	1 - 4 (unadjusted)	2.76 ± 0.16 **	300 (28)
	1 - 4	2.34 ± 0.15	300 (28)
	4 - 7	3.86 ± 0.28 **	203 (28)
	7 - 10	4.94 ± 0.22	191 (27)
	10 - 13	6.52 ± 0.22	181 (27)
	13 - 16	7.18 ± 0.22	179 (27)
	16 - 19	6.29 ± 0.13	179 (27)
	19 - 21	5.98 ± 0.18	179 (27)
	21 - 25	14.07 ± 0.44	178 (27)
	25 - 28	14.41 ± 0.36	178 (27)
	4 - 28	63.98 ± 0.87	178 (27)

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LEGEND

N = the number of pups (number of litters)

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 for all postnatal days. Total live on PND 1 for day 1 to cull day, and number of live pups after culling for later weight days.

Unadjusted pup weights may also be reported for select postnatal days.

Statistical analysis was performed using mixed effects models with litter as a random effect, and a Dunnett-Hsu adjustment for multiple pairwise 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 ****