

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

R19: Pup Mean Body Weight Summary
Test Compound: 2-Hydroxy-4-methoxybenzophenone
CAS Number: 131-57-7

Date Report Requested: 12/13/2019
Time Report Requested: 13:56:56
Lab: RTI

C Number:

MOG002B

Study Gender:

Both

PWG Approval Date

See web page for date of PWG Approval

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F1 Pups

Treatment Groups (ppm)

Phase	0		3000			10000		
	WT (g)	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	7.07 ± 0.10 *	271 (22)	7.04 ± 0.09	99.61	260 (20)	6.78 ± 0.10	95.86	276 (22)
PND4	10.43 ± 0.16 **	268 (22)	10.24 ± 0.19	98.11	259 (20)	9.77 ± 0.17 *	93.65	275 (22)
PND7	15.99 ± 0.31 **	173 (22)	15.43 ± 0.37	96.51	158 (20)	14.88 ± 0.38	93.09	172 (22)
PND10	23.21 ± 0.41 **	173 (22)	22.47 ± 0.55	96.81	158 (20)	21.58 ± 0.48 *	92.97	172 (22)
PND13	30.55 ± 0.48 **	173 (22)	30.06 ± 0.72	98.37	157 (20)	28.25 ± 0.55 *	92.46	171 (22)
PND16	38.22 ± 0.47 **	173 (22)	37.74 ± 0.76	98.76	157 (20)	35.86 ± 0.53 *	93.84	170 (22)
PND19	44.99 ± 0.63 **	173 (22)	44.37 ± 0.96	98.61	157 (20)	42.30 ± 0.58 *	94.01	170 (22)
PND21	52.74 ± 0.76 **	173 (22)	50.99 ± 1.16	96.68	157 (20)	48.67 ± 0.68 **	92.27	170 (22)
PND25	68.46 ± 1.07 **	172 (22)	66.49 ± 1.41	97.11	157 (20)	63.99 ± 0.83 *	93.47	170 (22)
PND28	84.88 ± 1.05 **	172 (22)	82.28 ± 1.56	96.94	157 (20)	77.28 ± 1.02 **	91.05	170 (22)

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Phase	Treatment Groups (ppm)					
	30000			0.05 ppm EE		
	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	6.78 ± 0.09	95.88	234 (20)	6.21 ± 0.18 **	87.83	208 (18)
PND4	9.12 ± 0.22 **	87.37	233 (20)	8.57 ± 0.36 **	82.11	193 (17)
PND7	13.95 ± 0.42 **	87.29	159 (20)	13.83 ± 0.32 **	86.49	118 (15)
PND10	19.44 ± 0.55 **	83.74	158 (20)	19.91 ± 0.45 **	85.79	118 (15)
PND13	25.27 ± 0.66 **	82.72	158 (20)	26.38 ± 0.50 **	86.35	118 (15)
PND16	31.31 ± 0.73 **	81.91	157 (20)	33.24 ± 0.60 **	86.98	118 (15)
PND19	36.47 ± 0.83 **	81.06	156 (20)	39.92 ± 0.69 **	88.73	118 (15)
PND21	41.47 ± 1.00 **	78.63	156 (20)	47.10 ± 0.86 **	89.30	118 (15)
PND25	52.83 ± 1.52 **	77.16	156 (20)	63.26 ± 0.94 **	92.40	117 (15)
PND28	64.62 ± 1.87 **	76.13	156 (20)	77.67 ± 1.11 **	91.51	111 (15)

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Phase	0		3000			10000		
	WT (g)	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	7.26 ± 0.10 **	128 (22)	7.17 ± 0.10	98.75	142 (20)	6.89 ± 0.11 *	94.81	136 (21)
PND4	10.76 ± 0.16 **	126 (22)	10.49 ± 0.19	97.50	141 (20)	9.94 ± 0.17 **	92.34	136 (21)
PND7	16.49 ± 0.31 **	85 (22)	15.97 ± 0.35	96.85	80 (20)	15.22 ± 0.39 *	92.28	82 (21)
PND10	23.86 ± 0.38 **	85 (22)	23.16 ± 0.48	97.08	80 (20)	22.09 ± 0.48 *	92.59	82 (21)
PND13	31.37 ± 0.42 **	85 (22)	30.79 ± 0.63	98.17	80 (20)	28.87 ± 0.51 **	92.06	82 (21)
PND16	39.29 ± 0.44 **	85 (22)	38.71 ± 0.66	98.52	80 (20)	36.72 ± 0.53 *	93.45	82 (21)
PND19	46.42 ± 0.60 **	85 (22)	45.62 ± 0.92	98.28	80 (20)	43.26 ± 0.56 **	93.19	82 (21)
PND21	54.71 ± 0.75 **	85 (22)	52.44 ± 1.09	95.85	80 (20)	49.84 ± 0.66 **	91.10	82 (21)
PND25	71.71 ± 1.07 **	85 (22)	68.92 ± 1.34	96.11	80 (20)	66.28 ± 0.88 *	92.43	82 (21)
PND28	89.91 ± 1.08 **	85 (22)	86.26 ± 1.53	95.94	80 (20)	81.11 ± 1.21 **	90.22	82 (21)

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Phase	Treatment Groups (ppm)					
	30000			0.05 ppm EE		
	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	6.88 ± 0.10 *	94.67	122 (20)	6.34 ± 0.19 **	87.29	101 (18)
PND4	9.21 ± 0.23 **	85.60	121 (20)	8.78 ± 0.35 **	81.61	91 (17)
PND7	14.19 ± 0.45 **	86.05	83 (20)	14.10 ± 0.35 **	85.52	57 (15)
PND10	19.66 ± 0.62 **	82.40	82 (20)	20.33 ± 0.46 **	85.21	57 (15)
PND13	25.40 ± 0.74 **	80.98	82 (20)	26.83 ± 0.58 **	85.54	57 (15)
PND16	31.68 ± 0.86 **	80.64	81 (20)	33.79 ± 0.67 **	86.00	57 (15)
PND19	36.99 ± 0.93 **	79.68	80 (20)	40.59 ± 0.76 **	87.44	57 (15)
PND21	42.17 ± 1.13 **	77.08	80 (20)	48.17 ± 0.97 **	88.05	57 (15)
PND25	54.57 ± 1.82 **	76.10	80 (20)	64.91 ± 1.09 **	90.52	56 (15)
PND28	67.93 ± 2.16 **	75.55	80 (20)	80.46 ± 1.15 **	89.49	57 (15)

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Treatment Groups (ppm)

Phase	0		3000			10000		
	WT (g)	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	6.88 ± 0.11 *	143 (22)	6.87 ± 0.10	99.82	118 (20)	6.61 ± 0.11	96.11	140 (22)
PND4	10.13 ± 0.17 **	142 (22)	9.92 ± 0.21	98.02	118 (20)	9.51 ± 0.18	93.88	139 (22)
PND7	15.51 ± 0.33 **	88 (22)	14.86 ± 0.42	95.82	78 (20)	14.41 ± 0.39	92.94	90 (22)
PND10	22.62 ± 0.47 **	88 (22)	21.75 ± 0.63	96.17	78 (20)	20.89 ± 0.51	92.36	90 (22)
PND13	29.80 ± 0.57 **	88 (22)	29.31 ± 0.84	98.34	77 (20)	27.35 ± 0.62 *	91.79	89 (22)
PND16	37.25 ± 0.57 **	88 (22)	36.76 ± 0.90	98.68	77 (20)	34.82 ± 0.60 *	93.47	88 (22)
PND19	43.71 ± 0.71 **	88 (22)	43.09 ± 1.03	98.57	77 (20)	41.08 ± 0.63 *	93.97	88 (22)
PND21	50.97 ± 0.85 **	88 (22)	49.51 ± 1.27	97.14	77 (20)	47.17 ± 0.75 *	92.56	88 (22)
PND25	65.46 ± 1.15 **	87 (22)	63.95 ± 1.52	97.70	77 (20)	61.24 ± 0.93 *	93.55	88 (22)
PND28	80.35 ± 1.19 **	87 (22)	78.14 ± 1.62	97.26	77 (20)	73.04 ± 1.12 **	90.90	88 (22)

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F1 Females

Phase	Treatment Groups (ppm)					
	30000			0.05 ppm EE		
	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	6.63 ± 0.09	96.31	112 (20)	6.23 ± 0.12 **	90.63	107 (17)
PND4	8.93 ± 0.21 **	88.21	112 (20)	8.39 ± 0.36 **	82.90	102 (17)
PND7	13.61 ± 0.39 **	87.79	76 (20)	13.56 ± 0.33 **	87.45	61 (15)
PND10	19.06 ± 0.48 **	84.28	76 (20)	19.54 ± 0.46 **	86.39	61 (15)
PND13	25.07 ± 0.64 **	84.13	76 (20)	25.91 ± 0.46 **	86.95	61 (15)
PND16	30.74 ± 0.62 **	82.51	76 (20)	32.71 ± 0.56 **	87.79	61 (15)
PND19	35.73 ± 0.74 **	81.73	76 (20)	39.26 ± 0.63 **	89.82	61 (15)
PND21	40.50 ± 0.88 **	79.47	76 (20)	46.06 ± 0.79 **	90.37	61 (15)
PND25	50.66 ± 1.20 **	77.40	76 (20)	61.74 ± 0.90 *	94.32	61 (15)
PND28	60.70 ± 1.53 **	75.54	76 (20)	74.64 ± 1.11 **	92.90	54 (15)

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F2 Pups

Treatment Groups (ppm)

Phase	0		3000			10000		
	WT (g)	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	6.76 ± 0.13 *	468 (35)	7.02 ± 0.13	103.81	456 (36)	6.79 ± 0.13	100.47	399 (32)
PND4	8.94 ± 0.23	450 (34)	9.37 ± 0.30	104.78	449 (36)	9.15 ± 0.23	102.24	387 (32)
PND7	11.78 ± 0.38	225 (33)	13.44 ± 0.45 *	114.11	247 (35)	12.99 ± 0.37	110.27	222 (32)
PND10	16.60 ± 0.53	199 (31)	18.66 ± 0.65 *	112.44	226 (35)	17.80 ± 0.49	107.20	206 (32)
PND13	23.63 ± 0.76 **	185 (31)	26.36 ± 0.76 *	111.56	209 (34)	25.06 ± 0.60	106.05	191 (32)
PND16	31.04 ± 0.91 **	185 (31)	33.65 ± 0.84	108.41	205 (34)	33.09 ± 0.66	106.63	186 (32)
PND19	37.12 ± 0.97 **	185 (31)	39.56 ± 0.99	106.56	205 (34)	39.17 ± 0.71	105.52	186 (32)
PND21	42.64 ± 1.17 **	185 (31)	45.71 ± 1.23	107.20	205 (34)	44.20 ± 0.88	103.65	186 (32)
PND25	56.65 ± 1.36 **	185 (31)	60.31 ± 1.51	106.45	205 (34)	56.97 ± 1.12	100.56	186 (32)
PND28	70.72 ± 1.60 **	185 (31)	76.01 ± 1.82	107.48	205 (34)	71.22 ± 1.34	100.71	186 (32)

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F2 Pups

Phase	Treatment Groups (ppm)					
	30000			0.05 ppm EE		
	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	6.56 ± 0.09	97.06	384 (32)	6.41 ± 0.10 **	94.80	304 (28)
PND4	8.59 ± 0.16	96.01	374 (32)	8.81 ± 0.18	98.52	300 (28)
PND7	12.26 ± 0.42	104.12	225 (32)	13.29 ± 0.37 **	112.84	203 (28)
PND10	16.31 ± 0.63	98.23	198 (30)	18.61 ± 0.46 **	112.09	191 (27)
PND13	21.88 ± 0.88	92.62	181 (30)	25.56 ± 0.64	108.17	181 (27)
PND16	28.20 ± 1.01	90.88	175 (30)	32.90 ± 0.70	106.02	179 (27)
PND19	33.43 ± 1.14 *	90.06	175 (30)	39.22 ± 0.71	105.64	179 (27)
PND21	37.81 ± 1.32 *	88.68	175 (30)	45.22 ± 0.79	106.06	179 (27)
PND25	46.90 ± 1.80 **	82.78	174 (30)	59.40 ± 0.95	104.84	178 (27)
PND28	57.27 ± 2.32 **	80.98	174 (30)	73.76 ± 0.96	104.30	178 (27)

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F2 Males

Treatment Groups (ppm)

Phase	0		3000			10000		
	WT (g)	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	6.95 ± 0.12	213 (33)	7.17 ± 0.14	103.21	226 (36)	7.06 ± 0.14	101.67	192 (32)
PND4	9.18 ± 0.24	205 (33)	9.72 ± 0.30	105.83	223 (36)	9.72 ± 0.25	105.87	187 (32)
PND7	11.87 ± 0.41	110 (32)	14.24 ± 0.47 **	119.97	126 (35)	13.71 ± 0.40 **	115.48	117 (32)
PND10	16.46 ± 0.50	98 (30)	19.70 ± 0.73 **	119.72	121 (35)	19.01 ± 0.64 *	115.50	110 (32)
PND13	23.53 ± 0.76 *	91 (30)	27.56 ± 0.83 **	117.10	112 (34)	26.25 ± 0.81 *	111.55	103 (32)
PND16	30.91 ± 0.93 **	91 (30)	35.13 ± 0.92 **	113.66	110 (34)	34.32 ± 0.91 *	111.04	101 (32)
PND19	37.00 ± 1.06 **	91 (30)	41.19 ± 1.08 **	111.32	110 (34)	40.65 ± 0.94 *	109.85	101 (32)
PND21	42.56 ± 1.28 **	91 (30)	47.72 ± 1.32 **	112.14	110 (34)	45.95 ± 1.10	107.97	101 (32)
PND25	57.35 ± 1.57 **	91 (30)	63.70 ± 1.65 *	111.07	110 (34)	59.93 ± 1.50	104.50	101 (32)
PND28	72.28 ± 1.90 **	91 (30)	80.42 ± 2.01 **	111.26	110 (34)	75.41 ± 1.76	104.32	101 (32)

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Phase	Treatment Groups (ppm)					
	30000			0.05 ppm EE		
	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	6.75 ± 0.09	97.10	185 (32)	6.53 ± 0.10 **	93.94	144 (28)
PND4	8.87 ± 0.16	96.67	184 (32)	9.22 ± 0.18	100.43	141 (28)
PND7	12.75 ± 0.40	107.38	112 (31)	13.63 ± 0.37 **	114.78	97 (28)
PND10	17.00 ± 0.61	103.33	99 (30)	19.14 ± 0.49 **	116.30	93 (27)
PND13	22.65 ± 0.90	96.23	92 (30)	26.00 ± 0.70 *	110.46	89 (27)
PND16	29.25 ± 0.99	94.62	88 (30)	33.44 ± 0.83	108.18	88 (27)
PND19	34.65 ± 1.13	93.64	88 (30)	39.98 ± 0.83	108.05	88 (27)
PND21	39.18 ± 1.33	92.07	88 (30)	46.30 ± 0.95 *	108.81	88 (27)
PND25	49.42 ± 1.86 **	86.16	88 (30)	61.65 ± 1.20	107.49	87 (27)
PND28	61.82 ± 2.46 **	85.52	88 (30)	76.78 ± 1.19	106.22	87 (27)

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Treatment Groups (ppm)

Phase	0		3000			10000		
	WT (g)	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	6.67 ± 0.13 **	255 (35)	6.90 ± 0.12	103.54	230 (35)	6.52 ± 0.13	97.86	207 (32)
PND4	8.72 ± 0.24 *	245 (34)	9.15 ± 0.28	105.00	226 (35)	8.62 ± 0.24	98.84	200 (32)
PND7	11.78 ± 0.40	115 (31)	12.64 ± 0.45	107.34	121 (34)	12.19 ± 0.42	103.49	105 (32)
PND10	16.58 ± 0.68	101 (30)	17.76 ± 0.73	107.15	105 (33)	16.73 ± 0.51	100.90	96 (32)
PND13	23.60 ± 0.86 *	94 (30)	24.77 ± 0.88	104.99	97 (32)	23.83 ± 0.60	100.98	88 (32)
PND16	31.03 ± 0.99 **	94 (30)	31.60 ± 0.98	101.84	95 (32)	31.64 ± 0.80	101.96	85 (32)
PND19	37.14 ± 1.03 **	94 (30)	37.52 ± 1.05	101.03	95 (32)	37.40 ± 0.90	100.71	85 (32)
PND21	42.55 ± 1.23 **	94 (30)	43.14 ± 1.31	101.38	95 (32)	42.09 ± 1.13	98.92	85 (32)
PND25	55.89 ± 1.47 **	94 (30)	56.05 ± 1.59	100.28	95 (32)	53.44 ± 1.40	95.62	85 (32)
PND28	69.12 ± 1.70 **	94 (30)	70.49 ± 1.96	101.98	95 (32)	66.19 ± 1.70	95.75	85 (32)

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	30000			0.05 ppm EE		
	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	6.37 ± 0.09	95.49	199 (32)	6.22 ± 0.10 **	93.36	160 (27)
PND4	8.29 ± 0.18	95.13	190 (32)	8.36 ± 0.20	95.93	159 (27)
PND7	11.91 ± 0.44	101.12	113 (32)	12.88 ± 0.39 *	109.35	106 (27)
PND10	15.91 ± 0.70	95.98	99 (29)	17.96 ± 0.55	108.34	98 (26)
PND13	21.52 ± 0.98	91.19	89 (29)	24.99 ± 0.73	105.92	92 (26)
PND16	28.09 ± 1.06 *	90.54	87 (28)	32.36 ± 0.71	104.29	91 (26)
PND19	33.16 ± 1.15 **	89.28	87 (28)	38.45 ± 0.75	103.55	91 (26)
PND21	37.64 ± 1.27 **	88.46	87 (28)	44.12 ± 0.82	103.69	91 (26)
PND25	45.75 ± 1.68 **	81.86	86 (28)	57.38 ± 0.94	102.66	91 (26)
PND28	54.49 ± 2.09 **	78.83	86 (28)	71.12 ± 1.03	102.88	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 ****