

**Study Number:** MOG003B  
**Test Type:** MOG  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**R19G: Pup Mean Body Weight Gain**  
**Test Compound:** 2-Ethylhexyl p-Methoxycinnamate  
**CAS Number:** 5466-77-3

**Date Report Requested:** 01/14/2020  
**Time Report Requested:** 12:47:25  
**Lab:** RTI

**C Number:**

MOG003B

**Study Gender:**

Both

**PWG Approval Date**

See web page for date of PWG Approval

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F1 Males

Treatment Groups (ppm)

Phase	Days	0		1000		3000		6000	
		WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N
PND	1 - 4	3.29 ± 0.15	126 (21)	3.15 ± 0.10	151 (24)	3.27 ± 0.11	109 (19)	3.17 ± 0.11	118 (22)
	4 - 7	5.21 ± 0.18 *	100 (21)	4.94 ± 0.19	115 (24)	4.84 ± 0.20	91 (19)	4.64 ± 0.15	97 (22)
	7 - 10	5.99 ± 0.21 **	100 (21)	6.09 ± 0.11	115 (24)	5.45 ± 0.16	91 (19)	4.98 ± 0.18 **	96 (22)
	10 - 13	7.40 ± 0.19 **	100 (21)	6.91 ± 0.15	115 (24)	6.89 ± 0.40	91 (19)	6.12 ± 0.17 **	95 (22)
	13 - 16	7.07 ± 0.19 **	100 (21)	7.01 ± 0.12	113 (24)	5.79 ± 0.42 **	91 (19)	5.59 ± 0.16 **	95 (22)
	16 - 19	5.72 ± 0.15 **	100 (21)	5.83 ± 0.15	113 (24)	5.27 ± 0.15	90 (19)	4.78 ± 0.14 **	95 (22)
	19 - 21	7.75 ± 0.29 **	100 (21)	7.93 ± 0.30	114 (24)	7.47 ± 0.30	90 (19)	5.98 ± 0.22 **	95 (22)
	21 - 25	15.85 ± 0.42 **	100 (21)	16.29 ± 0.36	114 (24)	16.11 ± 0.45	91 (19)	14.24 ± 0.54 *	95 (22)
	25 - 28	17.75 ± 0.48 **	100 (21)	17.36 ± 0.47	114 (24)	16.89 ± 0.49	91 (19)	15.65 ± 0.35 **	95 (22)
	4 - 28	72.82 ± 0.87 **	100 (21)	72.44 ± 0.97	114 (24)	68.72 ± 0.85 **	91 (19)	61.96 ± 0.88 **	95 (22)

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**F1 Females**

**Treatment Groups (ppm)**

Phase	Days	0		1000		3000		6000	
		WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N
PND	1 - 4	2.84 ± 0.31	101 (21)	2.76 ± 0.09	158 (24)	2.82 ± 0.10	110 (19)	2.76 ± 0.13	122 (22)
	4 - 7	4.82 ± 0.21	86 (20)	4.50 ± 0.21	122 (24)	4.42 ± 0.20	95 (19)	4.33 ± 0.13	102 (22)
	7 - 10	5.80 ± 0.17 **	86 (20)	5.61 ± 0.11	120 (24)	5.04 ± 0.18 **	95 (19)	4.50 ± 0.14 **	102 (22)
	10 - 13	7.08 ± 0.13 **	86 (20)	6.64 ± 0.13	119 (24)	6.09 ± 0.20 **	95 (19)	5.80 ± 0.13 **	101 (22)
	13 - 16	6.74 ± 0.18 **	86 (20)	6.53 ± 0.13	119 (24)	5.92 ± 0.20 **	95 (19)	5.27 ± 0.17 **	101 (22)
	16 - 19	5.50 ± 0.17 **	86 (20)	5.47 ± 0.15	119 (24)	5.03 ± 0.15	95 (19)	4.40 ± 0.16 **	101 (22)
	19 - 21	7.12 ± 0.31 **	86 (20)	6.87 ± 0.25	119 (24)	6.33 ± 0.30	95 (19)	5.21 ± 0.18 **	101 (22)
	21 - 25	13.97 ± 0.47 *	86 (20)	14.23 ± 0.35	119 (24)	13.89 ± 0.46	95 (19)	12.75 ± 0.49	101 (22)
	25 - 28	15.29 ± 0.35 **	86 (20)	14.94 ± 0.35	119 (24)	14.09 ± 0.40	95 (19)	13.13 ± 0.35 **	101 (22)
4 - 28	66.33 ± 0.98 **	86 (20)	64.88 ± 0.96	119 (24)	60.80 ± 0.95 **	95 (19)	55.44 ± 0.81 **	101 (22)	

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**F1 Pups**

**Treatment Groups (ppm)**

Phase	Days	0		1000		3000		6000	
		WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N
PND	1 - 4	2.98 ± 0.30	227 (22)	2.95 ± 0.09	309 (24)	3.04 ± 0.09	219 (19)	2.98 ± 0.12	240 (22)
	4 - 7	5.03 ± 0.17	186 (21)	4.70 ± 0.20	237 (24)	4.63 ± 0.19	186 (19)	4.48 ± 0.14	199 (22)
	7 - 10	5.88 ± 0.18 **	186 (21)	5.84 ± 0.10	235 (24)	5.26 ± 0.16 *	186 (19)	4.76 ± 0.14 **	198 (22)
	10 - 13	7.25 ± 0.15 **	186 (21)	6.76 ± 0.13	234 (24)	6.49 ± 0.18 **	186 (19)	5.92 ± 0.13 **	196 (22)
	13 - 16	6.92 ± 0.18 **	186 (21)	6.78 ± 0.11	232 (24)	5.85 ± 0.21 **	186 (19)	5.40 ± 0.14 **	196 (22)
	16 - 19	5.64 ± 0.14 **	186 (21)	5.66 ± 0.14	232 (24)	5.16 ± 0.14	185 (19)	4.58 ± 0.13 **	196 (22)
	19 - 21	7.42 ± 0.27 **	186 (21)	7.39 ± 0.28	233 (24)	6.92 ± 0.29	185 (19)	5.60 ± 0.20 **	196 (22)
	21 - 25	15.02 ± 0.43 **	186 (21)	15.30 ± 0.35	233 (24)	15.03 ± 0.45	186 (19)	13.45 ± 0.50 *	196 (22)
	25 - 28	16.60 ± 0.37 **	186 (21)	16.16 ± 0.40	233 (24)	15.49 ± 0.44	186 (19)	14.31 ± 0.30 **	196 (22)
4 - 28	69.83 ± 0.86 **	186 (21)	68.68 ± 0.96	233 (24)	64.84 ± 0.87 **	186 (19)	58.51 ± 0.74 **	196 (22)	

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F2 Males: Fertility Females

Phase	Days	Treatment Groups (ppm)							
		0		1000		3000		6000	
		WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N
PND	1 - 4	2.83 ± 0.14 *	163 (25)	2.63 ± 0.16	206 (32)	2.09 ± 0.28 *	160 (24)	2.28 ± 0.19	156 (25)
	4 - 7	3.79 ± 0.27	102 (25)	3.73 ± 0.26	155 (32)	3.53 ± 0.24	97 (21)	3.64 ± 0.28	109 (24)
	7 - 10	5.39 ± 0.34 **	96 (25)	5.66 ± 0.23	139 (32)	4.79 ± 0.27	91 (21)	4.43 ± 0.23 *	99 (23)
	10 - 13	7.08 ± 0.30 **	94 (25)	6.69 ± 0.20	135 (32)	6.74 ± 0.20	86 (21)	5.92 ± 0.22 **	97 (23)
	13 - 16	7.43 ± 0.30 **	94 (25)	7.05 ± 0.17	133 (32)	6.95 ± 0.26	86 (21)	5.62 ± 0.24 **	96 (23)
	16 - 19	5.93 ± 0.23 **	94 (25)	5.96 ± 0.26	133 (32)	6.10 ± 0.23	86 (21)	5.03 ± 0.25 *	96 (23)
	19 - 21	6.55 ± 0.40 **	94 (25)	6.73 ± 0.42	135 (32)	5.48 ± 0.45	86 (21)	4.98 ± 0.30 *	96 (23)
	21 - 25	16.91 ± 0.62 **	94 (25)	16.73 ± 0.38	135 (32)	15.41 ± 0.85	86 (21)	14.48 ± 0.35 **	96 (23)
	25 - 28	15.49 ± 0.47 **	94 (25)	15.86 ± 0.33	135 (32)	14.87 ± 0.47	86 (21)	13.53 ± 0.39 **	96 (23)
	4 - 28	68.94 ± 2.12 **	94 (25)	68.85 ± 1.49	135 (32)	64.47 ± 1.91	86 (21)	58.15 ± 1.26 **	96 (23)

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F2 Females: Fertility Females

Phase	Days	Treatment Groups (ppm)							
		0		1000		3000		6000	
		WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N
PND	1 - 4	2.28 ± 0.18	190 (26)	2.34 ± 0.15	211 (32)	1.91 ± 0.27	181 (24)	1.97 ± 0.18	166 (25)
	4 - 7	3.40 ± 0.32	131 (25)	3.67 ± 0.21	135 (32)	3.26 ± 0.28	104 (21)	3.58 ± 0.27	113 (24)
	7 - 10	4.98 ± 0.40 **	116 (25)	5.68 ± 0.21	126 (32)	4.87 ± 0.32	92 (20)	4.50 ± 0.21	103 (23)
	10 - 13	6.77 ± 0.27 **	110 (24)	6.48 ± 0.22	126 (32)	6.55 ± 0.21	85 (20)	5.73 ± 0.17 **	102 (23)
	13 - 16	7.32 ± 0.26 **	110 (24)	6.89 ± 0.20	125 (32)	6.54 ± 0.24	85 (20)	5.48 ± 0.21 **	102 (23)
	16 - 19	5.49 ± 0.29 **	110 (24)	5.65 ± 0.20	125 (32)	5.78 ± 0.14	85 (20)	4.87 ± 0.22 *	102 (23)
	19 - 21	5.78 ± 0.41 *	110 (24)	6.29 ± 0.35	125 (32)	4.83 ± 0.40	85 (20)	5.13 ± 0.30	102 (23)
	21 - 25	14.87 ± 0.46 **	110 (24)	14.42 ± 0.43	125 (32)	13.69 ± 0.81	85 (20)	12.96 ± 0.45 *	102 (23)
	25 - 28	12.87 ± 0.35 *	110 (24)	13.47 ± 0.33	125 (32)	12.93 ± 0.47	85 (20)	12.16 ± 0.31	102 (23)
4 - 28	62.33 ± 1.83 **	110 (24)	62.82 ± 1.48	125 (32)	59.30 ± 1.70	85 (20)	54.82 ± 1.18 **	102 (23)	

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F2 Pups: Fertility Females

Phase	Days	Treatment Groups (ppm)							
		0		1000		3000		6000	
		WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N
PND	1 - 4	2.47 ± 0.18	353 (26)	2.49 ± 0.15	417 (32)	2.03 ± 0.27	341 (24)	2.13 ± 0.18	322 (25)
	4 - 7	3.49 ± 0.28	233 (26)	3.70 ± 0.23	290 (32)	3.39 ± 0.24	201 (21)	3.62 ± 0.26	222 (24)
	7 - 10	5.01 ± 0.34 **	212 (26)	5.70 ± 0.18	265 (32)	4.83 ± 0.25	183 (21)	4.47 ± 0.18 *	202 (23)
	10 - 13	6.72 ± 0.31 **	204 (26)	6.60 ± 0.20	261 (32)	6.63 ± 0.17	171 (21)	5.84 ± 0.18 **	199 (23)
	13 - 16	7.16 ± 0.30 **	204 (26)	7.00 ± 0.17	258 (32)	6.71 ± 0.20	171 (21)	5.55 ± 0.21 **	198 (23)
	16 - 19	5.47 ± 0.30 **	204 (26)	5.80 ± 0.22	258 (32)	5.90 ± 0.19	171 (21)	4.89 ± 0.20	198 (23)
	19 - 21	5.92 ± 0.45 **	204 (26)	6.51 ± 0.36	260 (32)	5.15 ± 0.40	171 (21)	5.05 ± 0.24	198 (23)
	21 - 25	15.55 ± 0.63 **	204 (26)	15.59 ± 0.36	260 (32)	14.39 ± 0.78	171 (21)	13.80 ± 0.30 **	198 (23)
	25 - 28	13.91 ± 0.39 **	204 (26)	14.69 ± 0.32	260 (32)	13.85 ± 0.44	171 (21)	12.79 ± 0.30 *	198 (23)
	4 - 28	63.82 ± 2.38 **	204 (26)	66.00 ± 1.37	260 (32)	61.53 ± 1.70	171 (21)	56.49 ± 1.12 **	198 (23)

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#### LEGEND

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N = the number of pups (number of litters)

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

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  $P \leq 0.01$

Pup weights were excluded as outliers for the F1 1000 ppm group on PND 16 for one pup therefore the pup weight gains for PND 13-16 and PND 16-19 were excluded; for the F1 3000 ppm group for PND 19 for one pup therefore the pup weight gains for PND 16-19 and PND 19-21 were excluded; for the F2 1000 ppm group for PND 16 for two pups therefore the pup weight gains for PND 13-16 and PND 16-19 were excluded.

**\*\* END OF REPORT \*\***