

Study Number: MOG003B

Test Type: MOG

Route: Dosing in Feed

Species/Strain: Rat/Sprague-Dawley

C Number:

Study Gender:

PWG Approval Date

I04G: Mean Body Weight Gain

Test Compound: 2-Ethylhexyl p-Methoxycinnamate

CAS Number: 5466-77-3

MOG003B

Both

See web page for date of PWG Approval

Date Report Requested: 01/14/2020

Time Report Requested: 09:48:36

Lab: RTI

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F0 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
Gestation	3 - 6	13.7 ± 1.4	22	13.6 ± 1.8	24	11.1 ± 1.2	19	11.9 ± 2.1	22
	6 - 9	12.6 ± 0.7	22	12.2 ± 0.8	24	12.6 ± 0.6	19	12.3 ± 1.4	22
	9 - 12	14.6 ± 0.7	22	15.7 ± 0.7	24	13.9 ± 0.7	19	16.0 ± 0.7	22
	12 - 15	18.0 ± 0.9	22	19.0 ± 0.6	24	18.3 ± 0.9	19	18.1 ± 0.8	22
	15 - 18	35.3 ± 1.3	22	40.2 ± 1.2 *	24	37.3 ± 1.1	19	36.8 ± 1.4	22
	18 - 21	37.2 ± 1.5	22	40.9 ± 1.6	24	39.1 ± 1.9	19	37.4 ± 1.3	22
Lactation	1 - 4	11.6 ± 2.3	22	15.0 ± 2.6	24	10.2 ± 1.9	19	14.7 ± 2.1	22
	4 - 7	9.2 ± 1.6	21	6.1 ± 2.5	24	8.1 ± 2.8	19	5.7 ± 1.9	22
	7 - 10	13.5 ± 1.5	21	14.2 ± 2.3	24	12.0 ± 2.3	19	10.3 ± 1.8	22
	10 - 13	3.2 ± 1.9	21	2.7 ± 1.2	24	6.0 ± 1.9	19	2.5 ± 1.1	22
	13 - 16	-1.2 ± 1.8	21	2.0 ± 1.5	24	3.1 ± 1.6	19	1.0 ± 1.1	22
	1 - 16	37.5 ± 3.3	21	40.0 ± 2.9	24	39.3 ± 2.7	19	34.2 ± 2.8	22
	16 - 19	-7.9 ± 2.0 *	21	-7.0 ± 1.5	24	-8.4 ± 1.5	19	-1.7 ± 1.5 *	22
	19 - 21	-1.5 ± 1.3	21	-1.8 ± 1.4	24	-2.0 ± 1.3	19	-2.5 ± 1.4	22
	21 - 25	-22.1 ± 3.2	21	-23.8 ± 2.4	24	-20.6 ± 3.7	19	-17.4 ± 2.6	22
	25 - 28	9.2 ± 2.8	21	10.6 ± 2.5	24	6.9 ± 2.8	19	7.7 ± 2.6	22
	16 - 28	-22.3 ± 2.7 *	21	-21.9 ± 1.9	24	-24.1 ± 2.2	19	-13.9 ± 1.4 *	22
	4 - 28	2.4 ± 2.9	21	3.1 ± 2.1	24	5.0 ± 1.9	19	5.6 ± 1.8	22
	1 - 28	15.2 ± 3.0	21	18.1 ± 3.2	24	15.2 ± 2.7	19	20.3 ± 2.5	22

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F1 Males: All 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	28 - 35	47.8 ± 1.2 **	72 (21)	47.6 ± 0.9	84 (24)	46.4 ± 0.6	69 (19)	44.6 ± 0.6 *	74 (22)
	35 - 42	56.4 ± 1.0 **	72 (21)	54.9 ± 0.8	84 (24)	53.4 ± 0.9 *	69 (19)	52.7 ± 0.5 **	74 (22)
	42 - 49	51.2 ± 0.8 **	72 (21)	50.3 ± 0.7	84 (24)	49.7 ± 0.7	69 (19)	48.7 ± 0.7 *	74 (22)
	49 - 56	46.1 ± 1.1	72 (21)	45.8 ± 0.7	84 (24)	45.8 ± 0.8	69 (19)	45.0 ± 0.9	74 (22)
	56 - 63	32.9 ± 1.2	67 (21)	33.3 ± 1.0	79 (24)	34.1 ± 1.2	64 (19)	35.0 ± 0.8	69 (22)
	63 - 70	25.3 ± 0.8	67 (21)	24.0 ± 0.9	79 (24)	21.4 ± 3.5	64 (19)	24.3 ± 0.7	69 (22)
	70 - 77	21.2 ± 0.8	67 (21)	21.1 ± 0.8	79 (24)	23.9 ± 2.4	64 (19)	20.2 ± 0.7	69 (22)
	77 - 84	21.8 ± 1.0	67 (21)	21.8 ± 1.1	79 (24)	21.2 ± 1.6	64 (19)	20.6 ± 0.8	69 (22)
	84 - 91	12.2 ± 1.0	67 (21)	13.7 ± 1.1	79 (24)	15.3 ± 1.0 *	64 (19)	13.3 ± 0.6	69 (22)
	91 - 105	21.7 ± 1.3	67 (21)	19.5 ± 1.4	79 (24)	21.3 ± 0.9	64 (19)	20.0 ± 1.0	69 (22)
	28 - 105	336.4 ± 5.6 *	67 (21)	332.6 ± 4.0	79 (24)	332.3 ± 3.5	64 (19)	324.5 ± 3.7	69 (22)
	105 - 112	11.6 ± 0.8	62 (21)	12.2 ± 1.3	74 (24)	9.3 ± 1.1	56 (19)	10.5 ± 0.8	64 (22)
	112 - 119	8.6 ± 0.9	36 (21)	11.9 ± 0.9	46 (24)	13.5 ± 1.3 **	35 (19)	10.6 ± 0.9	37 (22)
	119 - 126	8.3 ± 1.5	36 (21)	9.2 ± 0.9	46 (24)	7.3 ± 1.2	35 (19)	7.0 ± 0.8	37 (22)
	126 - 133	9.6 ± 1.9 **	36 (21)	9.9 ± 0.8	46 (24)	8.8 ± 1.3	35 (19)	5.7 ± 0.8	37 (22)
	133 - 140	2.3 ± 4.3 *	36 (21)	7.8 ± 0.7	46 (24)	3.8 ± 0.8	35 (19)	2.3 ± 0.7	37 (22)
	140 - 147	10.0 ± 1.6 **	36 (21)	7.3 ± 0.8	46 (24)	3.6 ± 1.2 **	35 (19)	2.2 ± 1.9 **	37 (22)
	147 - 154	6.5 ± 1.5	36 (21)	6.7 ± 0.7	46 (24)	8.1 ± 1.9	35 (19)	9.3 ± 2.1	37 (22)
	154 - 161	8.5 ± 1.3	36 (21)	7.6 ± 0.6	45 (24)	7.0 ± 0.9	35 (19)	7.0 ± 0.7	35 (21)
	105 - 161	66.0 ± 2.4 **	36 (21)	73.3 ± 2.0 *	45 (24)	60.0 ± 2.0	35 (19)	54.0 ± 1.9 **	35 (21)
28 - 161	401.7 ± 7.8 **	36 (21)	402.9 ± 5.2	45 (24)	385.7 ± 4.8	35 (19)	377.8 ± 5.7 *	35 (21)	

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Lab: RTI

F1 Females: All 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	28 - 35	36.6 ± 0.7 **	77 (20)	36.5 ± 0.6	92 (24)	36.0 ± 0.5	78 (19)	33.8 ± 0.6 **	84 (22)
	35 - 42	32.8 ± 0.7	72 (20)	32.8 ± 0.8	84 (24)	32.1 ± 0.7	72 (19)	33.8 ± 0.9	75 (22)
	42 - 49	24.0 ± 0.9	72 (20)	23.9 ± 1.0	84 (24)	22.7 ± 1.1	69 (19)	22.9 ± 1.0	74 (22)
	49 - 56	22.4 ± 1.0	72 (20)	22.0 ± 1.4	84 (24)	21.8 ± 0.8	69 (19)	19.5 ± 0.9	74 (22)
	56 - 63	17.9 ± 2.1	67 (20)	19.1 ± 1.4	79 (24)	20.1 ± 0.9	64 (19)	20.8 ± 1.2	69 (22)
	63 - 70	12.1 ± 1.8	67 (20)	12.6 ± 1.7	79 (24)	13.6 ± 1.3	64 (19)	9.9 ± 1.4	69 (22)
	70 - 77	12.3 ± 1.6	67 (20)	10.7 ± 1.2	79 (24)	12.9 ± 1.6	64 (19)	10.7 ± 1.2	69 (22)
	77 - 84	12.8 ± 1.9	67 (20)	10.2 ± 1.5	79 (24)	9.2 ± 1.1	64 (19)	10.6 ± 1.1	69 (22)
	84 - 91	7.0 ± 1.5	67 (20)	6.2 ± 1.5	79 (24)	6.7 ± 1.8	64 (19)	9.8 ± 1.3	69 (22)
28 - 91	177.4 ± 3.4	67 (20)	173.7 ± 2.9	79 (24)	174.2 ± 2.6	64 (19)	171.8 ± 3.1	69 (22)	

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F1 Females: Prenatal Female

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
Gestation	0 - 3	16.1 ± 1.2	19	14.4 ± 0.8	18	18.5 ± 1.3	12	14.1 ± 0.8	16
	3 - 6	10.8 ± 0.8	19	11.3 ± 0.8	18	12.5 ± 0.8	12	10.8 ± 0.7	16
	6 - 9	12.2 ± 0.6	19	11.3 ± 0.6	18	12.5 ± 0.7	12	10.9 ± 0.7	16
	9 - 12	14.2 ± 0.6	19	13.4 ± 1.0	18	14.8 ± 1.0	12	11.5 ± 0.9	16
	12 - 15	21.5 ± 0.8	19	17.3 ± 1.4 *	18	21.6 ± 0.8	12	21.4 ± 1.1	16
	15 - 18	47.0 ± 1.7 *	19	39.0 ± 3.2 *	18	45.0 ± 1.7	12	39.9 ± 2.0	16
	18 - 21	46.1 ± 1.7	19	41.1 ± 3.0	18	46.0 ± 1.3	12	43.2 ± 2.1	16
	0 - 21	168.0 ± 3.5	19	147.8 ± 8.4 *	18	170.9 ± 3.0	12	151.9 ± 5.5	16

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F1 Females: Fertility 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
Gestation	0 - 3	18.3 ± 1.6	24 (16)	16.3 ± 1.0	33 (22)	16.5 ± 1.0	27 (19)	17.5 ± 0.7	26 (18)
	3 - 6	11.9 ± 1.0	24 (16)	11.2 ± 0.7	33 (22)	12.1 ± 0.8	27 (19)	10.8 ± 0.5	26 (18)
	6 - 9	12.5 ± 0.9	24 (16)	11.8 ± 0.8	33 (22)	11.5 ± 0.9	27 (19)	11.1 ± 0.9	26 (18)
	9 - 12	14.9 ± 1.0	24 (16)	14.1 ± 0.8	33 (22)	14.7 ± 0.9	27 (19)	14.8 ± 1.0	26 (18)
	12 - 15	19.7 ± 1.3	24 (16)	17.2 ± 0.9	33 (22)	20.2 ± 1.1	27 (19)	16.9 ± 1.0	26 (18)
	15 - 18	45.2 ± 1.9	24 (16)	42.3 ± 2.1	33 (22)	42.8 ± 2.6	27 (19)	41.3 ± 2.2	26 (18)
	18 - 21	48.1 ± 2.2	24 (16)	44.7 ± 1.8	33 (22)	47.6 ± 2.4	27 (19)	43.3 ± 2.1	26 (18)
	0 - 21	170.5 ± 6.2	24 (16)	157.6 ± 5.1	33 (22)	165.3 ± 6.5	27 (19)	155.7 ± 5.8	26 (18)
Lactation	1 - 4	10.6 ± 1.4	26 (18)	11.5 ± 1.6	33 (22)	5.8 ± 2.3	24 (18)	9.6 ± 1.6	25 (18)
	4 - 7	-0.8 ± 2.7	26 (18)	2.3 ± 1.9	32 (22)	2.8 ± 3.0	23 (18)	1.0 ± 1.9	25 (18)
	7 - 10	8.8 ± 2.8	26 (18)	5.0 ± 1.5	32 (22)	8.7 ± 2.8	21 (16)	5.8 ± 1.4	24 (18)
	10 - 13	3.5 ± 1.4	26 (18)	7.1 ± 1.1	32 (22)	4.4 ± 1.3	21 (16)	4.3 ± 1.7	23 (17)
	13 - 16	0.7 ± 1.6	26 (18)	-3.3 ± 1.4	32 (22)	-0.4 ± 1.2	21 (16)	0.9 ± 1.4	23 (17)
	1 - 16	22.9 ± 2.3	26 (18)	22.4 ± 2.7	32 (22)	21.6 ± 2.5	21 (16)	22.7 ± 2.9	23 (17)
	16 - 19	-8.9 ± 2.2	26 (18)	-7.5 ± 1.5	32 (22)	-3.0 ± 1.5	21 (16)	-5.9 ± 2.5	23 (17)
	19 - 21	0.5 ± 1.8	26 (18)	-2.6 ± 1.4	32 (22)	-3.5 ± 1.4	21 (16)	1.3 ± 2.4	23 (17)
	21 - 25	-8.5 ± 1.7	26 (18)	-10.0 ± 1.7	32 (22)	-10.1 ± 3.4	21 (16)	-7.7 ± 2.4	23 (17)
	25 - 28	-5.3 ± 2.3	26 (18)	0.4 ± 2.1	32 (22)	-2.7 ± 3.0	21 (16)	-2.4 ± 2.8	23 (17)
	16 - 28	-22.3 ± 2.9 *	26 (18)	-19.8 ± 1.7	32 (22)	-19.2 ± 2.3	21 (16)	-14.7 ± 2.2	23 (17)
	4 - 28	-10.0 ± 2.8 *	26 (18)	-8.7 ± 2.3	32 (22)	-4.0 ± 2.7	21 (16)	-1.8 ± 2.8	23 (17)
	1 - 28	0.6 ± 3.2	26 (18)	2.6 ± 3.0	32 (22)	2.3 ± 3.1	21 (16)	8.0 ± 3.2	23 (17)

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LEGEND

Weight data for F0 and F1 Prenatal Cohorts displayed as mean \pm SEM. N is the number of animals.

Weight data for F1 Fertility and combined cohorts displayed as mean of litter means \pm SEM of litter means. N is displayed as number of animals (number of litters).

SD – Study Day; GD – Gestation Day; LD – Lactation Day; PND – Postnatal Day, adults post-weaning

In multigenerational studies, body weights reported for all animals until mating; pregnant animals only during gestation and lactation; all animals post-weaning.

Statistical analysis performed by Jonckheere (trend) and Williams or Dunnett (pairwise) tests for the F0 females and F1 Prenatal females.

Statistical analysis performed using mixed models, with Dam ID as random effect for both trend and pairwise tests, and using Dunnett-Hsu adjustments for multiple comparisons for the All F1 males, All F1 females, and F1 Fertility females.

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 $P \leq 0.01$

All F1 Males includes all animals until PND 105 except those removed for Biosamples (PND 56). From PND 112-154 only the F1 Fertility Cohort is included. PND 161 represents the unsacrificed F1 Fertility Cohort. The F1 Subchronic Cohort was sacrificed on PND 110-112. The F1 Prenatal Cohort was sacrificed on PND 112-114.

All F1 Females include all animals until mating except those removed for Biosamples (PND 56) and on day of vaginal opening (pnd 34-44) for Mammary Gland Whole Mounts.

**** END OF REPORT ****