

Study Number: R88007B
Test Type: RACB
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

R19G: Pup Mean Body Weight Gain
Test Compound: Butyl Paraben
CAS Number: 94-26-8

Date Report Requested: 01/02/2019
Time Report Requested: 12:11:33
Lab: RTI

C Number: R88007B
Study Gender: Both
PWG Approval Date See web page for date of PWG Approval

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F1 Males

Treatment Groups (ppm)

Phase	Litter ID	Days	0		5000		15000		40000	
			WT Gain (g)	N (# of pups)	WT Gain (g)	N (# of pups)	WT Gain (g)	N (# of pups)	WT Gain (g)	N (# of pups)
PND	A	1 - 4	2.93 ± 0.25 **	17 (124)	3.05 ± 0.22	18 (109)	3.07 ± 0.11	19 (139)	2.22 ± 0.14 *	19 (95)
PND	B	1 - 4	3.21 ± 0.17 **	18 (111)	3.20 ± 0.15	16 (103)	3.12 ± 0.14	21 (128)	2.29 ± 0.16 **	19 (99)
PND	C	1 - 4 ^a	3.14 ± 0.23 **	19 (109)	3.30 ± 0.19	14 (84)	3.15 ± 0.18	19 (115)	2.28 ± 0.28 *	16 (83)
		4 - 7	4.53 ± 0.19 **	19 (98)	4.91 ± 0.22	14 (77)	4.31 ± 0.24	19 (105)	2.72 ± 0.38 **	16 (78)
		7 - 10	6.27 ± 0.15 **	19 (98)	6.22 ± 0.22	14 (76)	5.93 ± 0.16	19 (104)	3.15 ± 0.31 **	16 (74)
		10 - 13	6.96 ± 0.15 **	19 (98)	6.99 ± 0.14	14 (76)	6.67 ± 0.21	18 (102)	4.48 ± 0.28 **	16 (72)
		13 - 16	6.67 ± 0.20 **	19 (98)	6.91 ± 0.20	14 (75)	6.48 ± 0.11	18 (102)	4.66 ± 0.35 **	16 (72)
		16 - 19	7.59 ± 0.42 **	19 (98)	6.02 ± 0.24 **	14 (75)	5.78 ± 0.14 **	18 (102)	4.13 ± 0.34 **	16 (72)
		19 - 21	8.05 ± 0.25 **	19 (98)	6.87 ± 0.51	14 (75)	5.34 ± 0.28 **	18 (102)	3.26 ± 0.24 **	16 (71)
		4 - 21	40.05 ± 0.74 **	19 (98)	38.08 ± 0.79	14 (75)	34.54 ± 0.73 **	18 (102)	22.63 ± 1.26 **	16 (71)
PND	D	1 - 4	NR		NR		NR		2.68 ± 0.35	14 (63)

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Phase	Litter ID	Days	Treatment Groups (ppm)	
			40000 NF	
			WT Gain (g)	N (# of pups)
PND	A	1 - 4	NR	
PND	B	1 - 4	NR	
PND	C	1 - 4 ^a	NR	
		4 - 7	NR	
		7 - 10	NR	
		10 - 13	NR	
		13 - 16	NR	
		16 - 19	NR	
		19 - 21	NR	
		4 - 21	NR	
PND	D	1 - 4	3.23 ± 0.22	16 (108)

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F1 Females

Phase	Litter ID	Days	Treatment Groups (ppm)							
			0		5000		15000		40000	
			WT Gain (g)	N (# of pups)	WT Gain (g)	N (# of pups)	WT Gain (g)	N (# of pups)	WT Gain (g)	N (# of pups)
PND	A	1 - 4	2.98 ± 0.23 **	17 (102)	3.12 ± 0.24	18 (131)	2.96 ± 0.12	19 (90)	2.09 ± 0.15 **	19 (107)
PND	B	1 - 4	3.17 ± 0.22 **	19 (121)	3.19 ± 0.14	17 (107)	3.01 ± 0.16	21 (128)	2.09 ± 0.15 **	18 (103)
PND	C	1 - 4 ^a	3.19 ± 0.25 **	20 (96)	3.17 ± 0.21	14 (88)	2.82 ± 0.28	20 (103)	2.09 ± 0.27 **	16 (70)
		4 - 7	4.59 ± 0.20 **	20 (90)	4.78 ± 0.23	14 (79)	3.99 ± 0.37	20 (93)	2.85 ± 0.29 **	16 (63)
		7 - 10	6.30 ± 0.21 **	20 (89)	5.64 ± 0.28	14 (79)	5.48 ± 0.36 *	20 (92)	3.13 ± 0.36 **	16 (62)
		10 - 13	7.08 ± 0.17 **	20 (89)	6.92 ± 0.10	14 (78)	6.21 ± 0.39 *	19 (87)	4.26 ± 0.33 **	16 (62)
		13 - 16	6.27 ± 0.21 **	20 (89)	6.62 ± 0.18	14 (78)	6.09 ± 0.26	19 (87)	4.63 ± 0.27 **	16 (61)
		16 - 19	7.40 ± 0.37 **	20 (89)	5.79 ± 0.18 **	14 (78)	5.30 ± 0.14 **	19 (87)	4.04 ± 0.27 **	16 (61)
		19 - 21	7.51 ± 0.26 **	20 (89)	6.03 ± 0.44 **	14 (78)	4.73 ± 0.22 **	19 (87)	2.71 ± 0.22 **	16 (60)
		4 - 21	39.15 ± 0.66 **	20 (89)	35.88 ± 0.88 *	14 (78)	31.79 ± 1.45 **	19 (87)	22.18 ± 0.92 **	16 (60)
PND	D	1 - 4	NR		NR		NR		2.59 ± 0.29	14 (63)

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Phase	Litter ID	Days	Treatment Groups (ppm)	
			40000 NF	
			WT Gain (g)	N (# of pups)
PND	A	1 - 4	NR	
PND	B	1 - 4	NR	
PND	C	1 - 4 ^a	NR	
		4 - 7	NR	
		7 - 10	NR	
		10 - 13	NR	
		13 - 16	NR	
		16 - 19	NR	
		19 - 21	NR	
		4 - 21	NR	
PND	D	1 - 4	3.04 ± 0.25	17 (89)

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F1 Pups

Treatment Groups (ppm)

Phase	Litter ID	Days	0		5000		15000		40000	
			WT Gain (g)	N (# of pups)	WT Gain (g)	N (# of pups)	WT Gain (g)	N (# of pups)	WT Gain (g)	N (# of pups)
PND	A	1 - 4	2.96 ± 0.23 **	17 (226)	3.06 ± 0.23	18 (240)	3.02 ± 0.10	19 (229)	2.18 ± 0.15 *	19 (202)
PND	B	1 - 4	3.21 ± 0.19 **	19 (232)	3.24 ± 0.14	17 (210)	3.11 ± 0.14	21 (256)	2.22 ± 0.14 **	19 (202)
PND	C	1 - 4 ^a	3.30 ± 0.20 **	20 (205)	3.29 ± 0.19	14 (172)	2.93 ± 0.28	20 (218)	2.21 ± 0.26 **	17 (153)
		4 - 7	4.69 ± 0.17 **	20 (188)	4.91 ± 0.21	14 (156)	4.07 ± 0.36	20 (198)	2.68 ± 0.36 **	17 (141)
		7 - 10	6.37 ± 0.16 **	20 (187)	5.95 ± 0.23	14 (155)	5.59 ± 0.34	20 (196)	3.09 ± 0.30 **	17 (136)
		10 - 13	7.10 ± 0.14 **	20 (187)	7.00 ± 0.11	14 (154)	6.27 ± 0.40 *	19 (189)	4.28 ± 0.29 **	17 (134)
		13 - 16	6.55 ± 0.19 **	20 (187)	6.83 ± 0.19	14 (153)	6.23 ± 0.29	19 (189)	4.60 ± 0.32 **	17 (133)
		16 - 19	7.54 ± 0.37 **	20 (187)	5.96 ± 0.19 **	14 (153)	5.54 ± 0.15 **	19 (189)	4.16 ± 0.29 **	17 (133)
		19 - 21	7.74 ± 0.23 **	20 (187)	6.49 ± 0.43 **	14 (153)	5.09 ± 0.23 **	19 (189)	3.11 ± 0.23 **	17 (131)
		4 - 21	39.99 ± 0.61 **	20 (187)	37.29 ± 0.83	14 (153)	32.78 ± 1.47 **	19 (189)	22.29 ± 1.18 **	17 (131)
PND	D	1 - 4	NR		NR		NR		2.60 ± 0.29	15 (126)

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F1 Pups

Phase	Litter ID	Days	Treatment Groups (ppm)	
			40000 NF	
			WT Gain (g)	N (# of pups)
PND	A	1 - 4	NR	
PND	B	1 - 4	NR	
PND	C	1 - 4 ^a	NR	
		4 - 7	NR	
		7 - 10	NR	
		10 - 13	NR	
		13 - 16	NR	
		16 - 19	NR	
		19 - 21	NR	
		4 - 21	NR	
PND	D	1 - 4	3.12 ± 0.22	17 (197)

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F2 Males

Treatment Groups (ppm)

Phase	Litter ID	Days	Treatment Groups (ppm)							
			0		5000		15000		40000	
			WT Gain (g)	N (# of pups)	WT Gain (g)	N (# of pups)	WT Gain (g)	N (# of pups)	WT Gain (g)	N (# of pups)
PND	A	1 - 4	3.36 ± 0.14 **	25 (140)	2.88 ± 0.24	23 (149)	2.74 ± 0.17	28 (172)	2.31 ± 0.16 **	23 (115)
PND	B	1 - 4	3.31 ± 0.15 **	30 (159)	3.53 ± 0.19	26 (148)	3.20 ± 0.19	29 (171)	2.73 ± 0.16 *	25 (129)
PND	C	1 - 4 ^a	3.69 ± 0.23 **	27 (140)	4.00 ± 0.13	30 (152)	3.41 ± 0.26	30 (137)	2.89 ± 0.17 *	24 (107)
		4 - 7	5.32 ± 0.27 **	27 (125)	5.47 ± 0.18	30 (134)	4.89 ± 0.24	29 (131)	3.19 ± 0.23 **	24 (103)
		7 - 10	6.39 ± 0.28 **	27 (123)	7.08 ± 0.16	30 (134)	6.20 ± 0.19	29 (130)	4.30 ± 0.26 **	24 (101)
		10 - 13	6.68 ± 0.33 **	27 (121)	7.31 ± 0.16	30 (133)	6.63 ± 0.18	29 (130)	4.61 ± 0.30 **	24 (98)
		13 - 16	6.46 ± 0.38 **	27 (121)	6.82 ± 0.11	30 (133)	6.20 ± 0.25	29 (130)	4.48 ± 0.22 **	24 (98)
		16 - 19	8.36 ± 0.38 **	27 (121)	6.89 ± 0.16 **	30 (133)	5.77 ± 0.21 **	29 (130)	3.79 ± 0.32 **	24 (97)
		19 - 21	8.21 ± 0.38 **	27 (121)	7.13 ± 0.27 **	30 (133)	5.87 ± 0.22 **	29 (130)	2.79 ± 0.19 **	24 (95)
		4 - 21	41.55 ± 1.52 **	27 (121)	40.77 ± 0.53	30 (133)	35.59 ± 0.80 **	29 (130)	23.33 ± 0.91 **	24 (95)

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F2 Females

Phase	Litter ID	Days	Treatment Groups (ppm)							
			0		5000		15000		40000	
			WT Gain (g)	N (# of pups)	WT Gain (g)	N (# of pups)	WT Gain (g)	N (# of pups)	WT Gain (g)	N (# of pups)
PND	A	1 - 4	3.25 ± 0.16 **	25 (141)	2.88 ± 0.26	22 (140)	2.79 ± 0.16	29 (166)	2.22 ± 0.14 **	23 (129)
PND	B	1 - 4	3.18 ± 0.12 **	31 (195)	3.44 ± 0.18	25 (162)	3.10 ± 0.16	28 (150)	2.66 ± 0.15 *	25 (140)
PND	C	1 - 4 ^a	3.40 ± 0.19 **	25 (129)	3.55 ± 0.15	29 (157)	3.15 ± 0.18	29 (122)	2.33 ± 0.20 **	22 (91)
		4 - 7	5.21 ± 0.21 **	25 (119)	5.08 ± 0.17	29 (134)	4.55 ± 0.25	29 (115)	2.85 ± 0.20 **	22 (87)
		7 - 10	6.76 ± 0.19 **	25 (118)	6.50 ± 0.32	29 (133)	5.81 ± 0.24 **	29 (114)	3.90 ± 0.23 **	22 (85)
		10 - 13	6.93 ± 0.20 **	25 (117)	6.77 ± 0.35	29 (133)	6.37 ± 0.19	29 (114)	4.27 ± 0.28 **	22 (80)
		13 - 16	6.41 ± 0.14 **	25 (117)	5.90 ± 0.36	29 (133)	5.74 ± 0.23	29 (114)	4.18 ± 0.25 **	22 (80)
		16 - 19	8.06 ± 0.29 **	25 (117)	6.20 ± 0.20 **	28 (132)	5.54 ± 0.27 **	29 (114)	3.36 ± 0.34 **	22 (79)
		19 - 21	7.33 ± 0.33 **	25 (117)	6.50 ± 0.23	28 (132)	5.00 ± 0.23 **	29 (114)	2.47 ± 0.15 **	22 (79)
		4 - 21	40.82 ± 0.86 **	25 (116)	37.89 ± 0.76 *	28 (132)	33.04 ± 0.79 **	29 (114)	21.51 ± 0.79 **	22 (79)

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F2 Pups

Treatment Groups (ppm)

Phase	Litter ID	Days	Treatment Groups (ppm)							
			0		5000		15000		40000	
			WT Gain (g)	N (# of pups)	WT Gain (g)	N (# of pups)	WT Gain (g)	N (# of pups)	WT Gain (g)	N (# of pups)
PND	A	1 - 4	3.31 ± 0.14 **	25 (281)	2.87 ± 0.24	23 (289)	2.76 ± 0.16	29 (338)	2.29 ± 0.14 **	23 (244)
PND	B	1 - 4	3.25 ± 0.12 **	31 (354)	3.48 ± 0.18	26 (310)	3.19 ± 0.16	29 (321)	2.71 ± 0.15 *	25 (269)
PND	C	1 - 4 ^a	3.52 ± 0.21 **	27 (269)	3.82 ± 0.13	30 (309)	3.24 ± 0.26	30 (259)	2.63 ± 0.15 **	24 (198)
		4 - 7	5.23 ± 0.26 **	27 (244)	5.32 ± 0.16	30 (268)	4.77 ± 0.23	29 (246)	3.00 ± 0.17 **	24 (190)
		7 - 10	6.44 ± 0.26 **	27 (241)	6.95 ± 0.13	30 (267)	6.01 ± 0.21	29 (244)	4.09 ± 0.25 **	24 (186)
		10 - 13	6.63 ± 0.33 **	27 (238)	7.15 ± 0.17	30 (266)	6.51 ± 0.17	29 (244)	4.42 ± 0.28 **	24 (178)
		13 - 16	6.23 ± 0.35 **	27 (238)	6.49 ± 0.13	30 (266)	6.04 ± 0.22	29 (244)	4.38 ± 0.22 **	24 (178)
		16 - 19	8.04 ± 0.31 **	27 (238)	6.57 ± 0.17 **	30 (265)	5.73 ± 0.19 **	29 (244)	3.69 ± 0.31 **	24 (176)
		19 - 21	7.67 ± 0.37 **	27 (238)	6.87 ± 0.25 **	30 (265)	5.53 ± 0.21 **	29 (244)	2.70 ± 0.16 **	24 (174)
		4 - 21	40.37 ± 1.50 **	27 (237)	39.63 ± 0.64	30 (265)	34.65 ± 0.77 **	29 (244)	22.59 ± 0.79 **	24 (174)

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LEGEND

N(# of pups) = the number of litters examined (number of pups)

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.

* Statistically significant at $P \leq 0.05$

** Statistically significant at $P \leq 0.01$

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

D Litter is crossover mating of F0 40000 ppm Females with F0 control Males and F0 naive Females with F0 40000 ppm Males (dose listed as 40000 NF are the F0 naive Females)

In multiple breeding/littering studies Litter A is the default designation for the first litter; subsequent litters would be B, C etc.

Decrease in number of pups for PND 21 for the F2 pups in the 40000 ppm group is due to the pup body weight for two pups being outliers and were excluded.

NF = Naive Females

NR not recorded

**** END OF REPORT ****