

Study Number: R10997
Test Type: RACB
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

R19: Pup Mean Body Weight Summary
Test Compound: Diisobutyl Phthalate
CAS Number: 84-69-5

Date Report Requested: 01/22/2020
Time Report Requested: 10:07:27
Lab: RTI

C Number: R10997
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	0			1000			5000			10000		
		WT (g)	N		WT (g)	% of CNTL	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	A	7.18 ± 0.15	130 (20)	6.71 ± 0.13 *	93.45	136 (23)	6.94 ± 0.14	96.54	128 (21)	6.82 ± 0.14	94.95	110 (22)	
PND4	A	10.31 ± 0.21	130 (20)	9.56 ± 0.21 *	92.67	132 (23)	10.04 ± 0.20	97.36	128 (21)	9.80 ± 0.24	94.99	110 (22)	
PND1	B	7.08 ± 0.14 *	124 (21)	6.63 ± 0.12 *	93.59	132 (23)	6.96 ± 0.14	98.21	126 (20)	6.49 ± 0.11 **	91.66	149 (22)	
PND4	B	9.78 ± 0.26 *	124 (21)	9.23 ± 0.22	94.40	131 (23)	9.72 ± 0.25	99.37	125 (20)	8.95 ± 0.23 *	91.51	149 (22)	
PND1	C	7.06 ± 0.11 **	109 (21)	6.82 ± 0.11	96.62	91 (21)	7.22 ± 0.17	102.22	100 (19)	6.53 ± 0.10 **	92.50	112 (20)	
PND4	C	9.77 ± 0.28	107 (21)	9.81 ± 0.26	100.42	83 (20)	10.15 ± 0.29	103.84	100 (19)	9.15 ± 0.29	93.62	108 (20)	
PND7	C	14.03 ± 0.57	102 (21)	14.04 ± 0.55	100.05	77 (20)	14.45 ± 0.55	102.99	97 (19)	13.46 ± 0.53	95.90	91 (19)	
PND10	C	20.20 ± 0.76	102 (21)	19.73 ± 0.76	97.65	76 (20)	20.44 ± 0.66	101.18	94 (19)	18.61 ± 0.83	92.09	89 (19)	
PND13	C	27.04 ± 0.84 *	101 (21)	26.34 ± 0.84	97.41	75 (20)	26.93 ± 0.85	99.61	94 (19)	24.29 ± 1.01	89.86	88 (19)	
PND16	C	33.90 ± 0.77 **	101 (21)	32.64 ± 1.01	96.28	75 (20)	33.37 ± 0.86	98.42	94 (19)	29.75 ± 1.24 **	87.74	88 (19)	
PND19	C	41.36 ± 0.99 **	101 (21)	39.19 ± 1.27	94.75	75 (20)	39.20 ± 1.06	94.79	94 (19)	34.29 ± 1.42 **	82.92	88 (19)	
PND21	C	49.59 ± 1.16 **	101 (21)	47.01 ± 1.54	94.79	75 (20)	46.47 ± 1.40	93.71	94 (19)	38.63 ± 1.55 **	77.89	88 (19)	

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F1 Females

Treatment Groups (ppm)

Phase	Litter ID	0		1000			5000			10000		
		WT (g)	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	A	6.94 ± 0.11	127 (20)	6.46 ± 0.12 *	93.09	137 (23)	6.58 ± 0.14	94.77	130 (21)	6.49 ± 0.11 *	93.45	128 (22)
PND4	A	10.01 ± 0.17	127 (20)	9.18 ± 0.23 *	91.71	135 (23)	9.47 ± 0.20	94.60	130 (21)	9.31 ± 0.19 *	92.93	126 (22)
PND1	B	6.80 ± 0.14 **	124 (21)	6.46 ± 0.11	95.07	155 (23)	6.51 ± 0.17	95.72	138 (21)	6.19 ± 0.13 **	91.00	122 (22)
PND4	B	9.58 ± 0.25 *	123 (21)	9.19 ± 0.22	95.88	149 (23)	8.97 ± 0.34	93.68	137 (21)	8.77 ± 0.23 *	91.58	119 (22)
PND1	C	6.53 ± 0.14	81 (21)	6.53 ± 0.18	99.95	107 (21)	6.88 ± 0.14	105.25	97 (20)	6.28 ± 0.09	96.09	96 (19)
PND4	C	8.97 ± 0.32	77 (21)	9.28 ± 0.33	103.45	101 (19)	9.58 ± 0.25	106.85	96 (20)	8.57 ± 0.26	95.61	95 (19)
PND7	C	13.19 ± 0.45	71 (20)	13.15 ± 0.60	99.70	90 (19)	13.85 ± 0.39	105.05	91 (20)	12.51 ± 0.40	94.90	75 (18)
PND10	C	19.14 ± 0.61	69 (20)	18.80 ± 0.68	98.21	83 (19)	19.44 ± 0.54	101.52	91 (20)	17.85 ± 0.50	93.24	74 (18)
PND13	C	25.80 ± 0.70 *	69 (20)	25.20 ± 0.84	97.68	81 (19)	25.72 ± 0.64	99.70	89 (20)	23.53 ± 0.60 *	91.20	74 (18)
PND16	C	32.28 ± 0.76 **	69 (20)	31.27 ± 0.95	96.87	81 (19)	31.92 ± 0.68	98.88	89 (20)	29.14 ± 0.71 **	90.25	74 (18)
PND19	C	39.05 ± 0.91 **	69 (20)	37.67 ± 1.19	96.47	81 (19)	37.49 ± 0.80	96.02	89 (20)	33.81 ± 0.88 **	86.58	74 (18)
PND21	C	46.57 ± 1.01 **	69 (20)	44.39 ± 1.35	95.32	81 (19)	43.93 ± 1.01	94.34	89 (20)	37.88 ± 1.02 **	81.34	74 (18)

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F1 Pups

Treatment Groups (ppm)

Phase	Litter ID	0		1000			5000			10000		
		WT (g)	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	A	7.06 ± 0.12	257 (20)	6.58 ± 0.12 *	93.29	273 (23)	6.75 ± 0.13	95.74	258 (21)	6.63 ± 0.11 *	93.93	238 (22)
PND4	A	10.16 ± 0.17	257 (20)	9.37 ± 0.21 *	92.17	267 (23)	9.76 ± 0.19	96.01	258 (21)	9.49 ± 0.19 *	93.42	236 (22)
PND1	B	6.92 ± 0.14 *	248 (21)	6.55 ± 0.11	94.66	287 (23)	6.64 ± 0.18	95.99	264 (21)	6.36 ± 0.12 **	91.98	271 (22)
PND4	B	9.66 ± 0.24 *	247 (21)	9.22 ± 0.22	95.44	280 (23)	9.16 ± 0.36	94.85	262 (21)	8.89 ± 0.23	91.97	268 (22)
PND1	C	6.86 ± 0.12 *	190 (21)	6.69 ± 0.13	97.53	198 (22)	7.03 ± 0.14	102.55	197 (20)	6.43 ± 0.08 *	93.79	208 (20)
PND4	C	9.49 ± 0.27	184 (21)	9.49 ± 0.28	99.92	184 (21)	9.85 ± 0.25	103.79	196 (20)	8.88 ± 0.27	93.57	203 (20)
PND7	C	13.73 ± 0.46	173 (21)	13.52 ± 0.53	98.43	167 (21)	14.21 ± 0.44	103.49	188 (20)	13.00 ± 0.46	94.70	166 (19)
PND10	C	19.80 ± 0.62	171 (21)	19.03 ± 0.67	96.08	159 (21)	20.02 ± 0.57	101.08	185 (20)	18.15 ± 0.70	91.65	163 (19)
PND13	C	26.60 ± 0.70 *	170 (21)	25.50 ± 0.80	95.87	156 (21)	26.40 ± 0.69	99.24	183 (20)	23.78 ± 0.84 *	89.40	162 (19)
PND16	C	33.32 ± 0.66 **	170 (21)	31.51 ± 0.95	94.58	156 (21)	32.72 ± 0.70	98.20	183 (20)	29.28 ± 1.04 **	87.89	162 (19)
PND19	C	40.52 ± 0.83 **	170 (21)	37.82 ± 1.22	93.36	156 (21)	38.46 ± 0.84	94.93	183 (20)	33.82 ± 1.30 **	83.48	162 (19)
PND21	C	48.42 ± 0.97 **	170 (21)	45.02 ± 1.38	92.98	156 (21)	45.30 ± 1.09	93.56	183 (20)	37.97 ± 1.45 **	78.43	162 (19)

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F2 Males

Treatment Groups (ppm)

Phase	Litter ID	0			1000			5000			10000		
		WT (g)	N		WT (g)	% of CNTL	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	A	7.07 ± 0.14	200 (32)		7.06 ± 0.12	99.83	177 (30)	7.29 ± 0.14	103.10	168 (32)	6.85 ± 0.09	96.92	137 (27)
PND4	A	9.94 ± 0.21	198 (32)		10.11 ± 0.24	101.77	170 (30)	10.25 ± 0.24	103.19	165 (32)	9.95 ± 0.16	100.17	137 (27)
PND1	B	7.07 ± 0.10	222 (34)		7.09 ± 0.12	100.35	178 (30)	7.15 ± 0.10	101.19	177 (31)	6.98 ± 0.09	98.79	171 (33)
PND4	B	10.11 ± 0.22	219 (34)		10.34 ± 0.26	102.19	174 (30)	10.06 ± 0.18	99.46	176 (31)	10.01 ± 0.19	98.94	169 (33)
PND1	C	7.03 ± 0.09	212 (31)		7.00 ± 0.12	99.71	193 (35)	7.06 ± 0.11	100.43	178 (28)	6.87 ± 0.10	97.77	147 (33)
PND4	C	9.70 ± 0.23	211 (31)		9.96 ± 0.23	102.68	191 (35)	9.93 ± 0.20	102.40	166 (27)	9.58 ± 0.19	98.82	147 (33)
PND7	C	14.46 ± 0.40 *	169 (31)		14.94 ± 0.38	103.27	170 (35)	14.62 ± 0.39	101.06	142 (27)	13.78 ± 0.40	95.27	135 (33)
PND10	C	20.79 ± 0.58 **	165 (31)		21.14 ± 0.59	101.65	165 (35)	20.75 ± 0.49	99.78	137 (27)	18.91 ± 0.71 *	90.96	129 (33)
PND13	C	27.44 ± 0.67 **	161 (31)		27.69 ± 0.70	100.92	161 (35)	27.31 ± 0.45	99.54	135 (27)	25.43 ± 0.63 *	92.70	122 (33)
PND16	C	34.15 ± 0.65 **	160 (31)		33.69 ± 0.76	98.67	161 (35)	33.38 ± 0.46	97.76	135 (27)	31.46 ± 0.74 **	92.12	122 (33)
PND19	C	40.83 ± 0.84 **	160 (31)		40.69 ± 0.95	99.65	161 (35)	39.28 ± 0.60	96.20	135 (27)	36.64 ± 0.85 **	89.73	122 (33)
PND21	C	48.82 ± 0.96 **	160 (31)		48.95 ± 1.04	100.26	161 (35)	46.92 ± 0.79	96.09	135 (27)	42.12 ± 1.03 **	86.26	122 (33)

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F2 Females

Treatment Groups (ppm)

Phase	Litter ID	0			1000			5000			10000		
		WT (g)	N		WT (g)	% of CNTL	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	A	6.74 ± 0.12	200 (32)		6.77 ± 0.13	100.34	185 (31)	6.91 ± 0.13	102.50	211 (31)	6.48 ± 0.11	96.01	145 (29)
PND4	A	9.54 ± 0.19	197 (32)		9.89 ± 0.22	103.65	179 (30)	9.76 ± 0.24	102.31	204 (31)	9.30 ± 0.16	97.52	144 (29)
PND1	B	6.73 ± 0.11	218 (34)		6.77 ± 0.14	100.55	205 (30)	6.75 ± 0.10	100.35	196 (31)	6.64 ± 0.11	98.62	174 (33)
PND4	B	9.61 ± 0.23	217 (34)		9.87 ± 0.27	102.76	201 (30)	9.31 ± 0.20	96.95	195 (31)	9.48 ± 0.23	98.65	171 (33)
PND1	C	6.67 ± 0.12	192 (32)		6.74 ± 0.11	101.02	215 (36)	6.80 ± 0.11	102.00	177 (28)	6.55 ± 0.09	98.20	178 (33)
PND4	C	9.05 ± 0.31	186 (32)		9.43 ± 0.21	104.29	211 (36)	9.52 ± 0.21	105.27	165 (27)	9.01 ± 0.17	99.60	177 (33)
PND7	C	13.30 ± 0.50	153 (32)		14.09 ± 0.35	105.91	186 (36)	14.01 ± 0.39	105.33	144 (27)	12.99 ± 0.38	97.65	164 (33)
PND10	C	19.44 ± 0.65 *	148 (32)		20.19 ± 0.49	103.87	178 (36)	19.95 ± 0.59	102.63	140 (27)	18.32 ± 0.66	94.22	159 (33)
PND13	C	25.96 ± 0.82 **	147 (32)		26.40 ± 0.56	101.73	178 (36)	26.78 ± 0.45	103.18	137 (26)	24.05 ± 0.75 *	92.66	155 (33)
PND16	C	32.09 ± 1.04 **	145 (32)		32.27 ± 0.63	100.56	178 (36)	32.46 ± 0.54	101.14	137 (26)	29.60 ± 0.95 *	92.25	155 (33)
PND19	C	38.37 ± 1.37 **	146 (32)		38.85 ± 0.83	101.25	176 (36)	38.19 ± 0.68	99.52	137 (26)	34.79 ± 1.05 **	90.66	155 (33)
PND21	C	45.08 ± 1.57 **	146 (32)		46.39 ± 0.87	102.91	178 (36)	45.35 ± 0.79	100.61	137 (26)	39.37 ± 1.29 **	87.34	155 (33)

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F2 Pups

Treatment Groups (ppm)

Phase	Litter ID	0		1000			5000			10000		
		WT (g)	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	A	6.90 ± 0.13	400 (32)	6.88 ± 0.13	99.78	362 (31)	7.07 ± 0.13	102.56	379 (32)	6.61 ± 0.11	95.79	282 (29)
PND4	A	9.72 ± 0.19	395 (32)	10.01 ± 0.22	102.93	349 (30)	9.95 ± 0.23	102.34	369 (32)	9.56 ± 0.17	98.28	281 (29)
PND1	B	6.89 ± 0.10	440 (34)	6.94 ± 0.12	100.74	383 (31)	6.93 ± 0.10	100.64	373 (31)	6.80 ± 0.09	98.70	345 (33)
PND4	B	9.84 ± 0.22	436 (34)	10.10 ± 0.25	102.62	375 (31)	9.66 ± 0.18	98.15	371 (31)	9.72 ± 0.21	98.74	340 (33)
PND1	C	6.81 ± 0.11	404 (32)	6.85 ± 0.10	100.51	408 (36)	6.95 ± 0.10	101.92	355 (29)	6.70 ± 0.09	98.34	325 (34)
PND4	C	9.25 ± 0.31	397 (32)	9.64 ± 0.21	104.18	402 (36)	9.72 ± 0.21	105.06	331 (28)	9.24 ± 0.18	99.87	324 (34)
PND7	C	13.74 ± 0.50	322 (32)	14.41 ± 0.36	104.86	356 (36)	14.28 ± 0.39	103.96	286 (28)	13.15 ± 0.39	95.69	299 (34)
PND10	C	19.92 ± 0.67 **	313 (32)	20.50 ± 0.54	102.90	343 (36)	20.31 ± 0.45	101.92	277 (28)	18.30 ± 0.67	91.85	288 (34)
PND13	C	26.43 ± 0.83 **	308 (32)	26.90 ± 0.62	101.78	339 (36)	26.91 ± 0.43	101.82	272 (28)	24.29 ± 0.73 *	91.93	277 (34)
PND16	C	32.71 ± 1.05 **	305 (32)	32.79 ± 0.69	100.24	339 (36)	32.75 ± 0.47	100.12	272 (28)	29.95 ± 0.94 **	91.57	277 (34)
PND19	C	39.08 ± 1.37 **	306 (32)	39.60 ± 0.86	101.33	337 (36)	38.59 ± 0.60	98.77	272 (28)	35.08 ± 1.06 **	89.78	277 (34)
PND21	C	46.33 ± 1.61 **	306 (32)	47.42 ± 0.94	102.35	339 (36)	46.00 ± 0.73	99.29	272 (28)	40.04 ± 1.28 **	86.42	277 (34)

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LEGEND

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

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

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 F2 C litter for one female pup in the 0 ppm group on PND 16 and for two female pups from the same litter in the 1000 ppm group on PND 19.

**** END OF REPORT ****