

Study Number: R10997

Test Type: RACB

Route: Dosing in Feed

Species/Strain: Rat/Sprague-Dawley

C Number:

Study Gender:

PWG Approval Date

R22: Cross Generational Summary of Litters

Test Compound: Diisobutyl Phthalate

CAS Number: 84-69-5

R10997

Both

See web page for date of PWG Approval

Date Report Requested: 12/05/2018

Time Report Requested: 09:43:43

Lab: RTI

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	Litter ID	F0				F1			
		Treatment Groups (ppm)				Treatment Groups (ppm)			
		0	1000	5000	10000	0	1000	5000	10000
Mating Pairs ^a		23	23	21	22	38	40	35	40
Number of Litters/Pair ^{b,c}		2.7 ± 0.1	3.0 ± 0.0	3.0 ± 0.0	2.8 ± 0.1	2.5 ± 0.1	2.4 ± 0.1 *	2.6 ± 0.1	2.4 ± 0.2
Number of Pairs without a Litter ^d		0	0	0	0	2	0	3	5
Live Pups/Pair ^{e,f}		30.7 ± 2.0	33.7 ± 1.4	34.4 ± 1.7	32.1 ± 2.1	33.7 ± 1.9	28.6 ± 2.1	34.5 ± 1.4	28.1 ± 1.3
Average Live Litter Size/Pair ^{f,g}	A	12.6 ± 0.5	12.2 ± 0.7	12.6 ± 0.7	11.0 ± 0.7	13.0 ± 0.6	11.7 ± 0.7	12.1 ± 0.6	10.0 ± 0.8
Average Live Litter Size/Pair ^{f,g}	B	11.9 ± 0.7	12.7 ± 0.5	12.8 ± 0.7	12.6 ± 0.8	12.8 ± 0.8	12.5 ± 0.7	12.3 ± 0.6	11.0 ± 0.6
Average Live Litter Size/Pair ^{f,g}	C	9.1 ± 0.7	9.2 ± 0.9	10.0 ± 0.7	10.0 ± 1.0	12.7 ± 0.6 **	10.8 ± 0.8	12.5 ± 0.7 **	10.2 ± 0.7
Average Live Litter Size/Pair - All Litters ^{f,g,h}		11.1 ± 0.5	11.4 ± 0.4	11.6 ± 0.5	11.3 ± 0.6	12.4 ± 0.5 *	11.5 ± 0.5	12.3 ± 0.4	10.3 ± 0.5
Average Live Litter Size/Pair ^{f,i} (Excluding non-viable litters)	A	12.6 ± 0.5	12.2 ± 0.7	12.6 ± 0.7	11.0 ± 0.7	13.0 ± 0.6	11.7 ± 0.7	12.1 ± 0.6	10.0 ± 0.8
Average Live Litter Size/Pair ^{f,i} (Excluding non-viable litters)	B	11.9 ± 0.7	12.7 ± 0.5	12.8 ± 0.7	12.6 ± 0.8	13.5 ± 0.5	12.5 ± 0.7	12.3 ± 0.6	11.0 ± 0.6
Average Live Litter Size/Pair ^{f,i} (Excluding non-viable litters)	C	9.1 ± 0.7	9.2 ± 0.9	10.0 ± 0.7	10.6 ± 0.9	13.1 ± 0.6 **	11.1 ± 0.8	12.8 ± 0.6 **	10.2 ± 0.7
Average Live Litter Size/Pair - All Litters ^{f,h,i} (Excluding non-viable litters)		11.1 ± 0.5	11.4 ± 0.4	11.6 ± 0.5	11.4 ± 0.6	13.0 ± 0.4 **	11.6 ± 0.5	12.4 ± 0.4	10.3 ± 0.5

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LEGEND

Data are displayed as mean \pm SEM

Comparisons are between generations for each dose group. Only mated pairs included in the analysis.

Dams that died before littering were not removed from the "Average live litter size/pair" endpoints that were specific to litter A,B, or C. For example, if an animal died before littering on C the animal was still included for litters A and B.

^aPairs that were bred three times to produce Litters A, B, and C

^bPair may have 0,1,2 or 3 litters. Pairs not littering or that have no live pups are counted as having 0 litters. Animals that died prior to litter A,B or C not included.

^cGeneralized linear mixed model using multinomial distribution and maternal dam (F1 generation) as random effect and with Hommel p-value adjustment.

^dMating pairs that did not produce a single live litter over the course of three breedings

^eTotal number of live pups per pair over the three breedings. Animals that died prior to littering A, B or C not included.

^fNon-trend multiple comparisons used Datta-Satten modified Wilcoxon test with a Hommel p-value adjustment.

^gPairs with live litter size of 0 included.

^hLive litter size averaged over each mating pair used in the analysis. Animals that died prior to littering A, B or C not included.

ⁱPairs with live litter size of 0 excluded.

* Statistically significant at $P \leq 0.05$

** Statistically significant at $P \leq 0.01$

**** END OF REPORT ****