

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

**R22: Cross Generational Summary of Litters**

**Test Compound:** Butyl Paraben  
**CAS Number:** 94-26-8

**Date Report Requested:** 12/06/2018  
**Time Report Requested:** 15:15:15  
**Lab:** RTI

**C Number:**

R88007B

**Study Gender:**

Both

**PWG Approval Date**

See web page for date of PWG Approval

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	Litter ID	F0				F1			
		Treatment Groups (ppm)				Treatment Groups (ppm)			
		0	5000	15000	40000	0	5000	15000	40000
Mating Pairs <sup>a</sup>		22	19	22	22	38	35	37	26
Number of Litters/Pair <sup>b,c</sup>		2.6 ± 0.1	2.4 ± 0.2	2.7 ± 0.1	2.5 ± 0.1	2.2 ± 0.2	2.4 ± 0.1	2.4 ± 0.2	2.8 ± 0.1
Number of Pairs without a Litter <sup>d</sup>		0	1	1	0	4	2	3	1
Live Pups/Pair <sup>e,f</sup>		30.6 ± 2.2	33.1 ± 1.9	34.0 ± 1.4	26.1 ± 1.8	28.0 ± 2.2	27.4 ± 2.0	28.8 ± 2.0 *	28.8 ± 1.5
Average Live Litter Size/Pair <sup>f,g</sup>	A	12.1 ± 1.0	13.5 ± 0.8	12.3 ± 0.7	10.9 ± 0.7	11.9 ± 0.8	12.3 ± 0.8	12.2 ± 0.6	10.9 ± 0.6
Average Live Litter Size/Pair <sup>f,g</sup>	B	11.8 ± 1.0	12.8 ± 0.9	12.5 ± 0.6	11.1 ± 0.7	11.1 ± 0.9	10.7 ± 1.1	11.4 ± 1.0	11.1 ± 0.7
Average Live Litter Size/Pair <sup>f,g</sup>	C	10.4 ± 0.9	12.6 ± 0.6	11.0 ± 0.8	9.2 ± 1.0	10.4 ± 0.9	10.4 ± 0.9	9.2 ± 0.9	8.1 ± 0.8
Average Live Litter Size/Pair - All Litters <sup>f,g,h</sup>		11.3 ± 0.7	12.9 ± 0.3	11.9 ± 0.4	10.6 ± 0.6	10.9 ± 0.6	10.7 ± 0.4 **	10.8 ± 0.6	10.1 ± 0.4
Average Live Litter Size/Pair <sup>f,i</sup> (Excluding non-viable litters)	A	12.8 ± 0.8	13.5 ± 0.8	12.3 ± 0.7	10.9 ± 0.7	11.9 ± 0.8	12.3 ± 0.8	12.2 ± 0.6	10.9 ± 0.6
Average Live Litter Size/Pair <sup>f,i</sup> (Excluding non-viable litters)	B	12.4 ± 0.9	12.8 ± 0.9	12.5 ± 0.6	11.1 ± 0.7	11.4 ± 0.9	11.5 ± 0.8	11.4 ± 1.0	11.1 ± 0.7
Average Live Litter Size/Pair <sup>f,i</sup> (Excluding non-viable litters)	C	10.4 ± 0.9	12.6 ± 0.6	11.0 ± 0.8	9.2 ± 1.0	10.4 ± 0.9	10.4 ± 0.9	9.2 ± 0.9	8.1 ± 0.8
Average Live Litter Size/Pair - All Litters <sup>f,h,i</sup> (Excluding non-viable litters)		11.8 ± 0.6	12.9 ± 0.3	11.9 ± 0.4	10.6 ± 0.6	10.9 ± 0.6	11.0 ± 0.5 **	10.8 ± 0.6	10.1 ± 0.4

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## LEGEND

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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.

<sup>a</sup>Pairs that were bred three times to produce Litters A, B, and C

<sup>b</sup>Pair 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.

<sup>c</sup>Number of litters/pair analyzed using cumulative logit model, with maternal dam as random effect and with Hommel p-value adjustment. No maternal dam information was available for the F0 dams, so the random effect only applied to the F1 dams.

<sup>d</sup>Mating pairs that did not produce a single live litter over the course of three breedings

<sup>e</sup>Total number of live pups per pair over the three breedings. Animals that died prior to littering A, B or C not included.

<sup>f</sup>Non-trend multiple comparisons used Datta-Satten modified Wilcoxon test with a Hommel p-value adjustment.

<sup>g</sup>Pairs with live litter size of 0 included.

<sup>h</sup>Live litter size averaged over each mating pair used in the analysis. Animals that died prior to littering A, B or C not included.

<sup>i</sup>Pairs with live litter size of 0 excluded.

\* Statistically significant at  $P \leq 0.05$

\*\* Statistically significant at  $P \leq 0.01$

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