

**Study Number:** C15011B-01  
**Test Type:** TOX  
**Route:** Whole-Body Inhalation  
**Species/Strain:** Rat/Harlan Sprague Dawley

**R19G: Pup Mean Body Weight Gain**  
**Test Compound:** 2-Ethyltoluene  
**CAS Number:** 611-14-3

**Date Report Requested:** 03/29/2021  
**Time Report Requested:** 14:36:51  
**Lab:** Battelle

**Study Number:** C15011B-01  
**Study Gender:** Both  
**PWG Approval Date:** See web page for date of PWG Approval  
**Version:** v1.1.9

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F1 Males

Phase	Days	Treatment Groups (ppm)							
		0		150		300		600	
		WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N
PND	1 - 4	3.87 ± 0.13 **	75 (12)	3.65 ± 0.11	60 (12)	3.59 ± 0.13	58 (11)	3.50 ± 0.12	58 (11)
	4 - 7	6.19 ± 0.15 **	48 (12)	5.98 ± 0.23	42 (12)	5.72 ± 0.20	44 (11)	5.67 ± 0.26	42 (11)
	7 - 10	7.68 ± 0.21 **	48 (12)	7.17 ± 0.19	42 (12)	7.28 ± 0.20	44 (11)	7.10 ± 0.23	42 (11)
	10 - 13	7.83 ± 0.24 **	48 (12)	7.52 ± 0.19	42 (12)	7.29 ± 0.14	44 (11)	7.37 ± 0.25	42 (11)
	13 - 16	7.81 ± 0.17	48 (12)	7.78 ± 0.22	42 (12)	7.86 ± 0.29	44 (11)	7.68 ± 0.21	42 (11)
	16 - 19	8.55 ± 0.37	48 (12)	9.39 ± 0.39	42 (12)	9.96 ± 0.41 *	44 (11)	10.04 ± 0.24 *	42 (11)
	19 - 21	9.28 ± 0.26	47 (12)	8.31 ± 0.37	42 (12)	9.18 ± 0.35	44 (11)	8.94 ± 0.27	42 (11)
	4 - 21	47.37 ± 0.94 **	47 (12)	46.16 ± 0.69	42 (12)	47.29 ± 0.80	44 (11)	46.80 ± 0.76	42 (11)

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**F1 Males**

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Phase	Days	Treatment Groups (ppm)	
		900	
		WT Gain (g)	N
PND	1 - 4	1.96 ± 0.74 **	17 (5)
	4 - 7	4.77 ± 0.58 **	13 (5)
	7 - 10	5.96 ± 0.56 **	13 (5)
	10 - 13	5.80 ± 0.57 **	13 (5)
	13 - 16	7.00 ± 0.42	13 (5)
	16 - 19	7.84 ± 1.08	13 (5)
	19 - 21	8.09 ± 1.07	13 (5)
	4 - 21	39.46 ± 3.97 **	13 (5)

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F1 Females

Phase	Days	Treatment Groups (ppm)							
		0		150		300		600	
		WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N
PND	1 - 4	3.64 ± 0.09 **	79 (12)	3.52 ± 0.12	88 (12)	3.51 ± 0.13	61 (11)	3.56 ± 0.14	64 (11)
	4 - 7	5.97 ± 0.16 **	48 (12)	5.89 ± 0.26	54 (12)	5.56 ± 0.18	44 (11)	5.51 ± 0.21	42 (11)
	7 - 10	7.32 ± 0.20 **	48 (12)	7.03 ± 0.22	54 (12)	7.19 ± 0.19	43 (11)	6.58 ± 0.22	42 (11)
	10 - 13	7.70 ± 0.25 **	48 (12)	7.34 ± 0.19	54 (12)	6.98 ± 0.18	43 (11)	7.10 ± 0.21	42 (11)
	13 - 16	7.42 ± 0.22	48 (12)	7.16 ± 0.25	54 (12)	7.55 ± 0.21	43 (11)	7.43 ± 0.25	42 (11)
	16 - 19	8.15 ± 0.37	48 (12)	9.07 ± 0.42	54 (12)	9.16 ± 0.41	43 (11)	9.63 ± 0.32 *	42 (11)
	19 - 21	8.20 ± 0.26	48 (12)	7.79 ± 0.20	54 (12)	8.18 ± 0.18	43 (11)	7.91 ± 0.26	42 (11)
	4 - 21	44.77 ± 0.87 **	48 (12)	44.29 ± 0.77	54 (12)	44.61 ± 0.77	43 (11)	44.16 ± 0.81	42 (11)

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**F1 Females**

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Phase	Days	Treatment Groups (ppm)	
		900	
		WT Gain (g)	N
PND	1 - 4	2.37 ± 0.35 **	32 (6)
	4 - 7	4.85 ± 0.41 *	24 (6)
	7 - 10	5.82 ± 0.29 **	24 (6)
	10 - 13	6.03 ± 0.33 **	24 (6)
	13 - 16	6.50 ± 0.23	24 (6)
	16 - 19	7.84 ± 0.75	24 (6)
	19 - 21	7.62 ± 0.35	24 (6)
	4 - 21	38.66 ± 1.84 **	24 (6)

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F1 Pups

Phase	Days	Treatment Groups (ppm)							
		0		150		300		600	
		WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N
PND	1 - 4	3.73 ± 0.09 **	154 (12)	3.57 ± 0.11	148 (12)	3.53 ± 0.12	119 (11)	3.53 ± 0.13	122 (11)
	4 - 7	6.08 ± 0.13 **	96 (12)	5.92 ± 0.23	96 (12)	5.63 ± 0.19	88 (11)	5.54 ± 0.20	84 (11)
	7 - 10	7.49 ± 0.20 **	96 (12)	7.12 ± 0.20	96 (12)	7.22 ± 0.19	87 (11)	6.83 ± 0.20	84 (11)
	10 - 13	7.77 ± 0.24 **	96 (12)	7.43 ± 0.17	96 (12)	7.14 ± 0.14	87 (11)	7.19 ± 0.19	84 (11)
	13 - 16	7.61 ± 0.18	96 (12)	7.44 ± 0.23	96 (12)	7.69 ± 0.23	87 (11)	7.57 ± 0.21	84 (11)
	16 - 19	8.35 ± 0.35	96 (12)	9.19 ± 0.39	96 (12)	9.46 ± 0.36	87 (11)	9.83 ± 0.25 *	84 (11)
	19 - 21	8.72 ± 0.24	95 (12)	8.10 ± 0.19	96 (12)	8.70 ± 0.28	87 (11)	8.37 ± 0.21	84 (11)
	4 - 21	46.02 ± 0.87 **	95 (12)	45.19 ± 0.65	96 (12)	45.84 ± 0.69	87 (11)	45.34 ± 0.62	84 (11)

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Phase	Days	Treatment Groups (ppm)	
		900	
		WT Gain (g)	N
PND	1 - 4	2.32 ± 0.41 **	49 (6)
	4 - 7	4.95 ± 0.45 *	37 (6)
	7 - 10	6.00 ± 0.32 **	37 (6)
	10 - 13	6.08 ± 0.36 **	37 (6)
	13 - 16	6.79 ± 0.23	37 (6)
	16 - 19	8.03 ± 0.79	37 (6)
	19 - 21	8.05 ± 0.46	37 (6)
	4 - 21	39.90 ± 2.22 **	37 (6)

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#### LEGEND

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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

Pup weights are adjusted for covariate litter size for all postnatal days. Total live on PND 1 for day 1 to cull day, and number of live pups after culling for later weight days.

Unadjusted pup weights may also be reported for select postnatal days.

Statistical analysis was performed using mixed effects models with litter as a random effect, and a Dunnett-Hsu adjustment for multiple pairwise 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  $P \leq 0.01$

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