

Study Number: C11054B-01
Test Type: TOX
Route: Dosing in Water
Species/Strain: Rat/Harlan Sprague Dawley

R19G: Pup Mean Body Weight Gain (Interim and Chronic Animals)
Test Compound: Sulfolane
CAS Number: 126-33-0

Date Report Requested: 07/21/2021
Time Report Requested: 12:47:25
Lab: Battelle with CRL

Study Number: C11054B-01
Study Sex: Both
PWG Approval Date: See web page for date of PWG Approval
Version: v1.2.7
Stat Version: S

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F1 Males

Phase	Days	Treatment Groups (mg/L)							
		0		30		100		300	
		WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N
PND	1 - 4	3.42 ± 0.10	214 (38)	3.35 ± 0.08	206 (31)	3.10 ± 0.20	197 (32)	3.45 ± 0.07	219 (34)
	4 - 7	5.99 ± 0.13 *	142 (38)	5.70 ± 0.16	126 (31)	5.59 ± 0.27	121 (32)	5.62 ± 0.12	139 (34)
	7 - 10	7.37 ± 0.12 **	142 (38)	7.04 ± 0.14	126 (31)	6.88 ± 0.12	121 (31)	7.01 ± 0.15	139 (34)
	10 - 14	9.58 ± 0.19	142 (38)	9.55 ± 0.22	125 (31)	9.67 ± 0.18	121 (31)	9.68 ± 0.18	139 (34)
	14 - 17	6.89 ± 0.17	142 (38)	6.28 ± 0.18 *	125 (31)	6.55 ± 0.16	121 (31)	7.03 ± 0.16	139 (34)
	17 - 21	14.83 ± 0.29 *	142 (38)	14.48 ± 0.27	125 (31)	13.88 ± 0.42	121 (31)	14.58 ± 0.30	139 (34)
	21 - 24	13.47 ± 0.24 *	142 (38)	13.24 ± 0.25	125 (31)	13.59 ± 0.24	121 (31)	13.74 ± 0.29	139 (34)
	24 - 28	19.13 ± 0.49 **	142 (38)	19.90 ± 0.56	125 (31)	19.64 ± 0.60	121 (31)	18.82 ± 0.53	139 (34)
	4 - 28	77.19 ± 0.86 **	142 (38)	76.23 ± 1.15	125 (31)	76.10 ± 1.13	120 (31)	76.49 ± 1.03	139 (34)

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F1 Males

Phase	Days	Treatment Groups (mg/L)	
		1000	
		WT Gain (g)	N
PND	1 - 4	3.10 ± 0.08	219 (34)
	4 - 7	5.41 ± 0.13 *	135 (34)
	7 - 10	6.35 ± 0.13 **	135 (34)
	10 - 14	9.47 ± 0.18	135 (34)
	14 - 17	6.84 ± 0.17	135 (34)
	17 - 21	13.82 ± 0.24 *	135 (34)
	21 - 24	12.75 ± 0.19	135 (34)
	24 - 28	17.89 ± 0.55	135 (34)
	4 - 28	72.54 ± 0.98 **	135 (34)

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F1 Females

Phase	Days	Treatment Groups (mg/L)							
		0		30		100		300	
		WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N
PND	1 - 4	3.32 ± 0.09 **	206 (38)	3.19 ± 0.08	189 (31)	3.17 ± 0.10	170 (31)	3.24 ± 0.07	204 (34)
	4 - 7	5.82 ± 0.12 **	143 (38)	5.56 ± 0.14	122 (31)	5.64 ± 0.13	119 (31)	5.27 ± 0.12 **	129 (34)
	7 - 10	7.17 ± 0.14 **	143 (38)	6.93 ± 0.15	122 (31)	6.53 ± 0.20 *	119 (31)	6.82 ± 0.16	129 (34)
	10 - 14	9.33 ± 0.20	143 (38)	9.22 ± 0.20	122 (31)	9.53 ± 0.17	117 (31)	9.47 ± 0.16	129 (34)
	14 - 17	6.49 ± 0.16	143 (38)	6.08 ± 0.19	122 (31)	6.20 ± 0.15	117 (31)	6.52 ± 0.13	129 (34)
	17 - 21	13.58 ± 0.23	143 (38)	13.23 ± 0.25	122 (31)	12.72 ± 0.34	117 (31)	13.33 ± 0.25	129 (34)
	21 - 24	11.80 ± 0.28 **	143 (38)	11.42 ± 0.23	122 (31)	12.04 ± 0.24	117 (31)	11.53 ± 0.20	129 (34)
	24 - 28	15.76 ± 0.37	143 (38)	16.32 ± 0.56	122 (31)	16.26 ± 0.51	117 (31)	15.69 ± 0.51	129 (34)
	4 - 28	69.79 ± 0.67 **	143 (38)	68.80 ± 0.86	122 (31)	69.18 ± 0.87	117 (31)	68.63 ± 0.84	129 (34)

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F1 Females

Phase	Days	Treatment Groups (mg/L)	
		1000	
		WT Gain (g)	N
PND	1 - 4	2.94 ± 0.09 *	197 (34)
	4 - 7	5.16 ± 0.10 **	132 (34)
	7 - 10	6.19 ± 0.13 **	132 (34)
	10 - 14	9.17 ± 0.17	132 (34)
	14 - 17	6.34 ± 0.17	132 (34)
	17 - 21	12.72 ± 0.21	132 (34)
	21 - 24	10.88 ± 0.17 *	132 (34)
	24 - 28	15.80 ± 0.48	132 (34)
	4 - 28	66.23 ± 0.71 **	132 (34)

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F1 Pups

Phase	Days	Treatment Groups (mg/L)							
		0		30		100		300	
		WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N
PND	1 - 4	3.38 ± 0.09 *	420 (38)	3.27 ± 0.08	395 (31)	3.06 ± 0.18	367 (32)	3.36 ± 0.07	423 (34)
	4 - 7	5.91 ± 0.12 **	285 (38)	5.63 ± 0.14	248 (31)	5.48 ± 0.27	240 (32)	5.45 ± 0.11	268 (34)
	7 - 10	7.26 ± 0.13 **	285 (38)	6.99 ± 0.14	248 (31)	6.67 ± 0.17 *	240 (31)	6.92 ± 0.15	268 (34)
	10 - 14	9.45 ± 0.19	285 (38)	9.39 ± 0.20	247 (31)	9.59 ± 0.17	238 (31)	9.60 ± 0.16	268 (34)
	14 - 17	6.67 ± 0.15	285 (38)	6.18 ± 0.18	247 (31)	6.39 ± 0.14	238 (31)	6.78 ± 0.13	268 (34)
	17 - 21	14.21 ± 0.26 *	285 (38)	13.86 ± 0.25	247 (31)	13.31 ± 0.37	238 (31)	14.01 ± 0.25	268 (34)
	21 - 24	12.56 ± 0.24 **	285 (38)	12.33 ± 0.22	247 (31)	12.82 ± 0.21	238 (31)	12.72 ± 0.27	268 (34)
	24 - 28	17.35 ± 0.46	285 (38)	18.14 ± 0.53	247 (31)	17.95 ± 0.54	238 (31)	17.29 ± 0.47	268 (34)
	4 - 28	73.28 ± 0.81 **	285 (38)	72.56 ± 0.96	247 (31)	72.65 ± 0.97	237 (31)	72.78 ± 0.89	268 (34)

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Phase	Days	Treatment Groups (mg/L)	
		1000	
		WT Gain (g)	N
PND	1 - 4	3.04 ± 0.08 *	416 (34)
	4 - 7	5.29 ± 0.11 **	267 (34)
	7 - 10	6.27 ± 0.13 **	267 (34)
	10 - 14	9.32 ± 0.17	267 (34)
	14 - 17	6.60 ± 0.16	267 (34)
	17 - 21	13.27 ± 0.19 *	267 (34)
	21 - 24	11.83 ± 0.16 *	267 (34)
	24 - 28	16.88 ± 0.48	267 (34)
	4 - 28	69.44 ± 0.81 **	267 (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

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.

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 $P \leq 0.01$

Three pup weight values and their corresponding weight gain intervals were excluded from both the separate and combined sexes ("Pup") analyses. One F1 control male on PND 1, one F1 male in the 100 mg/L dose group on PND 4, and one F1 male in the 1000 mg/L dose group on PND 1 were excluded.

**** END OF REPORT ****