

Study Number: C20302B-03
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Rat/Harlan Sprague Dawley

I04G: Mean Body Weight Gain
Test Compound: alpha-Pinene
CAS Number: 80-56-8

Date Report Requested: 04/05/2023
Time Report Requested: 13:52:52
Lab: Battelle

Study Number: C20302B-03
Study Sex: Both
PWG Approval Date: See web page for date of PWG Approval
Version: v1.5.0
Stat Version: 2023.03.27S

Females: Naive Females									
Treatment Groups (ppm)									
Phase	Days	0		100		200		400	
		Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N
Gestation	1 - 5	19.8 ± 0.7	18	25.6 ± 3.1	17	23.0 ± 1.3	22	20.9 ± 1.8	19
	5 - 10	13.6 ± 3.6	18	15.7 ± 1.0	16	16.3 ± 1.0	22	16.7 ± 0.9	19
	10 - 14	20.0 ± 2.7	18	13.2 ± 5.3	16	21.0 ± 1.8	22	15.3 ± 3.5	19
	1 - 14	53.4 ± 1.9	18	54.1 ± 4.4	17	60.3 ± 3.0	22	52.8 ± 4.2	19

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Males: Core Animals

Phase	Days	Treatment Groups (ppm)							
		0		50		100		200	
		Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N
SD	1 - 8	44.9 ± 1.0 **	50	42.7 ± 1.0	50	43.1 ± 0.7	50	40.8 ± 0.6 **	50
	8 - 15	43.6 ± 0.9	50	43.5 ± 0.8	50	45.7 ± 0.8	50	44.6 ± 0.6	50
	15 - 22	41.3 ± 1.1 **	50	40.0 ± 1.0	50	37.3 ± 0.9 **	50	34.5 ± 0.7 **	50
	22 - 29	26.6 ± 0.9 *	50	24.1 ± 1.0	50	24.1 ± 0.7	50	23.1 ± 1.2 *	50
	29 - 36	17.4 ± 0.9	50	17.5 ± 0.8	50	9.8 ± 1.2 **	50	20.5 ± 1.4	50
	36 - 43	7.8 ± 1.1 **	50	18.5 ± 1.1 **	50	24.1 ± 1.4 **	50	16.0 ± 1.3 **	50
	43 - 50	23.9 ± 1.5 **	50	15.7 ± 1.1 **	50	16.5 ± 0.6 **	50	14.6 ± 0.6 **	50
	50 - 57	13.9 ± 0.5 *	50	12.5 ± 0.6	50	13.4 ± 1.3	50	10.6 ± 0.7 *	50
	57 - 64	10.4 ± 0.6	50	9.2 ± 1.7	50	6.9 ± 1.5	50	12.7 ± 0.5	50
	64 - 71	11.4 ± 0.6 **	50	10.6 ± 1.9	50	13.7 ± 1.5	50	0.6 ± 0.6 **	50
	71 - 78	-6.7 ± 1.5 **	50	4.4 ± 1.0	50	-11.8 ± 2.0	50	12.8 ± 0.6 **	50
	78 - 85	22.8 ± 1.5 **	50	14.1 ± 1.1	50	24.9 ± 1.4	50	8.9 ± 0.6 **	50
	85 - 113	25.7 ± 1.1	50	23.1 ± 1.0	50	28.2 ± 1.0	50	24.4 ± 0.9	50
	113 - 141	9.5 ± 1.6 **	50	16.8 ± 1.6 **	50	17.8 ± 1.0 **	50	17.4 ± 1.1 **	50
	141 - 169	27.2 ± 4.1 **	49	14.5 ± 2.0 **	50	9.6 ± 1.2 **	50	15.3 ± 1.1 **	50
	169 - 197	3.4 ± 4.2	49	8.2 ± 0.9	50	14.8 ± 1.1 **	50	9.1 ± 2.6	50
	197 - 225	23.1 ± 1.2	49	20.0 ± 1.7	50	17.7 ± 1.9	50	24.7 ± 3.1	50
	225 - 253	12.0 ± 1.6	49	11.9 ± 1.5	50	10.9 ± 1.6	50	11.4 ± 1.7	49
	253 - 281	11.7 ± 1.5 **	49	13.5 ± 1.0	50	9.0 ± 1.0	50	4.5 ± 1.5 **	49
	281 - 309	13.4 ± 0.7	49	14.3 ± 0.9	50	12.1 ± 1.6	50	13.5 ± 0.9	49
	309 - 337	9.5 ± 1.1 **	48	12.3 ± 1.0	50	9.7 ± 1.8	50	5.2 ± 1.2 *	47
	337 - 365	3.6 ± 1.1 *	48	2.9 ± 1.4	50	1.3 ± 1.4	50	8.1 ± 1.3 *	46
	365 - 393	13.1 ± 1.0 *	48	8.8 ± 3.9	49	13.2 ± 1.4	50	7.9 ± 1.5	46
	393 - 421	9.0 ± 3.3	48	12.4 ± 4.4	49	9.0 ± 1.7	50	2.9 ± 2.0	44
	421 - 449	2.9 ± 3.5	48	4.1 ± 1.6	47	3.6 ± 1.0	49	6.0 ± 1.9	44
	449 - 479	5.2 ± 1.9	47	-0.5 ± 2.3	47	5.3 ± 1.7	48	2.4 ± 2.5	44
	479 - 505	2.7 ± 1.2	47	6.5 ± 1.8	46	0.7 ± 2.9	48	3.0 ± 2.4	42
	505 - 533	5.9 ± 2.1	45	5.8 ± 2.6	46	4.3 ± 4.0	47	1.2 ± 4.4	40
	533 - 561	-2.8 ± 3.3	45	5.7 ± 2.2 *	44	0.2 ± 2.2	45	1.4 ± 1.3	39
	561 - 589	-2.8 ± 4.3	42	-2.0 ± 4.1	42	-6.3 ± 3.1	44	-3.0 ± 1.9	39
	589 - 617	-13.1 ± 4.5 *	37	-6.5 ± 2.0	38	-8.1 ± 3.9	40	-2.7 ± 3.7	36

Males: Core Animals									
Treatment Groups (ppm)									
Phase	Days	0		50		100		200	
		Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N
	617 - 645	1.2 ± 2.3 *	33	-6.7 ± 2.3	36	-18.7 ± 6.1 *	35	-12.2 ± 6.7	33
	645 - 673	-9.1 ± 4.9 *	32	-11.3 ± 3.9	30	-13.9 ± 5.7	28	-21.5 ± 5.6	27
	673 - 701	-3.0 ± 3.7	28	-6.2 ± 4.1	24	-4.9 ± 4.9	25	-16.3 ± 6.5	18

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Test Compound: alpha-Pinene

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Lab: Battelle

Males: Fertility Males

Phase	Days	Treatment Groups (ppm)							
		0		100		200		400	
		Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N
SD	1 - 8	44.9 ± 1.3	25	45.0 ± 0.9	25	46.4 ± 0.9	25	42.4 ± 0.7	25
	8 - 15	39.1 ± 1.3	25	33.4 ± 4.1	25	34.3 ± 1.4	25	43.9 ± 0.8	25
	15 - 22	39.1 ± 1.4	25	30.9 ± 3.9 *	25	44.5 ± 1.5	25	36.8 ± 1.2	25
	22 - 29	25.7 ± 1.2 **	25	39.7 ± 1.6	25	27.1 ± 1.2	25	13.5 ± 0.9 **	25
	29 - 36	17.5 ± 1.0 **	25	8.8 ± 1.2	25	14.0 ± 1.1	25	25.2 ± 0.9 **	25
	36 - 43	14.4 ± 0.8 **	25	19.8 ± 1.4 **	25	22.2 ± 1.0 **	25	21.1 ± 1.0 **	25
	43 - 50	13.0 ± 2.6 **	25	16.5 ± 1.1	25	14.1 ± 0.8	25	10.3 ± 1.5	25
	50 - 57	15.5 ± 1.8	25	14.4 ± 0.5	25	8.3 ± 0.6 **	25	15.2 ± 1.1	25
	57 - 64	9.6 ± 0.9 **	25	10.6 ± 0.9	25	13.5 ± 0.7	25	-6.3 ± 1.2 **	25
	64 - 71	10.8 ± 1.0 **	25	10.6 ± 0.7	25	9.2 ± 0.7	25	23.1 ± 1.1 **	25
	71 - 78	-7.0 ± 2.1 **	25	7.4 ± 0.7 **	25	2.8 ± 0.8 **	25	9.7 ± 0.9 **	25
	78 - 85	23.4 ± 2.0 **	25	8.2 ± 0.7 **	25	10.5 ± 0.7 **	25	9.2 ± 0.5 **	25
	85 - 92	9.0 ± 1.0 *	25	12.0 ± 0.9	25	0.7 ± 4.3	25	-14.1 ± 5.6 **	25
	92 - 99	10.6 ± 1.0 **	25	10.9 ± 1.0	25	17.6 ± 3.3	25	29.2 ± 4.8 **	25
	99 - 106	10.7 ± 0.8 **	25	11.7 ± 0.9	25	12.4 ± 1.8	25	13.7 ± 1.2	25
	1 - 106	276.3 ± 6.0	25	280.1 ± 6.8	25	277.6 ± 5.3	25	273.0 ± 4.3	25

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Females: Core Animals

Phase	Days	Treatment Groups (ppm)							
		0		50		100		200	
		Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N
SD	1 - 8	24.4 ± 0.6	50	23.8 ± 0.7	50	24.1 ± 0.6	50	22.8 ± 0.6	50
	8 - 15	21.2 ± 0.5	50	18.5 ± 0.7 *	50	19.3 ± 0.7	50	19.2 ± 0.7	49
	15 - 22	17.2 ± 0.6 **	50	17.0 ± 0.5	50	16.5 ± 0.5	50	15.1 ± 0.6 *	49
	22 - 29	11.6 ± 0.6	50	10.2 ± 0.6	50	10.3 ± 1.1	50	10.8 ± 0.6	49
	29 - 36	9.9 ± 0.6	50	12.1 ± 0.6	50	11.7 ± 1.0	50	11.3 ± 0.6	49
	36 - 43	5.9 ± 0.5	50	3.4 ± 1.4	50	3.6 ± 0.7	50	7.0 ± 0.5	49
	43 - 50	8.5 ± 0.6	50	12.9 ± 1.2 **	50	11.1 ± 0.6	50	7.8 ± 0.6	49
	50 - 57	5.3 ± 0.5	50	5.3 ± 0.7	50	6.8 ± 0.5	50	4.0 ± 0.6	49
	57 - 64	6.2 ± 0.6	50	4.6 ± 0.7	50	3.5 ± 1.5	50	6.9 ± 0.6	49
	64 - 71	5.5 ± 0.8 **	50	4.0 ± 1.5	50	5.6 ± 1.6	50	-0.4 ± 0.4 **	49
	71 - 78	3.1 ± 0.7	50	2.3 ± 0.5	50	-1.6 ± 0.8 **	50	3.2 ± 0.7	49
	78 - 85	4.9 ± 0.5 *	50	6.4 ± 0.6	50	8.3 ± 1.0 *	50	6.4 ± 1.5	49
	85 - 113	12.0 ± 0.8	50	12.6 ± 0.9	50	11.9 ± 0.6	50	11.3 ± 1.3	49
	113 - 141	11.8 ± 1.3	50	6.6 ± 0.8	50	6.7 ± 2.2	50	5.9 ± 1.6 *	49
	141 - 169	4.9 ± 0.9	50	8.8 ± 1.0	50	5.8 ± 3.0	50	8.3 ± 1.5	49
	169 - 197	2.0 ± 1.0	50	-0.0 ± 0.9	50	5.7 ± 1.7	50	1.7 ± 1.0	49
	197 - 225	11.0 ± 1.2 **	50	11.2 ± 0.8	49	6.2 ± 1.1 *	50	8.6 ± 1.2 *	49
	225 - 253	4.3 ± 1.4 **	50	0.4 ± 0.8	49	3.5 ± 1.0	50	-3.4 ± 1.5 **	48
	253 - 281	-4.6 ± 1.6 **	50	5.3 ± 1.3 **	49	2.2 ± 0.9 **	49	7.0 ± 1.5 **	46
	281 - 309	14.4 ± 1.5 **	50	6.5 ± 1.0 **	49	6.3 ± 1.3 **	48	2.8 ± 1.0 **	46
	309 - 337	4.3 ± 1.0	50	4.4 ± 0.8	49	1.7 ± 1.1	48	2.0 ± 1.3	45
	337 - 365	3.3 ± 1.0	50	2.8 ± 0.7	49	3.1 ± 2.1	48	3.3 ± 1.4	41
	365 - 393	8.5 ± 1.9 *	50	8.7 ± 1.1	47	6.4 ± 1.8	46	4.7 ± 1.8	37
	393 - 421	4.7 ± 1.9	50	3.8 ± 0.8	47	6.5 ± 2.0	45	6.0 ± 1.5	36
	421 - 449	2.6 ± 0.9	47	6.0 ± 0.9	45	4.1 ± 1.6	42	7.4 ± 2.7	33
	449 - 479	6.3 ± 1.2	47	3.3 ± 1.8	45	5.3 ± 2.1	40	14.5 ± 5.0	28
	479 - 505	3.0 ± 1.7	46	8.9 ± 3.9	43	7.6 ± 2.0	37	7.5 ± 4.2	22
	505 - 533	5.0 ± 1.6 **	43	9.6 ± 3.9	38	16.5 ± 4.9 *	33	17.2 ± 4.7 *	18
	533 - 561	1.5 ± 3.9 **	43	10.5 ± 1.9	33	17.5 ± 5.0 *	30	18.7 ± 6.5 *	18
	561 - 589	3.4 ± 2.6	41	0.5 ± 1.9	31	15.4 ± 4.7 *	26	13.5 ± 6.4	16
	589 - 617	-0.4 ± 3.4	39	6.7 ± 3.7	30	10.4 ± 4.7	22	7.3 ± 4.1	11

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	617 - 645	-0.0 ± 2.8	36	1.3 ± 5.8	26	5.8 ± 7.3	21	20.0 ± 11.7	9
	645 - 673	1.7 ± 4.5 *	34	15.0 ± 9.0	25	14.0 ± 7.3	17	24.9 ± 15.7	7
	673 - 701	4.7 ± 3.5	28	14.6 ± 11.1	19	15.3 ± 10.2	16	19.6 ± 9.9	5

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LEGEND

Data are displayed as mean $\pm$ SEM

GD - Gestation Day; SD - Study Day

Statistical analysis of weight data performed by Jonckheere (trend) and Williams or Dunnett (pairwise) tests.

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 $P \leq 0.01$

Naïve females were paired with dosed males; no dams were dosed in this study.

One naïve female in the 100 ppm dose group did not have a weight recorded at GD 10.

**** END OF REPORT ****