

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

I04: Mean Body Weight Summary
Test Compound: alpha-Pinene
CAS Number: 80-56-8

Date Report Requested: 06/04/2024
Time Report Requested: 15:54:18
Lab: Battelle

Study Number: C20302B-01
Study Sex: Both
PWG Approval Date: See web page for date of PWG Approval
Version: v1.6.4
Stat Version: 2022.10.13S

Males: Interim Males											
Phase Day	Treatment Groups (ppm)										
	0		100			200			400		
	Wt (g)	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N
SD1	21.8 ± 0.5	10	21.6 ± 0.5	98.9	10	21.5 ± 0.3	98.6	10	21.9 ± 0.2	100.1	10
SD10	24.7 ± 0.3	10	24.5 ± 0.4	99.1	10	24.4 ± 0.3	98.7	10	24.7 ± 0.2	99.9	10
SD17	26.4 ± 0.3	10	25.8 ± 0.6	97.5	10	26.0 ± 0.3	98.2	10	25.4 ± 0.3	96.2	10
SD24	27.4 ± 0.6	10	26.6 ± 0.5	97.0	10	27.0 ± 0.5	98.2	10	26.4 ± 0.3	96.1	10
SD31	28.2 ± 0.7	10	27.8 ± 0.6	98.5	10	28.2 ± 0.5	100.0	10	27.0 ± 0.4	95.9	10
SD38	29.2 ± 0.8	10	28.3 ± 0.6	97.1	10	28.6 ± 0.5	98.1	10	27.4 ± 0.3	93.9	10
SD45	29.9 ± 0.8	10	29.8 ± 0.5	99.6	10	29.7 ± 0.5	99.3	10	28.9 ± 0.4	96.6	10
SD52	29.5 ± 0.9	10	29.3 ± 0.7	99.2	10	29.9 ± 0.5	101.2	10	28.7 ± 0.4	97.0	10
SD59	31.3 ± 0.9	10	30.2 ± 0.7	96.6	10	30.8 ± 0.6	98.6	10	29.8 ± 0.4	95.4	10
SD66	32.8 ± 0.9 *	10	31.0 ± 0.7	94.5	10	31.9 ± 0.6	97.0	10	29.9 ± 0.5 *	91.1	10
SD73	32.0 ± 1.0	10	32.3 ± 0.8	100.9	10	31.6 ± 0.7	98.9	10	31.0 ± 0.5	96.7	10
SD80	33.1 ± 1.1 *	10	32.3 ± 0.9	97.5	10	32.7 ± 0.7	98.6	10	30.1 ± 0.5 *	90.7	10
SD87	33.9 ± 1.1	10	32.2 ± 1.0	94.8	10	32.9 ± 0.6	96.8	10	31.3 ± 0.6	92.1	10

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Males: Core Animals											
Phase Day	Treatment Groups (ppm)										
	0		100			200			400		
	Wt (g)	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N
SD1	21.8 ± 0.1	50	21.8 ± 0.1	99.8	50	22.0 ± 0.1	100.7	50	21.8 ± 0.2	99.8	50
SD10	24.5 ± 0.1	50	24.9 ± 0.2	101.9	50	24.6 ± 0.2	100.4	50	24.5 ± 0.1	100.0	50
SD17	25.8 ± 0.1	50	26.0 ± 0.2	100.7	50	25.7 ± 0.2	99.6	50	25.6 ± 0.2	99.0	50
SD24	26.6 ± 0.1	50	26.7 ± 0.2	100.5	50	26.2 ± 0.1	98.3	50	26.6 ± 0.2	99.8	50
SD31	27.4 ± 0.2	50	27.8 ± 0.2	101.5	49	27.2 ± 0.1	99.1	50	27.4 ± 0.2	99.8	50
SD38	28.1 ± 0.2	50	28.6 ± 0.2	101.7	50	27.8 ± 0.2	98.9	50	27.9 ± 0.2	99.3	50
SD45	28.8 ± 0.2 *	50	27.0 ± 0.3 **	93.8	50	29.2 ± 0.2	101.4	50	29.1 ± 0.2	100.8	50
SD52	28.6 ± 0.2	50	29.6 ± 0.3 **	103.7	50	29.1 ± 0.2	101.7	50	29.1 ± 0.2	101.8	50
SD59	29.9 ± 0.2	50	30.7 ± 0.3	102.4	50	30.1 ± 0.2	100.6	50	29.8 ± 0.3	99.5	50
SD66	30.8 ± 0.2	50	31.1 ± 0.3	101.1	50	30.5 ± 0.2	99.1	50	30.5 ± 0.3	99.2	50
SD73	30.8 ± 0.2	50	32.1 ± 0.3 **	104.1	50	30.6 ± 0.2	99.2	50	30.8 ± 0.3	99.9	50
SD80	31.6 ± 0.2 **	50	32.8 ± 0.3	103.8	50	31.6 ± 0.2	100.1	50	30.5 ± 0.3 **	96.6	50
SD87	32.2 ± 0.3 **	50	32.9 ± 0.3	102.0	50	31.8 ± 0.2	98.7	50	31.2 ± 0.3 **	96.7	50
SD94	32.8 ± 0.3 **	50	34.0 ± 0.4	103.7	50	32.7 ± 0.2	99.8	50	31.9 ± 0.3 *	97.3	50
SD115	34.6 ± 0.3 **	50	35.5 ± 0.4	102.5	50	34.7 ± 0.3	100.3	50	33.2 ± 0.4 **	96.0	50
SD143	37.5 ± 0.4 **	50	38.0 ± 0.5	101.5	50	35.7 ± 0.4 **	95.2	50	34.3 ± 0.5 **	91.5	50
SD171	39.2 ± 0.4 **	50	39.7 ± 0.5	101.3	50	37.7 ± 0.4 *	96.2	50	36.0 ± 0.5 **	91.8	50
SD199	41.4 ± 0.4 **	50	42.1 ± 0.6	101.8	50	40.0 ± 0.4	96.8	47	37.6 ± 0.5 **	91.0	50
SD227	43.7 ± 0.5 **	50	44.1 ± 0.5	100.8	50	42.1 ± 0.4 *	96.3	47	39.3 ± 0.5 **	89.9	50
SD256	45.2 ± 0.5 **	50	45.3 ± 0.5	100.3	50	42.9 ± 0.5 **	94.9	47	40.6 ± 0.6 **	89.9	50
SD283	44.6 ± 0.5 **	50	46.0 ± 0.6	103.1	50	44.2 ± 0.5	99.0	47	41.5 ± 0.6 **	93.1	50
SD311	46.8 ± 0.7 **	50	47.6 ± 0.6	101.6	50	45.1 ± 0.5	96.4	47	43.1 ± 0.6 **	92.2	50
SD339	48.3 ± 0.7 **	50	48.7 ± 0.7	100.9	50	46.5 ± 0.7	96.3	46	45.9 ± 0.6 *	95.0	50
SD367	49.2 ± 0.8 **	50	49.7 ± 0.6	101.1	49	48.0 ± 0.6	97.6	46	45.7 ± 0.7 **	92.9	50
SD395	50.0 ± 0.6 **	49	49.8 ± 0.7	99.5	49	47.9 ± 0.7 *	95.7	46	46.1 ± 0.7 **	92.2	49
SD423	50.9 ± 0.6 **	48	50.0 ± 0.8	98.3	49	48.5 ± 0.8 *	95.3	46	47.8 ± 0.7 **	94.0	48
SD451	51.8 ± 0.7 **	48	50.8 ± 0.7	98.2	48	50.0 ± 0.8	96.5	46	47.8 ± 0.7 **	92.2	48
SD479	52.2 ± 0.7 **	48	50.2 ± 0.8	96.2	48	50.5 ± 0.8	96.8	45	49.2 ± 0.8 **	94.3	47
SD507	51.7 ± 0.7 **	48	49.8 ± 1.0	96.4	47	49.7 ± 0.8	96.1	45	48.2 ± 0.8 **	93.3	47
SD535	51.3 ± 0.8 **	47	50.6 ± 1.0	98.6	46	51.0 ± 0.8	99.5	44	48.3 ± 0.9 *	94.1	46
SD563	51.6 ± 0.9 **	46	50.1 ± 1.0	97.1	44	49.8 ± 0.9	96.5	42	47.7 ± 0.9 **	92.5	43

Males: Core Animals											
Phase Day	Treatment Groups (ppm)										
	0		100			200			400		
	Wt (g)	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N
SD591	51.0 ± 1.0 **	46	48.9 ± 1.1	96.0	43	49.8 ± 1.0	97.7	41	47.1 ± 1.0 **	92.5	42
SD619	50.7 ± 0.9 **	43	47.2 ± 1.2 *	93.1	37	47.9 ± 1.1 *	94.4	41	45.3 ± 1.0 **	89.3	39
SD647	51.1 ± 1.1 **	42	47.1 ± 1.3	92.2	35	48.6 ± 1.1	95.2	39	44.9 ± 1.1 **	87.9	37
SD675	50.6 ± 1.1 **	41	46.5 ± 1.4 *	91.9	33	47.1 ± 1.2 *	93.2	38	43.6 ± 1.2 **	86.2	34
SD703	50.2 ± 1.2 **	41	44.6 ± 1.6 *	88.8	31	46.5 ± 1.2 *	92.7	37	42.3 ± 1.2 **	84.3	33

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Females: Core Animals											
Phase Day	Treatment Groups (ppm)										
	0		100			200			400		
	Wt (g)	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N
SD1	18.4 ± 0.1	50	18.2 ± 0.1	99.0	50	18.7 ± 0.1	101.7	36	17.9 ± 0.1 *	97.3	50
SD10	20.2 ± 0.1	50	20.4 ± 0.1	101.2	50	20.7 ± 0.2 *	102.6	36	20.4 ± 0.1	101.3	50
SD17	19.5 ± 0.1 **	50	22.1 ± 0.1 **	113.7	50	22.0 ± 0.2 **	112.9	36	21.9 ± 0.2 **	112.8	50
SD24	22.6 ± 0.1	49	22.4 ± 0.1	99.1	50	22.7 ± 0.2	100.5	36	22.9 ± 0.2	101.4	50
SD31	23.4 ± 0.2 *	50	23.8 ± 0.1	101.5	50	24.1 ± 0.2 **	103.0	36	23.8 ± 0.1	101.5	50
SD38	24.2 ± 0.1	50	24.4 ± 0.1	100.7	50	24.8 ± 0.2 *	102.5	36	24.1 ± 0.1	99.4	50
SD45	24.9 ± 0.2 **	50	24.1 ± 0.2	96.9	50	26.5 ± 0.2 **	106.6	36	25.7 ± 0.2 **	103.5	50
SD52	24.5 ± 0.2 **	50	25.8 ± 0.2 **	105.5	50	26.9 ± 0.2 **	110.2	36	25.8 ± 0.2 **	105.7	50
SD59	25.7 ± 0.2 **	50	27.0 ± 0.2 **	105.2	50	27.4 ± 0.2 **	106.7	36	26.3 ± 0.2 **	102.5	50
SD66	26.1 ± 0.2	50	27.3 ± 0.2 **	104.7	50	27.3 ± 0.3 **	104.6	36	26.3 ± 0.2	100.7	50
SD73	26.4 ± 0.2	50	27.8 ± 0.2 **	105.4	50	27.5 ± 0.2 **	104.0	36	26.7 ± 0.2	101.0	50
SD80	27.1 ± 0.2	50	28.2 ± 0.2 **	104.3	50	28.6 ± 0.3 **	105.8	36	27.3 ± 0.2	101.0	50
SD87	27.3 ± 0.2	50	28.3 ± 0.3 **	103.5	50	28.8 ± 0.3 **	105.6	36	27.2 ± 0.2	99.8	50
SD94	28.0 ± 0.2	50	29.3 ± 0.3 **	104.7	50	28.9 ± 0.3 *	103.5	40	27.9 ± 0.2	99.8	50
SD115	29.4 ± 0.3	50	30.5 ± 0.3 *	103.5	50	30.8 ± 0.3 **	104.8	36	28.6 ± 0.3	97.2	50
SD143	31.9 ± 0.3 **	50	33.3 ± 0.4	104.6	50	32.7 ± 0.5	102.5	36	30.6 ± 0.4 *	96.1	50
SD171	34.4 ± 0.4 **	50	34.7 ± 0.5	100.8	50	34.9 ± 0.6	101.3	36	31.4 ± 0.5 **	91.3	50
SD199	34.5 ± 0.5 *	50	36.8 ± 0.5 **	106.7	50	36.6 ± 0.7 *	106.2	36	33.0 ± 0.5	95.7	50
SD227	36.7 ± 0.7	50	38.4 ± 0.6	104.8	50	38.5 ± 0.7	105.0	40	36.1 ± 0.7	98.5	50
SD256	39.9 ± 0.7	50	40.8 ± 0.7	102.4	50	39.8 ± 0.8	99.9	40	39.6 ± 0.7	99.2	49
SD283	38.0 ± 0.8 *	50	43.1 ± 0.8 **	113.3	49	42.6 ± 0.9 **	112.1	40	41.2 ± 0.8 *	108.5	49
SD311	42.8 ± 0.9	50	45.8 ± 0.9 *	107.0	48	44.1 ± 1.0	102.9	40	43.8 ± 0.9	102.3	48
SD339	44.3 ± 1.0	50	47.2 ± 0.9	106.5	48	47.8 ± 1.1 *	107.8	39	46.5 ± 1.0	104.9	48
SD367	46.7 ± 1.0	50	49.5 ± 0.9	106.0	48	50.1 ± 1.2	107.4	39	47.3 ± 1.0	101.3	48
SD395	48.1 ± 1.1	49	51.6 ± 1.0	107.2	47	52.6 ± 1.1 *	109.4	38	48.4 ± 1.1	100.7	48
SD423	50.6 ± 1.2	49	52.3 ± 1.0	103.4	47	53.4 ± 1.2	105.7	37	50.2 ± 1.1	99.3	47
SD451	52.5 ± 1.2	48	56.3 ± 1.0 *	107.2	46	55.9 ± 1.2	106.6	37	51.8 ± 1.1	98.7	47
SD479	54.0 ± 1.2	48	57.7 ± 1.1	106.9	46	57.3 ± 1.3	106.2	37	53.2 ± 1.0	98.5	46
SD507	53.6 ± 1.4	47	57.4 ± 1.1	107.1	45	57.6 ± 1.4	107.5	36	52.9 ± 1.0	98.7	45
SD535	54.7 ± 1.3	45	59.3 ± 1.2 *	108.3	44	58.6 ± 1.5	107.0	36	54.1 ± 1.0	98.9	44
SD563	55.5 ± 1.2	44	58.8 ± 1.2	106.0	43	57.1 ± 1.7	103.0	36	54.2 ± 1.1	97.7	44

Females: Core Animals											
Phase Day	Treatment Groups (ppm)										
	0		100			200			400		
	Wt (g)	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N
SD591	56.1 ± 1.3	43	57.8 ± 1.3	103.0	43	58.4 ± 1.4	104.1	34	53.1 ± 1.2	94.6	43
SD619	53.7 ± 1.2	43	55.8 ± 1.4	103.8	42	56.2 ± 1.5	104.5	33	49.7 ± 1.3	92.4	43
SD647	52.9 ± 1.2	41	54.6 ± 1.5	103.3	41	55.3 ± 1.6	104.7	33	51.1 ± 1.3	96.8	38
SD675	51.5 ± 1.3	39	52.6 ± 1.5	102.2	38	53.4 ± 1.7	103.6	31	48.6 ± 1.4	94.5	38
SD703	51.4 ± 1.3	34	51.6 ± 1.8	100.2	34	52.1 ± 1.8	101.3	29	47.6 ± 1.4	92.5	31

Study Number: C20302B-01

Test Type: TOX

Route: Whole-Body Inhalation

Species/Strain: Mouse/B6C3F1/N

I04: Mean Body Weight Summary

Test Compound: alpha-Pinene

CAS Number: 80-56-8

Date Report Requested: 06/04/2024

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Lab: Battelle

LEGEND

Data are displayed as mean $\pm$ SEM.

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 $P \leq 0.01$

SEM = Standard Error of the Mean

SD = Study Day

One Core Male SD 31 body weight from the 100 ppm dose group was excluded as an outlier.

**** END OF REPORT ****