

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

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

Date Report Requested: 04/05/2023
Time Report Requested: 13:43:19
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											
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
GD0	232.7 ± 1.5	18	223.9 ± 3.3 *	96.2	17	224.7 ± 1.6 *	96.6	22	227.8 ± 2.6	97.9	19
GD5	252.5 ± 1.7	18	249.6 ± 2.6	98.8	17	247.8 ± 1.6	98.1	22	248.6 ± 2.2	98.5	19
GD10	266.2 ± 4.1	18	265.7 ± 2.9	99.8	16	264.0 ± 1.9	99.2	22	265.3 ± 2.6	99.7	19
GD14	286.1 ± 2.5	18	278.0 ± 5.2	97.2	17	285.0 ± 2.6	99.6	22	280.6 ± 4.9	98.1	19

Study Number: C20302B-03

Test Type: TOX

Route: Whole-Body Inhalation

Species/Strain: Rat/Harlan Sprague Dawley

I04: Mean Body Weight Summary

Test Compound: alpha-Pinene

CAS Number: 80-56-8

Date Report Requested: 04/05/2023

Time Report Requested: 13:43:19

Lab: Battelle

Males: Core Animals

Phase Day	Treatment Groups (ppm)										
	0		50			100			200		
	Wt (g)	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N
SD1	133.6 ± 2.3	50	134.8 ± 1.6	100.9	50	133.9 ± 2.2	100.2	50	135.9 ± 2.3	101.7	50
SD8	178.4 ± 2.5	50	177.5 ± 1.9	99.5	50	177.0 ± 2.5	99.2	50	176.7 ± 2.6	99.0	50
SD15	222.1 ± 2.8	50	221.0 ± 2.3	99.5	50	222.8 ± 2.8	100.3	50	221.2 ± 2.7	99.6	50
SD22	263.3 ± 3.0 *	50	261.0 ± 2.5	99.1	50	260.1 ± 3.1	98.8	50	255.7 ± 2.7	97.1	50
SD29	290.0 ± 3.4 *	50	285.1 ± 2.9	98.3	50	284.2 ± 3.5	98.0	50	278.8 ± 2.7 *	96.1	50
SD36	307.4 ± 3.7 *	50	302.6 ± 2.9	98.5	50	293.9 ± 3.5 *	95.6	50	299.2 ± 2.8	97.3	50
SD43	315.2 ± 4.0	50	321.1 ± 3.3	101.9	50	318.1 ± 4.0	100.9	50	315.2 ± 3.0	100.0	50
SD50	339.1 ± 4.2	50	336.8 ± 3.4	99.3	50	334.6 ± 4.3	98.7	50	329.8 ± 3.1	97.2	50
SD57	353.0 ± 4.4 *	50	349.3 ± 3.6	99.0	50	348.0 ± 4.6	98.6	50	340.3 ± 3.3	96.4	50
SD64	363.4 ± 4.6	50	358.5 ± 3.6	98.7	50	354.9 ± 4.7	97.7	50	353.1 ± 3.4	97.2	50
SD71	374.8 ± 4.6 **	50	369.1 ± 3.9	98.5	50	368.6 ± 4.8	98.4	50	353.7 ± 3.4 **	94.4	50
SD78	368.0 ± 5.0	50	373.5 ± 3.9	101.5	50	356.8 ± 5.1	96.9	50	366.5 ± 3.6	99.6	50
SD85	390.8 ± 5.0 *	50	387.6 ± 4.1	99.2	50	381.7 ± 5.0	97.6	50	375.4 ± 3.7 *	96.1	50
SD113	416.5 ± 5.5 *	50	410.7 ± 4.2	98.6	50	409.8 ± 5.3	98.4	50	399.8 ± 4.0 *	96.0	50
SD141	426.0 ± 6.2	50	427.5 ± 4.9	100.3	50	427.6 ± 5.7	100.4	50	417.3 ± 4.3	97.9	50
SD169	452.7 ± 6.4 *	49	442.0 ± 5.9	97.6	50	437.2 ± 5.6	96.6	50	432.5 ± 4.3 *	95.5	50
SD197	456.1 ± 6.4	49	450.2 ± 6.1	98.7	50	452.0 ± 6.1	99.1	50	441.7 ± 4.7	96.8	50
SD225	479.2 ± 6.7	49	470.2 ± 6.4	98.1	50	469.8 ± 6.2	98.0	50	466.4 ± 5.1	97.3	50
SD253	491.2 ± 6.8	49	482.1 ± 6.2	98.1	50	480.6 ± 6.7	97.8	50	477.4 ± 5.2	97.2	49
SD281	502.9 ± 7.1 *	49	495.6 ± 6.4	98.5	50	489.6 ± 6.6	97.4	50	481.9 ± 5.5	95.8	49
SD309	516.4 ± 7.3 *	49	509.8 ± 6.4	98.7	50	501.7 ± 6.8	97.2	50	495.5 ± 5.8	95.9	49
SD337	526.9 ± 7.5 **	48	522.1 ± 6.7	99.1	50	511.5 ± 7.1	97.1	50	498.8 ± 6.1 **	94.7	47
SD365	530.5 ± 7.5 *	48	525.0 ± 7.1	99.0	50	512.8 ± 7.3	96.7	50	508.2 ± 6.3	95.8	46
SD393	543.6 ± 7.7 **	48	538.2 ± 6.8	99.0	49	526.0 ± 7.3	96.8	50	516.1 ± 6.5 **	94.9	46
SD421	552.6 ± 9.0 **	48	550.7 ± 6.7	99.7	49	535.0 ± 7.7	96.8	50	520.5 ± 6.9 **	94.2	44
SD449	555.4 ± 8.5 **	48	560.0 ± 5.9	100.8	47	538.6 ± 7.7	97.0	49	526.4 ± 6.6 **	94.8	44
SD479	557.2 ± 8.0 **	47	559.5 ± 6.8	100.4	47	545.8 ± 7.5	98.0	48	528.8 ± 7.0 **	94.9	44
SD505	559.9 ± 8.0 **	47	569.4 ± 6.1	101.7	46	546.5 ± 7.5	97.6	48	532.1 ± 7.5 *	95.0	42
SD533	566.4 ± 8.7 **	45	575.2 ± 6.8	101.6	46	549.3 ± 7.9	97.0	47	534.2 ± 9.1 **	94.3	40
SD561	563.6 ± 8.3 **	45	581.8 ± 7.0	103.2	44	548.1 ± 8.2	97.2	45	540.5 ± 8.0	95.9	39
SD589	555.6 ± 8.5 *	42	578.8 ± 9.0	104.2	42	545.5 ± 7.3	98.2	44	537.5 ± 8.3	96.7	39

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

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

Date Report Requested: 04/05/2023
Time Report Requested: 13:43:19
Lab: Battelle

Males: Core Animals											
Phase Day	Treatment Groups (ppm)										
	0		50			100			200		
	Wt (g)	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N
SD617	543.6 ± 11.3 *	37	578.1 ± 8.1 *	106.3	38	537.6 ± 8.8	98.9	40	535.0 ± 9.3	98.4	36
SD645	555.3 ± 10.1 **	33	576.6 ± 8.2	103.8	36	527.2 ± 11.3	94.9	35	518.7 ± 11.5 *	93.4	33
SD673	544.9 ± 12.9 *	32	567.0 ± 9.1	104.1	30	528.4 ± 11.1	97.0	28	511.5 ± 13.3	93.9	27
SD701	555.7 ± 12.8 **	28	553.1 ± 11.0	99.5	24	533.6 ± 10.5	96.0	25	499.8 ± 17.3 **	90.0	18

Study Number: C20302B-03

Test Type: TOX

Route: Whole-Body Inhalation

Species/Strain: Rat/Harlan Sprague Dawley

I04: Mean Body Weight Summary

Test Compound: alpha-Pinene

CAS Number: 80-56-8

Date Report Requested: 04/05/2023

Time Report Requested: 13:43:19

Lab: Battelle

Males: Fertility Males

Treatment Groups (ppm)

Phase Day	0		100			200			400		
	Wt (g)	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N
SD1	134.6 ± 3.0	25	140.8 ± 3.2	104.6	25	133.9 ± 2.9	99.4	25	132.5 ± 1.2	98.4	25
SD8	179.6 ± 3.7	25	185.8 ± 3.5	103.5	25	180.3 ± 3.1	100.4	25	174.9 ± 1.6	97.4	25
SD15	218.7 ± 4.2	25	219.3 ± 4.6	100.3	25	214.6 ± 3.1	98.1	25	218.8 ± 2.0	100.0	25
SD22	257.8 ± 4.6	25	250.2 ± 3.9	97.1	25	259.0 ± 2.7	100.5	25	255.6 ± 2.5	99.1	25
SD29	283.5 ± 4.8 **	25	289.9 ± 4.3	102.2	25	286.1 ± 2.5	100.9	25	269.1 ± 2.8 **	94.9	25
SD36	301.1 ± 5.4	25	298.7 ± 4.9	99.2	25	300.1 ± 2.6	99.7	25	294.3 ± 3.4	97.8	25
SD43	315.4 ± 5.6	25	318.5 ± 5.0	101.0	25	322.3 ± 2.9	102.2	25	315.4 ± 3.6	100.0	25
SD50	328.4 ± 6.7	25	335.0 ± 5.6	102.0	25	336.4 ± 3.2	102.4	25	325.7 ± 3.7	99.2	25
SD57	343.9 ± 6.1	25	349.4 ± 5.8	101.6	25	344.8 ± 3.2	100.3	25	340.9 ± 3.8	99.1	25
SD64	353.5 ± 6.0 *	25	360.1 ± 6.1	101.9	25	358.3 ± 3.5	101.3	25	334.7 ± 3.6 *	94.7	25
SD71	364.3 ± 6.3	25	370.7 ± 6.2	101.8	25	367.5 ± 3.7	100.9	25	357.8 ± 3.8	98.2	25
SD78	357.3 ± 5.7	25	378.1 ± 6.3 *	105.8	25	370.3 ± 3.7	103.6	25	367.5 ± 4.1	102.9	25
SD85	380.7 ± 6.2	25	386.3 ± 6.5	101.5	25	380.8 ± 3.9	100.0	25	376.7 ± 4.2	99.0	25
SD90	382.8 ± 5.6	25	393.5 ± 6.3	102.8	25	381.5 ± 4.5	99.7	25	370.8 ± 4.3	96.9	25
SD92	389.7 ± 6.1 **	25	398.3 ± 6.4	102.2	25	381.5 ± 5.6	97.9	25	362.6 ± 5.2 **	93.1	25
SD99	400.3 ± 6.4	25	409.2 ± 6.7	102.2	25	399.1 ± 4.1	99.7	25	391.8 ± 4.3	97.9	25
SD106	411.0 ± 6.4	25	420.9 ± 7.0	102.4	25	411.4 ± 4.6	100.1	25	405.5 ± 4.7	98.7	25

Study Number: C20302B-03

Test Type: TOX

Route: Whole-Body Inhalation

Species/Strain: Rat/Harlan Sprague Dawley

I04: Mean Body Weight Summary

Test Compound: alpha-Pinene

CAS Number: 80-56-8

Date Report Requested: 04/05/2023

Time Report Requested: 13:43:19

Lab: Battelle

Females: Core Animals

Phase Day	Treatment Groups (ppm)										
	0		50			100			200		
	Wt (g)	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N
SD1	120.5 ± 1.3	50	121.8 ± 1.1	101.1	50	122.1 ± 1.1	101.3	50	120.5 ± 1.1	100.0	50
SD8	144.9 ± 1.4	50	145.6 ± 1.3	100.5	50	146.1 ± 1.3	100.8	50	143.3 ± 1.2	98.9	50
SD15	166.1 ± 1.5	50	164.2 ± 1.7	98.8	50	165.5 ± 1.4	99.6	50	162.7 ± 1.5	97.9	49
SD22	183.3 ± 1.7 *	50	181.1 ± 1.8	98.8	50	182.0 ± 1.7	99.3	50	177.7 ± 1.8	97.0	49
SD29	194.9 ± 1.8 *	50	191.3 ± 2.0	98.2	50	192.3 ± 2.0	98.7	50	188.5 ± 2.1	96.7	49
SD36	204.8 ± 2.0	50	203.4 ± 2.2	99.3	50	204.0 ± 2.1	99.6	50	199.8 ± 2.2	97.5	49
SD43	210.7 ± 2.0	50	206.8 ± 2.4	98.2	50	207.6 ± 2.1	98.5	50	206.7 ± 2.3	98.1	49
SD50	219.2 ± 2.0	50	219.7 ± 2.5	100.2	50	218.7 ± 2.2	99.8	50	214.5 ± 2.5	97.9	49
SD57	224.5 ± 2.2	50	224.9 ± 2.6	100.2	50	225.5 ± 2.1	100.4	50	218.5 ± 2.6	97.3	49
SD64	230.7 ± 2.1	50	229.5 ± 2.6	99.5	50	229.0 ± 2.2	99.3	50	225.4 ± 2.6	97.7	49
SD71	236.2 ± 2.2 **	50	233.6 ± 2.6	98.9	50	234.6 ± 2.2	99.3	50	225.1 ± 2.6 **	95.3	49
SD78	239.2 ± 2.1 **	50	235.8 ± 2.6	98.6	50	232.9 ± 2.4	97.4	50	228.3 ± 2.7 **	95.4	49
SD85	244.2 ± 2.3 **	50	242.3 ± 2.6	99.2	50	241.3 ± 2.2	98.8	50	234.7 ± 2.9 **	96.1	49
SD113	256.1 ± 2.3 **	50	254.9 ± 2.9	99.5	50	253.1 ± 2.4	98.8	50	246.0 ± 2.8 **	96.0	49
SD141	267.9 ± 2.6 **	50	261.5 ± 3.0	97.6	50	259.8 ± 2.7	97.0	50	251.9 ± 3.4 **	94.0	49
SD169	272.8 ± 2.7 **	50	270.3 ± 3.1	99.1	50	265.7 ± 3.0	97.4	50	260.2 ± 3.2 **	95.4	49
SD197	274.8 ± 3.0 **	50	270.3 ± 3.1	98.4	50	271.4 ± 2.7	98.7	50	261.8 ± 3.3 **	95.3	49
SD225	285.8 ± 3.1 **	50	281.0 ± 3.1	98.3	49	277.6 ± 2.6	97.1	50	270.5 ± 3.6 **	94.6	49
SD253	290.2 ± 3.5 **	50	281.4 ± 3.0	97.0	49	281.1 ± 2.8	96.9	50	267.3 ± 3.4 **	92.1	48
SD281	285.6 ± 3.8 *	50	286.7 ± 3.3	100.4	49	282.9 ± 3.0	99.1	49	274.5 ± 4.0	96.1	46
SD309	299.9 ± 3.8 **	50	293.3 ± 3.4	97.8	49	289.1 ± 3.2 *	96.4	48	277.2 ± 4.0 **	92.4	46
SD337	304.2 ± 4.0 **	50	297.7 ± 3.6	97.8	49	290.8 ± 3.4 *	95.6	48	278.7 ± 3.8 **	91.6	45
SD365	307.6 ± 4.2 **	50	300.5 ± 3.9	97.7	49	293.9 ± 4.2 *	95.5	48	281.2 ± 4.5 **	91.4	41
SD393	316.0 ± 4.5 **	50	308.7 ± 4.3	97.7	47	301.6 ± 5.4 *	95.4	46	288.2 ± 4.8 **	91.2	37
SD421	320.8 ± 4.7 **	50	312.5 ± 4.5	97.4	47	308.2 ± 6.0	96.1	45	294.6 ± 5.6 **	91.8	36
SD449	324.0 ± 4.9 **	47	319.0 ± 4.7	98.5	45	308.4 ± 4.5 *	95.2	42	302.7 ± 7.4 **	93.4	33
SD479	330.3 ± 5.1 **	47	322.3 ± 5.7	97.6	45	314.2 ± 5.1	95.1	40	313.5 ± 9.6	94.9	28
SD505	334.0 ± 5.6 **	46	333.0 ± 8.8	99.7	43	321.6 ± 6.4	96.3	37	312.9 ± 9.1	93.7	22
SD533	340.2 ± 6.3	43	338.0 ± 11.1	99.4	38	339.7 ± 9.8	99.9	33	330.0 ± 12.5	97.0	18
SD561	341.7 ± 7.6	43	339.7 ± 5.2	99.4	33	352.1 ± 12.6	103.0	30	348.7 ± 16.9	102.0	18
SD589	345.7 ± 6.7	41	341.0 ± 6.3	98.6	31	351.8 ± 12.8	101.8	26	357.1 ± 23.0	103.3	16

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

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

Date Report Requested: 04/05/2023
Time Report Requested: 13:43:19
Lab: Battelle

Females: Core Animals											
Phase Day	Treatment Groups (ppm)										
	0		50			100			200		
	Wt (g)	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N
SD617	342.9 ± 6.4	39	348.2 ± 6.5	101.5	30	349.0 ± 15.1	101.8	22	321.8 ± 15.3	93.8	11
SD645	344.6 ± 8.1	36	349.5 ± 10.9	101.4	26	342.4 ± 15.8	99.4	21	345.6 ± 28.5	100.3	9
SD673	349.7 ± 11.1	34	367.8 ± 17.2	105.2	25	347.1 ± 20.4	99.2	17	362.3 ± 49.7	103.6	7
SD701	350.6 ± 12.0	28	358.2 ± 17.9	102.2	19	368.7 ± 30.0	105.2	16	309.5 ± 20.9	88.3	5

Study Number: C20302B-03

Test Type: TOX

Route: Whole-Body Inhalation

Species/Strain: Rat/Harlan Sprague Dawley

I04: Mean Body Weight Summary

Test Compound: alpha-Pinene

CAS Number: 80-56-8

Date Report Requested: 04/05/2023

Time Report Requested: 13:43:19

Lab: Battelle

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 ****