

Study Number: C20302B-04
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Rat/Harlan Sprague Dawley

R06: Andrology Summary
Test Compound: alpha-Pinene
CAS Number: 80-56-8

Date Report Requested: 11/30/2020
Time Report Requested: 10:05:08
Lab: Battelle

Study Number: C20302B-04
Study Sex: Both
PWG Approval Date: See web page for date of PWG Approval
Version: v1.1.2

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			Male								
Generation	Terminal Sac	Cohort	Treatment Groups (ppm)								
			0		50		100		200		
	SD 91 - 91	Core	No. Examined	10		10		10		10	
			Testicular Spermatid Count (10^6)	157.0	± 4.2	141.8	± 11.7	160.0	± 8.5	155.3	± 6.7
			Testicular Spermatid Count per g Testis (10^6/g)	102.2	± 2.9	100.0	± 4.0	103.4	± 2.3	101.7	± 4.2
			Percent Motile Sperm	77.1	± 1.6	74.3	± 2.4	79.8	± 1.9	76.1	± 2.1
			Percent Progressively Motile Sperm	74.1	± 1.4	70.9	± 2.3	76.9	± 2.1	73.3	± 2.2
			Cauda Weight (g)	0.269 ± 0.006		0.234 ± 0.009 *		0.263 ± 0.010		0.262 ± 0.007	
			Cauda Epididymis Sperm Count (millions)	179.7	± 16.1	136.2	± 15.4	174.2	± 15.0	141.3	± 15.7
			Cauda Epididymis Sperm Count per g Cauda (10^6/g)	660.9	± 51.9	583.3	± 60.2	660.0	± 50.3	537.7	± 56.6
			Amplitude of Lateral Head Displacement (um)	17.47 ± 0.54		17.40 ± 0.23		17.22 ± 0.52		17.38 ± 0.43	
			Average Path Velocity (um/second)	150.24 ± 3.89		144.30 ± 3.12		143.43 ± 4.60		152.04 ± 5.13	
			Curvilinear Velocity (um/second)	322.69 ± 11.85		312.88 ± 7.21		313.29 ± 10.63		322.85 ± 13.67	
			Percent Linearity	36.3 ± 0.7		35.1 ± 0.7		34.4 ± 1.4		35.8 ± 1.0	
			Straight Line Velocity (um/second)	113.46 ± 2.85		106.55 ± 3.46		104.57 ± 5.57		113.96 ± 6.11	
			Percent Straightness	75.4 ± 0.7		72.7 ± 1.1		71.6 ± 2.4		73.4 ± 2.1	

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LEGEND

Data are displayed as mean $\pm$ SEM.

Statistical analysis performed by Jonckheere (trend) and then a pairwise test. Williams/Dunnett pairwise tests are used for organ weights, Shirley/Dunn pairwise tests are used for all other endpoints.

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 ****