

Experiment Number: 672807

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,3-Dimethyl-1-pentanol

CAS Number: 10143-23-4

Date Report Requested: 09/12/2018

Time Report Requested: 06:05:23

NTP Study Number:

672807

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	115 ± 9.3	118 ± 4.4	118 ± 8.5	115 ± 15.6	141 ± 1.0
10.0	100 ± 8.6	123 ± 8.1	116 ± 7.0		
33.0	99 ± 10.1	120 ± 5.0	110 ± 6.7		136 ± 6.8
100.0	105 ± 3.9	119 ± 9.1	105 ± 4.8	121 ± 6.5	130 ± 9.8
333.0	106 ± 6.3	114 ± 11.5	101 ± 5.8	123 ± 3.7	138 ± 13.3
666.0		129 ± 4.7			
1000.0	2 ± 0.9 ^s		89 ± 3.4	115 ± 4.5	145 ± 1.3
1666.0					80 ± 26.6
3333.0				2 ± 0.0 ^s	
10000.0				0 ± 0.0	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³			528 ± 21.0		
Positive Control ⁴	354 ± 30.3	385 ± 13.8			
Positive Control ⁵				547 ± 36.3	588 ± 25.5

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	120 ± 3.2	162 ± 8.2	138 ± 15.9
10.0			
33.0	129 ± 10.7		147 ± 6.1
100.0	120 ± 10.8	158 ± 3.5	142 ± 7.5
333.0	111 ± 1.3	135 ± 11.9	141 ± 3.5
666.0			
1000.0	96 ± 3.3	130 ± 9.0	123 ± 3.9
1666.0	85 ± 6.0		110 ± 9.7
3333.0		27 ± 25.2 ^s	
10000.0		0 ± 0.0	
Trial Summary	Negative	Negative	Negative
Positive Control ²	597 ± 27.1		
Positive Control ³		593 ± 18.9	493 ± 25.2
Positive Control ⁴			
Positive Control ⁵			

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	31 ± 1.7	21 ± 4.6	16 ± 2.4	22 ± 2.2	15 ± 2.4
10.0	30 ± 0.9	16 ± 1.0	26 ± 3.0		
33.0	27 ± 1.5	19 ± 1.2	19 ± 0.9	24 ± 2.7	14 ± 1.5
100.0	31 ± 0.9	21 ± 4.4	17 ± 2.3	23 ± 2.9	14 ± 1.2
333.0	25 ± 2.3	23 ± 3.1	18 ± 0.3	18 ± 1.8	11 ± 1.5
666.0		23 ± 3.5			
1000.0	16 ± 0.9 ^s		16 ± 3.2	15 ± 5.0	11 ± 3.8
1666.0				14 ± 7.0	9 ± 1.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					135 ± 2.9
Positive Control ⁴	466 ± 17.5	260 ± 0.3			
Positive Control ⁵			89 ± 6.9		
Positive Control ⁶				166 ± 12.3	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	22 ± 3.4
10.0	
33.0	15 ± 1.3
100.0	19 ± 1.2
333.0	13 ± 1.5
666.0	
1000.0	18 ± 1.5
1666.0	17 ± 1.3
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	474 ± 17.8
Positive Control ⁶	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	144 ± 14.7	205 ± 9.7	178 ± 16.0	195 ± 8.2	207 ± 2.3
10.0	181 ± 5.6	217 ± 3.7	158 ± 10.3		
33.0	179 ± 10.2	226 ± 2.3	172 ± 5.5	209 ± 11.7	204 ± 12.0
100.0	185 ± 9.8	222 ± 7.7	175 ± 5.6	204 ± 10.0	204 ± 10.4
333.0	181 ± 7.1	190 ± 16.8	168 ± 11.1	180 ± 13.1	184 ± 16.1
666.0		140 ± 7.0 ^s			
1000.0	123 ± 44.0		155 ± 8.5	193 ± 10.1	156 ± 19.0
1666.0				139 ± 6.2 ^s	160 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					295 ± 23.3
Positive Control ³			411 ± 9.9		
Positive Control ⁵				482 ± 9.9	
Positive Control ⁷	562 ± 18.2	503 ± 21.3			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	186 ± 7.8
10.0	
33.0	193 ± 9.0
100.0	169 ± 15.4
333.0	194 ± 5.0
666.0	
1000.0	182 ± 20.3
1666.0	169 ± 13.6
Trial Summary	Negative
Positive Control ²	
Positive Control ³	359 ± 4.6
Positive Control ⁵	
Positive Control ⁷	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	16 ± 2.0	16 ± 2.0	41 ± 3.4	26 ± 0.9	31 ± 1.5
10.0	17 ± 1.2	15 ± 0.9	31 ± 2.4		
33.0	16 ± 1.3	15 ± 2.1	25 ± 1.2		37 ± 4.0
100.0	15 ± 2.0	14 ± 0.6	30 ± 5.8	26 ± 2.9	33 ± 2.7
333.0	19 ± 0.3	15 ± 0.9	37 ± 3.2	32 ± 3.5	35 ± 5.4
666.0		20 ± 2.3			
1000.0	0 ± 0.0 ^s		37 ± 3.8	31 ± 3.5	29 ± 1.9
1666.0					31 ± 3.5
3333.0				2 ± 1.7 ^s	
10000.0				0 ± 0.0	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³			174 ± 14.2	163 ± 9.8	117 ± 9.1
Positive Control ⁸	574 ± 7.3	381 ± 12.7			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	38 ± 3.2	32 ± 2.5	33 ± 2.5
10.0			
33.0	39 ± 1.0		32 ± 3.5
100.0	33 ± 1.8	24 ± 2.1	25 ± 2.6
333.0	26 ± 1.5	29 ± 1.9	26 ± 1.2
666.0			
1000.0	29 ± 4.3	28 ± 5.4	36 ± 4.4
1666.0	39 ± 0.9		27 ± 4.4
3333.0		14 ± 3.5 ^s	
10000.0		0 ± 0.0	
Trial Summary	Negative	Negative	Negative
Positive Control ²	224 ± 18.1		
Positive Control ³		441 ± 26.6	280 ± 17.0
Positive Control ⁸			

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LEGEND

Values given as Mean or Mean \pm Standard Error Mean

The number of samples = 3, unless samples marked toxic or contaminated were excluded from mean and SEM calculations

CAS Number = Chemical Abstracts Service registry number

1: Vehicle Control: Dimethyl Sulfoxide

2: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****