

Experiment Number: 912346

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1-Octacosanol

CAS Number: 557-61-9

Date Report Requested: 09/17/2018

Time Report Requested: 02:09:09

NTP Study Number:

912346

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 10% Hamster S9
Vehicle Control ¹	175 ± 6.7	84 ± 2.6	103 ± 5.0	197 ± 8.7	102 ± 1.0
100.0	183 ± 3.1	86 ± 9.0	97 ± 6.1	191 ± 7.9	96 ± 2.3
333.0	177 ± 7.0	83 ± 3.0	118 ± 3.2	198 ± 8.2	116 ± 4.5
1000.0	170 ± 11.1	83 ± 3.8	96 ± 14.0	188 ± 4.2	106 ± 4.1
3333.0	160 ± 4.1 ^p	79 ± 2.6 ^p	119 ± 4.7	194 ± 7.5	115 ± 7.5
10000.0	185 ± 6.2 ^p	96 ± 7.3 ^p	88 ± 5.5 ^p	159 ± 9.5 ^p	104 ± 9.9 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					678 ± 43.5
Positive Control ³			349 ± 3.2		
Positive Control ⁴				381 ± 11.1	
Positive Control ⁵	618 ± 20.8	407 ± 19.0			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	180 ± 12.9
100.0	182 ± 8.7
333.0	196 ± 8.6
1000.0	197 ± 0.7
3333.0	193 ± 10.3
10000.0	169 ± 20.2 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	413 ± 42.2
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	11 ± 0.9	6 ± 1.5	9 ± 1.2	12 ± 4.4	13 ± 3.8
100.0	7 ± 0.3	7 ± 1.5	11 ± 2.8	12 ± 2.6	9 ± 1.0
333.0	8 ± 1.9	8 ± 0.9	13 ± 2.2	8 ± 1.7	5 ± 1.7
1000.0	9 ± 3.0	10 ± 1.9	10 ± 1.5	10 ± 1.7	7 ± 1.2
3333.0	9 ± 1.2 ^p	5 ± 2.2 ^p	7 ± 0.9	8 ± 2.1	7 ± 0.7
10000.0	8 ± 0.3 ^p	5 ± 0.7 ^p	9 ± 0.7 ^p	10 ± 1.5 ^p	9 ± 1.5 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					116 ± 4.1
Positive Control ⁴			88 ± 2.3		
Positive Control ⁵	533 ± 14.8	193 ± 23.3			
Positive Control ⁶				96 ± 7.0	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 0.9
100.0	9 ± 0.3
333.0	8 ± 0.3
1000.0	9 ± 1.8
3333.0	10 ± 1.2
10000.0	10 ± 1.2 ^p
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	166 ± 12.5
Positive Control ⁵	
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	162 ± 6.1	184 ± 9.5	204 ± 2.3	224 ± 6.7	204 ± 3.8
100.0	200 ± 11.4	223 ± 2.5	205 ± 9.4	252 ± 16.4	197 ± 8.4
333.0	197 ± 10.9	217 ± 5.0	207 ± 9.7	254 ± 10.7	183 ± 12.0
1000.0	201 ± 9.9	206 ± 3.7	193 ± 7.7	254 ± 4.5	194 ± 10.1
3333.0	179 ± 4.6 ^p	190 ± 8.1 ^p	199 ± 13.9	251 ± 21.7	217 ± 4.6
10000.0	171 ± 6.3 ^p	114 ± 32.4 ^p	166 ± 2.1 ^p	166 ± 9.8 ^p	179 ± 6.4 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					474 ± 18.0
Positive Control ³			359 ± 11.7		
Positive Control ⁴				366 ± 12.1	
Positive Control ⁷	434 ± 10.9	673 ± 90.3			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	175 ± 14.9
100.0	178 ± 7.8
333.0	197 ± 9.0
1000.0	189 ± 8.8
3333.0	174 ± 0.7
10000.0	177 ± 1.5 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	348 ± 22.0
Positive Control ⁴	
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 10% Hamster S9
Vehicle Control ¹	23 ± 1.3	28 ± 3.5	20 ± 2.6	25 ± 4.4	14 ± 3.3
100.0	20 ± 2.0	22 ± 4.9	20 ± 0.9	18 ± 1.7	22 ± 2.6
333.0	27 ± 2.7	23 ± 4.7	18 ± 0.6	22 ± 3.5	16 ± 1.3
1000.0	23 ± 4.6	28 ± 2.6	17 ± 3.2	23 ± 2.9	15 ± 2.0
3333.0	18 ± 1.2 ^p	15 ± 0.6 ^p	18 ± 0.9	27 ± 3.5	19 ± 1.2
10000.0	18 ± 1.5 ^p	17 ± 4.3 ^p	17 ± 1.5 ^p	17 ± 2.3 ^p	13 ± 2.0 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					566 ± 25.9
Positive Control ³			212 ± 17.6	107 ± 6.1	
Positive Control ⁸	992 ± 31.3	828 ± 22.3			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	22 ± 0.6
100.0	22 ± 2.1
333.0	18 ± 1.8
1000.0	21 ± 2.4
3333.0	20 ± 2.9
10000.0	17 ± 1.9 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	296 ± 5.8
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: 2.5 ug/Plate 2-Aminoanthracene

5: 5.0 ug/Plate Sodium Azide

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

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

p: Precipitate

** END OF REPORT **