

Experiment Number: 610573

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1,6-Dimethylnaphthalene

CAS Number: 575-43-9

Date Report Requested: 09/15/2018

Time Report Requested: 01:31:16

NTP Study Number:

610573

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	130 ± 4.7	146 ± 8.5	174 ± 8.2	147 ± 18.0	172 ± 9.0
0.1		149 ± 4.2			
0.3	145 ± 7.8	140 ± 10.3			
1.0	141 ± 6.7	154 ± 6.7			
3.0	142 ± 7.0	139 ± 7.8			
10.0	113 ± 7.1	97 ± 9.4	183 ± 3.3	149 ± 9.0	168 ± 17.2
16.0	71 ± 3.4 ^s				
33.0			195 ± 3.6	147 ± 7.5	169 ± 7.0
100.0			173 ± 12.4	170 ± 2.0	164 ± 3.8
333.0			128 ± 0.9	135 ± 15.0	133 ± 5.0
666.0			39 ± 7.8 ^s		51 ± 6.1 ^s
1000.0				0 ± 0.0 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					533 ± 41.9
Positive Control ³			521 ± 49.2		
Positive Control ⁴	450 ± 6.3	463 ± 9.7			
Positive Control ⁵				536 ± 14.4	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	149 ± 5.8
0.1	
0.3	
1.0	
3.0	
10.0	131 ± 9.5
16.0	
33.0	161 ± 4.6
100.0	149 ± 8.5
333.0	125 ± 16.6
666.0	
1000.0	0 ± 0.0 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	736 ± 21.3
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	33 ± 4.3	24 ± 1.5	11 ± 1.5	15 ± 1.3	10 ± 3.5
0.1		21 ± 2.1			
0.3	35 ± 3.0	21 ± 1.5			
1.0	31 ± 1.2	18 ± 4.0			
3.0	30 ± 2.0	20 ± 2.6			
10.0	18 ± 2.1	14 ± 0.9	13 ± 0.6	14 ± 2.0	10 ± 2.3
16.0	6 ± 0.6 ^s				
33.0			13 ± 2.0	17 ± 0.6	9 ± 0.7
100.0			8 ± 2.8	15 ± 1.2	5 ± 0.7
333.0			9 ± 1.7	15 ± 1.9	9 ± 1.7
666.0			0 ± 0.0 ^s		0 ± 0.0 ^s
1000.0				8 ± 2.0 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴	583 ± 19.2	327 ± 7.4			
Positive Control ³					313 ± 11.1
Positive Control ⁵			221 ± 13.9		
Positive Control ⁶				176 ± 14.2	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	16 ± 1.2
0.1	
0.3	
1.0	
3.0	
10.0	9 ± 2.1
16.0	
33.0	14 ± 2.1
100.0	5 ± 2.6
333.0	8 ± 1.5
666.0	
1000.0	4 ± 1.2 ^s
Trial Summary	Negative
Positive Control ⁴	
Positive Control ³	
Positive Control ⁵	633 ± 57.1
Positive Control ⁶	

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	13 ± 0.9	13 ± 2.3	13 ± 2.1
0.3	9 ± 1.5		
1.0	9 ± 1.0		
3.0	11 ± 0.7		
10.0	9 ± 3.5	11 ± 0.7	13 ± 0.6
16.0	5 ± 0.7 ^s		
33.0		12 ± 1.5	11 ± 1.5
100.0		16 ± 0.7	12 ± 1.9
333.0		13 ± 1.3	6 ± 0.9
1000.0		7 ± 2.0 ^s	4 ± 0.3 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ³			68 ± 5.6
Positive Control ⁵		44 ± 1.8	
Positive Control ⁷	216 ± 47.0		

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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	140 ± 4.7	155 ± 8.4	217 ± 1.8	208 ± 0.6	181 ± 11.3
0.1		179 ± 11.9			
0.3	155 ± 6.6	181 ± 4.3			
1.0	158 ± 10.1	191 ± 5.2			
3.0	171 ± 7.1	174 ± 5.9			
10.0	165 ± 6.4	165 ± 5.2	214 ± 12.3	178 ± 16.3	197 ± 4.5
16.0	121 ± 6.4 ^s				
33.0			218 ± 9.3	218 ± 4.6	209 ± 4.5
100.0			220 ± 15.0	219 ± 4.2	206 ± 3.2
333.0			166 ± 3.8	206 ± 1.7	175 ± 1.3
666.0			129 ± 9.3 ^s		86 ± 26.2 ^s
1000.0				138 ± 22.9	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					384 ± 3.8
Positive Control ³			376 ± 10.9		
Positive Control ⁵				421 ± 13.3	
Positive Control ⁷	742 ± 48.2	513 ± 91.3			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	164 ± 12.7
0.1	
0.3	
1.0	
3.0	
10.0	194 ± 3.5
16.0	
33.0	194 ± 4.2
100.0	174 ± 8.0
333.0	182 ± 4.3
666.0	
1000.0	51 ± 17.4 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	507 ± 40.6
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 10% Hamster S9
Vehicle Control ¹	21 ± 2.0	18 ± 2.6	30 ± 3.8	41 ± 3.5	38 ± 2.6
0.1		13 ± 2.0			
0.3	18 ± 1.2	17 ± 3.7			
1.0	16 ± 0.9	13 ± 0.6			
3.0	25 ± 2.5	18 ± 0.9			
10.0	19 ± 0.3	13 ± 0.9	31 ± 1.0	37 ± 2.1	40 ± 4.2
16.0	0 ± 0.0 ^s				
33.0			33 ± 2.3	44 ± 2.8	41 ± 5.0
100.0			33 ± 2.3	55 ± 2.5	43 ± 7.2
333.0			27 ± 0.9	41 ± 1.3	30 ± 2.1
666.0			14 ± 7.0 ^s		5 ± 0.6 ^s
1000.0				18 ± 6.9 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					402 ± 12.5
Positive Control ³			363 ± 9.0	147 ± 18.8	
Positive Control ⁸	543 ± 21.3	743 ± 17.7			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	35 ± 1.7
0.1	
0.3	
1.0	
3.0	
10.0	39 ± 1.5
16.0	
33.0	29 ± 4.5
100.0	38 ± 4.7
333.0	34 ± 3.3
666.0	
1000.0	8 ± 1.8 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	425 ± 22.2
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 ****