

Experiment Number: 756097

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Dimethylnaphthalene

CAS Number: 28804-88-8

Date Report Requested: 09/17/2018

Time Report Requested: 15:04:49

NTP Study Number:

756097

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	112 ± 8.3	89 ± 1.9	123 ± 11.0	148 ± 10.5	143 ± 4.4
0.1		96 ± 4.3	109 ± 2.9		
0.3	113 ± 1.2	89 ± 1.5	101 ± 7.2		
1.0	94 ± 8.1	92 ± 4.1	101 ± 2.0		
3.0	93 ± 5.5	103 ± 0.9	101 ± 2.6	130 ± 13.5	140 ± 7.8
6.0		84 ± 11.8	100 ± 5.2		
10.0	50 ± 6.1			152 ± 11.8	135 ± 12.3
16.0	14 ± 4.7 ^s				
33.0				149 ± 1.5	143 ± 3.8
100.0				144 ± 11.5	126 ± 6.7
333.0				116 ± 14.7	81 ± 7.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				331 ± 34.9	
Positive Control ⁴					365 ± 19.8
Positive Control ⁵	450 ± 15.7	612 ± 36.0	990 ± 25.5		

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	123 ± 6.1	113 ± 6.0
0.1		
0.3		
1.0		
3.0	131 ± 2.6	134 ± 4.3
6.0		
10.0	138 ± 6.1	133 ± 10.3
16.0		
33.0	134 ± 10.7	134 ± 2.8
100.0	140 ± 5.8	139 ± 5.5
333.0	122 ± 7.3	113 ± 6.1
Trial Summary	Negative	Negative
Positive Control ²	630 ± 18.8	
Positive Control ³		561 ± 12.1
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	9 ± 2.6	11 ± 2.2	11 ± 0.9	8 ± 1.2	13 ± 4.5
0.1	7 ± 2.4	9 ± 1.5			
0.3	8 ± 0.7	10 ± 2.0			
1.0	7 ± 1.3	9 ± 1.9			
3.0	11 ± 3.5	10 ± 2.4	9 ± 0.7	10 ± 2.3	13 ± 1.7
6.0	8 ± 0.7	8 ± 0.3			
10.0			15 ± 1.2	11 ± 1.5	9 ± 1.7
33.0			10 ± 1.2	7 ± 0.6	8 ± 0.9
100.0			13 ± 2.5	10 ± 1.9	13 ± 1.2
333.0			9 ± 2.0	6 ± 1.5	12 ± 1.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					87 ± 5.5
Positive Control ⁴			82 ± 4.8		
Positive Control ⁵	399 ± 15.3	965 ± 32.1			
Positive Control ⁶				64 ± 0.3	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 1.5
0.1	
0.3	
1.0	
3.0	12 ± 1.5
6.0	
10.0	11 ± 0.9
33.0	7 ± 1.8
100.0	9 ± 2.5
333.0	7 ± 1.2
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	102 ± 10.7
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	156 ± 7.8	164 ± 0.9	213 ± 8.0	179 ± 14.1	151 ± 7.2
0.1	155 ± 8.7	169 ± 4.0			
0.3	158 ± 3.3	155 ± 4.8			
1.0	159 ± 10.2	172 ± 6.8			
3.0	170 ± 2.7	170 ± 8.5	203 ± 9.8	177 ± 3.8	167 ± 2.3
6.0	170 ± 2.1	151 ± 2.6			
10.0			211 ± 9.8	161 ± 4.2	177 ± 10.7
33.0			199 ± 3.9	174 ± 8.7	183 ± 13.4
100.0			172 ± 19.0	178 ± 10.6	164 ± 4.7
333.0			158 ± 15.9	169 ± 9.0	163 ± 10.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					438 ± 8.7
Positive Control ³			331 ± 24.5		
Positive Control ⁴				279 ± 5.4	
Positive Control ⁷	473 ± 15.9	496 ± 23.2			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	141 ± 10.4
0.1	
0.3	
1.0	
3.0	135 ± 7.8
6.0	
10.0	151 ± 12.9
33.0	131 ± 4.6
100.0	137 ± 4.4
333.0	144 ± 5.4
Trial Summary	Negative
Positive Control ²	
Positive Control ³	380 ± 13.3
Positive Control ⁴	
Positive Control ⁷	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	15 ± 2.6	18 ± 1.7	17 ± 0.7	19 ± 3.7	18 ± 2.5
0.1		14 ± 1.8	10 ± 1.5		
0.3	12 ± 2.7	15 ± 1.2	14 ± 1.2		
1.0	15 ± 0.3	20 ± 1.7	14 ± 1.5		
3.0	18 ± 2.8	19 ± 0.3	12 ± 2.2	19 ± 3.7	18 ± 4.1
6.0		15 ± 3.3	18 ± 1.5		
10.0	8 ± 1.2			23 ± 1.5	20 ± 0.3
16.0	2 ± 0.7 ^s				
33.0				16 ± 1.2	27 ± 1.2
100.0				26 ± 0.9	23 ± 3.8
333.0				21 ± 1.5	23 ± 2.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				148 ± 19.0	82 ± 3.5
Positive Control ⁸	379 ± 16.8	442 ± 14.4	499 ± 17.5		

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	23 ± 2.4	20 ± 2.7
0.1		
0.3		
1.0		
3.0	17 ± 1.0	19 ± 2.8
6.0		
10.0	19 ± 3.2	24 ± 3.8
16.0		
33.0	25 ± 2.5	23 ± 2.3
100.0	23 ± 2.5	18 ± 3.3
333.0	24 ± 2.6	17 ± 2.0
Trial Summary	Negative	Negative
Positive Control ²	427 ± 11.0	
Positive Control ³		330 ± 15.3
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

s: Slight Toxicity

**** END OF REPORT ****