

Experiment Number: 404676

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1-Methylnaphthalene

CAS Number: 90-12-0

Date Report Requested: 09/14/2018

Time Report Requested: 17:05:01

NTP Study Number:

404676

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	95 ± 9.9	102 ± 2.1	126 ± 9.5	110 ± 7.2	117 ± 4.1
0.3	88 ± 7.9	98 ± 4.2			
1.0	91 ± 1.3	99 ± 2.0	123 ± 7.1	107 ± 2.9	117 ± 2.6
3.3	84 ± 3.2	122 ± 9.0	116 ± 11.2	110 ± 6.4	113 ± 4.9
10.0	82 ± 5.4	100 ± 2.6	122 ± 2.3	118 ± 4.6	115 ± 4.7
33.0	11 ± 4.4 ^s	83 ± 7.4	121 ± 3.1	118 ± 13.1	119 ± 7.4
100.0			91 ± 6.0	122 ± 5.7	99 ± 11.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					787 ± 14.5
Positive Control ³	559 ± 5.8	461 ± 20.2			
Positive Control ⁴			1175 ± 32.8		
Positive Control ⁵					
Positive Control ⁶				956 ± 21.8	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	91 ± 3.7
0.3	
1.0	95 ± 6.0
3.3	93 ± 1.3
10.0	95 ± 1.0
33.0	105 ± 7.5
100.0	106 ± 2.4
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	799 ± 32.1
Positive Control ⁶	

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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	12 ± 0.9	9 ± 2.0	7 ± 2.0	10 ± 1.7	9 ± 3.0
0.3	9 ± 1.2	7 ± 1.9			
1.0	11 ± 2.0	10 ± 1.8	7 ± 1.7	12 ± 1.0	12 ± 2.6
3.3	8 ± 1.5	12 ± 1.5	10 ± 2.1	10 ± 1.2	13 ± 1.3
10.0	8 ± 2.0	9 ± 1.2	10 ± 0.7	11 ± 2.6	11 ± 1.2
33.0	8 ± 0.0 ^s	6 ± 0.3	10 ± 0.5	12 ± 0.9	11 ± 1.7
100.0			7 ± 0.0	12 ± 0.9	7 ± 2.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					63 ± 4.7
Positive Control ³	379 ± 13.6	329 ± 23.9			
Positive Control ⁵					
Positive Control ⁶			230 ± 4.9	188 ± 8.5	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	13 ± 1.0
0.3	
1.0	16 ± 2.2
3.3	12 ± 1.2
10.0	15 ± 2.7
33.0	16 ± 2.3
100.0	15 ± 2.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	103 ± 3.2
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	110 ± 5.9	123 ± 10.7	129 ± 0.6	185 ± 6.5	135 ± 4.8
0.3	106 ± 9.7	120 ± 13.0			
1.0	133 ± 8.7	149 ± 11.7	164 ± 3.2	177 ± 2.9	135 ± 15.1
3.3	116 ± 4.9	123 ± 5.8	148 ± 7.9	201 ± 4.5	138 ± 10.7
10.0	122 ± 10.7	128 ± 5.9	139 ± 8.5	200 ± 20.4	137 ± 7.1
33.0	75 ± 1.7 ^s	88 ± 0.0	144 ± 5.2	178 ± 13.5	129 ± 2.8
100.0			90 ± 1.5	158 ± 47.2 ^s	84 ± 8.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					1505 ± 31.3
Positive Control ⁶			2668 ± 39.0	953 ± 9.1	
Positive Control ⁷	521 ± 11.3	376 ± 45.3			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	174 ± 15.5
0.3	
1.0	171 ± 4.6
3.3	164 ± 9.3
10.0	164 ± 11.9
33.0	167 ± 10.6
100.0	175 ± 7.0
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	1492 ± 7.5
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	13 ± 2.3	14 ± 0.7	22 ± 1.8	26 ± 3.9	23 ± 2.4
0.3	13 ± 1.7	14 ± 3.5			
1.0	9 ± 3.1	15 ± 4.1	22 ± 3.2	16 ± 1.8	18 ± 2.6
3.3	10 ± 2.6	14 ± 1.9	24 ± 3.3	23 ± 1.8	21 ± 3.4
10.0	9 ± 1.5	11 ± 1.8	19 ± 1.5	19 ± 4.2	23 ± 1.7
33.0	6 ± 2.3 ^s	7 ± 0.6	20 ± 1.8	27 ± 3.0	22 ± 2.9
100.0			18 ± 3.6	21 ± 1.2	15 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			493 ± 7.2		437 ± 62.4
Positive Control ⁸	388 ± 11.0	419 ± 9.6			
Positive Control ⁵				529 ± 25.9	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	17 ± 1.7
0.3	
1.0	16 ± 3.2
3.3	19 ± 4.0
10.0	15 ± 1.5
33.0	14 ± 2.6
100.0	17 ± 1.7
Trial Summary	Negative
Positive Control ²	
Positive Control ⁸	
Positive Control ⁵	788 ± 31.5

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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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 24.0 ug/Plate 9-Aminoacridine

8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****