

Experiment Number: 589230

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1,2-Dimethyl-4-nitrobenzene

CAS Number: 99-51-4

Date Report Requested: 09/14/2018

Time Report Requested: 17:47:10

NTP Study Number:

589230

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	118 ± 3.7	124 ± 8.1	161 ± 2.9	131 ± 10.5	147 ± 2.0
3.0	104 ± 11.0				
10.0	100 ± 5.1		162 ± 7.5		168 ± 8.1
33.0	109 ± 9.3	165 ± 16.5	165 ± 9.5	251 ± 9.8	209 ± 11.9
100.0	109 ± 11.5	170 ± 12.3	190 ± 8.6	271 ± 3.8	272 ± 14.7
333.0	123 ± 10.5 ^s	263 ± 31.2	278 ± 6.4	333 ± 5.2	330 ± 12.7
1000.0		498 ± 30.1	497 ± 20.9	497 ± 43.0	466 ± 24.8
1666.0		459 ± 154.8 ^s		587 ± 51.3 ^s	
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ²				792 ± 22.7	778 ± 32.0
Positive Control ³		533 ± 15.6	461 ± 58.8		
Positive Control ⁴	421 ± 7.8				

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	19 ± 0.9	16 ± 0.3	9 ± 1.2
3.0	18 ± 3.2		
10.0	16 ± 1.2		
33.0	20 ± 3.3	14 ± 1.8	9 ± 3.3
100.0	18 ± 0.3	13 ± 2.0	12 ± 0.6
333.0	0 ± 0.0 ^s	15 ± 1.7	13 ± 2.0
1000.0		10 ± 3.2	10 ± 1.8
1666.0		5 ± 2.2 ^s	5 ± 0.6 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ³			250 ± 2.6
Positive Control ⁴	326 ± 11.1		
Positive Control ⁵		129 ± 13.0	

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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	142 ± 7.0	182 ± 8.2	182 ± 8.2
3.0	153 ± 12.7		
10.0	160 ± 10.7		
33.0	166 ± 9.6	206 ± 7.4	177 ± 9.3
100.0	153 ± 7.6	195 ± 5.0	171 ± 14.7
333.0	0 ± 0.0 ^s	195 ± 13.8	182 ± 13.2
1000.0		181 ± 7.5	181 ± 18.3
1666.0		150 ± 5.8 ^s	171 ± 14.8 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			472 ± 5.3
Positive Control ³		419 ± 5.5	
Positive Control ⁶	798 ± 44.5		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	21 ± 0.3	28 ± 2.5	32 ± 0.6
3.0	19 ± 0.7		
10.0	19 ± 2.3		
33.0	17 ± 0.3	27 ± 4.4	41 ± 2.0
100.0	16 ± 1.0	32 ± 3.0	38 ± 1.2
333.0	0 ± 0.0 ^s	31 ± 0.7	31 ± 5.1
1000.0		29 ± 3.6	30 ± 3.5
1666.0		18 ± 2.0 ^s	29 ± 1.5 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			570 ± 41.5
Positive Control ³		340 ± 14.4	
Positive Control ⁷	613 ± 18.1		

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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: 50.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****