

Experiment Number: 170923

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**

G06: Ames Summary Data

Test Compound: 1,2-Dimethyl-3-nitrobenzene

CAS Number: 83-41-0

Date Report Requested: 09/13/2018

Time Report Requested: 03:16:09

NTP Study Number:

170923

Study Result:

Positive

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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	147 ± 4.3	112 ± 4.9	149 ± 5.5	135 ± 2.3	137 ± 11.3
3.0	107 ± 5.0	116 ± 10.4			
10.0	132 ± 14.8	111 ± 11.4		148 ± 11.7	
33.0	132 ± 12.2	108 ± 12.0	133 ± 5.2	128 ± 10.3	155 ± 16.9
100.0	138 ± 6.6	128 ± 1.2	119 ± 5.5	148 ± 5.2	157 ± 11.4
166.0		114 ± 13.7			
333.0	26 ± 24.5 ^s		135 ± 5.4	168 ± 10.0	187 ± 20.3
666.0				173 ± 9.5	
1000.0			65 ± 30.2 ^s		147 ± 19.4 ^s
3333.0			0 ± 0.0 ^s		4 ± 3.8 ^s
Trial Summary	Negative	Negative	Negative	Equivocal	Equivocal
Positive Control ²					1329 ± 24.8
Positive Control ³			1007 ± 35.3	311 ± 17.6	
Positive Control ⁴	694 ± 18.1	563 ± 14.7			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	106 ± 4.5	124 ± 3.7	127 ± 7.2
3.0			
10.0	119 ± 4.8	142 ± 8.1	156 ± 8.4
33.0	124 ± 2.0	140 ± 10.4	167 ± 13.6
100.0	146 ± 5.2	175 ± 5.8	187 ± 5.2
166.0			
333.0	174 ± 6.7	217 ± 10.0	240 ± 6.9
666.0	193 ± 9.6	347 ± 12.4	325 ± 10.7
1000.0			
3333.0			
Trial Summary	Positive	Positive	Positive
Positive Control ²	767 ± 21.1		
Positive Control ³		819 ± 28.9	508 ± 9.8
Positive Control ⁴			

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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	27 ± 3.6	23 ± 2.2	12 ± 0.6	13 ± 2.7	12 ± 1.5
3.0	30 ± 2.9	20 ± 3.8			
10.0	36 ± 5.4	23 ± 3.5		16 ± 2.6	
33.0	38 ± 1.2	22 ± 3.7	10 ± 2.2	10 ± 2.8	13 ± 2.0
100.0	42 ± 5.0	24 ± 0.3	17 ± 1.2	11 ± 3.2	9 ± 2.0
166.0		13 ± 4.4			
333.0	0 ± 0.3 ^s		12 ± 2.9	8 ± 2.1	15 ± 1.5
666.0				10 ± 2.9	
1000.0			5 ± 1.3 ^s		6 ± 2.9 ^s
3333.0			0 ± 0.0 ^s		0 ± 0.0 ^s
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ³					431 ± 5.5
Positive Control ⁴	795 ± 12.9	492 ± 5.9			
Positive Control ⁵			291 ± 3.4	96 ± 6.1	

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Test Compound: 1,2-Dimethyl-3-nitrobenzene

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Date Report Requested: 09/13/2018

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 2.5
3.0	
10.0	9 ± 2.4
33.0	9 ± 0.3
100.0	7 ± 2.7
166.0	
333.0	20 ± 3.7
666.0	18 ± 4.7
1000.0	
3333.0	
Trial Summary	Equivocal
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	477 ± 41.0

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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	188 ± 11.8	160 ± 15.0	161 ± 3.2	146 ± 12.4	172 ± 17.6
3.0	186 ± 3.8	166 ± 10.9			
10.0	180 ± 11.3	162 ± 7.4		162 ± 5.9	
33.0	184 ± 7.8	159 ± 3.6	199 ± 8.6	156 ± 7.3	160 ± 15.0
100.0	161 ± 7.4	174 ± 1.8	191 ± 15.1	162 ± 12.3	145 ± 11.1
166.0		138 ± 3.5 ^s			
333.0	40 ± 4.3 ^s		187 ± 4.9	128 ± 14.2	140 ± 13.9
666.0				125 ± 8.7	
1000.0			101 ± 7.0 ^s		50 ± 31.5 ^s
3333.0			0 ± 0.0 ^s		0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					910 ± 42.6
Positive Control ³			666 ± 36.9		
Positive Control ⁵				535 ± 37.3	
Positive Control ⁶		729 ± 59.7			
Positive Control ⁷	1514 ± 22.1				

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	175 ± 12.4
3.0	
10.0	147 ± 2.6
33.0	156 ± 15.2
100.0	163 ± 19.4
166.0	
333.0	143 ± 14.4
666.0	176 ± 13.4
1000.0	
3333.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	564 ± 26.2
Positive Control ⁵	
Positive Control ⁶	
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	27 ± 2.2	22 ± 1.7	38 ± 3.2	32 ± 4.5	37 ± 4.2
3.0	29 ± 4.8	20 ± 4.4			
10.0	25 ± 5.5	19 ± 2.0		28 ± 2.0	
33.0	19 ± 2.1	20 ± 4.7	35 ± 1.2	27 ± 3.5	40 ± 5.2
100.0	29 ± 3.5	21 ± 4.9	35 ± 1.8	29 ± 2.5	30 ± 6.1
166.0		20 ± 3.2			
333.0	9 ± 3.4 ^s		30 ± 2.0	25 ± 2.6	33 ± 3.3
666.0				24 ± 3.1	
1000.0			25 ± 3.1 ^s		10 ± 1.5 ^s
3333.0			0 ± 0.0 ^s		0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1061 ± 80.4
Positive Control ³			643 ± 2.3	167 ± 14.5	
Positive Control ⁸	973 ± 20.8	1088 ± 34.7			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	39 ± 3.8
3.0	
10.0	36 ± 3.3
33.0	32 ± 6.9
100.0	38 ± 3.5
166.0	
333.0	29 ± 4.4
666.0	36 ± 4.5
1000.0	
3333.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	527 ± 19.3
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: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 25.0 ug/Plate 9-Aminoacridine

7: 50.0 ug/Plate 9-Aminoacridine

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

s: Slight Toxicity

**** END OF REPORT ****