

Experiment Number: 166630

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1,3-Dimethyl-5-nitrobenzene

CAS Number: 99-12-7

Date Report Requested: 09/13/2018

Time Report Requested: 02:47:16

NTP Study Number:

166630

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 30% Rat S9
Vehicle Control ¹	132 ± 12.4	110 ± 11.6	128 ± 7.8	130 ± 15.1	149 ± 8.8
1.0	121 ± 15.4				
3.0	104 ± 3.8	91 ± 9.0			
10.0	109 ± 9.5	100 ± 1.5			
33.0	130 ± 7.9	89 ± 0.6	123 ± 4.2	139 ± 15.2	153 ± 6.4
100.0	105 ± 12.8	91 ± 4.5	129 ± 3.8	173 ± 3.7	166 ± 2.6
166.0		82 ± 1.5			
333.0			137 ± 3.8	182 ± 23.4	182 ± 5.4
1000.0			121 ± 4.2	170 ± 22.2	156 ± 5.2
1666.0			126 ± 1.0		150 ± 14.8
3333.0				71 ± 9.8	
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²					
Positive Control ³			579 ± 33.4	278 ± 3.2	339 ± 17.4
Positive Control ⁴	469 ± 3.5	299 ± 19.1			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	131 ± 15.8	148 ± 10.7	137 ± 13.0
1.0			
3.0			
10.0			
33.0	177 ± 6.7	227 ± 22.5	193 ± 11.4
100.0	177 ± 0.7	349 ± 29.5	303 ± 16.3
166.0			
333.0	177 ± 9.7	480 ± 9.9	397 ± 3.6
1000.0	164 ± 3.1	441 ± 40.4	370 ± 12.1
1666.0	167 ± 11.1		320 ± 22.9
3333.0		199 ± 17.4	
Trial Summary	Equivocal	Positive	Positive
Positive Control ²	901 ± 23.4		
Positive Control ³		625 ± 19.0	663 ± 33.7
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	21 ± 1.7	18 ± 1.5	10 ± 1.5	11 ± 2.9	7 ± 0.9
1.0	17 ± 1.5				
3.0	19 ± 0.9	14 ± 2.5			
10.0	16 ± 1.2	15 ± 2.9			
33.0	17 ± 2.5	12 ± 2.1	8 ± 1.2	14 ± 2.9	11 ± 0.9
100.0	17 ± 3.4	12 ± 2.3	9 ± 2.0	16 ± 2.8	13 ± 3.8
166.0		10 ± 1.2			
333.0			10 ± 1.5	11 ± 1.8	10 ± 1.5
1000.0			9 ± 1.3	9 ± 3.5	7 ± 0.7
1666.0			8 ± 0.9		8 ± 1.5
3333.0				7 ± 2.1	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					283 ± 14.8
Positive Control ⁴	511 ± 9.3	262 ± 28.9			
Positive Control ⁵			192 ± 3.3	91 ± 4.8	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 2.1
1.0	
3.0	
10.0	
33.0	17 ± 2.8
100.0	15 ± 3.3
166.0	
333.0	16 ± 3.1
1000.0	15 ± 0.3
1666.0	
3333.0	13 ± 5.6
Trial Summary	Negative
Positive Control ³	278 ± 3.2
Positive Control ⁴	
Positive Control ⁵	

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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	138 ± 11.9	199 ± 3.0	182 ± 13.0	189 ± 2.6	179 ± 9.5
1.0	140 ± 3.1				
3.0	142 ± 6.9	176 ± 14.3			
10.0	149 ± 7.2	180 ± 7.0			
33.0	150 ± 6.2	177 ± 4.5	181 ± 7.2	163 ± 13.9	180 ± 10.9
100.0	125 ± 5.8	156 ± 10.4	186 ± 6.1	163 ± 15.0	186 ± 12.7
166.0		62 ± 18.0 ^s			
333.0			194 ± 3.2	160 ± 14.4	176 ± 10.0
1000.0			164 ± 5.9	140 ± 32.1	157 ± 11.6
1666.0			122 ± 6.7		117 ± 12.0
3333.0				11 ± 5.4 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					666 ± 16.7
Positive Control ³			464 ± 25.0		
Positive Control ⁵				451 ± 8.4	
Positive Control ⁶	1033 ± 71.9	499 ± 20.6			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	165 ± 5.6	193 ± 4.6
1.0		
3.0		
10.0		
33.0	232 ± 15.7	236 ± 14.5
100.0	332 ± 28.4	297 ± 19.1
166.0		
333.0	357 ± 33.3	342 ± 30.3
1000.0	307 ± 63.6	275 ± 36.7
1666.0		233 ± 44.7
3333.0	63 ± 17.4 ^s	
Trial Summary	Positive	Weakly Positive
Positive Control ²		
Positive Control ³	461 ± 30.1	411 ± 5.0
Positive Control ⁵		
Positive Control ⁶		

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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	28 ± 1.3	27 ± 3.0	30 ± 3.1	16 ± 0.0	32 ± 2.2
1.0	22 ± 3.8				
3.0	20 ± 1.7	18 ± 1.9			
10.0	20 ± 2.0	20 ± 1.2			
33.0	24 ± 3.5	20 ± 3.2	30 ± 3.7	22 ± 6.6	25 ± 3.2
100.0	15 ± 2.1	15 ± 2.3	30 ± 2.8	22 ± 4.7	23 ± 2.8
166.0		7 ± 2.3 ^s			
333.0			32 ± 2.6	15 ± 2.2	23 ± 3.0
1000.0			29 ± 1.5	16 ± 2.9	24 ± 2.1
1666.0			22 ± 4.4		27 ± 1.5
3333.0				6 ± 3.8	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					606 ± 11.9
Positive Control ³			398 ± 17.1	147 ± 6.8	
Positive Control ⁷	704 ± 28.4	544 ± 30.1			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	23 ± 2.7
1.0	
3.0	
10.0	
33.0	27 ± 3.2
100.0	24 ± 3.0
166.0	
333.0	27 ± 4.1
1000.0	21 ± 1.5
1666.0	
3333.0	19 ± 3.6
Trial Summary	Negative
Positive Control ²	
Positive Control ³	453 ± 10.5
Positive Control ⁷	

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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 ****