

Experiment Number: 500824

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: m-Tolunitrile

CAS Number: 620-22-4

Date Report Requested: 09/12/2018

Time Report Requested: 05:08:41

NTP Study Number:

500824

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	106 ± 4.4	105 ± 2.7	103 ± 8.1	110 ± 8.0	117 ± 14.8
3.0		107 ± 3.2			
10.0		98 ± 6.8		105 ± 10.4	
33.0	95 ± 4.3	102 ± 3.6	99 ± 3.4	113 ± 0.9	103 ± 8.4
100.0	94 ± 8.1	96 ± 5.5	103 ± 6.7	130 ± 5.2	102 ± 12.5
333.0	94 ± 4.2	112 ± 11.9	112 ± 14.1	127 ± 9.0	102 ± 8.5
1000.0	0 ± 0.0 ^s		90 ± 9.6	113 ± 10.1	83 ± 7.0
3333.0	Toxic		0 ± 0.0 ^s		0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			796 ± 19.9	768 ± 19.1	1691 ± 68.4
Positive Control ³	302 ± 23.6	259 ± 7.8			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	140 ± 3.8
3.0	
10.0	124 ± 3.5
33.0	107 ± 4.4
100.0	124 ± 19.5
333.0	108 ± 3.4
1000.0	112 ± 10.3
3333.0	
Trial Summary	Negative
Positive Control ²	1729 ± 141.8
Positive Control ³	

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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	35 ± 2.8	29 ± 3.0	12 ± 2.0	11 ± 2.0	13 ± 0.3
3.0		22 ± 1.2			
10.0		20 ± 0.9		11 ± 3.0	
33.0	28 ± 0.6	24 ± 1.3	12 ± 0.3	11 ± 2.2	9 ± 1.3
100.0	29 ± 2.6	28 ± 2.7	13 ± 4.3	10 ± 0.7	11 ± 1.9
333.0	26 ± 3.2	27 ± 0.3	13 ± 0.9	12 ± 0.9	8 ± 1.0
1000.0	10 ± 9.7 ^s		7 ± 0.3	8 ± 4.9	7 ± 0.9
3333.0	Toxic		2 ± 1.5		2 ± 1.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	279 ± 12.4	247 ± 20.2			
Positive Control ⁴			183 ± 13.4	281 ± 11.1	515 ± 7.0

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	16 ± 3.0
3.0	
10.0	14 ± 1.5
33.0	10 ± 1.8
100.0	10 ± 1.2
333.0	11 ± 1.2
1000.0	5 ± 0.3
3333.0	
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	775 ± 41.4

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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	164 ± 13.0	160 ± 0.6	184 ± 21.5	202 ± 2.6	215 ± 11.7
3.0	179 ± 10.7				
10.0	180 ± 5.5			190 ± 7.6	
33.0	165 ± 5.9	152 ± 10.5	200 ± 13.4	212 ± 3.2	179 ± 10.3
100.0	179 ± 7.1	176 ± 8.2	212 ± 13.6	193 ± 5.9	181 ± 10.4
333.0	128 ± 8.4	159 ± 9.7	194 ± 8.9	191 ± 11.9	178 ± 6.1
1000.0		Toxic	181 ± 8.7	156 ± 6.7	171 ± 10.4
3333.0		Toxic	0 ± 0.0 ^s		7 ± 4.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			1360 ± 232.5	443 ± 1.2	1587 ± 146.1
Positive Control ⁵	623 ± 38.8	1202 ± 131.1			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	185 ± 3.8
3.0	
10.0	198 ± 15.4
33.0	189 ± 9.0
100.0	212 ± 6.6
333.0	166 ± 9.3
1000.0	175 ± 8.5
3333.0	
Trial Summary	Negative
Positive Control ⁴	627 ± 11.0
Positive Control ⁵	

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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	15 ± 1.2	16 ± 1.9	32 ± 4.4	21 ± 2.7	27 ± 3.5
3.0		13 ± 2.0			
10.0		15 ± 1.0		24 ± 3.4	
33.0	15 ± 1.9	19 ± 2.7	27 ± 3.8	24 ± 3.9	25 ± 2.3
100.0	16 ± 1.3	19 ± 1.8	21 ± 2.8	23 ± 3.0	20 ± 2.9
333.0	14 ± 0.7	15 ± 3.8	27 ± 4.7	26 ± 2.3	29 ± 0.9
1000.0	Toxic		25 ± 7.0	17 ± 3.5	0 ± 0.0 ^s
3333.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			500 ± 44.9	493 ± 36.2	1339 ± 38.2
Positive Control ⁶	746 ± 13.3	604 ± 24.4			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	22 ± 2.7
3.0	
10.0	23 ± 2.0
33.0	24 ± 3.5
100.0	25 ± 1.9
333.0	24 ± 2.3
1000.0	21 ± 3.2
3333.0	
Trial Summary	Negative
Positive Control ²	933 ± 30.7
Positive Control ⁶	

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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: 1.0 ug/Plate 2-Aminoanthracene
- 3: 1.0 ug/Plate Sodium Azide
- 4: 2.5 ug/Plate 2-Aminoanthracene
- 5: 50.0 ug/Plate 9-Aminoacridine
- 6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

** END OF REPORT **