

Experiment Number: 799310

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: m-Nitrophenol

CAS Number: 554-84-7

Date Report Requested: 09/15/2018

Time Report Requested: 08:37:06

NTP Study Number:

799310

Study Result:

Weakly Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	109 ± 4.7	116 ± 11.8	154 ± 0.7	131 ± 3.1	111 ± 2.1
3.0			140 ± 5.5		102 ± 7.5
10.0			137 ± 4.2		112 ± 5.5
33.0	95 ± 5.7	106 ± 4.9	149 ± 5.9	125 ± 0.9	109 ± 6.2
66.0		101 ± 5.3			
100.0	113 ± 11.7	92 ± 2.4	158 ± 8.0	147 ± 6.6	123 ± 2.5
166.0			162 ± 6.7		130 ± 3.5
333.0	155 ± 3.8	133 ± 3.0		45 ± 13.3	
666.0		128 ± 1.2			
1000.0	89 ± 7.7			3 ± 2.4	
1666.0	Toxic			0 ± 0.0 ^s	
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²			1477 ± 159.1	412 ± 17.2	576 ± 4.8
Positive Control ³	655 ± 17.1	361 ± 20.4			

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	123 ± 10.4	148 ± 11.3	121 ± 4.6	104 ± 2.3
3.0	126 ± 12.5	148 ± 3.1		74 ± 31.9
10.0	122 ± 5.7	145 ± 8.8		99 ± 3.5
33.0	130 ± 6.9	148 ± 4.1	121 ± 7.2	105 ± 6.2
66.0				109 ± 11.9
100.0	151 ± 2.8	134 ± 4.4	130 ± 2.2	122 ± 11.5
166.0	153 ± 16.9	115 ± 19.9		
333.0			1 ± 1.3	
666.0				
1000.0			0 ± 0.0	
1666.0			0 ± 0.0 ^s	
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	432 ± 7.5	380 ± 18.7	1411 ± 107.0	2023 ± 28.8
Positive Control ³				

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	16 ± 4.8	18 ± 2.4	6 ± 0.3	9 ± 2.5	9 ± 0.9
3.0					
10.0				9 ± 1.8	
33.0	16 ± 1.7	12 ± 3.1	10 ± 1.5	8 ± 2.2	6 ± 0.7
66.0		9 ± 0.3			
100.0	17 ± 3.6	12 ± 1.5	7 ± 0.6	7 ± 0.7	5 ± 1.0
333.0	11 ± 2.3	16 ± 0.3	7 ± 1.2	5 ± 1.5	1 ± 0.7
666.0		8 ± 1.5		4 ± 0.0	
1000.0	3 ± 1.2		4 ± 2.1		0 ± 0.0
1666.0	Toxic		Toxic		0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	469 ± 18.3	143 ± 11.9			
Positive Control ⁴			142 ± 7.2	168 ± 8.7	395 ± 13.9

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	5 ± 2.0
3.0	7 ± 2.7
10.0	6 ± 3.0
33.0	7 ± 1.2
66.0	7 ± 0.3
100.0	10 ± 1.8
333.0	
666.0	
1000.0	
1666.0	
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	296 ± 4.1

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	144 ± 4.3	151 ± 11.1	195 ± 14.2	176 ± 8.8	173 ± 8.1
3.0					
10.0				193 ± 8.9	
33.0	145 ± 11.1	143 ± 11.6	215 ± 13.4	193 ± 4.5	184 ± 20.8
66.0		148 ± 4.1			
100.0	165 ± 7.3	140 ± 7.6	205 ± 18.2	167 ± 10.0	161 ± 4.8
333.0	197 ± 13.9	173 ± 5.4	135 ± 7.0	115 ± 11.6	9 ± 2.3
666.0		113 ± 6.9		37 ± 2.6	
1000.0	73 ± 13.3		9 ± 3.4		0 ± 0.0 ^s
1666.0	Toxic		0 ± 0.0 ^s		Toxic
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ⁴			576 ± 62.2	884 ± 24.2	1421 ± 6.1
Positive Control ⁵	1013 ± 119.4	1353 ± 56.7			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	148 ± 11.4
3.0	170 ± 6.9
10.0	158 ± 16.4
33.0	160 ± 3.7
66.0	167 ± 11.3
100.0	176 ± 6.7
333.0	
666.0	
1000.0	
1666.0	
Trial Summary	Negative
Positive Control ⁴	1389 ± 17.5
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	19 ± 3.1	20 ± 0.9	30 ± 1.8	21 ± 2.6	30 ± 4.0
3.0					
10.0					31 ± 4.2
33.0	16 ± 1.7	23 ± 0.7	38 ± 4.0	21 ± 2.6	29 ± 4.2
66.0		19 ± 1.3	64 ± 0.6		
100.0	15 ± 3.8	20 ± 3.4	98 ± 8.7	25 ± 2.3	27 ± 4.7
333.0	45 ± 7.9	29 ± 0.6	103 ± 13.5	15 ± 1.7	35 ± 3.7
666.0		56 ± 3.5	98 ± 10.0		18 ± 4.2
1000.0	19 ± 2.8			4 ± 0.9	
1666.0	Toxic			0 ± 0.0 ^s	
Trial Summary	Equivocal	Equivocal	Positive	Negative	Negative
Positive Control ²				187 ± 24.8	315 ± 4.7
Positive Control ⁶	939 ± 32.2	1461 ± 22.3	1824 ± 19.1		

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	27 ± 2.1	33 ± 4.7
3.0		36 ± 3.2
10.0		31 ± 5.0
33.0	31 ± 3.3	27 ± 3.5
66.0		33 ± 4.8
100.0	28 ± 5.3	23 ± 1.5
333.0	5 ± 2.1	
666.0		
1000.0	0 ± 0.0	
1666.0	0 ± 0.0 ^s	
Trial Summary	Negative	Negative
Positive Control ²	663 ± 332.0	1476 ± 46.4
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 **