

Experiment Number: 277085

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 4-Nitrosophenol

CAS Number: 104-91-6

Date Report Requested: 09/11/2018

Time Report Requested: 14:24:24

NTP Study Number:

277085

Study Result:

Weakly Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	67 ± 4.9	85 ± 5.2	108 ± 6.6	84 ± 2.3	105 ± 4.9
3.3		93 ± 2.9	99 ± 7.5		
10.0	83 ± 6.0	89 ± 4.7	114 ± 1.3	93 ± 2.0	126 ± 7.0
33.0	77 ± 4.4	109 ± 7.2	117 ± 7.9	78 ± 4.0	107 ± 5.0
100.0	100 ± 1.2	124 ± 5.0	142 ± 2.7	85 ± 6.9	114 ± 9.0
247.0		186 ± 1.2	146 ± 5.9		
333.0	68 ± 7.5	79 ± 6.2 ^s	168 ± 18.3 ^s	97 ± 6.5	131 ± 6.3 ^p
444.0					153 ± 6.9 ^p
666.0	Toxic			194 ± 9.5 ^p	200 ± 34.2 ^p
Trial Summary	Equivocal	Weakly Positive	Weakly Positive	Equivocal	Weakly Positive
Positive Control ²					
Positive Control ³	240 ± 11.1	293 ± 14.1	287 ± 8.7		
Positive Control ⁴				272 ± 9.1	396 ± 11.7
Positive Control ⁵					
Positive Control ⁶					

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	131 ± 9.5	104 ± 1.5	130 ± 9.5	114 ± 10.5
3.3				
10.0	105 ± 6.8	109 ± 5.9	130 ± 5.5	125 ± 2.3
33.0	114 ± 0.9	103 ± 2.6	125 ± 4.7	124 ± 7.8
100.0	121 ± 6.0	112 ± 3.5	131 ± 8.7	122 ± 5.6
247.0				
333.0	117 ± 7.5 ^p	165 ± 9.6 ^p	159 ± 9.6 ^p	171 ± 6.9 ^p
444.0	118 ± 7.2 ^p	180 ± 3.8 ^p		159 ± 3.5 ^p
666.0	178 ± 9.7 ^p	157 ± 34.7 ^p	237 ± 11.0 ^p	255 ± 6.4 ^p
Trial Summary	Equivocal	Weakly Positive	Equivocal	Weakly Positive
Positive Control ²		451 ± 7.5	704 ± 23.5	
Positive Control ³				
Positive Control ⁴				
Positive Control ⁵				372 ± 19.6
Positive Control ⁶	388 ± 12.7			

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	13 ± 1.9	11 ± 2.3	11 ± 0.6
10.0	9 ± 0.9	10 ± 0.3	7 ± 1.5
33.0	15 ± 2.4	7 ± 0.6	9 ± 1.2
100.0	10 ± 1.2	5 ± 0.6	11 ± 0.7
333.0	9 ± 1.2	6 ± 1.7	9 ± 2.4 ^P
666.0	Toxic	10 ± 0.6 ^P	11 ± 1.0 ^P
Trial Summary	Negative	Negative	Negative
Positive Control ²			80 ± 7.5
Positive Control ³	112 ± 8.1		
Positive Control ⁶		39 ± 1.5	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	38 ± 0.6	122 ± 4.5	91 ± 3.2	81 ± 12.3	354 ± 9.0
3.3		92 ± 2.5	91 ± 3.5		
10.0	32 ± 6.2	114 ± 13.4	87 ± 0.6	93 ± 7.0	337 ± 4.2
33.0	61 ± 8.7	148 ± 1.3	90 ± 8.2	74 ± 1.9	335 ± 21.1
100.0	62 ± 5.5	138 ± 13.3	136 ± 11.6	73 ± 6.7	308 ± 30.7
247.0		131 ± 6.1	129 ± 7.4		
333.0	12 ± 5.8 ^s	93 ± 1.5 ^s	93 ± 8.1 ^s	82 ± 4.6	301 ± 7.2 ^p
444.0					294 ± 5.8 ^p
666.0	Toxic			100 ± 9.5 ^p	262 ± 18.0 ^p
Trial Summary	Weakly Positive	Negative	Equivocal	Negative	Negative
Positive Control ⁴					
Positive Control ⁶				212 ± 16.5	742 ± 21.1
Positive Control ⁷					
Positive Control ⁸	162 ± 3.9	236 ± 22.4			
Positive Control ⁹			730 ± 51.4		

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Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	218 ± 10.0	345 ± 15.0	315 ± 12.6	147 ± 8.0
3.3				
10.0	208 ± 16.0	339 ± 5.3	295 ± 9.0	153 ± 12.9
33.0	156 ± 5.3	310 ± 20.3	323 ± 9.1	157 ± 5.2
100.0	142 ± 9.3	336 ± 8.2	318 ± 11.8	156 ± 7.8
247.0				
333.0	147 ± 9.5	334 ± 3.3 ^p	358 ± 6.8	170 ± 18.5 ^p
444.0	136 ± 11.6	339 ± 7.7 ^p		188 ± 8.2 ^p
666.0	183 ± 10.5	173 ± 26.5 ^p	256 ± 14.0	197 ± 10.5 ^p
Trial Summary	Negative	Negative	Negative	Equivocal
Positive Control ⁴		778 ± 22.0	789 ± 47.9	
Positive Control ⁶				
Positive Control ⁷	402 ± 6.4			828 ± 19.1
Positive Control ⁸				
Positive Control ⁹				

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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	16 ± 0.7	13 ± 3.0	17 ± 1.2	20 ± 3.4	24 ± 0.6
3.3		20 ± 3.8	11 ± 1.2		
10.0	16 ± 1.7	12 ± 1.2	15 ± 5.0	23 ± 4.4	23 ± 1.9
33.0	20 ± 1.0	23 ± 3.2	24 ± 2.4	23 ± 1.3	24 ± 0.6
100.0	25 ± 3.1	27 ± 2.3	25 ± 2.6	20 ± 3.2	20 ± 1.5
247.0		49 ± 3.5	34 ± 4.1		
333.0	30 ± 3.1	Toxic	23 ± 4.6 ^s	22 ± 1.7	26 ± 4.1
444.0					27 ± 0.9
666.0	Toxic			30 ± 1.9 ^p	31 ± 0.6
Trial Summary	Equivocal	Positive	Weakly Positive	Negative	Negative
Positive Control ¹⁰					
Positive Control ²				53 ± 3.0	230 ± 7.4
Positive Control ⁵					
Positive Control ¹¹	157 ± 3.1	194 ± 11.3	123 ± 10.5		

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Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	22 ± 1.2	22 ± 1.8	30 ± 1.5	22 ± 1.8
3.3				
10.0	29 ± 3.7	23 ± 3.2	19 ± 0.0	27 ± 3.3
33.0	34 ± 1.7	28 ± 2.9	31 ± 0.3	29 ± 3.5
100.0	34 ± 3.9	34 ± 5.2	42 ± 1.2	34 ± 2.0
247.0				
333.0	24 ± 4.7 ^P	44 ± 2.5 ^P	42 ± 5.9 ^P	51 ± 2.6 ^P
444.0	22 ± 1.2 ^P	45 ± 6.5 ^P		44 ± 4.9 ^P
666.0	35 ± 3.4 ^P	36 ± 4.6 ^P	27 ± 2.1 ^P	59 ± 2.8 ^P
Trial Summary	Negative	Positive	Negative	Positive
Positive Control ¹⁰		202 ± 5.2	186 ± 4.1	
Positive Control ²				72 ± 13.6
Positive Control ⁵	83 ± 2.4			
Positive Control ¹¹				

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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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 2.5 ug/Plate 2-Aminoanthracene

8: 3.5 ug/Plate 9-Aminoacridine

9: 4.0 ug/Plate 9-Aminoacridine

10: 0.2 ug/Plate 2-Aminoanthracene

11: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****