

Experiment Number: 051920

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Nitrotriacetic acid trisodium monohydrate

CAS Number: 18662-53-8

Date Report Requested: 09/15/2018

Time Report Requested: 02:28:16

NTP Study Number:

051920

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	100 ± 3.2	103 ± 2.4	124 ± 5.8	118 ± 2.6	109 ± 2.2
100.0	94 ± 6.4	106 ± 2.6	105 ± 3.4	114 ± 5.0	107 ± 4.6
333.0	100 ± 4.6	89 ± 10.0	99 ± 3.9	121 ± 1.2	91 ± 8.1
1000.0	100 ± 6.6	105 ± 6.6	103 ± 6.4	129 ± 13.0	109 ± 6.0
3333.0	101 ± 12.8	105 ± 4.7	97 ± 2.6	108 ± 11.5	92 ± 2.6
10000.0	104 ± 5.2	111 ± 14.0	93 ± 5.6	108 ± 13.2 ^p	89 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					574 ± 31.7
Positive Control ³	409 ± 14.4	313 ± 5.9			
Positive Control ⁴			1351 ± 5.4		
Positive Control ⁵					
Positive Control ⁶				1436 ± 4.9	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	105 ± 10.6
100.0	112 ± 2.3
333.0	112 ± 3.0
1000.0	106 ± 9.8
3333.0	108 ± 6.4
10000.0	91 ± 6.1 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	875 ± 27.2
Positive Control ⁶	

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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	26 ± 3.0	24 ± 3.0	12 ± 1.7	13 ± 3.2	11 ± 1.5
100.0	30 ± 4.3	27 ± 3.7	12 ± 3.2	16 ± 4.2	13 ± 2.6
333.0	31 ± 2.3	26 ± 0.9	10 ± 0.7	16 ± 1.9	12 ± 3.5
1000.0	23 ± 0.7	20 ± 2.2	15 ± 3.3	13 ± 3.5	12 ± 1.5
3333.0	26 ± 5.5	27 ± 3.8	7 ± 2.3	11 ± 0.9	11 ± 1.2
10000.0	22 ± 2.0	15 ± 0.7	8 ± 0.9	12 ± 0.9	11 ± 3.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					39 ± 3.0
Positive Control ³	283 ± 3.7	219 ± 8.5			
Positive Control ⁵					
Positive Control ⁶			241 ± 14.4	300 ± 8.6	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 0.6
100.0	13 ± 1.2
333.0	14 ± 2.6
1000.0	11 ± 1.5
3333.0	12 ± 2.5
10000.0	10 ± 0.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	123 ± 6.8
Positive Control ⁶	

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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	106 ± 6.8	103 ± 2.4	128 ± 4.8	208 ± 2.6	103 ± 1.8
100.0	109 ± 11.5	104 ± 4.9	133 ± 3.5	176 ± 0.6	101 ± 4.6
333.0	101 ± 6.0	108 ± 6.0	120 ± 6.5	182 ± 4.8	95 ± 3.5
1000.0	101 ± 3.1	124 ± 6.7	119 ± 2.3	175 ± 4.7	107 ± 4.2
3333.0	107 ± 4.3	123 ± 9.2	117 ± 6.0	176 ± 11.3	105 ± 9.5
10000.0	111 ± 7.5	112 ± 2.3	95 ± 1.2	140 ± 5.8	84 ± 2.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					793 ± 29.0
Positive Control ⁶			2615 ± 38.6		
Positive Control ⁷				1397 ± 44.4	
Positive Control ⁸		437 ± 17.7			
Positive Control ⁹	280 ± 8.0				

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	138 ± 4.4
100.0	152 ± 5.0
333.0	165 ± 8.7
1000.0	143 ± 5.5
3333.0	159 ± 4.9
10000.0	138 ± 6.4
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁷	2095 ± 43.5
Positive Control ⁸	
Positive Control ⁹	

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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	20 ± 2.1	20 ± 2.6	31 ± 4.2	36 ± 3.8	22 ± 2.3
100.0	28 ± 4.8	19 ± 5.4	28 ± 2.2	37 ± 1.2	21 ± 2.2
333.0	34 ± 7.5	22 ± 2.1	39 ± 1.0	34 ± 0.9	24 ± 2.3
1000.0	30 ± 8.5	21 ± 1.7	31 ± 1.5	38 ± 2.3	23 ± 2.7
3333.0	22 ± 3.8	19 ± 1.0	35 ± 2.6	40 ± 1.5	21 ± 2.5
10000.0	24 ± 2.8	18 ± 1.9	33 ± 2.9	29 ± 1.5 ^p	18 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹⁰					295 ± 12.5
Positive Control ²			482 ± 8.2		
Positive Control ¹¹	341 ± 28.9	339 ± 8.2			
Positive Control ⁵				474 ± 14.0	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	32 ± 1.9
100.0	38 ± 1.9
333.0	37 ± 4.4
1000.0	33 ± 3.6
3333.0	37 ± 5.2
10000.0	27 ± 1.2 ^p
Trial Summary	Negative
Positive Control ¹⁰	
Positive Control ²	209 ± 2.2
Positive Control ¹¹	
Positive Control ⁵	

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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: Water

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: 8.0 ug/Plate 9-Aminoacridine

9: 16.0 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 ****