

Experiment Number: 324967

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**

G06: Ames Summary Data

Test Compound: **2-Methyl-1-nitroanthraquinone**

CAS Number: 129-15-7

Date Report Requested: 09/12/2018

Time Report Requested: 10:36:59

NTP Study Number:

324967

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	124 ± 11.0	124 ± 4.4	136 ± 9.8	153 ± 5.5	118 ± 3.7
1.0		154 ± 6.9		224 ± 56.0	
3.0		162 ± 11.1		146 ± 9.4	
10.0	332 ± 14.4	209 ± 7.6	243 ± 28.3	188 ± 16.4	461 ± 22.3
33.0	360 ± 6.7	243 ± 8.8	432 ± 30.8	668 ± 23.1	734 ± 42.2
100.0	333 ± 17.2 ^p	256 ± 5.6	610 ± 12.3 ^p	537 ± 58.9	789 ± 35.0 ^p
333.0	392 ± 28.7 ^p		794 ± 28.1 ^p		700 ± 36.1 ^p
1000.0	344 ± 56.3 ^p		464 ± 21.9 ^p		481 ± 52.3 ^p
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			786 ± 35.5	1136 ± 193.0	1784 ± 84.0
Positive Control ³	445 ± 4.2	505 ± 10.1			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	155 ± 9.3
1.0	137 ± 18.6
3.0	158 ± 12.4
10.0	358 ± 31.3
33.0	676 ± 33.5
100.0	863 ± 156.1
333.0	
1000.0	
Trial Summary	Positive
Positive Control ²	2617 ± 106.6
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	13 ± 0.3	19 ± 3.3	13 ± 1.0	7 ± 1.0	10 ± 1.8
10.0	12 ± 1.8	16 ± 2.6	9 ± 1.8	7 ± 0.7	12 ± 1.7
33.0	13 ± 0.0	12 ± 2.3	10 ± 2.7	12 ± 0.3	12 ± 2.7
100.0	11 ± 2.8 ^P	13 ± 0.3	13 ± 0.6 ^P	18 ± 1.3	13 ± 2.6 ^P
333.0	12 ± 2.1 ^P	12 ± 2.8 ^P	22 ± 3.3 ^P	25 ± 4.1 ^P	20 ± 0.6 ^P
1000.0	13 ± 1.7 ^P	8 ± 3.6 ^P	91 ± 9.1 ^P	54 ± 4.9 ^P	21 ± 3.2 ^P
Trial Summary	Negative	Negative	Positive	Positive	Negative
Positive Control ³	395 ± 22.6	523 ± 12.5			
Positive Control ⁴			256 ± 20.8	265 ± 10.7	432 ± 21.2

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.3
10.0	14 ± 3.3
33.0	11 ± 2.7
100.0	13 ± 4.3
333.0	22 ± 3.3 ^p
1000.0	20 ± 3.5 ^p
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	597 ± 3.9

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	4 ± 0.3	6 ± 1.0	5 ± 1.2	6 ± 0.9	9 ± 0.3
1.0				13 ± 2.4	
3.0				32 ± 7.0	
10.0	19 ± 2.9	11 ± 2.5	64 ± 5.5	133 ± 18.5	216 ± 60.0
33.0	19 ± 0.3	13 ± 2.2	156 ± 7.2	823 ± 161.9	490 ± 27.4
100.0	19 ± 2.7 ^p	7 ± 1.5	128 ± 4.8 ^p	1114 ± 19.9	557 ± 14.7 ^p
333.0	34 ± 7.4 ^p	22 ± 2.1 ^p	240 ± 9.9 ^p		323 ± 44.8 ^p
1000.0	60 ± 6.6 ^p	33 ± 2.6 ^p	546 ± 44.4 ^p		220 ± 30.4 ^p
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ⁴			111 ± 8.5	203 ± 23.4	510 ± 44.3
Positive Control ⁵	201 ± 58.9	162 ± 71.1			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 2.0
1.0	9 ± 2.2
3.0	29 ± 5.2
10.0	231 ± 26.3
33.0	543 ± 23.5
100.0	544 ± 49.8
333.0	
1000.0	
Trial Summary	Positive
Positive Control ⁴	455 ± 41.2
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	20 ± 3.7	28 ± 4.0	35 ± 4.4	31 ± 2.5	31 ± 3.1
1.0				34 ± 4.6	
3.0				39 ± 2.8	
10.0	46 ± 4.6	41 ± 2.2	59 ± 8.9	77 ± 8.5	82 ± 9.8
33.0	45 ± 2.0	52 ± 4.6	91 ± 5.8	212 ± 25.9	159 ± 3.4
100.0	62 ± 7.8 ^p	53 ± 1.5	161 ± 5.2 ^p	231 ± 16.7	189 ± 9.7 ^p
333.0	124 ± 1.0 ^p	85 ± 6.6 ^p	358 ± 25.2 ^p		264 ± 22.6 ^p
1000.0	203 ± 16.7 ^p	147 ± 9.2 ^p	556 ± 14.0 ^p		311 ± 37.8 ^p
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			399 ± 14.2	532 ± 34.5	1305 ± 62.3
Positive Control ⁶	727 ± 19.7	848 ± 37.3			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	25 ± 3.8
1.0	42 ± 6.2
3.0	41 ± 6.8
10.0	83 ± 9.0
33.0	230 ± 10.7
100.0	283 ± 38.6
333.0	
1000.0	
Trial Summary	Positive
Positive Control ²	1769 ± 56.9
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

p: Precipitate

**** END OF REPORT ****