

Experiment Number: 430018

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

G06: Ames Summary Data

Test Compound: **9-Nitroanthracene**

CAS Number: **602-60-8**

Date Report Requested: **09/15/2018**

Time Report Requested: **06:38:28**

NTP Study Number:

430018

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	121 ± 3.7	105 ± 5.5	97 ± 5.0	146 ± 0.9	88 ± 11.2
10.0	194 ± 2.6	158 ± 3.0	159 ± 3.8	211 ± 16.0	186 ± 3.2
33.0	190 ± 3.5	160 ± 4.8	271 ± 6.1	291 ± 11.3	463 ± 16.9
100.0	211 ± 9.5	198 ± 1.5	406 ± 42.4	523 ± 6.2	815 ± 21.1
333.0	228 ± 8.2 ^P	237 ± 16.8 ^P	446 ± 14.8	595 ± 34.5	1075 ± 32.2
1000.0	282 ± 6.0 ^S	298 ± 17.6 ^S	791 ± 75.5	889 ± 30.8	1110 ± 82.9
Trial Summary	Weakly Positive	Positive	Positive	Positive	Positive
Positive Control ²	214 ± 8.0	407 ± 13.4			
Positive Control ³				313 ± 18.5	399 ± 13.2
Positive Control ⁴			256 ± 7.8		

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	115 ± 12.9
10.0	172 ± 3.2
33.0	684 ± 14.0
100.0	831 ± 58.0
333.0	901 ± 70.0
1000.0	967 ± 99.0
Trial Summary	Positive
Positive Control ²	
Positive Control ³	1094 ± 73.5
Positive Control ⁴	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	17 ± 3.5	30 ± 3.5	14 ± 4.0	18 ± 2.3	22 ± 3.2
10.0	29 ± 5.5	40 ± 1.5	28 ± 5.2	33 ± 2.6	45 ± 4.8
33.0	39 ± 3.5	41 ± 3.2	35 ± 2.8	95 ± 2.0	143 ± 10.1
100.0	49 ± 0.5	58 ± 5.8	45 ± 4.3	263 ± 10.4	238 ± 41.7
333.0	62 ± 4.4	64 ± 2.6 ^p	62 ± 6.2 ^p	304 ± 35.3	293 ± 25.6
1000.0	93 ± 10.3 ^p	90 ± 9.0 ^s	75 ± 1.2 ^s	553 ± 29.5	709 ± 79.9 ^s
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ⁵					
Positive Control ⁶	215 ± 7.8	115 ± 2.2	122 ± 7.8		
Positive Control ³				79 ± 1.7	96 ± 16.4

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	20 ± 0.9	22 ± 1.3
10.0	16 ± 3.2	54 ± 0.9
33.0	229 ± 30.5	301 ± 9.3
100.0	461 ± 34.6	595 ± 53.4
333.0	930 ± 71.3	647 ± 79.4
1000.0	1206 ± 11.7	763 ± 59.0
Trial Summary	Positive	Positive
Positive Control ⁵	90 ± 4.3	86 ± 7.7
Positive Control ⁶		
Positive Control ³		

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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: 0.5 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 0.4 ug/Plate 2-Aminoanthracene

6: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****