

Experiment Number: 254993

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

**G06: Ames Summary Data**

Test Compound: **2-Aminoanthracene**

CAS Number: **613-13-8**

Date Report Requested: **09/11/2018**

Time Report Requested: **02:11:43**

**NTP Study Number:**

254993

**Study Result:**

Positive

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## Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	107 ± 9.8	128 ± 4.7	135 ± 3.8	109 ± 9.0	130 ± 3.5
0.03		124 ± 14.2	104 ± 7.2	139 ± 2.1	109 ± 4.0
0.3		203 ± 3.7	154 ± 7.8	268 ± 6.6	240 ± 11.4
3.3	126 ± 13.0	2192 ± 68.7	2117 ± 128.0	1919 ± 70.9	2200 ± 65.1
10.0	128 ± 4.8	431 ± 51.1 <sup>s</sup>	437 ± 30.3 <sup>s</sup>	277 ± 45.2 <sup>s</sup>	265 ± 8.4 <sup>s</sup>
33.3	129 ± 12.1				
100.0	154 ± 12.7				
333.3	146 ± 6.8 <sup>p</sup>				
Trial Summary	Equivocal	Positive	Positive	Positive	Positive
1.02		498 ± 19.2	997 ± 34.8	1511 ± 44.1	2304 ± 86.7
Positive Control <sup>3</sup>	520 ± 8.0				

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## Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	13 ± 2.3	11 ± 0.9	12 ± 1.5	12 ± 1.5	11 ± 3.5
0.03		16 ± 1.3	13 ± 2.3	17 ± 3.4	13 ± 2.7
0.3		38 ± 6.1	22 ± 1.2	58 ± 4.3	35 ± 2.5
3.3	15 ± 2.0	244 ± 18.2	274 ± 5.9	198 ± 18.5	215 ± 8.8
10.0	13 ± 0.7	253 ± 34.6 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	5 ± 1.5 <sup>s</sup>	0 ± 0.0 <sup>s</sup>
33.3	21 ± 2.3				
100.0	20 ± 2.3				
333.3	22 ± 2.3 <sup>p</sup>				
Trial Summary	Equivocal	Positive	Positive	Positive	Positive
1.02		Positive Control <sup>3</sup>	390 ± 4.2		
		Positive Control <sup>4</sup>		221 ± 12.5	246 ± 8.5

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## Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	9 ± 3.5	6 ± 0.7	6 ± 1.2	9 ± 2.0	8 ± 1.3
0.03		12 ± 1.8	5 ± 2.0	6 ± 0.3	10 ± 3.2
0.3		11 ± 1.5	4 ± 0.7	11 ± 1.3	15 ± 3.2
3.3	14 ± 0.7	181 ± 3.1	158 ± 44.0	225 ± 3.5	414 ± 30.4
10.0	11 ± 2.3	17 ± 12.3 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>
33.3	17 ± 0.9				
100.0	14 ± 0.9				
333.3	18 ± 2.0 <sup>p</sup>				
Trial Summary	Equivocal	Positive	Positive	Positive	Positive
1.02		Positive Control <sup>4</sup>		99 ± 7.8	239 ± 24.6
243 ± 26.3	411 ± 10.3	Positive Control <sup>5</sup>	870 ± 97.6		

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Test Compound: 2-Aminoanthracene

CAS Number: 613-13-8

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## Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	25 ± 0.9	26 ± 3.5	18 ± 2.3	28 ± 5.6	23 ± 1.8
0.03		46 ± 5.3	28 ± 1.0	44 ± 4.5	19 ± 1.2
0.3		104 ± 5.8	23 ± 2.7	130 ± 30.6	57 ± 3.8
3.3	26 ± 4.3	1727 ± 65.8	943 ± 58.0	1951 ± 69.2	1637 ± 84.6
10.0	30 ± 3.7	420 ± 40.3 <sup>s</sup>	558 ± 54.4	147 ± 6.9 <sup>s</sup>	106 ± 22.6 <sup>s</sup>
33.3	45 ± 2.5				
100.0	41 ± 4.6				
333.3	42 ± 6.8 <sup>p</sup>				
Trial Summary	Equivocal	Positive	Positive	Positive	Positive
1.02		367 ± 8.1	249 ± 26.4	1086 ± 57.3	823 ± 92.0
Positive Control <sup>6</sup>	741 ± 16.9				

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**LEGEND**

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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

s: Slight Toxicity

**\*\* END OF REPORT \*\***