

Experiment Number: **G10912**

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

**G06: Ames Summary Data**

Test Compound: **2-Aminoanthracene**

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

Date Report Requested: **09/16/2018**

Time Report Requested: **03:14:56**

**NTP Study Number:**

G10912

**Study Result:**

Positive

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## G06: Ames Summary Data

Test Compound: 2-Aminoanthracene

CAS Number: 613-13-8

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	108 ± 5.6	127 ± 3.7	90 ± 5.0	99 ± 7.2	87 ± 3.5
1.0					188 ± 9.9
2.0					194 ± 84.0
Control Group				263 ± 29.6	606 ± 2.3
10.0		140 ± 6.6	273 ± 28.3		806 ± 24.6
20.0	140 ± 17.5	138 ± 10.1	239 ± 21.1	227 ± 33.8	582 ± 45.2
50.0	136 ± 19.2	148 ± 4.8	237 ± 20.1	296 ± 18.5	496 ± 73.0
200.0	151 ± 11.6	138 ± 5.6	304 ± 17.6	269 ± 44.8	
500.0	154 ± 8.0	146 ± 9.7	389 ± 44.6	539 ± 55.0	
2000.0	122 ± 5.5	Toxic	352 ± 64.4	407 ± 117.8	
6000.0	Toxic				
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control <sup>2</sup>	682 ± 46.6	764 ± 47.5		671 ± 7.2	
Positive Control <sup>3</sup>			758 ± 19.2		
Positive Control <sup>4</sup>					

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**Strain: TA100**

<b>Dose (ug/Plate)</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>
Vehicle Control <sup>1</sup>	98 ± 0.7	89 ± 9.5	105 ± 9.0
1.0	196 ± 4.0	1325 ± 36.0	852 ± 57.6
2.0	431 ± 37.9	2591 ± 141.5	1792 ± 48.3
Control Group	1034 ± 101.2	3766 ± 129.6	3722 ± 97.7
10.0	1144 ± 34.0	3433 ± 84.3	3418 ± 260.8
20.0	1135 ± 69.0	3307 ± 89.6	3039 ± 121.7
50.0	1095 ± 79.5	3263 ± 128.0	2568 ± 160.9
200.0			
500.0			
2000.0			
6000.0			
Trial Summary	Positive	Positive	Positive
Positive Control <sup>2</sup>			
Positive Control <sup>3</sup>			
Positive Control <sup>4</sup>			2216 ± 69.5

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	10 ± 1.7	28 ± 3.5	24 ± 1.9	25 ± 3.2	31 ± 4.4
1.0					141 ± 5.7
Control Group					331 ± 9.5
5.0				79 ± 13.6	749 ± 47.2
10.0		24 ± 1.2	106 ± 14.0		1435 ± 21.3
20.0	27 ± 2.9	26 ± 3.2	93 ± 13.9	88 ± 19.0	1226 ± 47.1
50.0	26 ± 2.0	36 ± 2.1	103 ± 15.3	103 ± 6.4	1228 ± 104.2
200.0	29 ± 4.3	29 ± 5.5	89 ± 17.6	97 ± 5.6	
500.0	23 ± 3.2	33 ± 4.5	134 ± 15.5	366 ± 100.8	
2000.0	64 ± 10.5	Toxic	131 ± 28.2	605 ± 167.3	
6000.0	Toxic				
Trial Summary	Positive	Negative	Positive	Positive	Positive
Positive Control <sup>5</sup>	513 ± 58.2	474 ± 83.5	676 ± 41.2	529 ± 18.2	

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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>
Vehicle Control <sup>1</sup>	29 ± 2.1	30 ± 3.3	27 ± 1.9
1.0	130 ± 10.9	1141 ± 19.6	684 ± 7.6
Control Group	387 ± 58.6	2292 ± 71.8	1659 ± 42.2
5.0	1074 ± 5.0	4402 ± 295.5	4387 ± 209.6
10.0	1696 ± 36.2	4511 ± 148.6	5385 ± 170.5
20.0	1470 ± 107.3	4903 ± 134.1	5104 ± 155.1
50.0	1731 ± 9.2	4965 ± 63.1	4203 ± 272.9
200.0			
500.0			
2000.0			
6000.0			
Trial Summary	Positive	Positive	Positive
Positive Control <sup>5</sup>			

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Test Compound: 2-Aminoanthracene

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**Strain: E. coli WP2 uvrA pKM101**

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	117 ± 1.5	119 ± 10.7	135 ± 10.4	162 ± 16.8	144 ± 6.1
1.0	115 ± 12.1				
2.0	105 ± 9.4	110 ± 9.7			
5.0	101 ± 7.9	117 ± 3.5	145 ± 6.6	161 ± 13.6	193 ± 1.0
10.0	117 ± 1.2	139 ± 2.5	156 ± 2.0		358 ± 19.8
20.0	129 ± 6.7	136 ± 11.7	152 ± 3.5	161 ± 11.1	465 ± 18.1
50.0	134 ± 5.9	115 ± 10.7	169 ± 6.9	156 ± 19.1	501 ± 15.5
200.0		127 ± 10.5	163 ± 5.9	161 ± 5.7	Toxic
500.0			172 ± 2.5	166 ± 9.6	Toxic
2000.0				184 ± 36.1	
Trial Summary	Negative	Negative	Negative	Negative	Positive
Positive Control <sup>6</sup>	955 ± 35.1	973 ± 95.6	1326 ± 69.6	1050 ± 48.5	

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**Strain: E. coli WP2 uvrA pKM101**

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	133 ± 5.0	193 ± 9.0	174 ± 11.0
1.0			
2.0	157 ± 4.6		
5.0	228 ± 9.8	818 ± 62.6	539 ± 2.7
10.0	377 ± 40.2	1188 ± 34.8	865 ± 77.4
20.0	398 ± 28.8	1284 ± 36.4	861 ± 179.8
50.0	332 ± 16.2	1247 ± 29.4	1305 ± 96.5
200.0	490 ± 40.6	1240 ± 55.9	1324 ± 56.9
500.0		1691 ± 34.1	1300 ± 5.2
2000.0			
Trial Summary	Positive	Positive	Positive
Positive Control <sup>6</sup>			

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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 Sodium Azide
- 3: 1.0 ug/Plate 2-Nitrofluorene
- 4: 2.5 ug/Plate 2-Aminoanthracene
- 5: 3.0 ug/Plate 2-Nitrofluorene
- 6: 100.0 ug/Plate Methyl Methane Sulfonate

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