

Experiment Number: 770142

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

**G06: Ames Summary Data**

Test Compound: **6-Methylquinoline**

CAS Number: **91-62-3**

Date Report Requested: **09/17/2018**

Time Report Requested: **20:44:20**

**NTP Study Number:**

770142

**Study Result:**

Positive

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## G06: Ames Summary Data

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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 <sup>1</sup>	155 ± 8.0	124 ± 5.4	178 ± 0.7	167 ± 3.3	180 ± 3.9
3.0			197 ± 12.7	174 ± 4.3	
10.0		158 ± 2.6	192 ± 4.4	192 ± 2.7	239 ± 6.6
33.0	155 ± 5.9	149 ± 5.5	275 ± 3.2	271 ± 16.3	227 ± 10.2
66.0				253 ± 14.3	
100.0	150 ± 1.0	142 ± 8.8	643 ± 7.4	574 ± 46.0	563 ± 6.9
166.0					862 ± 36.1
333.0	132 ± 4.8	136 ± 9.4	895 ± 41.4		1462 ± 50.7
666.0		132 ± 5.2			
1000.0	30 ± 8.1				
1666.0	0 ± 0.0 <sup>s</sup>				
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control <sup>2</sup>					593 ± 21.6
Positive Control <sup>3</sup>	328 ± 1.2	378 ± 25.8			
Positive Control <sup>4</sup>			614 ± 15.8	527 ± 27.3	

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	174 ± 4.0
3.0	178 ± 13.0
10.0	165 ± 13.3
33.0	203 ± 10.1
66.0	218 ± 11.8
100.0	440 ± 30.7
166.0	
333.0	
666.0	
1000.0	
1666.0	
Trial Summary	Positive
Positive Control <sup>2</sup>	600 ± 14.6
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	19 ± 3.5	20 ± 1.9	27 ± 0.9	28 ± 4.3	43 ± 2.9
3.0					34 ± 2.3
10.0		20 ± 3.2			33 ± 1.5
33.0	15 ± 1.9	23 ± 2.3			43 ± 3.8
100.0	22 ± 5.1	20 ± 0.9	43 ± 3.6	44 ± 0.7	38 ± 3.6
166.0			37 ± 2.8	51 ± 7.1	
333.0	18 ± 2.5	19 ± 2.9	43 ± 1.7	48 ± 3.0	82 ± 11.3
666.0		19 ± 4.1	28 ± 3.7	40 ± 7.2	
1000.0	2 ± 1.7 <sup>s</sup>		16 ± 3.0 <sup>s</sup>	22 ± 4.7	
1666.0	0 ± 0.0 <sup>s</sup>				
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control <sup>2</sup>			389 ± 11.7	395 ± 26.4	134 ± 8.5
Positive Control <sup>4</sup>					
Positive Control <sup>5</sup>	401 ± 22.5	592 ± 30.3			

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## Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	51 ± 3.8	46 ± 3.0	37 ± 3.8	23 ± 1.2
3.0				
10.0			38 ± 4.3	31 ± 5.2
33.0			35 ± 4.4	32 ± 2.9
100.0	73 ± 5.9	80 ± 5.9	86 ± 12.8	62 ± 1.5
166.0	79 ± 3.4	95 ± 3.8	144 ± 13.6	92 ± 5.5
333.0	66 ± 1.2	82 ± 3.3	227 ± 12.7	205 ± 7.4
666.0	74 ± 3.5	59 ± 2.2		
1000.0	32 ± 3.5	54 ± 11.1		
1666.0				
Trial Summary	Negative	Weakly Positive	Positive	Positive
Positive Control <sup>2</sup>	118 ± 5.5		364 ± 18.9	316 ± 5.9
Positive Control <sup>4</sup>		110 ± 2.7		
Positive Control <sup>5</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 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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