

Experiment Number: 777291

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

**G06: Ames Summary Data**

Test Compound: **p-Quinone**

CAS Number: **106-51-4**

Date Report Requested: **09/18/2018**

Time Report Requested: **00:50:41**

**NTP Study Number:**

777291

**Study Result:**

Negative

Experiment Number: 777291

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: p-Quinone

CAS Number: 106-51-4

Date Report Requested: 09/18/2018

Time Report Requested: 00:50:41

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	120 ± 0.6	131 ± 12.7	114 ± 6.4	111 ± 5.7	158 ± 3.7
0.01		126 ± 2.5			
0.03	120 ± 3.4	137 ± 7.5			
0.1	99 ± 5.5	127 ± 11.1			
0.3	115 ± 11.6	126 ± 11.3			
1.0	117 ± 5.4 <sup>s</sup>	153 ± 11.6 <sup>s</sup>	110 ± 10.3	114 ± 7.7	169 ± 4.7
2.2	Toxic				
3.3			126 ± 4.4	118 ± 12.1	174 ± 5.5
10.0			107 ± 6.9	113 ± 8.6	174 ± 5.2
33.0			125 ± 2.9	125 ± 9.8	179 ± 7.5
50.0					
66.0			123 ± 10.9 <sup>s</sup>	161 ± 0.9 <sup>s</sup>	149 ± 24.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control <sup>2</sup>					1108 ± 22.4
Positive Control <sup>3</sup>			1148 ± 38.9	715 ± 13.7	
Positive Control <sup>4</sup>	926 ± 16.9	1075 ± 34.7			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	125 ± 6.8
0.01	
0.03	
0.1	
0.3	
1.0	120 ± 8.2
2.2	
3.3	123 ± 11.6
10.0	125 ± 4.7
33.0	154 ± 7.1
50.0	139 ± 2.6 <sup>s</sup>
66.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	1140 ± 21.7
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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## G06: Ames Summary Data

Test Compound: p-Quinone

CAS Number: 106-51-4

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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 <sup>1</sup>	23 ± 4.6	26 ± 2.0	15 ± 3.7	12 ± 1.5	18 ± 2.5
0.01		29 ± 2.5			
0.03	20 ± 2.8	27 ± 0.3			
0.1	22 ± 3.3	28 ± 0.9			
0.3	22 ± 2.7	23 ± 2.0			
1.0	14 ± 0.6 <sup>s</sup>	16 ± 1.2 <sup>s</sup>	11 ± 1.2	11 ± 1.2	14 ± 1.9
2.2	Toxic				
3.3			11 ± 1.0	10 ± 2.8	15 ± 3.8
10.0			13 ± 0.7	14 ± 1.5	15 ± 3.2
33.0			13 ± 1.2	14 ± 1.5	22 ± 1.5
50.0					
66.0			11 ± 2.8 <sup>s</sup>	13 ± 0.9	4 ± 1.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					104 ± 9.5
Positive Control <sup>3</sup>			103 ± 6.9	79 ± 4.3	
Positive Control <sup>4</sup>	695 ± 16.3	1065 ± 31.9			

Experiment Number: 777291

Test Type: Genetic Toxicology - Bacterial  
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G06: Ames Summary Data

Test Compound: p-Quinone

CAS Number: 106-51-4

Date Report Requested: 09/18/2018

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	12 ± 1.7
0.01	
0.03	
0.1	
0.3	
1.0	13 ± 0.7
2.2	
3.3	15 ± 0.9
10.0	10 ± 2.4
33.0	20 ± 0.6
50.0	10 ± 1.5 <sup>s</sup>
66.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	141 ± 9.2
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

Experiment Number: 777291

Test Type: Genetic Toxicology - Bacterial  
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## G06: Ames Summary Data

Test Compound: p-Quinone

CAS Number: 106-51-4

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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 <sup>1</sup>	4 ± 0.9	9 ± 2.6	10 ± 1.3	7 ± 2.9	8 ± 2.1
0.01		8 ± 1.2			
0.03	8 ± 1.9	9 ± 0.6			
0.1	6 ± 2.2	9 ± 1.8			
0.3	4 ± 1.5	6 ± 0.6			
1.0	Toxic	8 ± 1.0	8 ± 0.3	9 ± 2.1	10 ± 2.6
2.2	Toxic				
3.3			9 ± 0.3	9 ± 1.2	8 ± 1.2
10.0			9 ± 1.2	8 ± 2.8	7 ± 1.5
33.0			7 ± 1.0	10 ± 0.3	7 ± 0.7
50.0					
66.0			7 ± 0.6 <sup>s</sup>	5 ± 1.5	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					87 ± 9.3
Positive Control <sup>3</sup>			106 ± 4.1	47 ± 1.5	
Positive Control <sup>5</sup>	187 ± 16.1	478 ± 13.5			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	9 ± 1.5
0.01	
0.03	
0.1	
0.3	
1.0	12 ± 2.6
2.2	
3.3	12 ± 1.2
10.0	9 ± 1.5
33.0	9 ± 1.2
50.0	10 ± 0.9
66.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	83 ± 5.1
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	

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G06: Ames Summary Data

Test Compound: p-Quinone

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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 <sup>1</sup>	19 ± 1.5	22 ± 1.7	29 ± 0.3	34 ± 0.9	30 ± 2.3
0.01		24 ± 4.5			
0.03	17 ± 2.6	21 ± 2.0			
0.1	16 ± 1.5	25 ± 2.0			
0.3	18 ± 3.6	25 ± 5.0			
1.0	Toxic	22 ± 4.9	22 ± 2.1	32 ± 1.5	31 ± 2.0
2.2	Toxic				
3.3			24 ± 2.9	24 ± 1.5	32 ± 2.8
10.0			24 ± 2.9	36 ± 4.2	25 ± 4.4
33.0			27 ± 3.4	34 ± 4.6	30 ± 4.7
50.0					
66.0			24 ± 2.6 <sup>s</sup>	34 ± 3.3	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					887 ± 60.0
Positive Control <sup>3</sup>			986 ± 39.8	403 ± 13.4	
Positive Control <sup>6</sup>	1348 ± 21.1	1729 ± 50.7			



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Time Report Requested: 00:50:41

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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	39 ± 10.9
0.01	
0.03	
0.1	
0.3	
1.0	32 ± 3.1
2.2	
3.3	28 ± 3.9
10.0	33 ± 3.1
33.0	39 ± 4.8
50.0	18 ± 2.3 <sup>s</sup>
66.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	882 ± 47.0
Positive Control <sup>3</sup>	
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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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