

Experiment Number: **G05037B**

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

**G06: Ames Summary Data**

Test Compound: **Diquat dibromide monohydrate**

CAS Number: **6385-62-2**

Date Report Requested: **05/06/2021**

Time Report Requested: **15:50:41**

**NTP Study Number:**

G05037B

**Study Result:**

Negative

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Strain: TA100				
Dose (ug/plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	101.3 ± 7.9	79.7 ± 5.5	80.3 ± 2.0	89.7 ± 1.9
0.63		73.7 ± 6.9		
0.7	108.7 ± 8.6		100.7 ± 5.9	
1.25		83 ± 7.1		89.7 ± 4.1
1.4	125.3 ± 23.1		95 ± 3.8	
2.5		89.7 ± 4.5		87.3 ± 1.7
2.79	101.7 ± 1.9		94.3 ± 7.3	
5		75.7 ± 8.8		92 ± 2.3
5.58	104.7 ± 9.8		92.7 ± 3.5	
10		85 ± 3.1		68 ± 2.5
11.17	89.3 ± 8.7		99 ± 4.7	
20		61.7 ± 3.2		74 ± 6.6
22.33	11 ± 2.5		100.3 ± 24.4	
50				31 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	695 ± 60.6	543.7 ± 18.2		
Positive Control <sup>3</sup>			766.3 ± 84.4	561 ± 82.1

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## Strain: TA1535

Dose (ug/plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	16.7 ± 3.9	12 ± 1.0	17.3 ± 2.6	14 ± 2.5
0.31		24.7 ± 2.9		
0.35	24.3 ± 6.8		11 ± 3.6	
0.63		31.3 ± 5.0		
0.7	13.3 ± 2.8		15 ± 4.0	
1.25		18.3 ± 1.3		17.3 ± 1.8
1.4	24 ± 1.7		12 ± 2.1	
2.5		20.3 ± 5.4		16 ± 2.1
2.79	16.3 ± 3.3		10.7 ± 2.0	
5		10.3 ± 4.3		16 ± 3.0
5.58	11 ± 1.2		11 ± 3.2	
10		10 ± 0.6		13.7 ± 2.7
11.17	3.7 ± 0.3		10 ± 2.1	
20				9 ± 1.5
50				5.3 ± 1.9
Trial Summary	Negative	Equivocal	Negative	Negative
Positive Control <sup>2</sup>	588.7 ± 24.7	343 ± 54.5		
Positive Control <sup>4</sup>			293 ± 17.3	344 ± 15.8

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Strain: TA97a				
Dose (ug/plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	127.3 ± 10.3	103 ± 13.1	148 ± 2.6	141 ± 9.5
0.31		79 ± 9.5		
0.35	112 ± 3.5			
0.63		108.3 ± 5.8		94 ± 7.2
0.7	106 ± 7.8		182 ± 11.2	
1.25		89 ± 8.3		122 ± 1.5
1.4	108.3 ± 6.4		187 ± 14.0	
2.5		69 ± 0.6		129.3 ± 9.4
2.79	77 ± 4.6		160.7 ± 6.5	
5		9.7 ± 1.7		110.3 ± 5.0
5.58	33.7 ± 4.8		120 ± 23.9	
10		2 ± 0.6		42 ± 1.2
11.17	3.7 ± 1.2		53 ± 8.4	
20				27.3 ± 5.7
22.33			16.3 ± 4.3	
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>5</sup>	2706.7 ± 174.3	3474.7 ± 171.7		
Positive Control <sup>4</sup>			1989.7 ± 135.7	917.3 ± 235.1

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## Strain: TA98

Dose (ug/plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	40 ± 3.0	23 ± 2.3	33 ± 3.1	34.7 ± 6.2
0.7	53.7 ± 4.7		52 ± 8.1	
1.25		31.7 ± 6.5		
1.4	46 ± 7.1		37 ± 1.7	
2.5		22 ± 3.1		34 ± 2.5
2.79	40 ± 3.8		43.3 ± 5.3	
5		20 ± 3.1		34 ± 4.0
5.58	39 ± 2.6		38 ± 2.0	
10		21 ± 1.7		29.3 ± 3.8
11.17	33.7 ± 5.0		51 ± 4.0	
20		19.3 ± 3.3		29.3 ± 3.7
22.33	29.3 ± 5.5		39.7 ± 1.2	
50		9.7 ± 2.0		26.3 ± 5.8
150				17.7 ± 3.3
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>6</sup>			2278.3 ± 146.2	2292 ± 130.1
Positive Control <sup>7</sup>	469 ± 38.0	503 ± 50.5		

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

Dose (ug/plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	136.3 ± 5.6	165 ± 7.6	148.7 ± 3.2	159 ± 14.0
0.04		118.7 ± 7.9		
0.044	176.3 ± 26.1			
0.08		130.3 ± 5.5		176.3 ± 14.6
0.087	165.3 ± 8.2		217 ± 14.0	
0.16		136.7 ± 7.7		175.7 ± 20.4
0.17	174 ± 5.0		179 ± 10.6	
0.31		147 ± 5.0		158 ± 5.5
0.35	107.7 ± 8.1		179.3 ± 25.1	
0.63		178.3 ± 10.6		177.7 ± 12.5
0.7	83.7 ± 1.2		157.3 ± 4.7	
1.25		15.3 ± 14.3 <sup>s</sup>		161.3 ± 9.4
1.4	9.7 ± 3.8		125.7 ± 4.5	
2.5				118.3 ± 3.8
2.79			11.3 ± 3.5	
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>8</sup>	3493.7 ± 101.4	2414.3 ± 108.7		
Positive Control <sup>9</sup>			1478.3 ± 66.9	1347 ± 81.7

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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

The S9 fraction refers to the liver unless otherwise indicated

1: Vehicle Control: Water

2: 1 ug/plate Sodium Azide

3: 2 ug/plate Benzo[a]pyrene

4: 2.5 ug/plate 2-Aminoanthracene

5: 0.25 ug/plate ICR191

6: 2 ug/plate 2-Aminoanthracene

7: 3 ug/plate 2-Nitrofluorene

8: 0.25 ug/plate 4-Nitroquinoline-N-oxide

9: 20 ug/plate 2-Aminoanthracene

s: Slight Toxicity

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