

Experiment Number: 689954

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Benzidine dihydrochloride

CAS Number: 531-85-1

Date Report Requested: 09/13/2018

Time Report Requested: 02:20:12

**NTP Study Number:**

689954

**Study Result:**

Positive

Experiment Number: 689954

## G06: Ames Summary Data

Date Report Requested: 09/13/2018

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

Test Compound: Benzidine dihydrochloride

Time Report Requested: 02:20:12

CAS Number: 531-85-1

## Strain: TA100

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	104 ± 4.8	132 ± 17.5	148 ± 9.5	134 ± 3.8	118 ± 4.7
3.0				140 ± 4.1	135 ± 12.4
10.0				186 ± 13.1	160 ± 2.6
33.0				261 ± 10.7	275 ± 5.8
100.0	96 ± 5.3	162 ± 7.0	165 ± 8.9	597 ± 66.0	411 ± 4.0
333.0	103 ± 11.5	208 ± 5.2	207 ± 9.1	645 ± 35.3	581 ± 75.4
1000.0	101 ± 3.7	311 ± 11.7	273 ± 21.4		
3333.0	79 ± 5.5	348 ± 28.6	243 ± 16.6		
6666.0			149 ± 5.4		
10000.0	75 ± 2.6 <sup>P</sup>	250 ± 48.4 <sup>P</sup>			
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>				553 ± 54.3	654 ± 45.6
Positive Control <sup>3</sup>	402 ± 23.7				
Positive Control <sup>4</sup>		615 ± 41.0	498 ± 9.8		

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Test Type: Genetic Toxicology - Bacterial  
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Test Compound: Benizidine dihydrochloride

Time Report Requested: 02:20:12

CAS Number: 531-85-1

## Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	16 ± 2.5	30 ± 1.2	29 ± 4.9	28 ± 2.1	26 ± 0.6
1.0					69 ± 3.5
3.0				54 ± 3.2	113 ± 1.2
10.0			49 ± 3.0	125 ± 9.5	172 ± 7.6
33.0			63 ± 12.2	285 ± 12.7	329 ± 20.4
66.0					476 ± 10.4
100.0	16 ± 0.6	91 ± 8.6	126 ± 9.9	656 ± 39.0	
333.0	19 ± 2.6	171 ± 10.7	317 ± 71.5	995 ± 55.0	
1000.0	15 ± 1.5	319 ± 18.2	271 ± 38.2		
3333.0	15 ± 0.9	607 ± 65.9			
10000.0	14 ± 0.9 <sup>P</sup>	154 ± 119.9 <sup>X</sup>			
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>		168 ± 7.3	160 ± 8.7	367 ± 30.9	427 ± 41.3
Positive Control <sup>5</sup>	495 ± 25.5				

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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

p: Precipitate

x: Slight Toxicity and Precipitate

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