

Experiment Number: 503193

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

**G06: Ames Summary Data**

Test Compound: **Benzidine**

CAS Number: **92-87-5**

Date Report Requested: **09/12/2018**

Time Report Requested: **05:33:36**

**NTP Study Number:**

503193

**Study Result:**

Positive

Experiment Number: 503193

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Benzidine

CAS Number: 92-87-5

Date Report Requested: 09/12/2018

Time Report Requested: 05:33:36

## 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>	137 ± 1.5	148 ± 3.8	152 ± 0.9	143 ± 6.4	161 ± 3.5
3.0				168 ± 11.1	200 ± 13.8
10.0				223 ± 1.9	182 ± 16.9
33.0		163 ± 6.1	177 ± 6.2	372 ± 9.6	232 ± 14.4
66.0				580 ± 15.1	256 ± 20.3
100.0	133 ± 1.2	185 ± 6.7	193 ± 8.2	652 ± 42.6	456 ± 52.2
333.0	134 ± 8.7	273 ± 11.0	229 ± 16.6		
1000.0	142 ± 5.6	422 ± 24.8	318 ± 8.1		
3333.0	112 ± 6.6	389 ± 37.4	307 ± 17.7		
10000.0	96 ± 11.5 <sup>P</sup>				
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>				530 ± 22.9	876 ± 13.7
Positive Control <sup>3</sup>	421 ± 20.3				
Positive Control <sup>4</sup>		496 ± 20.4	444 ± 19.2		

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

Time Report Requested: 05:33:36

CAS Number: 92-87-5

**Strain: TA98**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 30% Rat S9</b>	<b>With 30% Rat S9</b>	<b>With 30% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	22 ± 0.9	45 ± 2.7	37 ± 4.1	36 ± 0.3	31 ± 1.9
1.0					36 ± 6.4
3.0				68 ± 2.5	61 ± 4.0
10.0			61 ± 4.1	150 ± 7.5	150 ± 6.2
16.0					202 ± 10.3
33.0		65 ± 5.8	65 ± 7.3	412 ± 63.0	313 ± 23.0
66.0				543 ± 50.2	
100.0	20 ± 0.0	95 ± 7.4	107 ± 13.8	818 ± 23.2	
333.0	22 ± 3.7	261 ± 20.9	192 ± 8.1		
1000.0	16 ± 1.2	325 ± 40.0	353 ± 17.5		
3333.0	19 ± 0.6	396 ± 19.1			
10000.0	14 ± 1.5 <sup>p</sup>				
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>		138 ± 7.6	140 ± 9.3	363 ± 21.5	536 ± 66.4
Positive Control <sup>5</sup>	441 ± 22.0				

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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

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