

Experiment Number: 500249

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Benzdine

CAS Number: 92-87-5

Date Report Requested: 09/12/2018

Time Report Requested: 05:05:10

**NTP Study Number:**

500249

**Study Result:**

Positive

Experiment Number: 500249

## G06: Ames Summary Data

Date Report Requested: 09/12/2018

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

Test Compound: Benzidine

Time Report Requested: 05:05:10

## Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	121 ± 6.1	101 ± 8.2	118 ± 0.9	116 ± 9.0	128 ± 6.2
3.0					149 ± 8.1
10.0					191 ± 2.4
33.0				214 ± 7.1	258 ± 30.9
100.0	93 ± 8.2	160 ± 1.2	194 ± 17.4	273 ± 5.0	347 ± 13.2
333.0	95 ± 14.0	150 ± 11.8	274 ± 4.3	484 ± 9.7	448 ± 130.1
1000.0	90 ± 3.5	174 ± 8.2	338 ± 5.4	728 ± 39.5	
3333.0	87 ± 2.2	172 ± 0.7	335 ± 26.0	816 ± 6.8 <sup>p</sup>	
10000.0	94 ± 5.0 <sup>p</sup>	182 ± 6.3 <sup>p</sup>	259 ± 29.1 <sup>p</sup>		
Trial Summary	Negative	Equivocal	Positive	Positive	Positive
Positive Control <sup>2</sup>		372 ± 34.0	976 ± 80.9	1419 ± 37.9	2065 ± 32.9
Positive Control <sup>3</sup>	481 ± 24.7				

Experiment Number: 500249  
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: 05:05:10

Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	28 ± 1.7	6 ± 0.9	10 ± 3.1
33.0			13 ± 1.0
100.0	22 ± 3.3	10 ± 1.3	12 ± 1.2
333.0	18 ± 3.2	12 ± 1.8	10 ± 1.2
1000.0	20 ± 2.3	11 ± 1.2	12 ± 2.1
3333.0	17 ± 1.8	11 ± 1.8	12 ± 1.5 <sup>P</sup>
10000.0	10 ± 1.2 <sup>P</sup>	12 ± 1.5 <sup>P</sup>	
Trial Summary	Negative	Negative	Negative
Positive Control <sup>3</sup>	427 ± 11.6		
Positive Control <sup>4</sup>		132 ± 3.8	382 ± 18.9

Experiment Number: 500249  
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: 05:05:10

Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	5 ± 1.7	7 ± 0.9	5 ± 1.2
33.0			6 ± 1.2
100.0	5 ± 1.2	6 ± 0.9	5 ± 0.9
333.0	7 ± 0.6	6 ± 0.9	7 ± 1.2
1000.0	5 ± 0.7	10 ± 1.5	9 ± 1.5
3333.0	6 ± 1.2	12 ± 1.2	7 ± 0.0 <sup>p</sup>
10000.0	3 ± 0.3 <sup>p</sup>	8 ± 0.9 <sup>p</sup>	
Trial Summary	Negative	Negative	Negative
Positive Control <sup>4</sup>		123 ± 3.9	519 ± 11.2
Positive Control <sup>5</sup>	222 ± 11.1		

Experiment Number: 500249

## G06: Ames Summary Data

Date Report Requested: 09/12/2018

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

Test Compound: Benzidine

Time Report Requested: 05:05:10

CAS Number: 92-87-5

## Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	15 ± 1.2	25 ± 3.5	22 ± 2.7	33 ± 4.7	29 ± 2.1
3.0					59 ± 5.1
10.0			38 ± 1.2		126 ± 8.5
33.0			57 ± 4.3	180 ± 9.5	208 ± 24.0
100.0	13 ± 1.9	84 ± 6.2	127 ± 1.7	309 ± 22.6	366 ± 18.8
333.0	12 ± 1.9	156 ± 17.6	178 ± 11.8	522 ± 7.2	428 ± 41.9
1000.0	15 ± 1.2	273 ± 12.1	300 ± 10.7	861 ± 58.7	
3333.0	17 ± 0.7	415 ± 20.7		803 ± 96.6 <sup>p</sup>	
10000.0	11 ± 1.5 <sup>p</sup>	394 ± 27.5 <sup>p</sup>			
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>		418 ± 14.2	901 ± 65.9	1278 ± 62.6	1580 ± 13.5
Positive Control <sup>6</sup>	620 ± 54.5				

Experiment Number: 500249  
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: 05:05:10

#### LEGEND

---

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: 50.0 ug/Plate 9-Aminoacridine
- 6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine
- p: Precipitate

\*\* END OF REPORT \*\*