

Experiment Number: 267901

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

G06: Ames Summary Data

Test Compound: **Benzidine**

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

Date Report Requested: **09/11/2018**

Time Report Requested: **08:42:36**

NTP Study Number:

267901

Study Result:

Positive

Experiment Number: 267901

G06: Ames Summary Data

Date Report Requested: 09/11/2018

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

Test Compound: Benzidine

Time Report Requested: 08:42:36

CAS Number: 92-87-5

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 ¹	89 ± 5.8	155 ± 9.4	168 ± 2.3	109 ± 9.4	169 ± 1.2
3.0					185 ± 5.0
10.0				149 ± 6.2	267 ± 16.9
33.0				214 ± 22.2	399 ± 14.5
100.0	104 ± 8.2	202 ± 24.0	201 ± 4.2	410 ± 13.1	545 ± 14.0
166.0					624 ± 39.3
333.0	90 ± 1.8	263 ± 4.3	208 ± 5.8	621 ± 45.6	
1000.0	94 ± 1.7	268 ± 4.4	234 ± 16.2	1122 ± 34.9	
3333.0	98 ± 2.5	340 ± 6.8	187 ± 19.1		
10000.0	100 ± 3.7 ^P	382 ± 27.5 ^P	142 ± 8.3		
Trial Summary	Negative	Positive	Weakly Positive	Positive	Positive
Positive Control ²				457 ± 16.5	537 ± 22.2
Positive Control ³	408 ± 17.6				
Positive Control ⁴		512 ± 15.4	646 ± 17.3		

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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 ¹	18 ± 0.6	28 ± 4.4	26 ± 0.3	31 ± 2.6	24 ± 2.1
1.0					40 ± 4.9
3.0					55 ± 4.8
10.0			45 ± 6.6	162 ± 11.9	135 ± 3.9
16.0					125 ± 4.9
33.0			47 ± 3.7	387 ± 58.0	199 ± 21.4
100.0	17 ± 1.2	88 ± 6.8	86 ± 0.9	906 ± 83.1	
166.0			91 ± 12.9		
333.0	17 ± 1.7	176 ± 23.2	138 ± 6.7	1377 ± 140.5	
1000.0	15 ± 1.8	148 ± 27.5		1661 ± 112.8	
3333.0	19 ± 0.0	136 ± 13.9 ^s			
10000.0	11 ± 2.2 ^p	146 ± 10.5 ^s			
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ⁵					536 ± 22.4
Positive Control ²		259 ± 7.2	191 ± 9.3	441 ± 27.8	
Positive Control ⁶	520 ± 29.2				

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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: 0.5 ug/Plate 2-Aminoanthracene

6: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****