

Experiment Number: 336867

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: **22:31:32**

NTP Study Number:

336867

Study Result:

Positive

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G06: Ames Summary Data

Test Compound: Benzidine

CAS Number: 92-87-5

Date Report Requested: 09/12/2018

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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	107 ± 7.5	127 ± 5.9	126 ± 14.3	134 ± 1.9	116 ± 3.2
0.3		115 ± 4.7	117 ± 7.0	124 ± 3.7	134 ± 10.0
3.3		148 ± 2.2	126 ± 1.5	147 ± 3.8	167 ± 10.2
10.0			115 ± 0.9		210 ± 17.0
33.0		199 ± 3.3	167 ± 9.9	530 ± 17.4	383 ± 11.2
100.0	110 ± 5.5		219 ± 3.9		719 ± 113.4
333.0	122 ± 3.8	420 ± 29.7	334 ± 19.4	1543 ± 269.6	1418 ± 107.5
1000.0	108 ± 4.2				
3333.0	108 ± 4.7	385 ± 7.8	285 ± 16.3	1696 ± 86.2	1485 ± 393.6
10000.0	75 ± 6.2 ^p				
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ²	483 ± 19.7				
Positive Control ³				746 ± 9.0	649 ± 52.8
Positive Control ⁴		1158 ± 15.3	1086 ± 94.6		

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

Time Report Requested: 22:31:32

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	17 ± 1.2	42 ± 1.5	34 ± 3.4	36 ± 4.1	27 ± 2.4
0.3		39 ± 5.3	38 ± 2.8	43 ± 1.5	43 ± 1.8
3.3		36 ± 5.0	43 ± 1.2	115 ± 2.6	105 ± 9.3
10.0			69 ± 3.2		217 ± 15.0
33.0		157 ± 2.2	107 ± 3.8	846 ± 12.8	576 ± 51.8
100.0	18 ± 0.7		226 ± 6.7		1206 ± 11.8
333.0	19 ± 1.8	436 ± 18.4	369 ± 17.9	2755 ± 47.1	2257 ± 60.7
1000.0	14 ± 1.8				
3333.0	19 ± 1.0	542 ± 28.4	468 ± 4.5	3318 ± 24.3	2993 ± 210.0
10000.0	9 ± 1.9 ^P				
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ³		322 ± 4.1	398 ± 23.0	514 ± 7.5	420 ± 16.0
Positive Control ⁵	344 ± 9.8				

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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: 0.5 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****