

Experiment Number: 759722

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

G06: Ames Summary Data

Test Compound: **3,3'-Dimethylbenzidine**

CAS Number: **119-93-7**

Date Report Requested: **09/17/2018**

Time Report Requested: **15:38:54**

NTP Study Number:

759722

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	126 ± 6.1	99 ± 8.4	112 ± 5.6	104 ± 4.8	108 ± 7.7
33.0		93 ± 5.0		139 ± 6.8	
100.0	113 ± 12.4	91 ± 2.9	134 ± 4.9	140 ± 9.4	109 ± 6.4
333.0	95 ± 7.0	105 ± 5.6	125 ± 7.8	138 ± 11.5	136 ± 6.4
1000.0	100 ± 17.7	79 ± 6.0	122 ± 9.5	121 ± 4.5	129 ± 4.4
3333.0	35 ± 5.8	29 ± 5.1 ^s	118 ± 10.1	119 ± 18.7 ^s	140 ± 2.8
10000.0	3 ± 0.6 ^p		35 ± 1.5 ^p		44 ± 5.0 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			607 ± 128.0	384 ± 8.4	1631 ± 94.3
Positive Control ³	367 ± 16.8	419 ± 13.2			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	109 ± 5.2
33.0	130 ± 9.5
100.0	143 ± 9.4
333.0	143 ± 3.8
1000.0	153 ± 10.3
3333.0	159 ± 5.8 ^s
10000.0	
Trial Summary	Equivocal
Positive Control ²	756 ± 31.2
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	25 ± 4.0	30 ± 4.5	11 ± 2.7	5 ± 1.2	12 ± 3.4
33.0		20 ± 3.7		5 ± 1.9	
100.0	15 ± 3.5	19 ± 2.5	6 ± 0.9	5 ± 1.2	10 ± 3.1
333.0	19 ± 1.7	23 ± 2.9	6 ± 0.0	12 ± 1.5	11 ± 2.6
1000.0	10 ± 2.3	16 ± 5.3	4 ± 0.7	8 ± 2.4	9 ± 3.2
3333.0	5 ± 1.8	1 ± 0.7 ^s	2 ± 0.0	3 ± 0.3 ^s	2 ± 0.3
10000.0	1 ± 0.0 ^p		1 ± 0.3 ^p		1 ± 0.0 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	411 ± 11.6	518 ± 33.9			
Positive Control ⁴			181 ± 9.7	127 ± 20.2	275 ± 41.6

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 2.0
33.0	8 ± 0.9
100.0	7 ± 0.9
333.0	7 ± 2.6
1000.0	10 ± 1.2
3333.0	3 ± 0.6 ^s
10000.0	
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	311 ± 19.1

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	4 ± 1.2	8 ± 2.6	7 ± 2.7	7 ± 0.6	4 ± 0.9
33.0		6 ± 2.0		6 ± 2.4	
100.0	5 ± 0.9	5 ± 1.7	11 ± 1.7	11 ± 1.5	8 ± 0.3
333.0	5 ± 1.7	4 ± 0.7	8 ± 0.6	6 ± 1.5	6 ± 1.5
1000.0	6 ± 1.2	6 ± 0.9	6 ± 0.9	6 ± 1.8	7 ± 1.7
3333.0	2 ± 0.0	3 ± 0.6 ^s	4 ± 0.7	4 ± 1.7 ^s	2 ± 0.9
10000.0	1 ± 0.0 ^p		1 ± 0.3 ^p		2 ± 0.3 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			142 ± 28.4	89 ± 2.0	302 ± 16.2
Positive Control ⁵	204 ± 13.2	876 ± 145.8			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 1.7
33.0	9 ± 1.3
100.0	7 ± 0.9
333.0	11 ± 1.5
1000.0	5 ± 2.0
3333.0	7 ± 0.3 ^s
10000.0	
Trial Summary	Negative
Positive Control ⁴	281 ± 14.3
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	17 ± 1.2	16 ± 2.0	18 ± 1.5	23 ± 1.5	25 ± 4.1
3.0					39 ± 1.5
10.0				59 ± 3.5	73 ± 3.5
33.0		15 ± 1.2		75 ± 5.0	91 ± 8.2
100.0	15 ± 2.2	12 ± 3.5	82 ± 8.7	68 ± 4.6	80 ± 6.3
333.0	18 ± 1.2	14 ± 1.2	78 ± 5.7	74 ± 11.2	95 ± 8.0
1000.0	12 ± 2.5	12 ± 3.2	94 ± 10.1	75 ± 9.0	
3333.0	3 ± 0.3	3 ± 1.8 ^s	75 ± 4.9		
10000.0	1 ± 0.3 ^p		3 ± 0.6 ^p		
Trial Summary	Negative	Negative	Equivocal	Positive	Positive
Positive Control ²			448 ± 3.9	278 ± 22.8	206 ± 49.5
Positive Control ⁶	550 ± 91.4	286 ± 16.8			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	18 ± 0.6	29 ± 1.8	20 ± 2.4
3.0			
10.0		47 ± 5.2	39 ± 1.0
33.0		57 ± 5.5	53 ± 1.5
100.0	53 ± 10.5	76 ± 6.9	65 ± 5.6
333.0	72 ± 6.5	103 ± 7.9	87 ± 7.2
1000.0	74 ± 7.3	109 ± 11.4	86 ± 9.2
3333.0	53 ± 7.5		
10000.0	25 ± 6.8 ^p		
Trial Summary	Positive	Positive	Positive
Positive Control ²	1559 ± 42.5	625 ± 26.4	514 ± 80.1
Positive Control ⁶			

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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: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****