

Experiment Number: 487797

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 3,3'-Dimethoxybenzidine

CAS Number: 119-90-4

Date Report Requested: 09/11/2018

Time Report Requested: 22:38:10

NTP Study Number:

487797

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	116 ± 2.0	138 ± 1.5	114 ± 6.6	113 ± 3.5	111 ± 5.5
5.0		140 ± 2.1		119 ± 9.8	
25.0		135 ± 11.3		135 ± 5.0	
50.0		151 ± 9.8		165 ± 5.2	
100.0	88 ± 5.5	149 ± 2.9	168 ± 14.5	173 ± 4.8	117 ± 3.3
333.0	110 ± 8.7	148 ± 3.7	178 ± 5.4	214 ± 6.1	118 ± 2.9
1000.0	115 ± 8.7	154 ± 4.5	151 ± 5.9	164 ± 9.0	112 ± 2.3
3333.0	102 ± 3.7	178 ± 7.0 ^P	120 ± 5.9 ^S	151 ± 2.9 ^P	105 ± 6.8
10000.0	71 ± 1.9 ^S	125 ± 53.7 ^P	110 ± 4.7 ^S	98 ± 40.8 ^P	80 ± 1.0 ^S
Trial Summary	Negative	Negative	Equivocal	Weakly Positive	Negative
Positive Control ²					2314 ± 59.0
Positive Control ³			1290 ± 53.3	777 ± 9.0	
Positive Control ⁴	1028 ± 31.9	2042 ± 43.0			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	114 ± 9.5
5.0	116 ± 5.8
25.0	127 ± 9.4
50.0	142 ± 0.0
100.0	141 ± 4.8
333.0	193 ± 10.9
1000.0	158 ± 2.0
3333.0	147 ± 11.6 ^P
10000.0	95 ± 41.0 ^P
Trial Summary	Weakly Positive
Positive Control ²	1147 ± 58.0
Positive Control ³	
Positive Control ⁴	

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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	13 ± 0.0	27 ± 4.0	11 ± 3.0	8 ± 1.8	7 ± 1.0
5.0		35 ± 5.9		11 ± 1.9	
25.0		32 ± 1.0		5 ± 0.9	
50.0		30 ± 5.6		12 ± 1.2	
100.0	16 ± 0.6	28 ± 4.2	9 ± 1.3	12 ± 1.5	8 ± 1.5
333.0	15 ± 2.3	32 ± 3.2	10 ± 2.0	14 ± 2.6	10 ± 1.5
1000.0	14 ± 1.9	34 ± 0.7	10 ± 1.5	15 ± 2.8	10 ± 1.5
3333.0	13 ± 1.5	26 ± 4.4 ^s	12 ± 2.3	17 ± 1.0 ^p	14 ± 2.3
10000.0	10 ± 1.7 ^s	18 ± 7.7 ^s	15 ± 1.5 ^s	15 ± 6.5 ^p	10 ± 0.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					165 ± 9.4
Positive Control ³			104 ± 10.4	98 ± 5.0	
Positive Control ⁴	807 ± 71.9	1488 ± 35.3			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	12 ± 2.1
5.0	14 ± 1.5
25.0	14 ± 1.8
50.0	10 ± 2.6
100.0	10 ± 1.7
333.0	12 ± 2.6
1000.0	14 ± 2.0
3333.0	15 ± 2.0 ^p
10000.0	11 ± 5.0 ^p
Trial Summary	Negative
Positive Control ²	103 ± 0.6
Positive Control ³	
Positive Control ⁴	

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	8 ± 0.3	6 ± 0.6	7 ± 1.8
100.0	7 ± 2.4	7 ± 0.3	9 ± 2.9
333.0	4 ± 0.7	8 ± 1.3	10 ± 2.7
1000.0	5 ± 0.6	6 ± 0.3	11 ± 1.2
3333.0	4 ± 0.3	8 ± 1.9	6 ± 1.2
10000.0	6 ± 1.9 ^s	8 ± 2.1 ^s	5 ± 0.3 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			289 ± 9.0
Positive Control ³		133 ± 5.2	
Positive Control ⁵	731 ± 234.0		

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	21 ± 4.4	29 ± 1.9	22 ± 3.5	27 ± 4.3	21 ± 1.8
5.0		28 ± 2.7		62 ± 6.7	
25.0		35 ± 2.9		174 ± 1.2	
50.0		44 ± 0.7		269 ± 5.4	
100.0	35 ± 0.9	57 ± 2.0	282 ± 7.5	366 ± 14.6	84 ± 3.2
333.0	53 ± 3.6	84 ± 4.1	326 ± 29.3	464 ± 19.2	106 ± 4.8
1000.0	71 ± 8.5	193 ± 16.3	206 ± 17.6	340 ± 5.3	84 ± 3.3
3333.0	81 ± 10.1	219 ± 7.5 ^S	146 ± 16.3	212 ± 8.8 ^P	85 ± 2.5
10000.0	56 ± 3.1 ^S	136 ± 60.0 ^S	125 ± 8.6 ^S	129 ± 56.3 ^P	63 ± 0.7 ^S
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					2694 ± 59.4
Positive Control ³			1320 ± 72.4	1112 ± 60.9	
Positive Control ⁶	1508 ± 39.9	1913 ± 39.7			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	33 ± 1.3
5.0	41 ± 4.7
25.0	59 ± 5.0
50.0	75 ± 3.9
100.0	73 ± 3.8
333.0	131 ± 6.7
1000.0	116 ± 3.5
3333.0	141 ± 6.4 ^P
10000.0	109 ± 47.2 ^P
Trial Summary	Positive
Positive Control ²	1166 ± 31.5
Positive Control ³	
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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****