

Experiment Number: 215133

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

G06: Ames Summary Data

Test Compound: **3,3'-Dimethoxybenzidine-4,4'-diisocyanate**

CAS Number: **91-93-0**

Date Report Requested: **09/14/2018**

Time Report Requested: **15:36:45**

NTP Study Number:

215133

Study Result:

Positive

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Date Report Requested: 09/14/2018

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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	114 ± 5.5	118 ± 6.4	152 ± 13.6	135 ± 9.8	180 ± 30.2
33.0	150 ± 3.5	133 ± 11.0	156 ± 2.7	96 ± 23.1	135 ± 11.3
100.0	125 ± 1.5	120 ± 7.7	200 ± 15.9	108 ± 2.3	141 ± 6.0
333.0	111 ± 6.7	122 ± 5.0	229 ± 14.3	137 ± 8.2	162 ± 7.5
1000.0	143 ± 18.5	119 ± 16.5	206 ± 16.6	145 ± 14.8	164 ± 5.5
3333.0	65 ± 1.3	76 ± 4.8	108 ± 3.7	104 ± 4.0	112 ± 6.8
Trial Summary	Negative	Negative	Weakly Positive	Negative	Negative
Positive Control ²			977 ± 143.4	1150 ± 260.5	3040 ± 849.6
Positive Control ³	693 ± 64.8	547 ± 33.1			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	179 ± 3.8
33.0	104 ± 14.8
100.0	113 ± 15.0
333.0	122 ± 19.3
1000.0	124 ± 19.6
3333.0	102 ± 4.5
Trial Summary	Negative
Positive Control ²	2505 ± 54.5
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	14 ± 1.5	8 ± 3.3	7 ± 2.0	5 ± 1.9	14 ± 1.2
33.0	27 ± 1.7	4 ± 0.9	24 ± 2.1	4 ± 0.7	25 ± 0.9
100.0	29 ± 0.9	4 ± 1.7	Toxic	4 ± 1.2	38 ± 4.4
333.0	20 ± 1.0	3 ± 0.6	18 ± 1.2	4 ± 0.6	30 ± 0.7
1000.0	20 ± 2.3 ^p	3 ± 0.3	16 ± 1.2	4 ± 1.0	27 ± 1.2
3333.0	17 ± 1.5 ^p	2 ± 1.2	26 ± 2.1 ^p	2 ± 0.9	17 ± 1.7
Trial Summary	Negative	Negative	Equivocal	Negative	Equivocal
Positive Control ²			159 ± 15.6	100 ± 5.7	229 ± 4.8
Positive Control ³	854 ± 58.8	440 ± 25.3			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	12 ± 1.2
33.0	12 ± 2.1
100.0	16 ± 3.8
333.0	14 ± 2.6
1000.0	10 ± 3.7
3333.0	5 ± 1.2
Trial Summary	Negative
Positive Control ²	150 ± 9.0
Positive Control ³	

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Date Report Requested: 09/14/2018

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	2 ± 1.2	6 ± 3.0	12 ± 1.5
33.0	2 ± 0.3	6 ± 0.6	7 ± 1.8
100.0	3 ± 0.6	7 ± 0.6	8 ± 0.7
333.0	4 ± 0.6	8 ± 0.9	9 ± 0.3
1000.0	3 ± 1.0	5 ± 0.3	7 ± 1.5
3333.0	2 ± 0.3	10 ± 0.9	8 ± 0.9
Trial Summary	Negative	Negative	Negative
Positive Control ²		63 ± 9.6	426 ± 35.3
Positive Control ⁴	754 ± 97.7		

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Date Report Requested: 09/14/2018

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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	17 ± 1.8	18 ± 1.2	20 ± 0.7	22 ± 0.9	19 ± 2.0
33.0	22 ± 1.0	19 ± 2.3	78 ± 2.3	58 ± 18.0	32 ± 3.4
100.0	23 ± 4.7	20 ± 2.3	152 ± 5.8	127 ± 19.0	36 ± 3.0
333.0	27 ± 2.7	17 ± 6.0	199 ± 15.6	130 ± 23.6	75 ± 5.5
1000.0	29 ± 6.1	20 ± 5.9	175 ± 3.8	141 ± 26.3	99 ± 5.4
3333.0	25 ± 1.3	17 ± 5.5	216 ± 4.3	85 ± 16.2	113 ± 8.3
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control ²			398 ± 29.5	475 ± 13.3	2251 ± 177.2
Positive Control ⁵	216 ± 62.7	457 ± 16.8			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	22 ± 1.3
33.0	31 ± 3.3
100.0	43 ± 4.7
333.0	62 ± 11.9
1000.0	91 ± 11.2
3333.0	77 ± 26.2
Trial Summary	Positive
Positive Control ²	1955 ± 230.6
Positive Control ⁵	

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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: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****