

Experiment Number: 389797

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 3,3'-Dimethoxybenzidine

CAS Number: 119-90-4

Date Report Requested: 09/14/2018

Time Report Requested: 10:03:35

NTP Study Number:

389797

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	97 ± 3.2	125 ± 10.8	95 ± 2.6	133 ± 2.2	84 ± 5.2
10.0			154 ± 7.0		101 ± 2.3
33.3			198 ± 12.4		119 ± 5.1
100.0	76 ± 5.0	305 ± 23.8	297 ± 2.3	161 ± 11.8	133 ± 6.3
333.3	83 ± 3.6	394 ± 42.8	335 ± 15.3	186 ± 15.5	137 ± 11.0
1000.0	86 ± 7.3	302 ± 4.2	282 ± 5.2	173 ± 9.6	148 ± 5.2
3333.3	85 ± 4.9 ^P	251 ± 11.0 ^P		190 ± 3.2 ^P	
10000.0	103 ± 4.5 ^P	224 ± 9.9 ^P		206 ± 3.9 ^P	
Trial Summary	Negative	Positive	Positive	Weakly Positive	Weakly Positive
Positive Control ²		893 ± 31.5	1022 ± 31.8	1563 ± 23.4	1960 ± 98.5
Positive Control ³	263 ± 22.9				

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	25 ± 2.6	12 ± 2.6	10 ± 1.2	9 ± 0.9
100.0	10 ± 5.5	12 ± 3.3	14 ± 2.7	14 ± 1.9
333.3	12 ± 2.3	14 ± 0.3	15 ± 3.2	15 ± 1.0
1000.0	23 ± 3.9	20 ± 2.6	15 ± 0.0	16 ± 5.4
3333.3	28 ± 2.7 ^P	18 ± 1.2 ^P	25 ± 2.6 ^P	21 ± 2.3 ^P
10000.0	26 ± 3.5 ^P	26 ± 1.2 ^P	30 ± 2.2 ^P	19 ± 3.6 ^P
Trial Summary	Negative	Equivocal	Positive	Equivocal
Positive Control ³	334 ± 52.4			
Positive Control ⁴		288 ± 3.7	424 ± 16.7	223 ± 7.9

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	12 ± 2.5	26 ± 1.7	34 ± 1.5	21 ± 1.2
100.0	13 ± 1.9	29 ± 6.0	31 ± 1.9	23 ± 2.3
333.3	11 ± 1.2	26 ± 6.4	27 ± 4.5	29 ± 4.9
1000.0	11 ± 1.8	22 ± 2.5	32 ± 2.9	21 ± 3.8
3333.3	15 ± 1.8 ^P	20 ± 2.3 ^P	39 ± 3.7 ^P	30 ± 1.8 ^P
10000.0	12 ± 0.3 ^P	15 ± 1.8 ^P	40 ± 2.3 ^P	29 ± 3.8 ^P
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁴		293 ± 9.6	462 ± 13.5	439 ± 24.2
Positive Control ⁵	729 ± 105.3			

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Test Compound: 3,3'-Dimethoxybenzidine

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	21 ± 3.5	35 ± 4.0	23 ± 1.7	43 ± 1.7	33 ± 1.8
10.0			196 ± 9.2		60 ± 6.2
33.3			423 ± 9.0		90 ± 1.3
100.0	17 ± 1.8	663 ± 28.3	727 ± 27.4	141 ± 2.9	143 ± 5.6
333.3	28 ± 2.5	905 ± 28.8	891 ± 40.1	213 ± 10.5	225 ± 0.3
1000.0	28 ± 5.9	720 ± 46.3	665 ± 17.0	239 ± 12.3	253 ± 9.3
3333.3	25 ± 1.5 ^p	484 ± 32.8 ^p		365 ± 23.2 ^p	
10000.0	24 ± 3.2 ^p	489 ± 27.1 ^p		464 ± 27.4 ^p	
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ²		698 ± 37.4	716 ± 58.9	1528 ± 6.1	1331 ± 51.6
Positive Control ⁶	373 ± 9.1				

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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

**** END OF REPORT ****