

Experiment Number: 076910

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 3,3',5,5'-Tetramethylbenzidine

CAS Number: 54827-17-7

Date Report Requested: 09/11/2018

Time Report Requested: 00:45:15

NTP Study Number:

076910

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	111 ± 4.9	137 ± 1.8	134 ± 7.1	155 ± 4.1	131 ± 11.2
10.0	140 ± 10.0	147 ± 4.8	145 ± 4.9	173 ± 1.0	131 ± 4.9
33.0	143 ± 11.1	156 ± 2.5	137 ± 6.7	172 ± 3.2	127 ± 9.5
100.0	131 ± 14.4	135 ± 9.0	132 ± 5.2	163 ± 10.8	126 ± 12.4
333.0	133 ± 7.9	132 ± 14.0	145 ± 11.3	159 ± 9.8	114 ± 11.3
666.0		113 ± 2.4 ^p		123 ± 15.0 ^p	
1000.0	93 ± 21.3 ^x		136 ± 5.5 ^x		99 ± 18.8 ^x
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1322 ± 81.0
Positive Control ³	473 ± 9.7	428 ± 13.0			
Positive Control ⁴			1136 ± 33.2	412 ± 28.2	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	165 ± 7.3
10.0	167 ± 10.9
33.0	158 ± 6.5
100.0	153 ± 7.5
333.0	145 ± 9.1
666.0	148 ± 11.7 ^P
1000.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	637 ± 70.2

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	26 ± 0.3	23 ± 2.6	10 ± 1.2	13 ± 0.9	15 ± 0.9
10.0	22 ± 1.2	23 ± 3.0	9 ± 1.0	13 ± 2.6	15 ± 0.9
33.0	26 ± 0.9	23 ± 2.9	11 ± 1.0	11 ± 2.5	14 ± 0.9
100.0	31 ± 6.5	19 ± 1.2	15 ± 0.7	11 ± 1.5	17 ± 0.7
333.0	32 ± 3.9	23 ± 3.5	9 ± 1.5	10 ± 0.3	13 ± 1.9
666.0		11 ± 0.6 ^p		12 ± 3.1 ^p	
1000.0	13 ± 4.9 ^x		10 ± 1.0 ^x		14 ± 1.7 ^x
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	498 ± 10.8	384 ± 9.4			
Positive Control ⁴					166 ± 8.1
Positive Control ⁵			154 ± 10.9	94 ± 4.2	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 1.2
10.0	9 ± 2.6
33.0	11 ± 1.0
100.0	11 ± 1.8
333.0	12 ± 1.0
666.0	11 ± 2.0 ^p
1000.0	
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	294 ± 4.7

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	163 ± 5.5	173 ± 8.7	173 ± 11.2	179 ± 14.9	143 ± 3.8
10.0	162 ± 10.8	177 ± 9.2	186 ± 7.9	168 ± 10.3	157 ± 4.7
33.0	170 ± 7.4	183 ± 7.4	185 ± 3.2	173 ± 14.4	155 ± 4.3
100.0	163 ± 12.0	168 ± 8.0	181 ± 7.7	163 ± 8.5	157 ± 2.3
333.0	148 ± 8.7	150 ± 10.8	183 ± 7.4	150 ± 21.4	156 ± 9.2
666.0		129 ± 28.6 ^x		150 ± 30.2 ^p	
1000.0	105 ± 5.2 ^x		170 ± 10.4 ^x		129 ± 9.8 ^x
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					907 ± 34.0
Positive Control ⁴			765 ± 29.4		
Positive Control ⁵				428 ± 9.4	
Positive Control ⁶	502 ± 15.4	342 ± 18.8			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	181 ± 8.6
10.0	175 ± 11.7
33.0	194 ± 2.0
100.0	185 ± 10.3
333.0	175 ± 14.2
666.0	162 ± 12.7 ^P
1000.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	849 ± 35.1
Positive Control ⁵	
Positive Control ⁶	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	22 ± 2.3	24 ± 1.7	48 ± 3.4	32 ± 0.6	43 ± 2.5
10.0	19 ± 0.6	18 ± 0.0	40 ± 4.0	40 ± 7.5	44 ± 1.9
33.0	23 ± 1.9	24 ± 1.9	38 ± 1.5	28 ± 2.3	46 ± 3.5
100.0	20 ± 2.0	26 ± 1.2	32 ± 1.0	32 ± 1.2	48 ± 7.5
333.0	19 ± 2.6	22 ± 2.7	45 ± 2.4	31 ± 4.6	35 ± 2.0
666.0		11 ± 3.4 ^x		24 ± 3.5 ^p	
1000.0	9 ± 0.7 ^x		27 ± 3.5 ^x		16 ± 2.4 ^x
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1093 ± 7.8
Positive Control ⁴			817 ± 48.2	265 ± 51.2	
Positive Control ⁷	774 ± 37.4	1012 ± 19.1			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	39 ± 1.5
10.0	39 ± 8.5
33.0	39 ± 5.8
100.0	34 ± 4.3
333.0	34 ± 3.8
666.0	25 ± 2.0 ^p
1000.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	237 ± 8.1
Positive Control ⁷	

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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 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 1.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate 2-Aminoanthracene

6: 25.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

x: Slight Toxicity and Precipitate

**** END OF REPORT ****