

Experiment Number: 603459

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 3,4-Diaminotoluene

CAS Number: 496-72-0

Date Report Requested: 09/15/2018

Time Report Requested: 00:37:50

NTP Study Number:

603459

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	115 ± 1.5	131 ± 15.4	96 ± 3.4	124 ± 15.3	94 ± 2.8
100.0	128 ± 5.3	136 ± 7.6	121 ± 15.9	146 ± 15.1	128 ± 1.2
333.0	124 ± 5.5	150 ± 4.9	113 ± 12.0	179 ± 4.4	138 ± 13.0
1000.0	126 ± 13.1	190 ± 17.8	166 ± 3.5	252 ± 13.5	213 ± 6.9
3333.0	108 ± 4.2	295 ± 19.5	305 ± 26.4	322 ± 3.7	285 ± 12.4
6666.0	87 ± 7.7		377 ± 59.8		305 ± 20.4
10000.0		348 ± 37.5		346 ± 19.9	
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ²				766 ± 77.8	816 ± 57.5
Positive Control ³		488 ± 7.2	595 ± 16.0		
Positive Control ⁴	419 ± 2.3				

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	24 ± 1.5	11 ± 1.3	9 ± 0.6
100.0	25 ± 2.2	11 ± 1.2	9 ± 2.3
333.0	20 ± 1.2	9 ± 1.3	11 ± 1.0
1000.0	21 ± 1.7	9 ± 1.3	11 ± 2.5
3333.0	18 ± 1.0	10 ± 1.2	14 ± 3.1
6666.0	9 ± 2.1		
10000.0		7 ± 0.6	9 ± 1.5
Trial Summary	Negative	Negative	Negative
Positive Control ³			209 ± 19.2
Positive Control ⁴	339 ± 17.8		
Positive Control ⁵		135 ± 5.7	

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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	104 ± 4.0	139 ± 5.5	150 ± 18.6	180 ± 7.3	146 ± 9.9
100.0	157 ± 15.2	213 ± 24.6	202 ± 19.3	197 ± 15.0	186 ± 10.3
333.0	163 ± 4.5	233 ± 26.1	203 ± 29.6	240 ± 15.3	220 ± 5.8
1000.0	147 ± 12.7	309 ± 20.7	229 ± 27.7	316 ± 9.2	271 ± 11.6
3333.0	68 ± 3.2	369 ± 11.1	333 ± 16.6	284 ± 27.2	276 ± 15.2
6666.0	14 ± 6.8 ^s		275 ± 138.4		221 ± 99.7
10000.0		159 ± 63.5		106 ± 17.9	
Trial Summary	Weakly Positive	Positive	Positive	Weakly Positive	Positive
Positive Control ²				623 ± 7.1	548 ± 34.1
Positive Control ³		347 ± 20.0	417 ± 21.0		
Positive Control ⁶	601 ± 25.7				

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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	27 ± 0.3	29 ± 2.5	26 ± 6.7	35 ± 4.4	31 ± 6.4
33.0			34 ± 5.1		41 ± 5.2
100.0	23 ± 1.7	52 ± 3.8	49 ± 6.4	78 ± 5.8	71 ± 2.6
333.0	27 ± 1.3	143 ± 11.7	103 ± 9.4	246 ± 14.6	231 ± 8.0
666.0			189 ± 35.9		481 ± 10.7
1000.0	22 ± 1.5	483 ± 24.6	338 ± 46.8	472 ± 63.0	635 ± 6.4
3333.0	11 ± 0.7 ^s	943 ± 41.3		584 ± 69.0	
6666.0	Toxic				
10000.0		634 ± 45.1		488 ± 83.4	
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ²				518 ± 61.6	650 ± 37.1
Positive Control ³		272 ± 7.2	422 ± 8.6		
Positive Control ⁷	507 ± 9.5				

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate 9-Aminoacridine

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

s: Slight Toxicity

**** END OF REPORT ****