

Experiment Number: 786789

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 4,4'-Methylenedianiline dihydrochloride

CAS Number: 13552-44-8

Date Report Requested: 09/18/2018

Time Report Requested: 05:32:25

NTP Study Number:

786789

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	94 ± 2.8	78 ± 4.9	112 ± 8.7	93 ± 5.7	102 ± 5.2
1.0				141 ± 21.2	154 ± 7.5
3.0		112 ± 7.0	131 ± 8.7	187 ± 5.5	265 ± 5.3
10.0		164 ± 9.0	258 ± 12.2	366 ± 7.2	434 ± 12.2
16.0					722 ± 24.3
33.0		229 ± 12.0	358 ± 10.5	843 ± 51.1	1128 ± 118.8
100.0	90 ± 10.5	303 ± 15.2	462 ± 24.6	1457 ± 69.0	
333.0	99 ± 6.2	412 ± 47.9	533 ± 24.0		
1000.0	96 ± 3.2				
3333.0	112 ± 2.7				
6666.0	88 ± 5.2 ^s				
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ²				767 ± 47.8	638 ± 7.6
Positive Control ³		523 ± 14.6	504 ± 37.7		
Positive Control ⁴	591 ± 13.6				

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	23 ± 1.2	7 ± 1.9	14 ± 1.9	7 ± 0.3	11 ± 1.8
1.0				8 ± 2.4	
3.0		10 ± 3.5		7 ± 0.6	
10.0		7 ± 0.6	16 ± 4.1	8 ± 0.7	20 ± 1.8
33.0		10 ± 1.2	17 ± 1.7	15 ± 0.6	18 ± 3.5
66.0					26 ± 3.2
100.0	25 ± 4.2	13 ± 1.2	23 ± 4.4	26 ± 1.2	29 ± 8.4
166.0			23 ± 3.0		32 ± 6.9
333.0	22 ± 1.2	9 ± 1.5	33 ± 1.5		
1000.0	21 ± 0.5				
3333.0	18 ± 4.7				
6666.0	6 ± 2.3 ^s				
Trial Summary	Negative	Negative	Equivocal	Equivocal	Positive
Positive Control ³			113 ± 7.7	302 ± 7.4	
Positive Control ⁴	518 ± 21.4				
Positive Control ⁵		223 ± 22.3			188 ± 23.1

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	7 ± 1.9	15 ± 1.0	8 ± 0.7
1.0			
3.0			
10.0	6 ± 2.4	15 ± 1.5	10 ± 0.6
33.0	16 ± 0.9	23 ± 0.7	12 ± 1.7
66.0	15 ± 2.0		
100.0	18 ± 1.0	50 ± 8.2	27 ± 5.2
166.0	15 ± 0.6	76 ± 8.6	40 ± 5.4
333.0		100 ± 15.0	34 ± 3.5
1000.0			
3333.0			
6666.0			
Trial Summary	Negative	Positive	Positive
Positive Control ³	77 ± 2.1		
Positive Control ⁴			
Positive Control ⁵		317 ± 5.2	138 ± 21.4

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CAS Number: 13552-44-8

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	121 ± 12.8	137 ± 1.8	158 ± 4.7	171 ± 6.7	177 ± 6.7
1.0				186 ± 1.2	170 ± 10.1
3.0		164 ± 0.6	161 ± 10.5	206 ± 4.4	217 ± 3.0
10.0		167 ± 15.4	193 ± 7.4	215 ± 9.0	287 ± 15.6
33.0		210 ± 6.4	210 ± 2.0	347 ± 31.6	420 ± 20.0
100.0	125 ± 6.7	215 ± 4.2	226 ± 3.2	528 ± 74.6	588 ± 8.4
333.0	135 ± 0.7	233 ± 4.4	225 ± 4.1		
1000.0	142 ± 1.3				
3333.0	104 ± 17.5				
6666.0	0 ± 0.0 ^s				
Trial Summary	Negative	Weakly Positive	Weakly Positive	Positive	Positive
Positive Control ²				314 ± 5.8	404 ± 18.3
Positive Control ³		300 ± 8.8	327 ± 15.9		
Positive Control ⁶	956 ± 18.4				

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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	15 ± 0.9	24 ± 2.2	32 ± 3.8	27 ± 4.1	36 ± 3.2
1.0				37 ± 4.4	44 ± 2.1
3.0		28 ± 2.0	27 ± 3.2	40 ± 0.9	52 ± 1.9
10.0		39 ± 5.0	47 ± 2.0	63 ± 4.7	89 ± 1.2
16.0					124 ± 8.0
33.0		44 ± 6.6	67 ± 3.2	182 ± 21.5	260 ± 12.1
100.0	16 ± 1.5	50 ± 9.3	77 ± 1.2	385 ± 73.4	
333.0	15 ± 1.8	55 ± 3.8	104 ± 6.4		
1000.0	13 ± 1.3				
3333.0	13 ± 1.8				
6666.0	10 ± 3.0 ^s				
Trial Summary	Negative	Equivocal	Positive	Positive	Positive
Positive Control ²				725 ± 3.8	589 ± 61.5
Positive Control ³		419 ± 51.2	455 ± 61.8		
Positive Control ⁷	597 ± 18.0				

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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: Water

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 ****