

Experiment Number: 844170

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 4,4'-Methylenebis(2-chloroaniline)

CAS Number: 101-14-4

Date Report Requested: 09/16/2018

Time Report Requested: 04:25:35

NTP Study Number:

844170

Study Result:

Positive

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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	64 ± 1.9	96 ± 4.0	55 ± 2.3	130 ± 10.7	54 ± 1.7
1.0		86 ± 7.2			
3.3		75 ± 2.5			
10.0	75 ± 9.5	76 ± 5.7	139 ± 12.0	169 ± 13.5	146 ± 9.8
33.3	75 ± 0.7	70 ± 3.8	208 ± 13.0	242 ± 9.1	273 ± 15.1
100.0	56 ± 3.0	Toxic	283 ± 41.8	390 ± 8.7	495 ± 25.0
333.3	12 ± 12.0 ^s		342 ± 22.0	142 ± 136.4 ^s	640 ± 25.2
1000.0	Toxic		155 ± 28.4 ^s	Toxic	326 ± 137.2 ^s
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control ²	222 ± 20.9	222 ± 5.8			2168 ± 100.8
Positive Control ³			738 ± 28.9	731 ± 45.2	

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	109 ± 4.6
1.0	
3.3	
10.0	163 ± 8.2
33.3	259 ± 7.7
100.0	488 ± 18.6
333.3	681 ± 64.6
1000.0	0 ± 0.0 ^s
Trial Summary	Positive
Positive Control ²	
Positive Control ³	2327 ± 23.1

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	7 ± 1.2	11 ± 1.2	8 ± 0.6	6 ± 2.3
1.0		10 ± 2.7		
3.3		9 ± 2.5		
10.0	7 ± 2.0	9 ± 1.7	7 ± 0.6	4 ± 1.2
33.3	10 ± 0.3	9 ± 1.2	10 ± 0.0	6 ± 1.7
100.0	4 ± 1.5 ^s	2 ± 0.9 ^s	10 ± 2.4	5 ± 0.3
333.3	0 ± 0.0 ^s		6 ± 0.6	4 ± 2.8
1000.0	Toxic		0 ± 0.0 ^s	3 ± 1.3 ^s
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	248 ± 13.6	112 ± 6.1		322 ± 52.9
Positive Control ⁴			332 ± 24.6	

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Test Compound: 4,4'-Methylenebis(2-chloroaniline)

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.2	6 ± 0.6	6 ± 2.2	4 ± 1.5
1.0		4 ± 0.9		
3.3		6 ± 0.9		
10.0	5 ± 2.6	7 ± 0.6	6 ± 1.3	7 ± 0.7
33.3	4 ± 1.8	9 ± 2.7	7 ± 1.7	5 ± 2.0
100.0	1 ± 0.7 ^s	0 ± 0.0 ^s	6 ± 0.3	5 ± 2.7
333.3	0 ± 0.0 ^s		5 ± 0.3	4 ± 1.0
1000.0	0 ± 0.0 ^s		0 ± 0.0 ^s	4 ± 0.9 ^s
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁴			298 ± 20.9	
Positive Control ⁵	530 ± 132.9	96 ± 15.6		152 ± 22.0

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Test Compound: 4,4'-Methylenebis(2-chloroaniline)

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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	26 ± 4.4	12 ± 1.3	21 ± 2.6	35 ± 3.9	24 ± 3.2
1.0		19 ± 1.2			
3.3		16 ± 1.9			
10.0	28 ± 5.2	14 ± 0.7	36 ± 4.9	51 ± 4.7	32 ± 4.2
33.3	26 ± 4.3	14 ± 0.6	38 ± 4.4	52 ± 5.8	45 ± 3.2
100.0	20 ± 2.7	4 ± 2.3 ^s	42 ± 4.3	55 ± 1.5	63 ± 3.5
333.3	26 ± 0.6		27 ± 4.9	42 ± 10.1 ^s	63 ± 7.6
1000.0	24 ± 2.6		0 ± 0.0 ^s	Toxic	53 ± 7.7 ^s
Trial Summary	Negative	Negative	Equivocal	Equivocal	Positive
Positive Control ³			458 ± 13.6		
Positive Control ⁶	837 ± 116.2	422 ± 18.4		578 ± 18.6	1733 ± 92.8

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	39 ± 3.5
1.0	
3.3	
10.0	38 ± 6.0
33.3	50 ± 22.5
100.0	82 ± 17.4
333.3	63 ± 8.2
1000.0	52 ± 26.4 ^s
Trial Summary	Positive
Positive Control ³	1725 ± 58.0
Positive Control ⁶	

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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 Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****