

Experiment Number: 977612

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: 09/18/2018

Time Report Requested: 02:57:53

NTP Study Number:

977612

Study Result:

Weakly Positive

Experiment Number: 977612

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

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	118 ± 6.1	107 ± 8.4	107 ± 3.0	123 ± 17.4	107 ± 7.0
1.0		107 ± 8.0	100 ± 2.7		
3.3	116 ± 5.5	95 ± 2.4	100 ± 4.0		106 ± 7.7
10.0	107 ± 5.3	91 ± 6.7	94 ± 7.8	124 ± 5.0	102 ± 12.1
33.0	104 ± 3.0	79 ± 4.7	82 ± 4.4	95 ± 7.0	97 ± 5.2
100.0	Toxic	Toxic	87 ± 7.8	113 ± 8.2	104 ± 7.4
333.0	Toxic			Toxic	Toxic
1000.0				Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				2735 ± 27.7	2460 ± 74.5
Positive Control ³	1407 ± 37.5	1281 ± 27.4	1266 ± 8.3		

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	139 ± 8.0	120 ± 3.3	130 ± 4.8	116 ± 9.8	181 ± 7.0
1.0				113 ± 8.2	213 ± 13.7
3.3	166 ± 9.5	131 ± 8.0		120 ± 3.3	215 ± 3.6
10.0	181 ± 4.1	134 ± 9.0	161 ± 6.1	132 ± 10.4	219 ± 7.0
33.0	202 ± 16.7	135 ± 13.4	155 ± 11.7	156 ± 1.5	238 ± 18.9
100.0	190 ± 12.4	124 ± 10.8	Toxic	198 ± 9.8	181 ± 14.7
333.0	188 ± 9.7 ^P	120 ± 11.0	Toxic		
1000.0			Toxic		
Trial Summary	Weakly Positive	Negative	Negative	Weakly Positive	Weakly Positive
Positive Control ²	938 ± 60.6	1104 ± 12.3	2632 ± 132.5	1402 ± 120.4	1397 ± 68.6
Positive Control ³					

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	36 ± 1.5	7 ± 2.0	21 ± 3.2	10 ± 1.2	22 ± 2.1
3.3	30 ± 1.2	6 ± 0.9		8 ± 1.7	26 ± 1.5
10.0	33 ± 0.6	4 ± 1.7	21 ± 1.5	6 ± 0.3	15 ± 5.0
33.0	25 ± 2.3	5 ± 0.7	20 ± 2.1	8 ± 1.5	9 ± 1.5
100.0	19 ± 3.1	3 ± 0.9	20 ± 2.4	9 ± 1.7	7 ± 1.8
333.0	Toxic	Toxic	Toxic	8 ± 1.2 ^p	3 ± 1.2 ^p
1000.0			Toxic		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			309 ± 12.2	189 ± 18.2	285 ± 17.1
Positive Control ³	1140 ± 34.4	851 ± 37.5			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	27 ± 3.9	17 ± 0.6
3.3		
10.0	24 ± 3.7	18 ± 1.5
33.0	22 ± 0.7	14 ± 2.2
100.0	23 ± 5.2	12 ± 1.5
333.0	23 ± 3.3 ^p	13 ± 1.9 ^p
1000.0	Toxic	Toxic
Trial Summary	Negative	Negative
Positive Control ⁴	360 ± 5.0	142 ± 9.9
Positive Control ³		

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	34 ± 0.7	7 ± 0.3	7 ± 1.5	19 ± 2.0	9 ± 1.2
1.0		8 ± 1.0	4 ± 0.7		15 ± 2.2
3.3	15 ± 2.7	6 ± 1.2	6 ± 3.2		8 ± 2.0
10.0	25 ± 2.2	5 ± 0.9	6 ± 1.9	16 ± 3.2	8 ± 0.3
33.0	29 ± 2.1	4 ± 0.7	4 ± 0.6	21 ± 2.6	11 ± 1.2
100.0	Toxic	Toxic	Toxic	Toxic	8 ± 2.6
333.0	Toxic			Toxic	
1000.0				Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴				166 ± 64.5	276 ± 30.9
Positive Control ⁵	157 ± 1.5	177 ± 26.8	505 ± 191.7		

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Strain: TA1537

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	13 ± 2.3	32 ± 1.8	17 ± 0.9	8 ± 1.2
1.0	8 ± 1.0		14 ± 3.5	11 ± 2.3
3.3	13 ± 2.3		13 ± 1.2	12 ± 2.8
10.0	10 ± 2.2	27 ± 2.7	20 ± 4.9	11 ± 1.5
33.0	10 ± 1.8	26 ± 5.2	14 ± 1.8	10 ± 1.0
100.0	Toxic	Toxic	12 ± 3.9	7 ± 0.9
333.0		Toxic		
1000.0		Toxic		
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁴	460 ± 19.1	355 ± 16.9	253 ± 19.7	169 ± 12.7
Positive Control ⁵				

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	42 ± 4.9	22 ± 3.1	45 ± 1.5	41 ± 2.7	47 ± 1.5
3.3	43 ± 1.9	18 ± 2.2		43 ± 2.8	41 ± 6.1
10.0	49 ± 2.9	17 ± 1.5	40 ± 5.5	41 ± 2.3	27 ± 3.9
33.0	45 ± 4.5	19 ± 1.7	39 ± 6.6	55 ± 4.7	14 ± 4.7
100.0	41 ± 3.5	11 ± 1.2	35 ± 2.6	34 ± 1.0	14 ± 2.0
333.0	Toxic	Toxic	Toxic	31 ± 6.2 ^p	6 ± 0.6 ^p
1000.0			Toxic		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1895 ± 53.7	1896 ± 22.7	1360 ± 129.6
Positive Control ⁶	377 ± 87.5	190 ± 15.0			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	44 ± 0.6	39 ± 2.9	18 ± 1.2
3.3		30 ± 1.2	23 ± 1.5
10.0	51 ± 2.0	29 ± 5.5	29 ± 2.3
33.0	49 ± 0.3	31 ± 4.2	18 ± 3.3
100.0	43 ± 4.9	28 ± 3.2	23 ± 2.9
333.0	Toxic	29 ± 0.7 ^P	13 ± 3.2 ^P
1000.0	Toxic		
Trial Summary	Negative	Negative	Equivocal
Positive Control ²	1329 ± 72.5	912 ± 25.1	1624 ± 108.0
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 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****