

Experiment Number: 913572

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: **09/17/2018**

Time Report Requested: **02:16:50**

NTP Study Number:

913572

Study Result:

Positive

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

CAS Number: 101-14-4

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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	97 ± 6.1	138 ± 13.9	105 ± 13.1	117 ± 6.9	112 ± 13.1
1.0		106 ± 9.0			
3.0	89 ± 7.2	115 ± 7.4		155 ± 3.5	114 ± 7.7
10.0	84 ± 3.5	100 ± 7.1	153 ± 3.3	183 ± 15.4	127 ± 7.8
33.0	82 ± 7.5	104 ± 7.0	280 ± 10.1	315 ± 27.5	313 ± 3.7
100.0	79 ± 7.8	0 ± 0.0 ^s	380 ± 32.5	470 ± 11.6	644 ± 16.3
333.0	33 ± 18.0 ^s		359 ± 23.4	440 ± 4.9	811 ± 41.3
1000.0			290 ± 26.0		
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control ²			436 ± 30.5	552 ± 14.0	1506 ± 62.8
Positive Control ³	322 ± 9.3	422 ± 16.6			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	138 ± 6.6
1.0	
3.0	127 ± 7.4
10.0	157 ± 3.8
33.0	415 ± 15.9
100.0	727 ± 42.6
333.0	815 ± 53.7
1000.0	
Trial Summary	Positive
Positive Control ²	1705 ± 35.5
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	39 ± 2.1	34 ± 4.6	15 ± 0.6	19 ± 0.6	14 ± 3.2
1.0		31 ± 3.8			
3.0		39 ± 4.2			8 ± 3.2
10.0	11 ± 1.2	30 ± 1.2	5 ± 0.9	5 ± 1.5	7 ± 2.9
33.0	13 ± 0.3	28 ± 0.9	6 ± 0.6	9 ± 1.7	10 ± 1.8
100.0	15 ± 2.3	18 ± 1.2	5 ± 0.9	5 ± 1.9	9 ± 3.2
333.0	15 ± 0.7		5 ± 0.7	2 ± 0.9	11 ± 3.2
1000.0	7 ± 0.9		3 ± 0.9	1 ± 0.9	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	607 ± 5.3	641 ± 17.5			
Positive Control ⁴			161 ± 13.0	428 ± 3.5	518 ± 37.7

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Date Report Requested: 09/17/2018

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 0.9	5 ± 0.6	5 ± 1.2	11 ± 2.8	8 ± 2.3
1.0		6 ± 1.9			
3.0		4 ± 1.0			7 ± 0.7
10.0	6 ± 0.6	5 ± 1.3	8 ± 4.2	4 ± 0.6	8 ± 2.4
33.0	8 ± 4.2	3 ± 0.7	6 ± 1.2	4 ± 0.3	7 ± 1.5
100.0	1 ± 0.7 ^s	2 ± 1.7 ^s	6 ± 1.9	3 ± 1.2	7 ± 1.2
333.0	Toxic		3 ± 0.9	0 ± 0.0 ^s	8 ± 2.0
1000.0	Toxic		2 ± 1.3	Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			141 ± 7.4	448 ± 5.7	346 ± 18.3
Positive Control ⁵	854 ± 11.2	124 ± 31.9			

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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	22 ± 1.8	21 ± 2.1	29 ± 0.3	24 ± 3.2	33 ± 3.8
1.0		21 ± 3.0			
3.0		18 ± 3.3		38 ± 4.5	
10.0	16 ± 2.0	16 ± 1.2	27 ± 2.0	28 ± 0.9	26 ± 4.4
33.0	14 ± 1.5	16 ± 0.7	31 ± 3.2	47 ± 2.7	42 ± 6.3
100.0	5 ± 0.0	0 ± 0.0 ^s	40 ± 0.7	55 ± 4.8	58 ± 11.2
333.0	0 ± 0.0 ^s		36 ± 2.3	0 ± 0.0 ^s	8 ± 3.8 ^s
1000.0	0 ± 0.0 ^s		27 ± 8.7		0 ± 0.0 ^s
Trial Summary	Negative	Negative	Equivocal	Equivocal	Equivocal
Positive Control ²			265 ± 2.0	394 ± 30.8	1544 ± 98.0
Positive Control ⁶	1057 ± 28.6	856 ± 51.2			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	37 ± 7.2
1.0	
3.0	38 ± 4.6
10.0	36 ± 2.3
33.0	47 ± 4.7
100.0	85 ± 0.3
333.0	97 ± 8.8
1000.0	
Trial Summary	Positive
Positive Control ²	1517 ± 21.9
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: 1.0 ug/Plate Sodium Azide

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 ****