

Experiment Number: 636704

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid

CAS Number: 81-11-8

Date Report Requested: 09/10/2018

Time Report Requested: 23:17:12

NTP Study Number:

636704

Study Result:

Negative

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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	130 ± 12.8	126 ± 9.4	136 ± 5.6	132 ± 11.9	146 ± 3.3
100.0	124 ± 4.5	120 ± 6.9	128 ± 3.7	126 ± 11.6	142 ± 1.9
333.0	138 ± 3.5	163 ± 30.4	132 ± 5.5	142 ± 4.4	151 ± 6.7
1000.0	137 ± 9.0	134 ± 1.2	148 ± 7.8	143 ± 5.6	150 ± 12.1
3333.0	120 ± 0.7	138 ± 3.8	125 ± 3.8	144 ± 7.1	140 ± 5.9
5000.0	138 ± 11.4	150 ± 4.9	148 ± 8.2	156 ± 8.9	152 ± 6.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					949 ± 23.2
Positive Control ³			888 ± 17.0	775 ± 44.7	
Positive Control ⁴	864 ± 0.9	1053 ± 36.7			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	143 ± 1.7
100.0	136 ± 1.5
333.0	146 ± 6.7
1000.0	141 ± 5.8
3333.0	147 ± 8.0
5000.0	126 ± 8.0
Trial Summary	Negative
Positive Control ²	1014 ± 18.6
Positive Control ³	
Positive Control ⁴	

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CAS Number: 81-11-8

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	22 ± 3.7	34 ± 1.8	16 ± 1.5	16 ± 1.5	14 ± 2.3
100.0	24 ± 3.5	25 ± 1.7	19 ± 3.0	19 ± 3.2	15 ± 2.3
333.0	22 ± 4.1	24 ± 2.5	21 ± 1.5	18 ± 5.2	19 ± 1.8
1000.0	22 ± 2.0	27 ± 3.1	22 ± 2.8	17 ± 2.9	17 ± 2.7
3333.0	22 ± 2.7	27 ± 4.6	22 ± 2.3	16 ± 2.5	18 ± 4.1
5000.0	24 ± 2.9	24 ± 2.6	20 ± 1.9	26 ± 2.9	16 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					49 ± 7.9
Positive Control ³			50 ± 3.2	99 ± 13.1	
Positive Control ⁴	719 ± 6.4	847 ± 15.0			

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Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid
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Date Report Requested: 09/10/2018

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	19 ± 0.9
100.0	26 ± 2.8
333.0	17 ± 3.4
1000.0	19 ± 2.0
3333.0	21 ± 1.8
5000.0	15 ± 1.5
Trial Summary	Negative
Positive Control ²	89 ± 12.7
Positive Control ³	
Positive Control ⁴	

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	7 ± 1.2	6 ± 1.5	8 ± 1.0	5 ± 0.3	7 ± 2.0
100.0	4 ± 0.9	4 ± 1.7	7 ± 2.1	3 ± 0.3	5 ± 1.2
333.0	6 ± 1.5	3 ± 0.9	6 ± 1.3	8 ± 1.7	4 ± 0.6
1000.0	8 ± 0.7	8 ± 0.7	7 ± 2.5	6 ± 1.2	5 ± 1.9
3333.0	3 ± 0.6	5 ± 0.3	4 ± 1.2	8 ± 0.9	6 ± 1.2
5000.0	6 ± 2.7	4 ± 1.2	7 ± 0.7	7 ± 0.3	8 ± 2.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					59 ± 7.8
Positive Control ³			54 ± 2.3	41 ± 5.7	
Positive Control ⁵	255 ± 3.2	312 ± 69.5			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.6
100.0	5 ± 2.0
333.0	6 ± 2.8
1000.0	4 ± 1.5
3333.0	8 ± 1.8
5000.0	6 ± 1.3
Trial Summary	Negative
Positive Control ²	95 ± 18.3
Positive Control ³	
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	17 ± 1.5	20 ± 0.3	18 ± 2.3	26 ± 3.5	30 ± 2.2
100.0	21 ± 2.0			25 ± 1.7	
333.0	19 ± 1.9		18 ± 3.8	27 ± 0.3	
1000.0	22 ± 1.5		21 ± 0.9	28 ± 3.2	
3000.0		19 ± 1.5			29 ± 2.1
3333.0	18 ± 1.2		21 ± 2.6	30 ± 0.6	
3500.0		20 ± 1.5			29 ± 1.9
4000.0		19 ± 1.9	25 ± 0.9		34 ± 2.4
4500.0		17 ± 1.5	27 ± 3.0		36 ± 2.3
5000.0	20 ± 1.9	18 ± 1.9	24 ± 2.4	34 ± 1.9	40 ± 4.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				911 ± 49.5	831 ± 20.5
Positive Control ⁶	1236 ± 24.8	1430 ± 72.1	1221 ± 5.0		

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CAS Number: 81-11-8

Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	29 ± 1.2	32 ± 4.0	28 ± 3.5	31 ± 4.3
100.0		28 ± 2.4		
333.0	30 ± 7.2	24 ± 1.2		25 ± 0.7
1000.0	23 ± 2.5	32 ± 2.1		30 ± 2.3
3000.0			41 ± 5.2	
3333.0	34 ± 1.5	37 ± 0.9		29 ± 2.9
3500.0			36 ± 1.9	
4000.0	40 ± 4.0		40 ± 2.7	34 ± 3.8
4500.0	33 ± 3.3		33 ± 2.3	36 ± 5.7
5000.0	32 ± 5.9	61 ± 2.6	35 ± 2.0	38 ± 0.9
Trial Summary	Negative	Equivocal	Negative	Negative
Positive Control ²		875 ± 14.5	1241 ± 88.1	1023 ± 26.4
Positive Control ³	411 ± 17.5			
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: 95% Ethanol

2: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****