

Experiment Number: 248635

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 4-Aminobenzenesulfonic acid

CAS Number: 121-57-3

Date Report Requested: 09/10/2018

Time Report Requested: 20:32:08

NTP Study Number:

248635

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	95 ± 9.3	91 ± 4.9	95 ± 3.9	86 ± 7.3	95 ± 2.9
33.0	93 ± 3.4	77 ± 5.0	101 ± 3.7	81 ± 6.1	84 ± 13.7
100.0	74 ± 11.3	86 ± 3.5	89 ± 10.3	85 ± 3.9	94 ± 2.9
333.0	83 ± 8.4	89 ± 6.1	78 ± 5.8	88 ± 11.8	89 ± 5.8
1000.0	85 ± 3.5	85 ± 3.9	97 ± 1.7	92 ± 5.4	97 ± 2.2
1500.0	80 ± 5.5	85 ± 0.7	88 ± 4.7	68 ± 3.5	83 ± 2.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					385 ± 30.2
Positive Control ³	272 ± 12.0	370 ± 8.9			
Positive Control ⁴			351 ± 9.7		
Positive Control ⁵					
Positive Control ⁶				316 ± 24.3	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	95 ± 6.1
33.0	88 ± 1.5
100.0	93 ± 10.2
333.0	86 ± 5.5
1000.0	90 ± 0.6
1500.0	99 ± 3.8
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	262 ± 21.8
Positive Control ⁶	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	14 ± 2.7	14 ± 2.3	9 ± 2.6	10 ± 1.2	9 ± 1.5
33.0	12 ± 1.0	19 ± 3.2	8 ± 1.5	8 ± 2.3	6 ± 0.9
100.0	13 ± 1.5	22 ± 3.7	7 ± 1.5	11 ± 1.5	5 ± 1.2
333.0	12 ± 1.7	19 ± 0.0	7 ± 1.2	10 ± 0.9	8 ± 1.7
1000.0	12 ± 2.3	14 ± 0.0	8 ± 0.6	9 ± 1.9	6 ± 1.7
1500.0	9 ± 0.6	18 ± 1.2	8 ± 0.9	12 ± 0.6	7 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	84 ± 10.5	267 ± 7.0			
Positive Control ⁵					
Positive Control ⁶			89 ± 5.7	79 ± 6.7	35 ± 2.0

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	16 ± 2.0
33.0	10 ± 3.4
100.0	8 ± 2.8
333.0	8 ± 1.8
1000.0	10 ± 0.7
1500.0	6 ± 0.6
Trial Summary	Negative
Positive Control ³	
Positive Control ⁵	71 ± 2.9
Positive Control ⁶	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	81 ± 6.5	81 ± 1.7	116 ± 4.7	189 ± 0.3	107 ± 0.9
33.0	80 ± 6.2	92 ± 7.0	110 ± 1.5	169 ± 7.1	85 ± 9.7
100.0	80 ± 1.2	85 ± 6.8	111 ± 2.2	173 ± 5.0	110 ± 0.3
333.0	74 ± 3.0	78 ± 4.6	116 ± 7.5	184 ± 3.8	100 ± 8.8
1000.0	89 ± 1.3	90 ± 4.0	100 ± 6.7	208 ± 5.8	96 ± 11.0
1500.0	76 ± 4.3	88 ± 3.1	105 ± 5.9	194 ± 7.8	95 ± 1.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					477 ± 37.2
Positive Control ⁶			786 ± 43.0		
Positive Control ⁷				355 ± 16.2	
Positive Control ⁸	440 ± 46.3	331 ± 27.1			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	136 ± 4.7
33.0	132 ± 4.7
100.0	158 ± 2.7
333.0	130 ± 12.5
1000.0	134 ± 2.4
1500.0	132 ± 6.8
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁷	735 ± 7.4
Positive Control ⁸	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	16 ± 1.7	11 ± 2.2	31 ± 3.9	24 ± 2.6	37 ± 3.2
33.0	26 ± 2.1	15 ± 0.7	26 ± 4.4	15 ± 1.2	28 ± 4.9
100.0	15 ± 1.0	17 ± 1.5	28 ± 3.5	18 ± 1.5	35 ± 4.2
333.0	20 ± 2.4	13 ± 2.3	26 ± 0.7	22 ± 3.3	35 ± 6.2
1000.0	24 ± 4.1	12 ± 2.6	26 ± 5.2	23 ± 2.7	34 ± 2.6
1500.0	22 ± 3.4	11 ± 2.0	29 ± 4.1	25 ± 1.8	28 ± 4.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁹					145 ± 6.5
Positive Control ²			131 ± 4.7		
Positive Control ¹⁰	115 ± 5.5	192 ± 4.8			
Positive Control ⁵				69 ± 5.5	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	25 ± 1.7
33.0	26 ± 1.7
100.0	23 ± 1.7
333.0	29 ± 0.9
1000.0	27 ± 1.3
1500.0	23 ± 1.2
Trial Summary	Negative
Positive Control ⁹	
Positive Control ²	54 ± 2.8
Positive Control ¹⁰	
Positive Control ⁵	

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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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 2.5 ug/Plate 2-Aminoanthracene

8: 3.5 ug/Plate 9-Aminoacridine

9: 0.2 ug/Plate 2-Aminoanthracene

10: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****