

Experiment Number: 596890

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**

G06: Ames Summary Data

Test Compound: **Benzene sulfonic acid**

CAS Number: 98-11-3

Date Report Requested: 09/14/2018

Time Report Requested: 18:40:45

NTP Study Number:

596890

Study Result:

Negative

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Date Report Requested: 09/14/2018

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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	83 ± 4.7	73 ± 5.1	83 ± 3.4	98 ± 5.9	88 ± 11.9
100.0	96 ± 5.5	70 ± 2.2	81 ± 6.6	111 ± 5.1	90 ± 2.9
333.0	86 ± 6.0	73 ± 1.7	93 ± 5.2	95 ± 10.1	84 ± 8.2
1000.0	87 ± 3.2	57 ± 2.3	82 ± 3.9	89 ± 6.1	86 ± 0.7
3333.0	90 ± 7.5	65 ± 7.8	90 ± 7.7	95 ± 5.3	95 ± 6.4
6667.0	83 ± 8.1	77 ± 6.3			
10000.0			99 ± 4.7	93 ± 9.0 ^p	93 ± 7.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	385 ± 17.3	268 ± 19.6			
Positive Control ³			313 ± 15.9		354 ± 20.5
Positive Control ⁴					
Positive Control ⁵				273 ± 3.8	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	109 ± 7.4
100.0	108 ± 4.7
333.0	102 ± 6.1
1000.0	98 ± 3.4
3333.0	98 ± 1.0
6667.0	
10000.0	78 ± 7.0 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	296 ± 14.7
Positive Control ⁵	

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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 ± 2.1	12 ± 0.7	10 ± 3.4	10 ± 1.8	10 ± 2.5
100.0	19 ± 2.6	10 ± 1.5	7 ± 3.4	7 ± 1.2	9 ± 0.7
333.0	13 ± 4.2	12 ± 1.5	6 ± 1.9	8 ± 3.0	8 ± 1.8
1000.0	25 ± 1.7	11 ± 1.5	7 ± 1.9	9 ± 2.2	10 ± 1.8
3333.0	21 ± 1.0	13 ± 0.9	7 ± 1.2	8 ± 1.2	10 ± 1.9
6667.0	29 ± 4.5	14 ± 1.9			
10000.0			8 ± 1.5	8 ± 2.3 ^s	11 ± 0.0
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ⁶					48 ± 0.9
Positive Control ²	242 ± 14.6	113 ± 9.2			
Positive Control ⁴					
Positive Control ⁵			157 ± 10.3	68 ± 5.8	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	6 ± 2.2
100.0	6 ± 0.9
333.0	7 ± 0.7
1000.0	7 ± 1.5
3333.0	8 ± 0.3
6667.0	
10000.0	5 ± 0.3 ^p
Trial Summary	Negative
Positive Control ⁶	
Positive Control ²	
Positive Control ⁴	64 ± 1.9
Positive Control ⁵	

Experiment Number: 596890

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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	97 ± 5.3	86 ± 1.9	161 ± 8.4	142 ± 6.7	179 ± 10.9
100.0	89 ± 5.2	72 ± 3.5	163 ± 5.2	143 ± 7.8	169 ± 16.5
333.0	91 ± 6.7	65 ± 9.3	163 ± 14.9	156 ± 5.8	157 ± 7.5
1000.0	83 ± 1.8	59 ± 11.3	168 ± 3.0	140 ± 3.8	152 ± 7.5
3333.0	48 ± 7.5	52 ± 5.5	163 ± 5.7	146 ± 5.0	177 ± 5.0
6667.0	101 ± 6.4	50 ± 7.4			
10000.0			119 ± 5.6 ^s	96 ± 5.3 ^p	121 ± 7.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					459 ± 14.3
Positive Control ⁵			569 ± 10.4		
Positive Control ⁷				362 ± 15.3	
Positive Control ⁸	344 ± 21.3	225 ± 12.8			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	138 ± 12.0
100.0	138 ± 10.8
333.0	148 ± 5.4
1000.0	130 ± 1.8
3333.0	154 ± 4.0
6667.0	
10000.0	107 ± 4.6 ^p
Trial Summary	Negative
Positive Control ³	
Positive Control ⁵	
Positive Control ⁷	555 ± 7.8
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	14 ± 1.2	12 ± 2.3	24 ± 3.3	21 ± 3.2	22 ± 3.2
100.0	15 ± 4.0	14 ± 1.9	27 ± 2.9	20 ± 0.6	25 ± 4.0
333.0	17 ± 1.9	15 ± 1.2	24 ± 2.6	17 ± 2.6	22 ± 3.4
1000.0	14 ± 3.8	15 ± 2.6	24 ± 1.0	20 ± 1.8	33 ± 2.5
3333.0	17 ± 1.5	10 ± 1.7	24 ± 2.5	20 ± 3.8	26 ± 1.9
6667.0	14 ± 0.9	12 ± 1.5			
10000.0			20 ± 2.6 ^s	18 ± 5.0 ^p	28 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁹					131 ± 7.3
Positive Control ⁶			114 ± 6.2		
Positive Control ¹⁰	108 ± 0.9	117 ± 7.5			
Positive Control ⁴				90 ± 1.2	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	25 ± 2.8
100.0	22 ± 4.3
333.0	26 ± 4.0
1000.0	21 ± 3.8
3333.0	21 ± 1.9
6667.0	
10000.0	17 ± 0.9 ^p
Trial Summary	Negative
Positive Control ⁹	
Positive Control ⁶	86 ± 6.7
Positive Control ¹⁰	
Positive Control ⁴	

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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: 0.5 ug/Plate Sodium Azide

3: 0.75 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate 2-Aminoanthracene

5: 2.0 ug/Plate 2-Aminoanthracene

6: 0.4 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

p: Precipitate

s: Slight Toxicity

** END OF REPORT **