

Experiment Number: 603434

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 5-Sulfoanthranilic acid

CAS Number: 3577-63-7

Date Report Requested: 09/15/2018

Time Report Requested: 00:34:08

NTP Study Number:

603434

Study Result:

Equivocal

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Date Report Requested: 09/15/2018

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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	128 ± 5.7	119 ± 12.1	130 ± 8.0	109 ± 3.0	142 ± 4.3
100.0	127 ± 9.5	103 ± 12.2	143 ± 9.1	119 ± 7.9	141 ± 1.7
333.0	135 ± 12.2	101 ± 8.7	129 ± 13.2	114 ± 0.3	136 ± 18.5
1000.0	137 ± 9.1	107 ± 5.2	138 ± 5.5	117 ± 5.0	138 ± 7.9
3333.0	140 ± 11.3	110 ± 9.8	152 ± 9.2	124 ± 21.4	132 ± 1.9
6666.0		117 ± 10.2		90 ± 2.3 ^p	
10000.0	139 ± 0.0		143 ± 11.3 ^p		112 ± 21.1 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					395 ± 2.9
Positive Control ³	477 ± 16.0	325 ± 10.8			
Positive Control ⁴			390 ± 24.6	322 ± 11.4	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	129 ± 5.5
100.0	144 ± 8.7
333.0	141 ± 3.5
1000.0	129 ± 9.2
3333.0	136 ± 6.9
6666.0	97 ± 2.0 ^p
10000.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	630 ± 24.4

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 1% Rat S9	With 5% Rat S9	With 5% Rat S9
Vehicle Control ¹	35 ± 1.0	19 ± 1.2	16 ± 1.5	12 ± 4.4	12 ± 1.5
100.0	42 ± 1.2	14 ± 0.7			
333.0	38 ± 2.8	18 ± 0.6		11 ± 1.7	
1000.0	38 ± 5.0	15 ± 0.3	24 ± 0.9	7 ± 1.7	11 ± 2.6
3333.0	38 ± 2.7	14 ± 2.2	24 ± 3.0	7 ± 0.7	15 ± 1.2
6666.0		16 ± 3.5	22 ± 3.8 ^p	11 ± 0.9 ^p	13 ± 2.0 ^p
7500.0			31 ± 1.9 ^p		16 ± 4.8 ^p
10000.0	34 ± 2.4		39 ± 5.5 ^p	26 ± 2.0 ^p	25 ± 6.9 ^p
Trial Summary	Negative	Negative	Weakly Positive	Equivocal	Negative
Positive Control ³	487 ± 15.9	332 ± 11.9			
Positive Control ⁴					
Positive Control ⁵			350 ± 16.9	174 ± 13.9	353 ± 15.8

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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	14 ± 1.0	11 ± 0.3	10 ± 1.5	14 ± 1.2	16 ± 0.9
100.0	10 ± 1.2				11 ± 2.0
333.0	14 ± 0.6	11 ± 2.6		14 ± 2.3	10 ± 1.5
1000.0	13 ± 1.5	7 ± 1.2	10 ± 1.3	16 ± 2.6	11 ± 2.7
3333.0	11 ± 1.2	13 ± 2.0	14 ± 0.0	15 ± 0.9	11 ± 0.3
6666.0		10 ± 0.3 ^p	9 ± 1.7 ^p	7 ± 1.7 ^p	8 ± 1.9 ^p
7500.0			18 ± 6.4 ^p		
10000.0	33 ± 1.7 ^p	21 ± 3.3 ^p	23 ± 7.5 ^p	17 ± 1.7 ^p	
Trial Summary	Equivocal	Equivocal	Equivocal	Negative	Negative
Positive Control ³					
Positive Control ⁴					
Positive Control ⁵	199 ± 10.3	107 ± 7.6	266 ± 22.2	62 ± 4.9	68 ± 3.4

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	15 ± 0.9	9 ± 3.3
100.0	11 ± 2.0	9 ± 2.1
333.0	11 ± 1.2	8 ± 0.9
1000.0	10 ± 0.0	7 ± 2.1
3333.0	8 ± 1.5	5 ± 1.5
6666.0		4 ± 0.0 ^p
7500.0		
10000.0	17 ± 2.2 ^p	
Trial Summary	Negative	Negative
Positive Control ³		
Positive Control ⁴	176 ± 7.3	
Positive Control ⁵		473 ± 35.0

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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	131 ± 10.3	129 ± 10.3	131 ± 5.5	164 ± 21.0	173 ± 17.5
100.0	159 ± 6.8	147 ± 9.5	169 ± 13.3	171 ± 16.4	194 ± 3.7
333.0	168 ± 5.2	134 ± 21.3	161 ± 5.8	193 ± 3.3	180 ± 10.3
1000.0	153 ± 12.7	158 ± 4.4	177 ± 1.5	169 ± 10.8	179 ± 9.5
3333.0	148 ± 14.5	151 ± 10.0	176 ± 4.4	168 ± 19.1	181 ± 10.3
6666.0		120 ± 18.0		117 ± 38.1 ^p	
10000.0	125 ± 24.8		165 ± 3.3 ^p		141 ± 20.8 ^p
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ²					484 ± 15.1
Positive Control ⁴			410 ± 10.4		
Positive Control ⁵				291 ± 7.5	
Positive Control ⁶	569 ± 33.8	960 ± 6.5			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	124 ± 9.8
100.0	109 ± 3.7
333.0	98 ± 9.5
1000.0	106 ± 15.3
3333.0	107 ± 12.7
6666.0	42 ± 3.5 ^p
10000.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	358 ± 25.2
Positive Control ⁵	
Positive Control ⁶	

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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	25 ± 3.5	18 ± 1.2	39 ± 4.6	24 ± 0.7	38 ± 3.2
100.0	28 ± 2.7	18 ± 3.2	36 ± 1.7	26 ± 1.9	42 ± 7.1
333.0	24 ± 3.7	17 ± 1.0	43 ± 3.5	23 ± 1.2	40 ± 1.7
1000.0	24 ± 1.5	19 ± 1.3	44 ± 3.5	26 ± 3.2	38 ± 0.6
3333.0	30 ± 1.5	21 ± 1.5	34 ± 2.3	22 ± 2.1	45 ± 7.7
6666.0		17 ± 5.2		15 ± 3.6 ^p	
10000.0	26 ± 3.8		30 ± 0.5 ^p		24 ± 2.3 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					576 ± 48.2
Positive Control ⁴			462 ± 28.8	161 ± 9.0	
Positive Control ⁷	824 ± 40.3	795 ± 38.6			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	22 ± 2.1
100.0	25 ± 3.7
333.0	28 ± 0.7
1000.0	27 ± 3.7
3333.0	28 ± 5.2
6666.0	14 ± 2.0 ^p
10000.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	382 ± 24.9
Positive Control ⁷	

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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 2-Aminoanthracene
- 3: 1.0 ug/Plate Sodium Azide
- 4: 1.0 ug/Plate 2-Aminoanthracene
- 5: 2.5 ug/Plate 2-Aminoanthracene
- 6: 50.0 ug/Plate 9-Aminoacridine
- 7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- p: Precipitate

**** END OF REPORT ****