

Experiment Number: 768024

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Sulfamethazine

CAS Number: 57-68-1

Date Report Requested: 09/17/2018

Time Report Requested: 20:22:08

NTP Study Number:

768024

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	140 ± 5.3	132 ± 8.3	143 ± 4.8	119 ± 9.0	137 ± 3.8
3.3	132 ± 3.1	125 ± 12.9		106 ± 7.4	
10.0	132 ± 4.9	135 ± 2.4	153 ± 4.4	107 ± 6.2	134 ± 7.5
33.0	116 ± 4.9	115 ± 6.3	148 ± 10.3	103 ± 2.6	142 ± 8.4
100.0	99 ± 10.2	96 ± 1.8	94 ± 1.5	88 ± 5.5	113 ± 8.2
333.0	48 ± 1.5	73 ± 5.2	83 ± 5.0	58 ± 2.1	94 ± 2.9
1000.0			0 ± 0.0		0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1003 ± 20.8
Positive Control ³			389 ± 93.9	835 ± 16.0	
Positive Control ⁴	1285 ± 81.2	1238 ± 55.7			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	125 ± 3.4
3.3	136 ± 6.2
10.0	145 ± 6.5
33.0	124 ± 9.8
100.0	113 ± 7.6
333.0	81 ± 4.0
1000.0	
Trial Summary	Negative
Positive Control ²	781 ± 98.4
Positive Control ³	
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	32 ± 2.6	20 ± 2.3	14 ± 0.7	11 ± 1.0	12 ± 2.9
3.3	22 ± 3.6	18 ± 4.4			
10.0	23 ± 1.5	15 ± 1.7	12 ± 0.9	11 ± 2.4	13 ± 1.2
33.0	23 ± 0.9	17 ± 1.8	16 ± 1.5	12 ± 4.3	13 ± 2.0
100.0	23 ± 2.1	17 ± 1.2	12 ± 2.2	13 ± 4.0	11 ± 3.6
333.0	20 ± 4.4	19 ± 3.2	10 ± 0.9	10 ± 1.2	10 ± 1.2
1000.0			2 ± 0.9	6 ± 0.7	3 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					65 ± 1.7
Positive Control ³			47 ± 1.7	61 ± 1.9	
Positive Control ⁴	929 ± 17.3	905 ± 39.4			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 1.3
3.3	
10.0	14 ± 0.0
33.0	11 ± 1.2
100.0	13 ± 1.0
333.0	12 ± 2.5
1000.0	5 ± 1.7
Trial Summary	Negative
Positive Control ²	62 ± 3.8
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	6 ± 0.3	6 ± 1.7	6 ± 0.9	8 ± 1.2	8 ± 2.2
3.3	7 ± 0.9	7 ± 1.0			
10.0	8 ± 0.6	8 ± 2.0	9 ± 1.8	9 ± 1.5	8 ± 1.9
33.0	6 ± 0.3	7 ± 1.5	9 ± 1.5	9 ± 1.2	8 ± 1.5
100.0	4 ± 1.5	5 ± 0.6	5 ± 1.2	7 ± 1.5	12 ± 1.8
333.0	5 ± 0.6	4 ± 1.9	6 ± 1.7	7 ± 1.5	5 ± 1.8
1000.0			2 ± 0.9	3 ± 0.6	4 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					77 ± 2.8
Positive Control ³			38 ± 6.7	74 ± 2.5	
Positive Control ⁵	441 ± 14.7	113 ± 37.3			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.2
3.3	
10.0	5 ± 1.5
33.0	10 ± 2.0
100.0	6 ± 1.7
333.0	6 ± 1.2
1000.0	3 ± 0.6
Trial Summary	Negative
Positive Control ²	50 ± 1.5
Positive Control ³	
Positive Control ⁵	

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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 ± 0.3	14 ± 2.1	40 ± 2.0	27 ± 0.9	34 ± 0.6
3.3	19 ± 1.8	14 ± 1.8			
10.0	20 ± 1.3	13 ± 2.3	28 ± 2.7	31 ± 1.8	25 ± 0.9
33.0	20 ± 3.2	15 ± 3.2	28 ± 3.2	26 ± 3.0	33 ± 2.2
100.0	18 ± 2.5	16 ± 6.2	24 ± 3.7	23 ± 3.6	26 ± 4.7
333.0	10 ± 0.3	14 ± 2.2	23 ± 5.0	22 ± 1.3	29 ± 0.7
1000.0			11 ± 0.3	20 ± 0.3	17 ± 1.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1087 ± 68.2
Positive Control ³			290 ± 44.7	705 ± 43.4	
Positive Control ⁶	1539 ± 47.9	1041 ± 20.3			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	28 ± 2.5
3.3	
10.0	33 ± 0.7
33.0	31 ± 1.2
100.0	26 ± 0.6
333.0	24 ± 1.2
1000.0	9 ± 0.3
Trial Summary	Negative
Positive Control ²	674 ± 16.4
Positive Control ³	
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: 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 **