

Experiment Number: 561704

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

G06: Ames Summary Data

Test Compound: **Streptomycin sulfate**

CAS Number: **3810-74-0**

Date Report Requested: **09/13/2018**

Time Report Requested: **22:45:15**

NTP Study Number:

561704

Study Result:

Weakly Positive

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Test Compound: Streptomycin sulfate

CAS Number: 3810-74-0

Date Report Requested: 09/13/2018

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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	158 ± 8.4	173 ± 6.1	119 ± 10.0	133 ± 3.2	123 ± 3.2
3.3	148 ± 5.2	144 ± 4.4			
10.0	145 ± 16.3	155 ± 8.4	144 ± 4.6	128 ± 17.3	117 ± 5.1
33.0	157 ± 9.4	148 ± 1.9	137 ± 3.8	131 ± 1.7	122 ± 12.4
100.0	154 ± 4.5	138 ± 5.0	132 ± 16.2	124 ± 10.8	117 ± 6.1
333.0	113 ± 11.0 ^s	127 ± 4.3 ^s	111 ± 10.1	116 ± 5.2	102 ± 3.9
666.0			57 ± 5.9 ^s	54 ± 4.3 ^s	52 ± 8.4 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					2198 ± 225.5
Positive Control ³			1587 ± 174.0	1788 ± 106.0	
Positive Control ⁴	2307 ± 29.3	2215 ± 53.2			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	138 ± 3.1
3.3	
10.0	137 ± 1.0
33.0	126 ± 14.7
100.0	128 ± 6.4
333.0	138 ± 6.2
666.0	51 ± 4.0 ^s
Trial Summary	Negative
Positive Control ²	2932 ± 73.5
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	37 ± 4.4	37 ± 5.2	13 ± 1.8	13 ± 0.6	14 ± 3.0
3.3	41 ± 4.4	29 ± 1.2			
10.0	36 ± 0.3	26 ± 0.7	12 ± 0.9	13 ± 2.6	11 ± 0.9
33.0	40 ± 1.9	30 ± 0.9	11 ± 2.6	9 ± 0.9	14 ± 0.9
100.0	38 ± 1.5	25 ± 4.8	11 ± 2.4	9 ± 1.3	11 ± 3.6
333.0	36 ± 2.3	26 ± 0.9	14 ± 1.8	11 ± 2.6	9 ± 1.0
666.0			7 ± 2.3	10 ± 1.0 ^s	5 ± 0.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					209 ± 19.1
Positive Control ³			99 ± 3.2	149 ± 1.8	
Positive Control ⁴	1973 ± 13.7	1461 ± 38.8			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	12 ± 2.1
3.3	
10.0	9 ± 1.8
33.0	10 ± 1.7
100.0	13 ± 3.5
333.0	8 ± 1.3
666.0	9 ± 0.7 ^s
Trial Summary	Negative
Positive Control ²	234 ± 16.3
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 ± 2.6	6 ± 0.7	10 ± 0.0	6 ± 1.5	12 ± 1.7
3.3	6 ± 1.2	7 ± 0.9			
10.0	12 ± 1.9	7 ± 1.2	13 ± 1.2	10 ± 2.0	9 ± 2.2
33.0	7 ± 1.8	5 ± 0.4	12 ± 0.9	5 ± 0.6	12 ± 2.4
100.0	10 ± 0.9	7 ± 0.7	12 ± 1.9	11 ± 1.2	7 ± 3.4
333.0	10 ± 1.2 ^s	7 ± 1.3 ^s	12 ± 0.9	8 ± 2.3	10 ± 1.7
666.0			12 ± 0.3	6 ± 0.9 ^s	9 ± 1.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					244 ± 22.5
Positive Control ³			166 ± 15.7	187 ± 20.7	
Positive Control ⁵	422 ± 84.7	775 ± 89.9			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 2.2
3.3	
10.0	8 ± 1.2
33.0	12 ± 2.9
100.0	11 ± 0.7
333.0	7 ± 1.2
666.0	10 ± 1.2
Trial Summary	Negative
Positive Control ²	375 ± 26.8
Positive Control ³	
Positive Control ⁵	

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Strain: TA1538

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	12 ± 2.7	22 ± 5.0	22 ± 2.3
10.0	13 ± 2.1		
33.0	13 ± 2.1		
100.0	17 ± 2.3	25 ± 2.3	26 ± 4.7
333.0	20 ± 0.9	43 ± 1.9	47 ± 2.1
444.0	22 ± 2.6	55 ± 3.4	50 ± 3.5
555.0		65 ± 6.1	50 ± 4.4
666.0		72 ± 6.6	61 ± 5.0
Trial Summary	Negative	Positive	Positive
Positive Control ⁶		159 ± 10.8	1058 ± 88.6
Positive Control ⁷	1852 ± 106.0		

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	Without S9
Vehicle Control ¹	23 ± 1.5	18 ± 3.5	21 ± 0.7	16 ± 1.5	35 ± 4.0
3.3	24 ± 0.7		18 ± 5.2		
10.0	23 ± 2.0	27 ± 1.2	17 ± 1.2	15 ± 0.7	37 ± 1.8
33.0	20 ± 3.9	17 ± 2.8	23 ± 2.9	18 ± 0.9	27 ± 1.9
100.0	23 ± 3.2	25 ± 3.8	22 ± 1.2	18 ± 3.9	27 ± 3.3
333.0	25 ± 4.5	26 ± 1.8 ^s	24 ± 2.4	25 ± 1.7	41 ± 1.2
444.0		26 ± 0.3 ^s		28 ± 1.8	53 ± 4.9
555.0					
666.0					
Trial Summary	Negative	Negative	Negative	Equivocal	Equivocal
Positive Control ²					
Positive Control ⁶					
Positive Control ³					
Positive Control ⁷					904 ± 214.5
Positive Control ⁸	1325 ± 24.0	1184 ± 26.9	1913 ± 52.4	1798 ± 21.4	

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Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	26 ± 3.2	30 ± 0.6	23 ± 1.7	26 ± 1.9	38 ± 3.1
3.3					
10.0	30 ± 3.0	21 ± 4.6	36 ± 3.4		
33.0	42 ± 4.2		29 ± 0.7		
100.0	40 ± 0.9	25 ± 1.2	38 ± 1.2	32 ± 1.7	47 ± 3.9
333.0	45 ± 2.4	37 ± 2.3	34 ± 3.1	38 ± 3.5	55 ± 3.8
444.0		37 ± 1.2 ^s		40 ± 5.9	60 ± 2.3
555.0		39 ± 2.8 ^s		44 ± 2.1	70 ± 7.8
666.0	55 ± 4.6 ^s	36 ± 8.1 ^s	48 ± 1.7 ^s	45 ± 3.8	72 ± 2.3
Trial Summary	Positive	Negative	Equivocal	Equivocal	Positive
Positive Control ²					
Positive Control ⁶					195 ± 11.4
Positive Control ³	1083 ± 112.2	909 ± 43.2	1455 ± 22.0	911 ± 57.5	
Positive Control ⁷					
Positive Control ⁸					

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	33 ± 1.3	25 ± 3.0	33 ± 4.4	31 ± 6.5	40 ± 1.7
3.3					
10.0	27 ± 1.3	33 ± 5.2	31 ± 3.2		
33.0	32 ± 2.2		33 ± 1.2		
100.0	36 ± 4.6	29 ± 1.2	37 ± 1.2	39 ± 1.9	43 ± 5.2
333.0	49 ± 1.9	47 ± 4.1	51 ± 5.8	41 ± 4.0	63 ± 2.9
444.0		43 ± 3.9 ^s		42 ± 4.6	65 ± 6.8
555.0		44 ± 0.6 ^s		46 ± 2.1	66 ± 3.0
666.0	45 ± 5.6 ^s	38 ± 5.0 ^s	55 ± 3.2 ^s	48 ± 3.5	85 ± 5.1
Trial Summary	Equivocal	Equivocal	Equivocal	Equivocal	Positive
Positive Control ²	1934 ± 62.6	1667 ± 122.7	2566 ± 121.9	1689 ± 39.5	
Positive Control ⁶					1261 ± 10.4
Positive Control ³					
Positive Control ⁷					
Positive Control ⁸					

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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: Water

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: 1.0 ug/Plate 2-Aminoanthracene

7: 10.0 ug/Plate 2-Nitrofluorene

8: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

** END OF REPORT **