

Experiment Number: 113010

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

**G06: Ames Summary Data**

Test Compound: **Streptomycin sulfate**

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

Date Report Requested: **09/11/2018**

Time Report Requested: **20:03:08**

**NTP Study Number:**

113010

**Study Result:**

Weakly Positive

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Mutagenicity

## G06: Ames Summary Data

Test Compound: Streptomycin sulfate

CAS Number: 3810-74-0

Date Report Requested: 09/11/2018

Time Report Requested: 20:03:08

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	84 ± 2.3	128 ± 4.7	115 ± 8.2	115 ± 7.5	112 ± 1.7
33.3	101 ± 1.5	101 ± 6.7	96 ± 8.1	108 ± 4.8	97 ± 9.2
100.0	87 ± 7.2	107 ± 9.9	91 ± 3.2	114 ± 7.1	99 ± 4.4
333.3	92 ± 3.8	107 ± 3.3	83 ± 2.0	94 ± 2.2	98 ± 7.8
1000.0	77 ± 5.5	93 ± 10.0	58 ± 3.3 <sup>s</sup>	83 ± 10.7	76 ± 6.1
3333.3	50 ± 1.9 <sup>s</sup>	66 ± 10.4	0 ± 0.0 <sup>s</sup>	27 ± 5.8 <sup>s</sup>	33 ± 6.8 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			593 ± 4.4	839 ± 28.5	1006 ± 58.0
Positive Control <sup>3</sup>	519 ± 14.7	484 ± 9.6			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	125 ± 7.5
33.3	112 ± 8.5
100.0	110 ± 6.2
333.3	98 ± 3.7
1000.0	96 ± 3.5
3333.3	22 ± 2.4 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	1526 ± 17.3
Positive Control <sup>3</sup>	

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Test Compound: Streptomycin sulfate

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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 <sup>1</sup>	20 ± 2.6	29 ± 4.6	9 ± 2.9	15 ± 2.0	13 ± 2.0
33.3	25 ± 4.7	22 ± 2.3	7 ± 1.5	13 ± 2.6	10 ± 3.3
100.0	22 ± 1.9	21 ± 6.0	7 ± 0.9	14 ± 3.8	10 ± 4.4
333.3	24 ± 3.2	25 ± 5.4	6 ± 0.3	15 ± 1.2	9 ± 2.0
1000.0	23 ± 3.0	13 ± 0.7	4 ± 1.2 <sup>s</sup>	8 ± 1.5 <sup>s</sup>	4 ± 0.6 <sup>s</sup>
3333.3	7 ± 1.3 <sup>s</sup>	4 ± 1.9 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	0 ± 0.3 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>	512 ± 18.9	433 ± 9.9			
Positive Control <sup>4</sup>			311 ± 6.4	210 ± 6.0	400 ± 19.3

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Test Compound: Streptomycin sulfate

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	14 ± 1.8
33.3	18 ± 1.7
100.0	14 ± 0.9
333.3	15 ± 0.7
1000.0	9 ± 0.9
3333.3	3 ± 0.6 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	401 ± 10.6

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## G06: Ames Summary Data

Test Compound: Streptomycin sulfate

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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 <sup>1</sup>	8 ± 1.0	9 ± 1.5	13 ± 3.2	16 ± 1.8	15 ± 1.2
33.3	6 ± 0.9	7 ± 0.6	12 ± 0.9	9 ± 2.0	18 ± 1.5
100.0	8 ± 3.1	7 ± 0.6	11 ± 1.7	13 ± 0.6	17 ± 3.0
333.3	10 ± 1.2	7 ± 0.9	13 ± 2.0	7 ± 0.3	19 ± 1.9
1000.0	13 ± 2.1	6 ± 0.9	8 ± 0.3	10 ± 1.2	13 ± 2.7
3333.3	11 ± 2.8	7 ± 0.9	5 ± 3.5 <sup>s</sup>	3 ± 0.6 <sup>s</sup>	10 ± 3.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			493 ± 132.1	157 ± 4.2	376 ± 12.0
Positive Control <sup>5</sup>	119 ± 22.5	286 ± 38.5			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	20 ± 0.6
33.3	15 ± 1.9
100.0	16 ± 1.2
333.3	13 ± 1.7
1000.0	11 ± 3.0
3333.3	5 ± 1.9 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>4</sup>	281 ± 16.3
Positive Control <sup>5</sup>	

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Test Compound: Streptomycin sulfate

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	31 ± 6.9	16 ± 1.5	26 ± 4.0	37 ± 1.3	20 ± 3.8
33.3	21 ± 4.0			33 ± 3.5	
100.0	20 ± 3.2			34 ± 3.5	
333.3	27 ± 1.7	18 ± 0.6	20 ± 4.6	25 ± 3.3	33 ± 3.8
666.7		19 ± 0.6	19 ± 3.5		39 ± 1.3
1000.0	33 ± 2.9	32 ± 3.8	11 ± 3.5	50 ± 1.5	51 ± 5.3
1666.7		25 ± 2.9	6 ± 5.4 <sup>s</sup>		54 ± 1.0
3333.3	69 ± 10.7	7 ± 2.6	Toxic	58 ± 3.0	40 ± 2.5
Trial Summary	Equivocal	Equivocal	Negative	Equivocal	Positive
Positive Control <sup>2</sup>					956 ± 33.1
Positive Control <sup>6</sup>	649 ± 11.2	615 ± 9.0	738 ± 59.5	472 ± 14.2	



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## Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	36 ± 2.3	44 ± 2.3	41 ± 2.0	46 ± 4.2	29 ± 2.1
33.3		45 ± 2.3	77 ± 29.7		
100.0		44 ± 0.3	69 ± 19.5		
333.3	46 ± 2.3	53 ± 5.4	56 ± 4.3	33 ± 4.5	37 ± 4.4
666.7	56 ± 6.1			36 ± 6.2	55 ± 7.3
1000.0	59 ± 4.3	72 ± 3.8	66 ± 3.5	50 ± 3.8	50 ± 6.1
1666.7	57 ± 4.1			39 ± 1.2	56 ± 6.4
3333.3	33 ± 5.2 <sup>s</sup>	72 ± 7.2	80 ± 8.4 <sup>s</sup>	15 ± 5.8 <sup>s</sup>	15 ± 3.5 <sup>s</sup>
Trial Summary	Equivocal	Equivocal	Weakly Positive	Negative	Weakly Positive
Positive Control <sup>2</sup>	847 ± 64.9	570 ± 53.5	1389 ± 14.2	1397 ± 41.3	1596 ± 54.6
Positive Control <sup>6</sup>					

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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	47 ± 4.5
33.3	45 ± 3.2
100.0	47 ± 3.8
333.3	46 ± 1.5
666.7	
1000.0	71 ± 5.0
1666.7	
3333.3	73 ± 16.7
Trial Summary	Equivocal
Positive Control <sup>2</sup>	1391 ± 32.4
Positive Control <sup>6</sup>	

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### **LEGEND**

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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: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**\*\* END OF REPORT \*\***