

Experiment Number: 725993

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

**G06: Ames Summary Data**

Test Compound: **Streptomycin sulfate**

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

Date Report Requested: **09/12/2018**

Time Report Requested: **19:27:16**

**NTP Study Number:**

725993

**Study Result:**

Negative

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## G06: Ames Summary Data

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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 <sup>1</sup>	127 ± 10.8	116 ± 12.2	178 ± 2.4	169 ± 6.1	169 ± 1.2
3.3		96 ± 12.0		144 ± 15.9	
10.0		101 ± 2.8		133 ± 6.2	
33.0	127 ± 2.0	100 ± 8.2	187 ± 14.7	155 ± 12.4	177 ± 4.6
100.0	130 ± 8.7	97 ± 11.0	173 ± 8.5	147 ± 9.2	144 ± 5.4
333.0	103 ± 9.3	95 ± 3.5	124 ± 9.8	127 ± 4.5	112 ± 13.5
1000.0	60 ± 3.7		Toxic		Toxic
3333.0	15 ± 11.0		16 ± 5.8		9 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			420 ± 34.3	830 ± 50.7	978 ± 82.3
Positive Control <sup>3</sup>	450 ± 4.9	654 ± 34.9			

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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>	156 ± 12.0
3.3	150 ± 15.9
10.0	139 ± 11.6
33.0	165 ± 13.9
100.0	157 ± 24.3
333.0	136 ± 17.6
1000.0	
3333.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	1019 ± 108.8
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>	19 ± 3.0	6 ± 2.3	20 ± 3.0	10 ± 1.9	15 ± 0.7
3.3		7 ± 1.9		10 ± 0.7	
10.0		5 ± 0.6		6 ± 0.9	
33.0	12 ± 1.3	6 ± 1.2	16 ± 2.3	10 ± 1.2	17 ± 1.3
100.0	16 ± 0.3	6 ± 1.9	19 ± 3.6	10 ± 1.8	15 ± 2.9
333.0	16 ± 2.3	7 ± 0.9	12 ± 0.7	11 ± 2.7	14 ± 2.3
1000.0	11 ± 2.0		Toxic		Toxic
3333.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			69 ± 9.3	54 ± 6.9	184 ± 7.8
Positive Control <sup>3</sup>	686 ± 21.9	626 ± 13.2			

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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 ± 2.2
3.3	14 ± 0.6
10.0	11 ± 1.5
33.0	11 ± 2.7
100.0	11 ± 1.8
333.0	10 ± 1.7
1000.0	
3333.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	77 ± 30.9
Positive Control <sup>3</sup>	

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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>	7 ± 0.7	4 ± 1.5	7 ± 0.7	7 ± 0.3	8 ± 0.3
3.3		4 ± 0.3		8 ± 0.7	
10.0		5 ± 0.6		7 ± 1.5	
33.0	5 ± 1.5	4 ± 1.2	8 ± 0.9	4 ± 1.9	11 ± 2.0
100.0	6 ± 1.5	3 ± 0.6	11 ± 2.5	8 ± 1.2	9 ± 0.6
333.0	5 ± 1.0	4 ± 0.3	10 ± 1.3	8 ± 1.2	8 ± 1.8
1000.0	5 ± 0.9		Toxic		Toxic
3333.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			41 ± 1.0	57 ± 11.6	125 ± 6.9
Positive Control <sup>4</sup>	366 ± 21.5	182 ± 23.4			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	5 ± 1.5
3.3	7 ± 0.6
10.0	8 ± 1.2
33.0	6 ± 1.2
100.0	5 ± 0.6
333.0	8 ± 2.8
1000.0	
3333.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	67 ± 3.7
Positive Control <sup>4</sup>	

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## G06: Ames Summary Data

Test Compound: Streptomycin sulfate

CAS Number: 3810-74-0

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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 <sup>1</sup>	16 ± 2.7	19 ± 3.5	23 ± 1.3	21 ± 2.0	24 ± 0.0
3.3		14 ± 3.1		24 ± 0.7	
10.0		15 ± 1.0		23 ± 0.9	
33.0	14 ± 4.1	17 ± 1.2	25 ± 3.8	23 ± 0.9	29 ± 4.6
100.0	16 ± 1.5	17 ± 1.5	28 ± 4.4	26 ± 1.2	23 ± 2.0
333.0	10 ± 1.5	15 ± 2.4	24 ± 3.2	23 ± 0.7	24 ± 2.9
1000.0	16 ± 3.2		14 ± 0.7		17 ± 2.9
3333.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			655 ± 19.7	913 ± 89.3	1186 ± 143.2
Positive Control <sup>5</sup>	207 ± 9.2	344 ± 23.1			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	24 ± 0.3
3.3	23 ± 2.1
10.0	29 ± 2.5
33.0	23 ± 3.2
100.0	25 ± 1.2
333.0	23 ± 0.3
1000.0	
3333.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	1086 ± 38.4
Positive Control <sup>5</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: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

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