

Experiment Number: **782804**

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

**G06: Ames Summary Data**

Test Compound: **Sulfamethizole**

CAS Number: **144-82-1**

Date Report Requested: **09/18/2018**

Time Report Requested: **01:42:57**

**NTP Study Number:**

782804

**Study Result:**

Negative

Experiment Number: 782804

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Mutagenicity

## G06: Ames Summary Data

Test Compound: Sulfamethizole

CAS Number: 144-82-1

Date Report Requested: 09/18/2018

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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 <sup>1</sup>	120 ± 3.2	116 ± 7.8	111 ± 7.8	114 ± 6.9	106 ± 4.4
1.0	110 ± 11.8	102 ± 6.5			
3.0	113 ± 9.1	100 ± 18.9	102 ± 8.4	131 ± 2.8	105 ± 7.8
10.0	121 ± 10.6	107 ± 3.8	92 ± 10.8	122 ± 12.7	100 ± 6.7
33.0	90 ± 5.9	96 ± 3.2	90 ± 10.3	124 ± 9.8	81 ± 3.2
100.0	73 ± 10.8	122 ± 12.7	72 ± 11.1	114 ± 12.7	69 ± 5.2
333.0			7 ± 6.7 <sup>s</sup>	84 ± 10.4	15 ± 5.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			534 ± 46.0	1075 ± 61.0	1469 ± 61.2
Positive Control <sup>3</sup>	358 ± 7.0	361 ± 3.2			

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	135 ± 6.9
1.0	
3.0	127 ± 11.1
10.0	121 ± 3.5
33.0	130 ± 4.3
100.0	120 ± 6.1
333.0	100 ± 6.1
Trial Summary	Negative
Positive Control <sup>2</sup>	1316 ± 178.5
Positive Control <sup>3</sup>	

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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>	24 ± 2.6	35 ± 4.6	10 ± 2.2	9 ± 2.3	10 ± 2.4
1.0	29 ± 4.8	23 ± 5.7			
3.0	29 ± 4.3	14 ± 3.6	11 ± 1.5	7 ± 0.9	11 ± 4.4
10.0	24 ± 7.5	21 ± 4.3	9 ± 1.9	6 ± 1.0	7 ± 1.5
33.0	28 ± 5.4	22 ± 2.7	7 ± 0.6	8 ± 2.3	7 ± 2.4
100.0	19 ± 3.2	23 ± 2.1	6 ± 0.9	7 ± 1.2	8 ± 2.5
333.0			2 ± 0.7	7 ± 0.7	0 ± 0.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>	375 ± 15.5	449 ± 32.9			
Positive Control <sup>4</sup>			146 ± 2.8	209 ± 9.0	381 ± 7.9

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	16 ± 1.5
1.0	
3.0	8 ± 2.9
10.0	10 ± 2.3
33.0	7 ± 0.7
100.0	10 ± 1.8
333.0	5 ± 1.5
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	564 ± 13.0

Experiment Number: 782804

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## G06: Ames Summary Data

Test Compound: Sulfamethizole

CAS Number: 144-82-1

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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>	5 ± 0.6	5 ± 1.5	7 ± 0.7	7 ± 2.1	6 ± 1.0
1.0	7 ± 1.0	5 ± 0.9			
3.0	5 ± 0.3	4 ± 0.0	9 ± 1.5	6 ± 0.0	11 ± 1.9
10.0	6 ± 1.2	5 ± 0.7	8 ± 2.2	8 ± 0.7	8 ± 2.9
33.0	5 ± 1.8	3 ± 0.7	6 ± 0.3	3 ± 0.7	7 ± 2.6
100.0	4 ± 0.9	4 ± 1.0	5 ± 1.7	5 ± 0.6	3 ± 0.3
333.0			0 ± 0.3 <sup>s</sup>	5 ± 0.6	0 ± 0.3 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			157 ± 8.7	210 ± 1.8	424 ± 75.9
Positive Control <sup>5</sup>	184 ± 4.7	181 ± 11.0			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	5 ± 0.7
1.0	
3.0	6 ± 1.0
10.0	6 ± 1.2
33.0	4 ± 0.3
100.0	5 ± 0.7
333.0	4 ± 0.6
Trial Summary	Negative
Positive Control <sup>4</sup>	357 ± 66.4
Positive Control <sup>5</sup>	

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## G06: Ames Summary Data

Test Compound: Sulfamethizole

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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>	15 ± 0.6	20 ± 3.5	17 ± 3.6	28 ± 0.9	25 ± 2.2
1.0	16 ± 2.4	21 ± 2.8			
3.0	17 ± 1.2	14 ± 1.2	21 ± 2.2	26 ± 3.8	30 ± 4.8
10.0	18 ± 3.9	16 ± 2.3	27 ± 4.8	25 ± 5.7	21 ± 3.2
33.0	16 ± 0.3	15 ± 2.1	24 ± 1.7	21 ± 5.4	20 ± 3.8
100.0	10 ± 3.1	15 ± 0.9	17 ± 0.3	25 ± 2.6	24 ± 1.9
333.0			5 ± 5.0 <sup>s</sup>	19 ± 2.9	3 ± 2.7 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			473 ± 34.3	919 ± 31.5	1274 ± 85.7
Positive Control <sup>6</sup>	626 ± 20.6	876 ± 40.7			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	28 ± 2.3
1.0	
3.0	23 ± 2.0
10.0	24 ± 2.0
33.0	17 ± 1.5
100.0	21 ± 0.3
333.0	20 ± 6.4
Trial Summary	Negative
Positive Control <sup>2</sup>	1543 ± 78.5
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: Dimethyl Sulfoxide

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 \*\***