

Experiment Number: 510387

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

G06: Ames Summary Data

Test Compound: **Sulfathiazole**

CAS Number: 72-14-0

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

Time Report Requested: **11:09:28**

NTP Study Number:

510387

Study Result:

Negative

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Sulfathiazole

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Date Report Requested: 09/12/2018

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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	114 ± 8.2	121 ± 9.4	111 ± 0.9	107 ± 5.0	113 ± 1.7
1.0	94 ± 3.5	114 ± 12.7	99 ± 8.8	110 ± 8.3	100 ± 5.3
3.0	102 ± 3.5	107 ± 1.0	114 ± 2.8	121 ± 9.0	107 ± 12.3
10.0	92 ± 5.8	97 ± 3.3	110 ± 15.6	105 ± 14.1	115 ± 6.7
16.0		105 ± 10.1		103 ± 7.0	
33.0	79 ± 2.4	100 ± 8.4	77 ± 4.3	106 ± 7.1	80 ± 4.2
100.0	29 ± 4.7		56 ± 7.2		71 ± 6.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	452 ± 17.6	350 ± 15.1			
Positive Control ³			523 ± 23.5	1662 ± 150.1	1601 ± 91.1

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	118 ± 10.5
1.0	113 ± 10.7
3.0	102 ± 2.0
10.0	119 ± 5.1
16.0	110 ± 0.9
33.0	101 ± 2.0
100.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	1345 ± 24.2

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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	36 ± 2.6	30 ± 1.2	11 ± 1.7	13 ± 2.6	12 ± 3.8
1.0	26 ± 6.8	22 ± 1.2	11 ± 1.8	9 ± 1.5	8 ± 3.1
3.0	17 ± 2.2	24 ± 5.0	9 ± 1.5	12 ± 3.2	10 ± 2.7
10.0	17 ± 2.5	22 ± 2.7	10 ± 1.5	9 ± 0.0	8 ± 0.7
16.0		31 ± 3.8		10 ± 3.2	
33.0	16 ± 1.0	25 ± 3.5	5 ± 1.2	12 ± 1.5	7 ± 0.6
100.0	2 ± 1.7 ^s		4 ± 1.0		4 ± 1.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	448 ± 1.0	452 ± 44.6			
Positive Control ⁴			185 ± 3.8	657 ± 41.2	476 ± 26.5

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Test Compound: **Sulfathiazole**

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	13 ± 0.3
1.0	13 ± 3.3
3.0	11 ± 3.0
10.0	12 ± 0.3
16.0	13 ± 5.3
33.0	14 ± 1.2
100.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	457 ± 27.3

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Sulfathiazole

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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	9 ± 0.6	4 ± 1.5	9 ± 3.7	8 ± 2.2	8 ± 2.3
1.0	6 ± 0.7	5 ± 1.2	7 ± 0.9	4 ± 0.7	6 ± 0.3
3.0	5 ± 1.2	5 ± 1.7	8 ± 2.7	5 ± 0.6	8 ± 2.3
10.0	5 ± 1.0	6 ± 1.3	7 ± 0.3	5 ± 1.5	7 ± 2.5
16.0		5 ± 0.0		7 ± 2.5	
33.0	4 ± 1.0	4 ± 0.6	8 ± 0.9	3 ± 0.7	5 ± 1.0
100.0	4 ± 1.2		4 ± 0.3		3 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			149 ± 9.0	149 ± 8.5	316 ± 24.9
Positive Control ⁵	137 ± 24.3	199 ± 19.2			

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Test Compound: **Sulfathiazole**

CAS Number: **72-14-0**

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

Time Report Requested: **11:09:28**

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 0.6
1.0	7 ± 2.4
3.0	6 ± 1.0
10.0	9 ± 2.2
16.0	7 ± 1.5
33.0	7 ± 2.4
100.0	
Trial Summary	Negative
Positive Control ⁴	405 ± 31.8
Positive Control ⁵	

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Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	19 ± 2.4	20 ± 3.8	32 ± 1.9	32 ± 2.3	29 ± 3.6
1.0	14 ± 2.6	16 ± 2.1	23 ± 1.2	27 ± 3.5	33 ± 1.8
3.0	16 ± 0.9	16 ± 1.7	21 ± 5.1	23 ± 3.3	27 ± 1.5
10.0	15 ± 1.5	17 ± 3.3	29 ± 0.7	23 ± 3.2	27 ± 5.0
16.0		12 ± 1.8		26 ± 0.6	
33.0	12 ± 2.6	15 ± 5.2	20 ± 2.9	25 ± 1.2	24 ± 2.2
100.0	8 ± 2.3		18 ± 6.1		19 ± 1.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			391 ± 11.1	1380 ± 51.7	1573 ± 74.7
Positive Control ⁶	738 ± 13.0	400 ± 8.0			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	23 ± 3.7
1.0	27 ± 1.5
3.0	26 ± 6.1
10.0	28 ± 4.9
16.0	29 ± 1.5
33.0	33 ± 3.3
100.0	
Trial Summary	Negative
Positive Control ³	1152 ± 4.9
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: 1.0 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

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 ****