

Experiment Number: 368591

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

G06: Ames Summary Data

Test Compound: **Pyrimethamine**

CAS Number: **58-14-0**

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

Time Report Requested: **21:19:08**

NTP Study Number:

368591

Study Result:

Negative

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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	86 ± 17.6	116 ± 5.3	91 ± 17.4	207 ± 12.2	122 ± 15.9
10.0	108 ± 6.8	136 ± 8.9		152 ± 11.7	
33.0	97 ± 9.8	135 ± 8.6		199 ± 16.4	
100.0	100 ± 4.8	134 ± 5.8	137 ± 16.2	189 ± 17.1	149 ± 7.5
333.0	103 ± 5.5	33 ± 4.0	131 ± 12.3	53 ± 5.6	153 ± 10.6
1000.0	38 ± 10.5	0 ± 0.0 ^p	146 ± 25.1	0 ± 0.3 ^p	109 ± 17.9
3333.0			4 ± 2.3 ^p		3 ± 1.7 ^p
10000.0			0 ± 0.0 ^p		0 ± 0.0 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1741 ± 146.1	1799 ± 170.8	1834 ± 79.6
Positive Control ³	886 ± 44.0	737 ± 93.2			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	139 ± 10.7
10.0	164 ± 7.7
33.0	147 ± 15.9
100.0	162 ± 10.9
333.0	146 ± 29.5
1000.0	12 ± 4.4 ^P
3333.0	
10000.0	
Trial Summary	Negative
Positive Control ²	2567 ± 133.7
Positive Control ³	

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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	6 ± 0.7	12 ± 2.4	10 ± 1.5	14 ± 3.0	5 ± 2.0
10.0	8 ± 1.0	11 ± 3.2		10 ± 1.2	
33.0	4 ± 0.7	9 ± 0.7		10 ± 2.7	
100.0	7 ± 0.3	9 ± 2.3	9 ± 0.9	20 ± 4.4	9 ± 0.9
333.0	4 ± 1.2	3 ± 2.4	4 ± 0.3	5 ± 1.3	9 ± 1.2
1000.0	1 ± 0.6	1 ± 1.0	0 ± 0.0	2 ± 0.9	1 ± 0.0
3333.0			1 ± 0.3 ^p		0 ± 0.0 ^p
10000.0			0 ± 0.0 ^p		0 ± 0.0 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			48 ± 5.6	153 ± 19.2	41 ± 1.5
Positive Control ³	417 ± 48.4	508 ± 7.4			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	15 ± 3.1
10.0	16 ± 0.9
33.0	12 ± 3.3
100.0	17 ± 1.9
333.0	9 ± 3.8
1000.0	2 ± 0.9
3333.0	
10000.0	
Trial Summary	Negative
Positive Control ²	72 ± 7.2
Positive Control ³	

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Test Compound: Pyrimethamine

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Date Report Requested: 09/13/2018

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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 ± 3.0	10 ± 1.7	11 ± 1.5	15 ± 1.9	15 ± 1.5
10.0		9 ± 2.6		22 ± 2.2	
33.0		10 ± 0.9		20 ± 2.6	
100.0	4 ± 2.3	12 ± 3.6	13 ± 2.1	15 ± 1.0	12 ± 0.3
333.0	8 ± 1.0	6 ± 0.7	8 ± 0.7	6 ± 2.4	10 ± 0.3
1000.0	16 ± 0.9	5 ± 0.9	1 ± 0.3	3 ± 0.9	8 ± 1.2
3333.0	6 ± 2.6		0 ± 0.0 ^p		0 ± 0.0 ^p
10000.0	3 ± 1.8		0 ± 0.0 ^p		0 ± 0.0 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			147 ± 22.2	116 ± 17.2	151 ± 21.9
Positive Control ⁴	100 ± 31.1	491 ± 110.4			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 1.9
10.0	7 ± 1.3
33.0	11 ± 0.9
100.0	11 ± 1.0
333.0	6 ± 1.0
1000.0	2 ± 1.9
3333.0	
10000.0	
Trial Summary	Negative
Positive Control ²	73 ± 6.6
Positive Control ⁴	

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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 ¹	22 ± 4.0	16 ± 4.3	26 ± 2.6	26 ± 0.6	27 ± 5.2
10.0	14 ± 0.9	11 ± 1.2		27 ± 3.8	
33.0	12 ± 2.0	10 ± 0.7		24 ± 1.7	
100.0	17 ± 1.2	16 ± 2.0	28 ± 1.0	22 ± 2.8	27 ± 2.1
333.0	18 ± 3.6	12 ± 1.0	28 ± 1.2	11 ± 1.7	25 ± 1.9
1000.0	10 ± 1.2	5 ± 1.2	18 ± 4.9	7 ± 1.2	24 ± 6.7
3333.0			Toxic		Toxic
10000.0			0 ± 0.0 ^p		0 ± 0.0 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			821 ± 62.6	804 ± 115.5	1473 ± 76.1
Positive Control ⁵	89 ± 23.7	242 ± 34.2			

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Test Compound: Pyrimethamine

CAS Number: 58-14-0

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	26 ± 0.7
10.0	23 ± 1.8
33.0	22 ± 1.0
100.0	18 ± 4.1
333.0	20 ± 2.3
1000.0	7 ± 2.3
3333.0	
10000.0	
Trial Summary	Negative
Positive Control ²	1694 ± 50.8
Positive Control ⁵	

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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 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

p: Precipitate

**** END OF REPORT ****