

Experiment Number: 197169

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Dichloromethotrexate

CAS Number: 528-74-5

Date Report Requested: 09/14/2018

Time Report Requested: 07:57:58

**NTP Study Number:**

197169

**Study Result:**

Weakly Positive

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**Strain: TA100**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	121 ± 11.3	125 ± 2.6	133 ± 6.8	145 ± 7.6	120 ± 20.0
100.0	100 ± 11.9	116 ± 5.4	143 ± 6.6	145 ± 6.1	138 ± 7.5
333.0	93 ± 6.4	118 ± 6.4	159 ± 4.5	147 ± 13.4	184 ± 9.5
1000.0	106 ± 5.0	117 ± 8.2	147 ± 8.2	147 ± 6.4	208 ± 2.0
3333.0	104 ± 3.0	113 ± 2.5	177 ± 2.3	154 ± 19.7	223 ± 11.5
10000.0	82 ± 3.3	104 ± 4.9	147 ± 2.0	133 ± 14.5	171 ± 8.7
Trial Summary	Negative	Negative	Negative	Negative	Weakly Positive
Positive Control <sup>2</sup>			875 ± 30.0	1239 ± 84.0	1338 ± 73.2
Positive Control <sup>3</sup>	638 ± 36.0	610 ± 40.8			

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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>	142 ± 11.7
100.0	155 ± 8.4
333.0	187 ± 10.4
1000.0	223 ± 4.6
3333.0	169 ± 5.9
10000.0	116 ± 11.1
Trial Summary	Weakly Positive
Positive Control <sup>2</sup>	1590 ± 271.7
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>	6 ± 1.5	17 ± 1.5	20 ± 2.6	25 ± 2.9	20 ± 0.7
100.0	2 ± 0.6	8 ± 1.2	29 ± 1.9	28 ± 3.8	29 ± 0.9
333.0	7 ± 2.3	15 ± 2.5	14 ± 1.0	18 ± 0.3	16 ± 1.5
1000.0	5 ± 0.3	9 ± 2.7	16 ± 3.0	19 ± 0.9	14 ± 1.0
3333.0	5 ± 0.6	10 ± 2.0	15 ± 1.5	18 ± 1.5	15 ± 1.5
10000.0	6 ± 0.6	10 ± 3.7	8 ± 0.7	9 ± 1.0	11 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			148 ± 8.3	1094 ± 84.5	197 ± 11.3
Positive Control <sup>3</sup>	228 ± 3.5	579 ± 40.5			

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	28 ± 3.9
100.0	31 ± 4.7
333.0	21 ± 1.2
1000.0	17 ± 1.2
3333.0	18 ± 1.7
10000.0	10 ± 2.5
Trial Summary	Negative
Positive Control <sup>2</sup>	1979 ± 268.3
Positive Control <sup>3</sup>	

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Test Compound: Dichloromethotrexate

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**Strain: TA1537**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	3 ± 0.3	13 ± 1.5	13 ± 2.3	22 ± 3.6	12 ± 1.8
100.0	4 ± 0.6	14 ± 2.0	17 ± 0.9	27 ± 1.2	19 ± 3.5
333.0	7 ± 0.6	14 ± 2.6	21 ± 1.2	25 ± 2.7	18 ± 0.9
1000.0	2 ± 0.3	12 ± 2.3	20 ± 2.7	22 ± 3.7	18 ± 3.0
3333.0	3 ± 0.6	10 ± 1.5	26 ± 1.2	22 ± 6.2	21 ± 3.8
10000.0	3 ± 0.3	8 ± 2.3	12 ± 1.5	11 ± 2.6	10 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			96 ± 4.2	1845 ± 168.9	154 ± 11.2
Positive Control <sup>4</sup>	24 ± 1.0	387 ± 28.2			

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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>	20 ± 2.9
100.0	26 ± 0.9
333.0	20 ± 1.5
1000.0	18 ± 2.7
3333.0	16 ± 6.1
10000.0	11 ± 1.5
Trial Summary	Negative
Positive Control <sup>2</sup>	2031 ± 207.9
Positive Control <sup>4</sup>	

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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>	23 ± 2.5	22 ± 1.0	23 ± 1.0	27 ± 2.2	26 ± 1.9
100.0	14 ± 0.6	16 ± 1.7	21 ± 4.6	21 ± 4.3	14 ± 2.3
333.0	11 ± 2.1	17 ± 2.4	27 ± 0.7	32 ± 0.9	24 ± 3.0
1000.0	11 ± 0.7	15 ± 1.7	25 ± 2.9	31 ± 0.6	25 ± 0.9
3333.0	8 ± 0.3	12 ± 2.2	23 ± 1.5	25 ± 2.5	26 ± 3.8
10000.0	12 ± 1.2	12 ± 0.9	13 ± 1.5	19 ± 2.8	37 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			417 ± 25.0	891 ± 95.5	1038 ± 54.7
Positive Control <sup>5</sup>	154 ± 15.6	662 ± 19.0			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	28 ± 1.8
100.0	19 ± 1.0
333.0	26 ± 1.8
1000.0	29 ± 1.9
3333.0	24 ± 4.0
10000.0	22 ± 9.6
Trial Summary	Negative
Positive Control <sup>2</sup>	1662 ± 82.7
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: 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

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