

Experiment Number: 467981

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

G06: Ames Summary Data

Test Compound: **Dichloromethotrexate**

CAS Number: **528-74-5**

Date Report Requested: **09/11/2018**

Time Report Requested: **10:43:38**

NTP Study Number:

467981

Study Result:

Negative

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Test Compound: Dichloromethotrexate

CAS Number: 528-74-5

Date Report Requested: 09/11/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	111 ± 7.4	108 ± 4.8	98 ± 9.7	129 ± 5.2	90 ± 3.3
100.0	117 ± 0.7	101 ± 10.1	85 ± 2.9	122 ± 2.5	85 ± 3.5
333.0	116 ± 4.4	99 ± 2.9	81 ± 5.6	117 ± 9.8	87 ± 3.3
1000.0	112 ± 8.2	110 ± 11.6	89 ± 4.6	123 ± 5.1	85 ± 3.2
3333.0	129 ± 4.7	116 ± 7.8	94 ± 1.0	123 ± 12.7	74 ± 6.6
10000.0	133 ± 1.9	136 ± 2.6	92 ± 2.0	109 ± 10.0	98 ± 11.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					792 ± 27.4
Positive Control ³			724 ± 30.6		
Positive Control ⁴				462 ± 18.1	
Positive Control ⁵	1412 ± 75.3	1331 ± 24.1			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	115 ± 15.1
100.0	104 ± 8.3
333.0	107 ± 10.7
1000.0	101 ± 12.1
3333.0	111 ± 10.1
10000.0	118 ± 8.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	711 ± 27.8
Positive Control ⁵	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	44 ± 4.6	20 ± 3.9	13 ± 1.5	13 ± 1.2	15 ± 0.6
100.0	38 ± 4.7	26 ± 1.2	14 ± 1.3	13 ± 0.0	12 ± 1.8
333.0	32 ± 2.7	29 ± 3.4	14 ± 1.9	11 ± 1.7	11 ± 2.4
1000.0	33 ± 0.9	21 ± 2.0	8 ± 1.3	11 ± 2.8	10 ± 2.1
3333.0	32 ± 2.3	26 ± 1.2	8 ± 0.6	12 ± 1.2	11 ± 0.9
10000.0	32 ± 3.2	26 ± 4.5	13 ± 2.1	12 ± 1.2	11 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					98 ± 14.3
Positive Control ³			101 ± 3.8		
Positive Control ⁴				180 ± 2.8	
Positive Control ⁵	1155 ± 20.5	984 ± 21.0			

Experiment Number: 467981

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G06: Ames Summary Data

Test Compound: Dichloromethotrexate

CAS Number: 528-74-5

Date Report Requested: 09/11/2018

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 0.9
100.0	12 ± 0.9
333.0	12 ± 0.9
1000.0	13 ± 3.6
3333.0	12 ± 2.3
10000.0	13 ± 2.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	201 ± 10.7
Positive Control ⁵	

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G06: Ames Summary Data

Test Compound: Dichloromethotrexate

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Date Report Requested: 09/11/2018

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	89 ± 7.0	93 ± 5.8	123 ± 2.0	153 ± 7.5	114 ± 14.2
100.0	88 ± 3.9	90 ± 7.3	129 ± 3.3	180 ± 4.3	104 ± 3.4
333.0	86 ± 4.9	91 ± 6.2	115 ± 3.8	164 ± 7.4	122 ± 0.7
1000.0	94 ± 2.5	71 ± 3.5	113 ± 6.2	161 ± 5.7	111 ± 4.5
3333.0	88 ± 9.2	81 ± 6.1	115 ± 10.7	158 ± 10.0	108 ± 7.0
10000.0	92 ± 1.2	99 ± 1.7	108 ± 7.0	130 ± 4.7	98 ± 14.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					479 ± 16.2
Positive Control ³			646 ± 5.8		
Positive Control ⁴				326 ± 6.4	
Positive Control ⁶	771 ± 41.8	1086 ± 27.8			

Experiment Number: 467981

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G06: Ames Summary Data

Test Compound: Dichloromethotrexate

CAS Number: 528-74-5

Date Report Requested: 09/11/2018

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	119 ± 8.3
100.0	123 ± 0.6
333.0	121 ± 9.3
1000.0	128 ± 7.9
3333.0	125 ± 5.0
10000.0	133 ± 0.6
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	415 ± 11.9
Positive Control ⁶	

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Dichloromethotrexate

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	19 ± 3.6	14 ± 2.8	34 ± 3.8	30 ± 1.7	48 ± 4.9
100.0	12 ± 1.5	12 ± 2.2	30 ± 3.5	32 ± 4.0	39 ± 3.6
333.0	19 ± 1.5	15 ± 0.9	39 ± 4.2	19 ± 1.3	31 ± 3.6
1000.0	18 ± 3.3	16 ± 3.0	39 ± 6.0	24 ± 4.2	43 ± 3.5
3333.0	14 ± 3.1	13 ± 1.8	33 ± 2.0	28 ± 4.4	36 ± 1.0
10000.0	21 ± 0.3	13 ± 1.5	34 ± 2.7	30 ± 1.2	37 ± 2.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					804 ± 22.5
Positive Control ³			578 ± 12.5		
Positive Control ⁴				435 ± 29.8	
Positive Control ⁷	1600 ± 53.1	454 ± 50.1			

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Test Compound: Dichloromethotrexate

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	33 ± 4.1
100.0	32 ± 1.2
333.0	26 ± 2.0
1000.0	33 ± 6.2
3333.0	34 ± 4.2
10000.0	34 ± 4.7
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	688 ± 36.5
Positive Control ⁷	

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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: 0.75 ug/Plate 2-Aminoanthracene
- 3: 1.5 ug/Plate 2-Aminoanthracene
- 4: 2.0 ug/Plate 2-Aminoanthracene
- 5: 2.5 ug/Plate Sodium Azide
- 6: 4.0 ug/Plate 9-Aminoacridine
- 7: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****