

Experiment Number: 391111

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: **10:15:10**

NTP Study Number:

391111

Study Result:

Negative

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G06: Ames Summary Data

Test Compound: Dichloromethotrexate

CAS Number: 528-74-5

Date Report Requested: 09/14/2018

Time Report Requested: 10:15:10

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	103 ± 3.5	86 ± 2.4	128 ± 4.2	115 ± 0.9	98 ± 6.4
100.0	95 ± 9.4	98 ± 4.7	100 ± 8.0	147 ± 7.7	98 ± 7.4
333.0	105 ± 4.6	93 ± 11.1	101 ± 10.0	146 ± 5.3	94 ± 1.8
1000.0	116 ± 10.0	111 ± 3.2	113 ± 9.0	148 ± 2.6	129 ± 5.9
3333.0	118 ± 11.3	101 ± 7.4	97 ± 8.0	127 ± 8.7	111 ± 8.2
10000.0	106 ± 4.3	107 ± 4.9	127 ± 12.1	114 ± 5.8	102 ± 18.9
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²					510 ± 37.5
Positive Control ³	465 ± 9.3	388 ± 6.5			
Positive Control ⁴			502 ± 43.8	211 ± 107.0	

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Date Report Requested: **09/14/2018**

Time Report Requested: **10:15:10**

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	115 ± 6.4
100.0	112 ± 8.7
333.0	115 ± 6.7
1000.0	126 ± 10.6
3333.0	127 ± 2.2
10000.0	125 ± 9.5
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	380 ± 14.6

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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: **10:15:10****Strain: TA1535**

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	16 ± 1.2	21 ± 1.0	7 ± 2.0	13 ± 1.5	9 ± 0.6
100.0	14 ± 1.2	13 ± 0.7	10 ± 0.9	17 ± 2.7	11 ± 2.0
333.0	13 ± 1.5	9 ± 0.6	8 ± 3.2	11 ± 1.2	5 ± 0.3
1000.0	14 ± 3.3	11 ± 3.8	7 ± 2.2	10 ± 2.3	7 ± 0.7
3333.0	12 ± 0.6	14 ± 2.0	6 ± 1.2	11 ± 0.7	7 ± 1.5
10000.0	16 ± 1.5	12 ± 1.2	8 ± 0.7	10 ± 0.6	6 ± 2.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					206 ± 19.6
Positive Control ³	434 ± 3.2	416 ± 13.5			
Positive Control ⁵			184 ± 13.0	101 ± 7.2	

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Time Report Requested: **10:15:10**

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 2.2
100.0	11 ± 0.3
333.0	11 ± 1.2
1000.0	10 ± 1.7
3333.0	9 ± 2.4
10000.0	6 ± 0.3
Trial Summary	Negative
Positive Control ⁴	
Positive Control ³	
Positive Control ⁵	284 ± 29.9

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

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Test Compound: **Dichloromethotrexate**

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

Date Report Requested: **09/14/2018**

Time Report Requested: **10:15:10**

Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 1.7	5 ± 0.0	7 ± 1.2	7 ± 1.7	8 ± 2.0
100.0	7 ± 0.6	7 ± 1.9	8 ± 2.7	11 ± 2.0	6 ± 0.0
333.0	6 ± 1.5	6 ± 1.7	8 ± 1.5	7 ± 0.6	6 ± 0.3
1000.0	4 ± 0.9	6 ± 0.9	7 ± 1.9	7 ± 0.0	5 ± 1.9
3333.0	2 ± 0.3	6 ± 1.8	7 ± 1.5	7 ± 1.8	6 ± 0.7
10000.0	6 ± 1.5	3 ± 0.6	8 ± 2.7	6 ± 0.3	4 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					55 ± 7.8
Positive Control ⁴			50 ± 1.2		
Positive Control ⁵				54 ± 6.2	
Positive Control ⁶	338 ± 33.0	163 ± 8.7			

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Test Compound: **Dichloromethotrexate**

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Strain: TA1537

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 1.0
100.0	8 ± 0.3
333.0	8 ± 1.7
1000.0	4 ± 0.9
3333.0	6 ± 0.3
10000.0	8 ± 0.7
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	48 ± 7.5
Positive Control ⁵	
Positive Control ⁶	

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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	113 ± 6.7	118 ± 6.2	167 ± 4.3	159 ± 9.7	129 ± 6.4
100.0	127 ± 10.0	122 ± 10.7	166 ± 5.8	195 ± 5.1	102 ± 5.0
333.0	130 ± 6.0	138 ± 12.0	155 ± 6.1	196 ± 5.5	111 ± 9.5
1000.0	125 ± 13.9	143 ± 11.2	157 ± 12.9	191 ± 8.2	110 ± 55.6
3333.0	126 ± 6.2	129 ± 3.5	177 ± 4.7	187 ± 12.2	163 ± 11.7
10000.0	150 ± 1.7	113 ± 11.4	120 ± 10.1	157 ± 3.5	160 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²					414 ± 11.2
Positive Control ⁴			390 ± 36.0		
Positive Control ⁵				343 ± 28.4	
Positive Control ⁶	526 ± 29.2	321 ± 52.0			

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Test Compound: **Dichloromethotrexate**

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Date Report Requested: **09/14/2018**

Time Report Requested: **10:15:10**

Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	160 ± 3.2
100.0	173 ± 7.5
333.0	182 ± 11.0
1000.0	189 ± 8.4
3333.0	187 ± 7.2
10000.0	194 ± 2.3
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	290 ± 18.8
Positive Control ⁵	
Positive Control ⁶	

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Test Compound: Dichloromethotrexate

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Date Report Requested: 09/14/2018

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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	43 ± 3.8	14 ± 2.4	26 ± 3.2	41 ± 4.4	27 ± 2.3
100.0	45 ± 7.2	11 ± 2.0	28 ± 1.9	37 ± 1.5	21 ± 5.2
333.0	45 ± 3.7	13 ± 0.9	34 ± 1.7	39 ± 5.4	28 ± 3.1
1000.0	44 ± 6.7	12 ± 1.2	22 ± 4.1	39 ± 3.5	20 ± 3.2
3333.0	41 ± 4.4	13 ± 0.6	20 ± 3.8	39 ± 3.7	19 ± 5.2
10000.0	42 ± 4.0	11 ± 0.9	19 ± 2.9	53 ± 1.5	21 ± 3.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					493 ± 28.5
Positive Control ⁴			397 ± 27.7	111 ± 6.4	
Positive Control ⁷	477 ± 29.7	452 ± 18.7			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	47 ± 5.2
100.0	42 ± 4.6
333.0	43 ± 6.7
1000.0	50 ± 5.3
3333.0	46 ± 2.5
10000.0	53 ± 4.6
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	211 ± 7.1
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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 1.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****