

Experiment Number: 095135

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

G06: Ames Summary Data

Test Compound: **Dimethoate**

CAS Number: **60-51-5**

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

Time Report Requested: **07:34:01**

NTP Study Number:

095135

Study Result:

Positive

Experiment Number: 095135

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Dimethoate

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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	118 ± 2.6	79 ± 2.5	127 ± 8.5	88 ± 1.2	118 ± 10.4
100.0	156 ± 11.4	93 ± 2.6	125 ± 0.3	107 ± 3.5	116 ± 7.8
333.3	129 ± 2.4	103 ± 2.9	137 ± 12.4	96 ± 8.8	118 ± 7.9
1000.0	156 ± 12.7	108 ± 4.4	139 ± 19.8	124 ± 4.7	131 ± 9.2
3333.3	178 ± 5.2	142 ± 5.1	203 ± 10.4	172 ± 6.7	180 ± 9.2
10000.0	234 ± 13.5	248 ± 19.0	309 ± 6.6	277 ± 10.1	331 ± 38.3
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²	359 ± 12.7	495 ± 3.2			
Positive Control ³			866 ± 21.3	925 ± 55.2	2266 ± 23.5

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	125 ± 9.4
100.0	128 ± 12.5
333.3	119 ± 9.3
1000.0	128 ± 22.0
3333.3	189 ± 21.2
10000.0	272 ± 6.2
Trial Summary	Positive
Positive Control ²	
Positive Control ³	1561 ± 53.0

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	17 ± 3.5	9 ± 2.2	14 ± 0.9
100.0	16 ± 1.3	9 ± 1.7	15 ± 1.3
333.3	16 ± 1.8	8 ± 0.6	8 ± 0.6
1000.0	16 ± 2.3	7 ± 0.6	11 ± 2.8
3333.3	17 ± 2.0	8 ± 2.3	9 ± 1.8
10000.0	15 ± 1.8	8 ± 1.0	7 ± 1.5
Trial Summary	Negative	Negative	Negative
Positive Control ²	330 ± 7.0		
Positive Control ⁴		553 ± 91.7	509 ± 24.3

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.9	10 ± 1.5	15 ± 0.9
100.0	12 ± 1.5	13 ± 0.7	8 ± 0.9
333.3	6 ± 1.5	7 ± 0.6	8 ± 2.5
1000.0	6 ± 0.6	7 ± 1.2	6 ± 1.7
3333.3	6 ± 0.6	7 ± 1.2	13 ± 1.0
10000.0	8 ± 2.3	5 ± 1.0	11 ± 3.5
Trial Summary	Negative	Negative	Negative
Positive Control ⁴		317 ± 24.5	606 ± 15.8
Positive Control ⁵	247 ± 16.6		

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Test Compound: Dimethoate

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	30 ± 4.0	47 ± 4.0	39 ± 5.4
100.0	39 ± 6.4	44 ± 0.9	43 ± 9.1
333.3	29 ± 1.5	40 ± 5.5	38 ± 6.0
1000.0	37 ± 4.5	36 ± 1.5	35 ± 4.2
3333.3	24 ± 2.0	35 ± 1.7	29 ± 1.5
10000.0	15 ± 4.6	30 ± 3.3	43 ± 4.6
Trial Summary	Negative	Negative	Negative
Positive Control ³		671 ± 26.8	1970 ± 40.8
Positive Control ⁶	594 ± 16.2		

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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

**** END OF REPORT ****