

Experiment Number: 218242

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Malathion

CAS Number: 121-75-5

Date Report Requested: 09/14/2018

Time Report Requested: 21:08:53

**NTP Study Number:**

218242

**Study Result:**

Negative

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Test Compound: Malathion

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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 <sup>1</sup>	81 ± 6.4	99 ± 1.9	74 ± 4.8	122 ± 3.9	81 ± 2.2
1.0	70 ± 9.2	73 ± 1.3			
3.3	62 ± 5.0	82 ± 4.7			
10.0	50 ± 7.4	64 ± 8.2			
33.0	50 ± 2.7	57 ± 1.0			
100.0	61 ± 9.3	75 ± 1.5	76 ± 3.8	121 ± 7.1	91 ± 2.5
333.0			68 ± 5.5	98 ± 7.9	93 ± 5.4
1000.0			87 ± 4.7	104 ± 8.2	82 ± 8.0
3333.0			96 ± 12.5	89 ± 23.4	88 ± 1.3
10000.0			108 ± 13.4	126 ± 1.5	87 ± 7.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			2433 ± 219.5	352 ± 31.1	2766 ± 94.4
Positive Control <sup>3</sup>	1622 ± 89.8	347 ± 48.4			

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	111 ± 14.4
1.0	
3.3	
10.0	
33.0	
100.0	91 ± 5.0
333.0	103 ± 10.6
1000.0	97 ± 13.5
3333.0	97 ± 7.5
10000.0	108 ± 4.7
Trial Summary	Negative
Positive Control <sup>2</sup>	1198 ± 217.9
Positive Control <sup>3</sup>	

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Test Compound: Malathion

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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>	5 ± 0.9	4 ± 0.3	9 ± 0.3	4 ± 0.9	11 ± 1.2
1.0	4 ± 0.7	2 ± 1.5			
3.3	4 ± 0.7	3 ± 0.7			
10.0	5 ± 2.4	3 ± 0.7			
33.0	5 ± 1.0	2 ± 1.0			
100.0	2 ± 0.3	2 ± 0.3	13 ± 3.7	3 ± 1.3	16 ± 4.4
333.0			10 ± 1.9	5 ± 0.9	13 ± 2.6
1000.0			9 ± 1.5	2 ± 0.9	15 ± 1.3
3333.0			11 ± 2.4	3 ± 0.7	14 ± 0.3
10000.0			9 ± 1.5	2 ± 1.2	8 ± 2.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			128 ± 10.3	37 ± 2.7	93 ± 24.4
Positive Control <sup>3</sup>	730 ± 51.1	171 ± 8.7			

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	4 ± 1.5
1.0	
3.3	
10.0	
33.0	
100.0	3 ± 0.9
333.0	3 ± 0.3
1000.0	3 ± 0.9
3333.0	4 ± 0.7
10000.0	2 ± 0.7
Trial Summary	Negative
Positive Control <sup>2</sup>	22 ± 4.2
Positive Control <sup>3</sup>	

Experiment Number: 218242

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## G06: Ames Summary Data

Test Compound: Malathion

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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 <sup>1</sup>	2 ± 1.2	1 ± 0.0	3 ± 0.7	2 ± 0.9	4 ± 0.3
1.0	2 ± 0.0	2 ± 0.9			
3.3	1 ± 0.3	1 ± 0.6			
10.0	2 ± 0.3	1 ± 0.3			
33.0	1 ± 0.3	1 ± 0.7			
100.0	2 ± 0.9	1 ± 0.9	3 ± 1.2	4 ± 0.9	4 ± 1.5
333.0			3 ± 1.3	2 ± 1.0	3 ± 1.7
1000.0			4 ± 0.9	2 ± 0.6	1 ± 0.7
3333.0			1 ± 0.3	3 ± 0.7	2 ± 0.3
10000.0			0 ± 0.3	0 ± 0.3	0 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			130 ± 15.5	21 ± 3.8	89 ± 8.5
Positive Control <sup>4</sup>	28 ± 3.8	30 ± 9.8			

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Time Report Requested: 21:08:53

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	2 ± 0.9
1.0	
3.3	
10.0	
33.0	
100.0	3 ± 0.3
333.0	2 ± 0.9
1000.0	1 ± 0.7
3333.0	0 ± 0.3
10000.0	2 ± 0.7
Trial Summary	Negative
Positive Control <sup>2</sup>	40 ± 7.5
Positive Control <sup>4</sup>	

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Test Compound: Malathion

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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>	20 ± 2.9	16 ± 1.8	16 ± 0.7	15 ± 2.0	18 ± 1.5
1.0	14 ± 1.9	13 ± 1.2			
3.3	15 ± 1.9	6 ± 4.3			
10.0	17 ± 1.9	1 ± 1.3			
33.0	11 ± 2.7	Toxic			
100.0	8 ± 0.3	1 ± 0.3	12 ± 1.7	13 ± 1.2	20 ± 3.2
333.0			18 ± 3.1	19 ± 1.2	17 ± 1.8
1000.0			12 ± 3.5	21 ± 4.3	15 ± 3.1
3333.0			14 ± 1.7	16 ± 1.5	23 ± 3.5
10000.0			11 ± 2.3	16 ± 1.5	12 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			908 ± 80.4	81 ± 8.2	1375 ± 58.3
Positive Control <sup>5</sup>	162 ± 8.4	79 ± 10.8			

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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	19 ± 3.4
1.0	
3.3	
10.0	
33.0	
100.0	12 ± 1.0
333.0	11 ± 0.7
1000.0	15 ± 0.7
3333.0	14 ± 1.2
10000.0	9 ± 3.3
Trial Summary	Negative
Positive Control <sup>2</sup>	381 ± 32.5
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: 95% Ethanol

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 \*\***