

Experiment Number: 109625

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Mirex

CAS Number: 2385-85-5

Date Report Requested: 09/11/2018

Time Report Requested: 19:23:38

**NTP Study Number:**

109625

**Study Result:**

Negative

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## G06: Ames Summary Data

Test Compound: Mirex  
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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>	126 ± 7.5	93 ± 11.2	165 ± 9.7	141 ± 8.0	145 ± 4.5
100.0	112 ± 4.7	86 ± 4.9	173 ± 3.1	118 ± 0.9	140 ± 5.8
333.0	124 ± 8.8	100 ± 8.2	172 ± 8.7	128 ± 5.6	164 ± 4.3
1000.0	104 ± 5.4 <sup>P</sup>	99 ± 11.8 <sup>P</sup>	175 ± 8.0 <sup>P</sup>	128 ± 6.8 <sup>P</sup>	139 ± 13.6 <sup>P</sup>
3333.0	105 ± 4.8 <sup>P</sup>	86 ± 5.8 <sup>P</sup>	170 ± 15.0 <sup>P</sup>	127 ± 5.6 <sup>P</sup>	141 ± 13.0 <sup>P</sup>
10000.0	111 ± 5.7 <sup>P</sup>	97 ± 9.6 <sup>P</sup>	137 ± 3.5 <sup>P</sup>	109 ± 7.6 <sup>P</sup>	149 ± 16.3 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			2463 ± 27.0	2193 ± 185.8	1136 ± 4.8
Positive Control <sup>3</sup>	1129 ± 6.8	1334 ± 108.7			

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	141 ± 3.6
100.0	133 ± 1.8
333.0	131 ± 23.1
1000.0	122 ± 6.1 <sup>P</sup>
3333.0	114 ± 4.3 <sup>P</sup>
10000.0	133 ± 5.2 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	2186 ± 45.1
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>	3 ± 1.3	11 ± 0.9	5 ± 0.9	10 ± 1.7	3 ± 0.9
100.0	4 ± 0.7	13 ± 3.5	6 ± 1.0	16 ± 1.5	3 ± 1.0
333.0	3 ± 0.6	10 ± 4.0	6 ± 0.3	12 ± 2.5	3 ± 1.5
1000.0	5 ± 2.3 <sup>P</sup>	8 ± 2.3 <sup>P</sup>	4 ± 0.9 <sup>P</sup>	13 ± 1.2 <sup>P</sup>	2 ± 0.9 <sup>P</sup>
3333.0	4 ± 1.9 <sup>P</sup>	9 ± 0.9 <sup>P</sup>	2 ± 0.7 <sup>P</sup>	14 ± 3.1 <sup>P</sup>	4 ± 2.1 <sup>P</sup>
10000.0	2 ± 0.0 <sup>P</sup>	9 ± 1.5 <sup>P</sup>	2 ± 0.3 <sup>P</sup>	13 ± 1.9 <sup>P</sup>	1 ± 0.7 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			78 ± 3.2	220 ± 18.2	88 ± 7.0
Positive Control <sup>3</sup>	39 ± 2.1	1173 ± 24.1			

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	11 ± 2.8
100.0	11 ± 2.5
333.0	9 ± 1.5
1000.0	7 ± 0.6 <sup>P</sup>
3333.0	7 ± 1.5 <sup>P</sup>
10000.0	12 ± 1.8 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>4</sup>	158 ± 7.4
Positive Control <sup>3</sup>	

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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>	5 ± 0.9	9 ± 0.9	5 ± 0.3	19 ± 2.3	5 ± 0.9
100.0	1 ± 0.6	5 ± 0.7	3 ± 1.8	12 ± 2.3	4 ± 1.5
333.0	3 ± 0.6	6 ± 0.9	3 ± 0.3	17 ± 3.0	3 ± 1.2
1000.0	2 ± 0.9 <sup>P</sup>	8 ± 3.0 <sup>P</sup>	4 ± 0.6 <sup>P</sup>	17 ± 2.9 <sup>P</sup>	1 ± 0.9 <sup>P</sup>
3333.0	2 ± 1.2 <sup>P</sup>	7 ± 2.2 <sup>P</sup>	4 ± 0.6 <sup>P</sup>	16 ± 3.0 <sup>P</sup>	3 ± 0.9 <sup>P</sup>
10000.0	3 ± 0.3 <sup>P</sup>	8 ± 2.7 <sup>P</sup>	5 ± 0.3 <sup>P</sup>	16 ± 2.2 <sup>P</sup>	2 ± 0.7 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			49 ± 3.5	490 ± 28.1	88 ± 9.8
Positive Control <sup>5</sup>	186 ± 27.0	265 ± 68.4			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	16 ± 1.5
100.0	18 ± 0.6
333.0	20 ± 1.5
1000.0	13 ± 3.7 <sup>P</sup>
3333.0	12 ± 3.5 <sup>P</sup>
10000.0	10 ± 2.6 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>4</sup>	386 ± 37.3
Positive Control <sup>5</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>	34 ± 0.5	19 ± 1.9	49 ± 0.5	34 ± 1.2	45 ± 3.2
100.0	37 ± 2.6	21 ± 1.2	51 ± 1.8	40 ± 1.2	60 ± 4.3
333.0	43 ± 2.0	19 ± 3.2	57 ± 4.0	24 ± 2.6	47 ± 3.1
1000.0	35 ± 4.3 <sup>p</sup>	19 ± 2.6 <sup>p</sup>	55 ± 2.5 <sup>p</sup>	29 ± 5.9 <sup>p</sup>	58 ± 2.6 <sup>p</sup>
3333.0	46 ± 3.8 <sup>p</sup>	27 ± 6.3 <sup>p</sup>	50 ± 6.9 <sup>p</sup>	31 ± 4.3 <sup>p</sup>	58 ± 1.9 <sup>p</sup>
10000.0	42 ± 3.0 <sup>p</sup>	32 ± 3.8 <sup>p</sup>	61 ± 13.0 <sup>p</sup>	31 ± 7.1 <sup>p</sup>	51 ± 5.0 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			1496 ± 74.4	1546 ± 103.7	1522 ± 205.3
Positive Control <sup>6</sup>	286 ± 31.3	248 ± 28.2			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	34 ± 2.3
100.0	26 ± 0.3
333.0	24 ± 4.2
1000.0	35 ± 5.5 <sup>P</sup>
3333.0	32 ± 2.6 <sup>P</sup>
10000.0	31 ± 3.8 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	1633 ± 99.3
Positive Control <sup>6</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: 2.0 ug/Plate 2-Aminoanthracene
- 5: 33.0 ug/Plate 9-Aminoacridine
- 6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine
- p: Precipitate

\*\* END OF REPORT \*\*