

Experiment Number: 586249

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Methyl formate

CAS Number: 107-31-3

Date Report Requested: 09/14/2018

Time Report Requested: 12:27:23

**NTP Study Number:**

586249

**Study Result:**

Negative

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Test Compound: Methyl formate

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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 <sup>1</sup>	120 ± 3.2	104 ± 14.8	117 ± 10.0	169 ± 8.1	125 ± 11.0
100.0	115 ± 0.9	115 ± 8.7	144 ± 11.9	155 ± 6.0	126 ± 2.0
333.0	125 ± 6.5	114 ± 6.5	152 ± 4.7	153 ± 6.4	112 ± 3.5
1000.0	120 ± 10.9	112 ± 9.0	142 ± 18.1	173 ± 5.2	106 ± 7.5
3333.0	116 ± 8.0	98 ± 0.9	154 ± 12.9	171 ± 9.7	118 ± 4.0
10000.0	107 ± 2.4	88 ± 1.5	116 ± 9.5	170 ± 4.7	102 ± 6.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					597 ± 27.1
Positive Control <sup>3</sup>			528 ± 21.0		
Positive Control <sup>4</sup>	354 ± 30.3	385 ± 13.8			
Positive Control <sup>5</sup>				547 ± 36.3	

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	166 ± 13.0
100.0	162 ± 10.9
333.0	147 ± 6.1
1000.0	132 ± 12.3
3333.0	117 ± 18.4
10000.0	74 ± 14.1 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	593 ± 18.9
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	

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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 <sup>1</sup>	19 ± 0.9	26 ± 2.7	27 ± 2.5	17 ± 0.9	25 ± 4.2
100.0	20 ± 2.7	27 ± 3.1	26 ± 4.3	20 ± 2.0	31 ± 4.4
333.0	17 ± 1.5	27 ± 1.5	25 ± 0.7	17 ± 1.5	29 ± 1.5
1000.0	17 ± 1.3	21 ± 2.0	24 ± 3.3	15 ± 2.7	29 ± 5.5
3333.0	18 ± 3.2	27 ± 6.4	19 ± 2.9	20 ± 1.7	25 ± 2.2
10000.0	20 ± 3.8	24 ± 2.7	14 ± 1.2	13 ± 0.3	27 ± 3.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					135 ± 2.9
Positive Control <sup>4</sup>	466 ± 17.5	260 ± 0.3			
Positive Control <sup>5</sup>			89 ± 6.9		
Positive Control <sup>6</sup>				166 ± 12.3	

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**G06: Ames Summary Data**

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	25 ± 0.9
100.0	16 ± 0.6
333.0	18 ± 2.0
1000.0	15 ± 0.6
3333.0	17 ± 1.5
10000.0	18 ± 2.2
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	474 ± 17.8
Positive Control <sup>6</sup>	

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Test Compound: Methyl formate

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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 <sup>1</sup>	188 ± 18.4	148 ± 3.6	194 ± 2.5	189 ± 0.3	174 ± 14.3
100.0	197 ± 9.5	158 ± 5.3	187 ± 2.1	186 ± 7.4	200 ± 7.1
333.0	184 ± 8.4	149 ± 8.3	200 ± 5.5	195 ± 3.2	169 ± 5.8
1000.0	211 ± 6.4	150 ± 4.7	187 ± 8.1	184 ± 12.2	160 ± 13.7
3333.0	197 ± 13.3	160 ± 9.8	152 ± 6.7	193 ± 2.7	185 ± 0.6
10000.0	211 ± 21.7	146 ± 10.6	160 ± 1.9	212 ± 10.7	192 ± 6.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					427 ± 20.8
Positive Control <sup>3</sup>			411 ± 9.9		
Positive Control <sup>5</sup>				533 ± 5.8	
Positive Control <sup>7</sup>	562 ± 18.2	386 ± 6.4			

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	177 ± 17.5
100.0	145 ± 16.1
333.0	185 ± 18.2
1000.0	218 ± 0.9
3333.0	198 ± 6.1
10000.0	178 ± 13.9
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	359 ± 4.6
Positive Control <sup>5</sup>	
Positive Control <sup>7</sup>	

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Test Compound: Methyl formate

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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 <sup>1</sup>	17 ± 2.7	25 ± 0.3	39 ± 1.0	26 ± 3.3	41 ± 2.7
100.0	18 ± 1.7	18 ± 0.3	32 ± 0.7	28 ± 2.2	42 ± 0.3
333.0	16 ± 2.8	24 ± 2.1	26 ± 2.7	24 ± 2.6	38 ± 5.4
1000.0	20 ± 3.2	16 ± 1.8	32 ± 2.9	19 ± 3.4	42 ± 1.0
3333.0	15 ± 2.8	18 ± 3.1	27 ± 2.0	21 ± 2.3	36 ± 1.5
10000.0	18 ± 2.3	23 ± 2.0	28 ± 1.5	23 ± 3.0	32 ± 3.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					224 ± 18.1
Positive Control <sup>3</sup>			174 ± 14.2	163 ± 9.8	
Positive Control <sup>8</sup>	574 ± 7.3	381 ± 12.7			



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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	30 ± 2.4
100.0	22 ± 4.5
333.0	22 ± 1.0
1000.0	17 ± 3.0
3333.0	22 ± 3.4
10000.0	16 ± 2.5
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	441 ± 26.6
Positive Control <sup>8</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: Water

2: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**\*\* END OF REPORT \*\***