

Experiment Number: A12449

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

**G06: Ames Summary Data**

Test Compound: **Methyl soyate**

CAS Number: **67784-80-9**

Date Report Requested: **09/15/2018**

Time Report Requested: **20:58:27**

**NTP Study Number:**

A12449

**Study Result:**

Negative

Experiment Number: A12449

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Mutagenicity

## G06: Ames Summary Data

Test Compound: Methyl soyate

CAS Number: 67784-80-9

Date Report Requested: 09/15/2018

Time Report Requested: 20:58:27

## 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>	165 ± 12.0	171 ± 12.2	176 ± 3.2	126 ± 11.3	203 ± 17.7
100.0	185 ± 7.8	172 ± 1.2	160 ± 11.0	136 ± 3.2	190 ± 5.2
333.0	164 ± 9.8	182 ± 11.0	164 ± 0.6	145 ± 12.3	202 ± 6.4
1000.0	172 ± 5.4 <sup>P</sup>	190 ± 4.0 <sup>P</sup>	166 ± 15.4 <sup>P</sup>	174 ± 12.2 <sup>P</sup>	196 ± 5.2 <sup>P</sup>
3333.0	159 ± 7.4 <sup>P</sup>	179 ± 4.8 <sup>P</sup>	162 ± 6.4 <sup>P</sup>	175 ± 1.8 <sup>P</sup>	168 ± 9.3 <sup>P</sup>
10000.0	184 ± 17.2 <sup>P</sup>	172 ± 10.2 <sup>P</sup>	180 ± 6.2 <sup>P</sup>	172 ± 3.2 <sup>P</sup>	182 ± 9.4 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					861 ± 10.3
Positive Control <sup>3</sup>	613 ± 9.5	449 ± 0.9			
Positive Control <sup>4</sup>			563 ± 18.8		
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>				634 ± 9.1	

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	146 ± 12.7
100.0	161 ± 8.7
333.0	151 ± 10.6
1000.0	160 ± 10.0 <sup>P</sup>
3333.0	149 ± 9.4 <sup>P</sup>
10000.0	165 ± 8.5 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	852 ± 11.9
Positive Control <sup>6</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>	14 ± 2.3	11 ± 0.9	13 ± 1.5	20 ± 0.3	12 ± 1.5
100.0	15 ± 0.3	13 ± 1.7	13 ± 1.5	18 ± 0.0	12 ± 2.0
333.0	14 ± 1.9	11 ± 1.2	14 ± 2.0	19 ± 0.7	11 ± 1.9
1000.0	16 ± 1.2 <sup>P</sup>	11 ± 1.7 <sup>P</sup>	15 ± 0.3 <sup>P</sup>	18 ± 0.9 <sup>P</sup>	12 ± 2.7 <sup>P</sup>
3333.0	16 ± 1.3 <sup>P</sup>	12 ± 1.5 <sup>P</sup>	10 ± 0.6 <sup>P</sup>	14 ± 0.3 <sup>P</sup>	10 ± 1.2 <sup>P</sup>
10000.0	16 ± 0.6 <sup>P</sup>	13 ± 1.7 <sup>P</sup>	13 ± 1.5 <sup>P</sup>	19 ± 0.6 <sup>P</sup>	9 ± 0.6 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1298 ± 187.7
Positive Control <sup>3</sup>	194 ± 15.1	335 ± 13.4			
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>			341 ± 15.2	96 ± 6.7	

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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	13 ± 1.7
100.0	15 ± 0.9
333.0	17 ± 1.0
1000.0	16 ± 0.9 <sup>P</sup>
3333.0	19 ± 1.0 <sup>P</sup>
10000.0	18 ± 0.7 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	153 ± 5.5
Positive Control <sup>6</sup>	

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	108 ± 2.0	190 ± 6.7	151 ± 0.6	108 ± 0.6	125 ± 10.0
100.0	129 ± 14.0	162 ± 20.5	164 ± 11.6	152 ± 8.5	134 ± 2.6
333.0	124 ± 3.2	126 ± 5.8	133 ± 6.5	179 ± 14.6	125 ± 8.1
1000.0	124 ± 7.5 <sup>P</sup>	124 ± 8.8 <sup>P</sup>	136 ± 7.9 <sup>P</sup>	165 ± 6.8 <sup>P</sup>	125 ± 1.2 <sup>P</sup>
3333.0	133 ± 8.2 <sup>P</sup>	129 ± 6.7 <sup>P</sup>	155 ± 2.9 <sup>P</sup>	186 ± 3.5 <sup>P</sup>	127 ± 3.5 <sup>P</sup>
10000.0	126 ± 4.0 <sup>P</sup>	118 ± 8.5 <sup>P</sup>	189 ± 11.3 <sup>P</sup>	191 ± 23.1 <sup>P</sup>	126 ± 8.1 <sup>P</sup>
Trial Summary	Equivocal	Negative	Negative	Equivocal	Negative
Positive Control <sup>4</sup>					
Positive Control <sup>6</sup>			621 ± 201.4	429 ± 9.7	360 ± 128.2
Positive Control <sup>7</sup>	499 ± 33.5	905 ± 24.9			

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Strain: TA97

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Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	157 ± 7.0	138 ± 2.3
100.0	163 ± 16.2	115 ± 3.3
333.0	170 ± 11.8	130 ± 6.4
1000.0	173 ± 2.3 <sup>P</sup>	140 ± 5.8 <sup>P</sup>
3333.0	184 ± 0.7 <sup>P</sup>	131 ± 9.2 <sup>P</sup>
10000.0	174 ± 1.9 <sup>P</sup>	135 ± 4.7 <sup>P</sup>
Trial Summary	Negative	Negative
Positive Control <sup>4</sup>	2107 ± 79.7	
Positive Control <sup>6</sup>		753 ± 37.6
Positive Control <sup>7</sup>		

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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>	16 ± 2.8	14 ± 1.5	19 ± 1.3	23 ± 2.2	23 ± 1.5
100.0	19 ± 1.7	15 ± 0.6	23 ± 2.2	22 ± 0.9	26 ± 2.1
333.0	17 ± 1.3	14 ± 1.8	21 ± 1.5	21 ± 1.0	20 ± 2.0
1000.0	18 ± 0.3 <sup>P</sup>	15 ± 1.7 <sup>P</sup>	21 ± 3.2 <sup>P</sup>	22 ± 0.3 <sup>P</sup>	23 ± 0.7 <sup>P</sup>
3333.0	20 ± 1.2 <sup>P</sup>	15 ± 0.7 <sup>P</sup>	25 ± 1.8 <sup>P</sup>	24 ± 1.0 <sup>P</sup>	23 ± 2.8 <sup>P</sup>
10000.0	19 ± 0.3 <sup>P</sup>	14 ± 0.9 <sup>P</sup>	18 ± 1.0 <sup>P</sup>	22 ± 0.9 <sup>P</sup>	26 ± 1.9 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			316 ± 32.8		113 ± 6.0
Positive Control <sup>8</sup>	120 ± 3.7	94 ± 3.8			
Positive Control <sup>5</sup>				229 ± 24.6	



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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	21 ± 2.4
100.0	25 ± 2.6
333.0	22 ± 0.7
1000.0	21 ± 2.7 <sup>P</sup>
3333.0	23 ± 0.9 <sup>P</sup>
10000.0	19 ± 1.2 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>8</sup>	
Positive Control <sup>5</sup>	919 ± 59.7

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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: 100% Ethanol
- 2: 0.4 ug/Plate 2-Aminoanthracene
- 3: 0.5 ug/Plate Sodium Azide
- 4: 0.75 ug/Plate 2-Aminoanthracene
- 5: 1.0 ug/Plate 2-Aminoanthracene
- 6: 2.0 ug/Plate 2-Aminoanthracene
- 7: 24.0 ug/Plate 9-Aminoacridine
- 8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine
- p: Precipitate

\*\* END OF REPORT \*\*