

Experiment Number: 926355

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

**G06: Ames Summary Data**

Test Compound: **Methyl methanesulfonate**

CAS Number: 66-27-3

Date Report Requested: 09/17/2018

Time Report Requested: 07:29:31

**NTP Study Number:**

926355

**Study Result:**

Positive

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## G06: Ames Summary Data

Test Compound: Methyl methanesulfonate  
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Date Report Requested: 09/17/2018

Time Report Requested: 07:29:31

## 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>	153 ± 4.2	183 ± 1.5	135 ± 6.6	190 ± 9.0	151 ± 4.7
3.3		198 ± 11.6		221 ± 11.3	
33.0	200 ± 8.2		227 ± 16.1		232 ± 4.1
100.0	313 ± 7.2	320 ± 12.4	339 ± 12.2	359 ± 11.2	368 ± 7.5
333.0	607 ± 22.6	515 ± 7.5	826 ± 8.1	660 ± 6.4	886 ± 14.7
1000.0	1202 ± 89.0	843 ± 45.1	1347 ± 35.8	1225 ± 23.4	1462 ± 30.0
3333.0	1082 ± 1.5 <sup>s</sup>	614 ± 2.6 <sup>s</sup>	2017 ± 59.9 <sup>s</sup>	1346 ± 23.7 <sup>s</sup>	1454 ± 11.6 <sup>s</sup>
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>					1117 ± 37.2
Positive Control <sup>3</sup>			984 ± 42.0	858 ± 27.2	
Positive Control <sup>4</sup>	1359 ± 33.0	1146 ± 19.0			

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	241 ± 20.6
3.3	236 ± 19.9
33.0	
100.0	408 ± 1.8
333.0	884 ± 30.0
1000.0	1309 ± 44.2
3333.0	1363 ± 23.8 <sup>s</sup>
Trial Summary	Positive
Positive Control <sup>2</sup>	937 ± 28.5
Positive Control <sup>3</sup>	
Positive Control <sup>4</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>	20 ± 2.0	31 ± 5.7	12 ± 2.3	25 ± 3.0	12 ± 3.0
33.0	21 ± 4.3		14 ± 2.3		10 ± 2.3
100.0	21 ± 4.2	37 ± 5.0	11 ± 0.9	40 ± 3.5	15 ± 2.7
333.0	26 ± 1.9		16 ± 2.1		12 ± 2.0
1000.0	22 ± 4.0	62 ± 7.1	24 ± 3.4	69 ± 5.6	41 ± 16.5
2000.0		121 ± 16.8		203 ± 12.4	
2500.0		106 ± 9.0 <sup>s</sup>		215 ± 12.0	
3333.0	59 ± 2.1 <sup>s</sup>	32 ± 9.5 <sup>s</sup>	82 ± 1.9 <sup>s</sup>	128 ± 10.9 <sup>s</sup>	74 ± 0.9 <sup>s</sup>
Trial Summary	Equivocal	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>					128 ± 10.3
Positive Control <sup>3</sup>			111 ± 2.1	129 ± 5.5	
Positive Control <sup>4</sup>	991 ± 42.9	745 ± 22.7			

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	27 ± 1.3
33.0	
100.0	31 ± 1.5
333.0	
1000.0	59 ± 5.0
2000.0	263 ± 9.2
2500.0	211 ± 1.0
3333.0	143 ± 9.8 <sup>s</sup>
Trial Summary	Positive
Positive Control <sup>2</sup>	125 ± 7.0
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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Test Compound: Methyl methanesulfonate

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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>	10 ± 0.3	4 ± 0.3	9 ± 3.0	9 ± 0.6	8 ± 1.2
33.0	5 ± 1.2		8 ± 0.7		5 ± 1.0
100.0	8 ± 1.5	4 ± 1.5	7 ± 0.6	8 ± 2.4	9 ± 1.5
333.0	9 ± 2.0	8 ± 2.6	14 ± 2.4	11 ± 1.0	9 ± 1.5
1000.0	13 ± 4.3	17 ± 2.9	14 ± 2.3	22 ± 2.6	15 ± 1.2
2000.0		35 ± 5.6		40 ± 2.3	
3333.0	4 ± 2.8 <sup>s</sup>	22 ± 3.8 <sup>s</sup>	17 ± 2.8 <sup>s</sup>	29 ± 4.2 <sup>s</sup>	20 ± 2.1 <sup>s</sup>
Trial Summary	Negative	Positive	Equivocal	Positive	Equivocal
Positive Control <sup>2</sup>					95 ± 3.7
Positive Control <sup>3</sup>			60 ± 8.7	65 ± 8.0	
Positive Control <sup>5</sup>	140 ± 26.8	530 ± 53.6			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	6 ± 1.5
33.0	
100.0	9 ± 1.0
333.0	12 ± 0.0
1000.0	19 ± 4.6
2000.0	43 ± 4.7
3333.0	33 ± 3.8 <sup>s</sup>
Trial Summary	Positive
Positive Control <sup>2</sup>	74 ± 2.4
Positive Control <sup>3</sup>	
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>	21 ± 3.8	19 ± 1.2	25 ± 0.3	27 ± 3.5	33 ± 3.5
33.0	16 ± 1.9		25 ± 2.6		27 ± 2.6
100.0	21 ± 3.1	18 ± 1.7	26 ± 3.5	28 ± 4.4	31 ± 2.9
333.0	25 ± 1.7		29 ± 3.1		37 ± 2.1
500.0		30 ± 7.5		39 ± 3.9	
1000.0	29 ± 3.8	35 ± 0.6	44 ± 6.0	44 ± 3.5	44 ± 2.2
2000.0		32 ± 4.1		50 ± 1.7	
3333.0	23 ± 2.3 <sup>s</sup>	20 ± 5.3 <sup>s</sup>	38 ± 3.6 <sup>s</sup>	27 ± 0.7 <sup>s</sup>	38 ± 2.1 <sup>s</sup>
Trial Summary	Negative	Equivocal	Equivocal	Weakly Positive	Negative
Positive Control <sup>2</sup>					1235 ± 45.9
Positive Control <sup>3</sup>			993 ± 44.0	602 ± 38.5	
Positive Control <sup>6</sup>	1596 ± 16.3	1241 ± 51.4			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	28 ± 4.2
33.0	
100.0	28 ± 1.5
333.0	
500.0	49 ± 4.3
1000.0	51 ± 2.8
2000.0	50 ± 2.6
3333.0	37 ± 0.7 <sup>s</sup>
Trial Summary	Equivocal
Positive Control <sup>2</sup>	820 ± 17.6
Positive Control <sup>3</sup>	
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: Water

2: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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