

Experiment Number: 017880

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Acetaldehyde

CAS Number: 75-07-0

Date Report Requested: 09/14/2018

Time Report Requested: 07:11:53

**NTP Study Number:**

017880

**Study Result:**

Negative

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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>	178 ± 13.7	150 ± 10.0	181 ± 13.6	123 ± 5.0	200 ± 13.5
100.0	136 ± 8.7	142 ± 5.0	159 ± 7.8	117 ± 5.8	168 ± 11.9
333.0	155 ± 10.3	157 ± 5.8	164 ± 10.1	129 ± 16.0	180 ± 11.3
1000.0	146 ± 6.6	151 ± 3.8	158 ± 6.6	145 ± 9.1	200 ± 0.7
3333.0	150 ± 6.9	155 ± 14.7	153 ± 4.9	131 ± 4.5	178 ± 8.9
10000.0	178 ± 2.2	176 ± 16.5	167 ± 10.7	123 ± 8.5	170 ± 8.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1318 ± 27.7
Positive Control <sup>3</sup>			954 ± 38.4	915 ± 32.0	
Positive Control <sup>4</sup>	1578 ± 47.4	1518 ± 28.7			

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	137 ± 3.5
100.0	142 ± 1.7
333.0	136 ± 4.7
1000.0	160 ± 7.4
3333.0	140 ± 5.8
10000.0	142 ± 5.9
Trial Summary	Negative
Positive Control <sup>2</sup>	1149 ± 28.3
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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## G06: Ames Summary Data

Test Compound: Acetaldehyde

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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>	26 ± 2.9	26 ± 1.8	12 ± 1.8	11 ± 1.3	11 ± 1.7
100.0	24 ± 4.4	28 ± 3.0	11 ± 1.8	11 ± 2.4	13 ± 2.1
333.0	21 ± 0.7	34 ± 4.1	11 ± 3.5	10 ± 2.2	12 ± 1.5
1000.0	24 ± 1.2	30 ± 4.3	9 ± 2.9	11 ± 1.3	11 ± 1.5
3333.0	21 ± 0.6	27 ± 2.0	12 ± 1.2	11 ± 1.5	11 ± 2.4
10000.0	14 ± 1.5	31 ± 6.9	9 ± 0.6	12 ± 0.6	10 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					94 ± 11.5
Positive Control <sup>3</sup>			87 ± 6.7	103 ± 9.5	
Positive Control <sup>4</sup>	1338 ± 52.0	1307 ± 109.6			

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	9 ± 2.1
100.0	8 ± 3.1
333.0	12 ± 4.0
1000.0	10 ± 2.7
3333.0	12 ± 0.7
10000.0	10 ± 1.3
Trial Summary	Negative
Positive Control <sup>2</sup>	132 ± 9.0
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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Mutagenicity**G06: Ames Summary Data**

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**Strain: TA1537**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	3 ± 1.3	9 ± 1.8	9 ± 0.3	12 ± 0.9	9 ± 1.2
100.0	5 ± 0.3	5 ± 1.5	10 ± 2.0	11 ± 2.1	8 ± 0.6
333.0	6 ± 0.3	8 ± 1.7	9 ± 1.8	11 ± 1.8	7 ± 1.9
1000.0	5 ± 1.2	6 ± 0.9	9 ± 1.0	10 ± 2.3	5 ± 0.6
3333.0	5 ± 0.9	6 ± 2.2	8 ± 2.0	8 ± 1.2	7 ± 2.4
10000.0	6 ± 1.2	8 ± 0.6	6 ± 0.6	8 ± 0.0	8 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					93 ± 0.7
Positive Control <sup>3</sup>			66 ± 5.1	89 ± 4.1	
Positive Control <sup>5</sup>	715 ± 21.1	126 ± 13.4			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	10 ± 1.7
100.0	8 ± 3.0
333.0	9 ± 2.9
1000.0	10 ± 1.2
3333.0	7 ± 1.2
10000.0	12 ± 2.3
Trial Summary	Negative
Positive Control <sup>2</sup>	103 ± 6.9
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>	18 ± 1.8	20 ± 4.7	29 ± 2.2	27 ± 2.5	33 ± 2.7
100.0	13 ± 2.5	20 ± 4.4	31 ± 1.3	29 ± 2.0	30 ± 5.0
333.0	15 ± 0.9	20 ± 1.2	27 ± 1.9	29 ± 1.7	23 ± 2.2
1000.0	17 ± 2.6	19 ± 1.9	23 ± 1.5	27 ± 3.2	31 ± 4.5
3333.0	14 ± 1.2	20 ± 1.5	22 ± 2.0	26 ± 5.0	33 ± 4.7
10000.0	19 ± 1.5	28 ± 1.9	32 ± 5.3	28 ± 2.0	39 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					712 ± 42.6
Positive Control <sup>3</sup>			573 ± 17.0	691 ± 53.6	
Positive Control <sup>6</sup>	1734 ± 25.7	1347 ± 22.8			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	32 ± 3.2
100.0	26 ± 0.3
333.0	31 ± 6.8
1000.0	27 ± 1.3
3333.0	34 ± 4.6
10000.0	33 ± 3.2
Trial Summary	Negative
Positive Control <sup>2</sup>	1045 ± 14.3
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: Dimethyl Sulfoxide

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

\*\* END OF REPORT \*\*