

Experiment Number: 434341

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

**G06: Ames Summary Data**

Test Compound: **Diacetone acrylamide**

CAS Number: **2873-97-4**

Date Report Requested: **09/10/2018**

Time Report Requested: **21:05:20**

**NTP Study Number:**

434341

**Study Result:**

Negative

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CAS Number: 2873-97-4

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**Strain: TA100**

<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>	110 ± 3.7	122 ± 6.7	128 ± 4.2	126 ± 3.2	110 ± 10.2
100.0	123 ± 8.3	123 ± 2.5	131 ± 3.8	135 ± 3.1	102 ± 10.7
333.0	114 ± 1.3	123 ± 2.7	116 ± 2.0	131 ± 4.7	107 ± 0.3
1000.0	120 ± 10.0	105 ± 1.8	142 ± 4.2	112 ± 7.4	107 ± 4.9
3333.0	135 ± 6.2	121 ± 9.2	112 ± 2.3	137 ± 10.3	96 ± 5.8
10000.0	132 ± 3.3	79 ± 8.1	119 ± 4.4	142 ± 5.2	117 ± 7.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					2906 ± 89.4
Positive Control <sup>3</sup>			2088 ± 34.5	2353 ± 89.5	
Positive Control <sup>4</sup>	1955 ± 92.3	1578 ± 68.6			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	138 ± 18.0
100.0	125 ± 2.0
333.0	98 ± 1.5
1000.0	107 ± 17.9
3333.0	128 ± 4.3
10000.0	135 ± 11.3
Trial Summary	Negative
Positive Control <sup>2</sup>	3162 ± 88.6
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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**Strain: TA1535**

<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>	7 ± 1.8	17 ± 4.3	7 ± 0.6	10 ± 1.7	19 ± 3.3
100.0	8 ± 1.7	17 ± 2.0	7 ± 0.9	7 ± 2.0	22 ± 1.2
333.0	11 ± 0.7	15 ± 1.5	6 ± 0.3	11 ± 0.9	23 ± 2.8
1000.0	8 ± 0.9	20 ± 3.2	6 ± 2.1	10 ± 1.7	21 ± 1.5
3333.0	11 ± 2.5	17 ± 3.2	10 ± 2.7	11 ± 0.6	17 ± 2.4
10000.0	8 ± 2.7	13 ± 2.6	7 ± 1.2	9 ± 1.9	19 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					119 ± 11.5
Positive Control <sup>3</sup>			55 ± 4.7	138 ± 6.9	
Positive Control <sup>4</sup>	857 ± 18.9	1188 ± 33.7			

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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>	8 ± 0.7
100.0	9 ± 1.5
333.0	14 ± 1.7
1000.0	10 ± 0.3
3333.0	10 ± 2.1
10000.0	9 ± 1.2
Trial Summary	Negative
Positive Control <sup>2</sup>	144 ± 11.0
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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Test Compound: Diacetone acrylamide

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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>	5 ± 0.9	8 ± 2.1	4 ± 1.3	9 ± 0.7	8 ± 2.1
100.0	6 ± 0.6	6 ± 0.9	7 ± 1.2	8 ± 1.2	8 ± 1.8
333.0	6 ± 1.5	9 ± 1.3	4 ± 0.9	7 ± 1.0	8 ± 1.5
1000.0	7 ± 0.7	7 ± 1.2	5 ± 0.9	7 ± 0.6	5 ± 0.0
3333.0	5 ± 0.3	5 ± 0.3	6 ± 0.7	6 ± 1.3	6 ± 1.2
10000.0	9 ± 1.9	6 ± 1.5	5 ± 0.3	6 ± 1.5	7 ± 2.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					344 ± 24.9
Positive Control <sup>3</sup>			64 ± 16.2	193 ± 5.5	
Positive Control <sup>5</sup>	503 ± 92.5	410 ± 27.6			

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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>	5 ± 1.2
100.0	8 ± 0.3
333.0	6 ± 0.3
1000.0	9 ± 0.7
3333.0	7 ± 2.1
10000.0	7 ± 1.2
Trial Summary	Negative
Positive Control <sup>2</sup>	233 ± 15.4
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	

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## G06: Ames Summary Data

Test Compound: Diacetone acrylamide

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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>	13 ± 0.3	14 ± 2.0	20 ± 2.1	27 ± 6.4	11 ± 0.3
100.0	11 ± 0.7	18 ± 3.9	16 ± 0.3	23 ± 2.2	10 ± 1.8
333.0	11 ± 2.1	15 ± 1.7	19 ± 2.3	22 ± 2.2	11 ± 1.2
1000.0	14 ± 1.8	16 ± 1.3	18 ± 2.4	22 ± 3.4	11 ± 2.3
3333.0	16 ± 0.9	22 ± 1.8	18 ± 2.3	26 ± 3.8	10 ± 1.5
10000.0	21 ± 2.9	23 ± 2.6	18 ± 2.6	24 ± 1.0	11 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					2110 ± 100.2
Positive Control <sup>3</sup>			384 ± 48.2	2029 ± 62.1	
Positive Control <sup>6</sup>	1207 ± 34.1	1191 ± 13.6			



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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>	21 ± 2.2
100.0	30 ± 1.9
333.0	24 ± 1.7
1000.0	23 ± 3.7
3333.0	22 ± 5.2
10000.0	20 ± 1.2
Trial Summary	Negative
Positive Control <sup>2</sup>	2862 ± 37.9
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

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