

Experiment Number: A13216

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

G06: Ames Summary Data

Test Compound: **Diacetone alcohol**

CAS Number: **123-42-2**

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

Time Report Requested: **21:17:17**

NTP Study Number:

A13216

Study Result:

Negative

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G06: Ames Summary Data

Test Compound: Diacetone alcohol

CAS Number: 123-42-2

Date Report Requested: 09/15/2018

Time Report Requested: 21:17:17

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	109 ± 4.7	128 ± 8.3	143 ± 10.4	124 ± 5.8	147 ± 6.1
0.0					0 ± 0.0
100.0	112 ± 3.2	124 ± 6.4	143 ± 10.9	145 ± 11.8	148 ± 6.1
333.0	106 ± 3.2	137 ± 2.4	151 ± 8.5	139 ± 20.2	144 ± 3.8
1000.0	102 ± 9.2	133 ± 10.9	149 ± 8.3	134 ± 4.9	158 ± 10.0
3333.0	110 ± 1.2	126 ± 11.6	144 ± 2.1	121 ± 6.6	140 ± 7.8
10000.0	113 ± 2.3	129 ± 6.4	151 ± 8.3	134 ± 10.7	132 ± 10.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					530 ± 18.7
Positive Control ³			502 ± 16.2		
Positive Control ⁴					
Positive Control ⁵	1166 ± 24.6	1009 ± 51.1			
Positive Control ⁶				544 ± 17.8	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	129 ± 10.7
0.0	
100.0	131 ± 3.2
333.0	124 ± 8.4
1000.0	135 ± 8.3
3333.0	124 ± 3.0
10000.0	124 ± 2.6
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	627 ± 17.9
Positive Control ⁵	
Positive Control ⁶	

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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 ¹	13 ± 1.5	11 ± 1.9	15 ± 0.6	13 ± 2.4	9 ± 1.3
100.0	13 ± 2.1	13 ± 1.3	13 ± 2.0	9 ± 1.5	14 ± 1.2
333.0	12 ± 2.4	10 ± 0.9	13 ± 1.8	13 ± 2.1	14 ± 1.2
1000.0	10 ± 1.2	9 ± 0.3	11 ± 2.3	11 ± 0.9	10 ± 0.6
3333.0	13 ± 3.0	10 ± 1.0	12 ± 0.3	13 ± 2.6	10 ± 1.0
10000.0	8 ± 0.9	12 ± 2.2	13 ± 2.0	13 ± 3.2	11 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					194 ± 19.5
Positive Control ⁷			137 ± 10.2		
Positive Control ⁵	1017 ± 17.6	849 ± 20.0			
Positive Control ⁶					
Positive Control ⁸				241 ± 8.0	

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Test Compound: Diacetone alcohol
CAS Number: 123-42-2

Date Report Requested: 09/15/2018

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	13 ± 2.5
100.0	11 ± 0.7
333.0	10 ± 1.0
1000.0	12 ± 1.5
3333.0	12 ± 1.5
10000.0	10 ± 1.0
Trial Summary	Negative
Positive Control ³	
Positive Control ⁷	
Positive Control ⁵	
Positive Control ⁶	663 ± 23.3
Positive Control ⁸	

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Test Compound: Diacetone alcohol
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Date Report Requested: 09/15/2018

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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 ¹	130 ± 5.3	146 ± 8.7	147 ± 10.1	154 ± 2.9	151 ± 6.4
100.0	128 ± 0.3	147 ± 15.1	138 ± 5.5	149 ± 6.1	143 ± 6.8
333.0	132 ± 5.5	157 ± 2.8	134 ± 11.1	146 ± 1.0	158 ± 13.2
1000.0	129 ± 5.9	142 ± 3.5	158 ± 5.5	156 ± 3.7	149 ± 8.1
3333.0	140 ± 5.5	145 ± 11.8	166 ± 9.2	157 ± 4.1	158 ± 4.1
10000.0	142 ± 1.7	131 ± 7.4	144 ± 11.0	160 ± 4.1	153 ± 13.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					510 ± 11.6
Positive Control ³			443 ± 32.0		
Positive Control ⁴					
Positive Control ⁶				568 ± 11.1	
Positive Control ⁹	350 ± 24.6	423 ± 14.8			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	157 ± 8.2
100.0	156 ± 3.5
333.0	154 ± 4.5
1000.0	141 ± 3.3
3333.0	151 ± 7.9
10000.0	158 ± 1.5
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	464 ± 31.8
Positive Control ⁶	
Positive Control ⁹	

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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 ¹	12 ± 0.9	15 ± 0.9	17 ± 0.9	25 ± 2.2	24 ± 2.9
100.0	13 ± 2.2	17 ± 1.2	15 ± 1.5	24 ± 3.7	18 ± 4.4
333.0	12 ± 2.2	14 ± 0.9	16 ± 1.7	26 ± 3.3	19 ± 0.0
1000.0	14 ± 1.2	16 ± 1.5	21 ± 1.8	24 ± 3.3	24 ± 2.5
3333.0	13 ± 0.3	15 ± 1.7	17 ± 2.2	30 ± 0.6	22 ± 2.5
10000.0	14 ± 0.9	17 ± 2.0	9 ± 1.0	23 ± 3.5	25 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					491 ± 21.3
Positive Control ³			411 ± 22.8		
Positive Control ⁴					
Positive Control ¹⁰	330 ± 11.3	455 ± 15.9			
Positive Control ⁶				469 ± 35.8	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	23 ± 2.3
100.0	25 ± 3.2
333.0	29 ± 3.8
1000.0	22 ± 3.7
3333.0	23 ± 3.8
10000.0	25 ± 0.9
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	347 ± 17.6
Positive Control ¹⁰	
Positive Control ⁶	

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LEGEND

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: 2.0 ug/Plate 2-Aminoanthracene

5: 5.0 ug/Plate Sodium Azide

6: 5.0 ug/Plate 2-Aminoanthracene

7: 2.5 ug/Plate 2-Aminoanthracene

8: 10.0 ug/Plate 2-Aminoanthracene

9: 50.0 ug/Plate 9-Aminoacridine

10: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****