

Experiment Number: A89957

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

G06: Ames Summary Data

Test Compound: **Diacetone alcohol**

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

Date Report Requested: **09/18/2018**

Time Report Requested: **05:10:20**

NTP Study Number:

A89957

Study Result:

Negative

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Diacetone alcohol

CAS Number: 123-42-2

Date Report Requested: 09/18/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	141 ± 3.5	131 ± 3.5	128 ± 3.5	147 ± 3.6	101 ± 3.2
100.0	136 ± 3.7	130 ± 3.8	131 ± 2.7	149 ± 3.6	105 ± 3.6
333.0	142 ± 2.3	134 ± 3.0	131 ± 2.3	148 ± 1.7	111 ± 3.5
1000.0	139 ± 4.1	145 ± 6.8	123 ± 1.5	150 ± 3.5	109 ± 3.2
3333.0	139 ± 2.1	139 ± 1.2	122 ± 4.9	146 ± 6.2	111 ± 4.0
10000.0	143 ± 5.9	122 ± 1.9	114 ± 2.3	153 ± 4.0	79 ± 4.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	473 ± 33.5	625 ± 9.0			
Positive Control ³			616 ± 6.7	582 ± 10.7	1035 ± 13.6

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	145 ± 3.3
100.0	147 ± 3.5
333.0	150 ± 5.2
1000.0	154 ± 3.3
3333.0	146 ± 2.8
10000.0	143 ± 4.1
Trial Summary	Negative
Positive Control ²	
Positive Control ³	751 ± 19.8

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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	21 ± 1.5	22 ± 1.7	20 ± 3.5	15 ± 1.3	20 ± 1.2
100.0	22 ± 1.2	20 ± 2.0	18 ± 1.5	20 ± 1.2	19 ± 2.6
333.0	21 ± 1.2	23 ± 1.0	16 ± 2.6	20 ± 2.0	17 ± 1.3
1000.0	20 ± 1.5	20 ± 2.4	18 ± 0.7	22 ± 1.2	20 ± 2.3
3333.0	22 ± 1.2	21 ± 2.3	19 ± 2.4	22 ± 2.5	18 ± 1.7
10000.0	16 ± 0.7	22 ± 2.6	18 ± 2.8	12 ± 2.4	20 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	325 ± 10.2	430 ± 13.5			
Positive Control ³			271 ± 7.9	240 ± 5.5	300 ± 10.7

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	20 ± 1.8
100.0	21 ± 1.2
333.0	18 ± 0.9
1000.0	20 ± 1.2
3333.0	20 ± 2.0
10000.0	13 ± 1.5
Trial Summary	Negative
Positive Control ²	
Positive Control ³	255 ± 4.7

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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	90 ± 3.2	127 ± 4.1	134 ± 2.7	133 ± 3.8	139 ± 2.6
100.0	88 ± 2.4	125 ± 3.8	131 ± 3.5	130 ± 2.0	136 ± 2.6
333.0	92 ± 4.4	133 ± 3.2	128 ± 3.5	131 ± 2.3	135 ± 3.2
1000.0	88 ± 2.3	123 ± 3.3	131 ± 4.6	143 ± 2.1	130 ± 4.3
3333.0	88 ± 4.0	121 ± 3.8	134 ± 4.1	135 ± 2.6	138 ± 1.7
10000.0	92 ± 1.9	97 ± 2.3	137 ± 3.2	138 ± 5.2	130 ± 3.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			703 ± 26.2	318 ± 9.5	541 ± 6.1
Positive Control ⁴	509 ± 8.1	329 ± 5.6			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	123 ± 1.5
100.0	120 ± 2.9
333.0	127 ± 2.9
1000.0	125 ± 3.1
3333.0	125 ± 3.0
10000.0	128 ± 3.5
Trial Summary	Negative
Positive Control ³	816 ± 9.3
Positive Control ⁴	

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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	30 ± 1.2	37 ± 2.5	32 ± 2.2	40 ± 2.3	35 ± 2.3
100.0	31 ± 0.7	40 ± 4.4	29 ± 3.2	38 ± 2.5	36 ± 2.0
333.0	28 ± 1.5	35 ± 2.1	37 ± 4.1	34 ± 4.3	38 ± 4.0
1000.0	37 ± 2.1	30 ± 1.2	28 ± 3.4	36 ± 2.7	32 ± 3.7
3333.0	32 ± 2.6	34 ± 0.6	32 ± 2.6	38 ± 2.5	32 ± 2.3
10000.0	23 ± 2.7	26 ± 2.3	21 ± 1.5	35 ± 3.1	22 ± 2.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁵	242 ± 6.2	304 ± 5.2			
Positive Control ³			347 ± 6.2	261 ± 10.7	971 ± 16.3

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	43 ± 2.6
100.0	54 ± 3.0
333.0	48 ± 3.0
1000.0	47 ± 1.7
3333.0	39 ± 0.9
10000.0	41 ± 3.5
Trial Summary	Negative
Positive Control ⁵	
Positive Control ³	882 ± 26.0

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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: 1.0 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 50.0 ug/Plate 9-Aminoacridine

5: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****