

Experiment Number: A33655

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

G06: Ames Summary Data

Test Compound: **2-Cyclohexen-1-one**

CAS Number: **930-68-7**

Date Report Requested: **09/16/2018**

Time Report Requested: **17:42:47**

NTP Study Number:

A33655

Study Result:

Negative

Experiment Number: A33655

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Cyclohexen-1-one

CAS Number: 930-68-7

Date Report Requested: 09/16/2018

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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	113 ± 2.2	127 ± 2.9	127 ± 3.5	140 ± 7.0	145 ± 3.8
10.0	111 ± 12.5	132 ± 2.6	136 ± 7.2	148 ± 7.2	130 ± 11.8
33.0	108 ± 9.8	125 ± 4.9	142 ± 4.1	145 ± 9.6	140 ± 7.6
100.0	94 ± 4.9	129 ± 5.2	132 ± 3.8	127 ± 5.5	128 ± 11.0
333.0	104 ± 6.2	112 ± 6.8	127 ± 8.3	126 ± 4.4	127 ± 11.6
1000.0	62 ± 2.5	97 ± 8.6	90 ± 10.4	94 ± 4.8	87 ± 7.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					496 ± 11.3
Positive Control ³			424 ± 4.2		
Positive Control ⁴	1009 ± 32.4	921 ± 14.8			
Positive Control ⁵				1148 ± 42.7	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	156 ± 5.9
10.0	153 ± 3.2
33.0	145 ± 3.9
100.0	147 ± 2.4
333.0	140 ± 13.1
1000.0	93 ± 7.4
Trial Summary	Negative
Positive Control ²	
Positive Control ³	625 ± 6.7
Positive Control ⁴	
Positive Control ⁵	

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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	12 ± 1.2	13 ± 1.5	12 ± 0.9	13 ± 1.0	15 ± 1.8
10.0	14 ± 0.9	14 ± 1.0	16 ± 0.3	12 ± 0.3	14 ± 0.9
33.0	12 ± 1.2	15 ± 0.6	18 ± 1.0	10 ± 1.5	16 ± 0.9
100.0	11 ± 2.0	13 ± 0.3	14 ± 0.9	9 ± 0.0	13 ± 0.3
333.0	10 ± 1.2	12 ± 0.9	14 ± 0.9	8 ± 0.0	15 ± 0.3
1000.0	8 ± 0.6	13 ± 2.0	11 ± 0.6	12 ± 1.5	12 ± 2.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					206 ± 4.6
Positive Control ⁴	945 ± 26.4	872 ± 11.4			
Positive Control ⁵			171 ± 11.0		
Positive Control ⁶				131 ± 3.5	

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G06: Ames Summary Data

Test Compound: **2-Cyclohexen-1-one**

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	13 ± 1.8
10.0	11 ± 1.5
33.0	10 ± 1.2
100.0	11 ± 2.0
333.0	13 ± 0.9
1000.0	9 ± 1.2
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	206 ± 8.2
Positive Control ⁶	

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G06: Ames Summary Data

Test Compound: 2-Cyclohexen-1-one

CAS Number: 930-68-7

Date Report Requested: 09/16/2018

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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	146 ± 5.4	138 ± 5.5	171 ± 6.1	143 ± 6.8	161 ± 5.1
10.0	143 ± 2.3	144 ± 3.0	168 ± 5.0	145 ± 3.8	162 ± 2.2
33.0	150 ± 0.7	132 ± 3.3	179 ± 4.6	153 ± 2.5	161 ± 8.6
100.0	134 ± 9.1	145 ± 9.2	181 ± 2.2	148 ± 6.4	164 ± 8.0
333.0	147 ± 4.6	149 ± 6.4	181 ± 12.4	166 ± 1.7	156 ± 3.5
1000.0	144 ± 9.1	123 ± 2.1	144 ± 9.8	95 ± 4.2	145 ± 6.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					396 ± 10.2
Positive Control ³			350 ± 19.0		
Positive Control ⁵				527 ± 29.2	
Positive Control ⁷	343 ± 22.2	330 ± 8.7			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	167 ± 6.0
10.0	162 ± 9.4
33.0	167 ± 9.3
100.0	165 ± 8.5
333.0	161 ± 4.6
1000.0	130 ± 14.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	527 ± 7.8
Positive Control ⁵	
Positive Control ⁷	

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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 ± 1.7	23 ± 2.2	24 ± 2.1	22 ± 0.9	25 ± 2.2
10.0	15 ± 0.0	22 ± 2.1	25 ± 1.2	19 ± 2.4	28 ± 1.2
33.0	16 ± 3.5	24 ± 0.0	24 ± 1.5	15 ± 1.8	25 ± 2.6
100.0	17 ± 2.1	23 ± 1.5	24 ± 1.7	22 ± 2.2	24 ± 1.3
333.0	16 ± 1.2	24 ± 1.8	23 ± 2.8	17 ± 1.8	27 ± 3.3
1000.0	14 ± 0.3	18 ± 0.9	17 ± 1.7	12 ± 2.0	17 ± 1.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					407 ± 9.7
Positive Control ³			347 ± 12.4		
Positive Control ⁸	356 ± 12.7	409 ± 9.1			
Positive Control ⁵				785 ± 22.8	

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Date Report Requested: **09/16/2018**

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	23 ± 2.3
10.0	22 ± 3.2
33.0	16 ± 0.9
100.0	20 ± 2.6
333.0	15 ± 1.8
1000.0	14 ± 3.6
Trial Summary	Negative
Positive Control ²	
Positive Control ³	367 ± 23.6
Positive Control ⁸	
Positive Control ⁵	

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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 2-Aminoanthracene

3: 2.0 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 5.0 ug/Plate 2-Aminoanthracene

6: 10.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****