

Experiment Number: **A61059**

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

**G06: Ames Summary Data**

Test Compound: **Cyclohexene oxide**

CAS Number: **286-20-4**

Date Report Requested: **09/17/2018**

Time Report Requested: **09:07:29**

**NTP Study Number:**

A61059

**Study Result:**

Positive

Experiment Number: A61059

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Mutagenicity

## G06: Ames Summary Data

Test Compound: Cyclohexene oxide

CAS Number: 286-20-4

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	100 ± 2.6	102 ± 2.6	117 ± 3.5	120 ± 4.5	113 ± 6.6
666.0	152 ± 4.4	158 ± 16.6			
1000.0	175 ± 5.3	149 ± 5.6	173 ± 6.0	144 ± 4.3	144 ± 3.3
1666.0	168 ± 4.4	144 ± 3.0	222 ± 3.2	200 ± 4.8	190 ± 7.4
3333.0	Toxic	143 ± 3.2	325 ± 7.2	260 ± 7.7	214 ± 3.5
6666.0	Toxic	35 ± 6.1 <sup>s</sup>	450 ± 5.8	349 ± 9.7	454 ± 3.8
10000.0			574 ± 6.7	353 ± 9.3	567 ± 5.8
Trial Summary	Weakly Positive	Equivocal	Positive	Positive	Positive
Positive Control <sup>2</sup>			578 ± 5.5	545 ± 12.7	666 ± 11.1
Positive Control <sup>3</sup>	635 ± 5.0	607 ± 18.8			

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	103 ± 3.3
666.0	
1000.0	136 ± 6.1
1666.0	201 ± 5.6
3333.0	237 ± 1.2
6666.0	313 ± 8.7
10000.0	223 ± 4.0
Trial Summary	Positive
Positive Control <sup>2</sup>	593 ± 6.4
Positive Control <sup>3</sup>	

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Strain: TA1535

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Dose (ug/Plate)	Without S9
Vehicle Control <sup>1</sup>	16 ± 2.6
666.0	56 ± 6.9
1000.0	81 ± 6.7
1666.0	97 ± 2.2
3333.0	122 ± 9.5
6666.0	Toxic
Trial Summary	Positive
Positive Control <sup>3</sup>	307 ± 4.1

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	19 ± 2.6	28 ± 1.5	27 ± 3.7
666.0	19 ± 1.5		
1000.0	18 ± 1.5	25 ± 1.7	32 ± 1.5
1666.0	22 ± 3.0	31 ± 1.5	29 ± 3.2
3333.0	16 ± 2.0	26 ± 0.7	27 ± 3.2
6666.0	5 ± 1.5 <sup>s</sup>	26 ± 1.8	25 ± 2.2
10000.0		20 ± 1.8	20 ± 1.2
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>		349 ± 17.4	446 ± 21.7
Positive Control <sup>4</sup>	317 ± 9.2		

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**G06: Ames Summary Data**

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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: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

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

s: Slight Toxicity

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