

Experiment Number: 187568

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Cyclohexanone cyanohydrin

CAS Number: 931-97-5

Date Report Requested: 09/14/2018

Time Report Requested: 00:54:16

**NTP Study Number:**

187568

**Study Result:**

Negative

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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 <sup>1</sup>	86 ± 2.7	113 ± 11.0	94 ± 2.7	103 ± 9.7	97 ± 11.7
0.03	91 ± 9.1	113 ± 8.6			
0.1	79 ± 7.5	111 ± 6.1			
0.3	75 ± 7.1	108 ± 2.3			
1.0	87 ± 9.7	104 ± 3.2	111 ± 8.4	114 ± 1.0	89 ± 0.6
3.0	91 ± 5.2	110 ± 11.8	86 ± 2.6	129 ± 11.1	81 ± 11.1
10.0			92 ± 2.4	111 ± 4.9	91 ± 11.9
33.0			92 ± 6.1	119 ± 4.3	88 ± 8.7
100.0			95 ± 1.8	122 ± 4.0	89 ± 6.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			819 ± 28.0	205 ± 10.7	1863 ± 16.2
Positive Control <sup>3</sup>	291 ± 8.8	312 ± 14.7			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	120 ± 10.2
0.03	
0.1	
0.3	
1.0	110 ± 7.1
3.0	113 ± 16.5
10.0	130 ± 5.0
33.0	130 ± 9.9
100.0	114 ± 6.7
Trial Summary	Negative
Positive Control <sup>2</sup>	367 ± 7.7
Positive Control <sup>3</sup>	

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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 <sup>1</sup>	22 ± 5.7	24 ± 4.0	5 ± 0.7	10 ± 2.5	6 ± 0.9
0.03	14 ± 1.5	24 ± 2.2			
0.1	11 ± 2.0	23 ± 4.1			
0.3	17 ± 1.5	28 ± 2.1			
1.0	9 ± 4.3	27 ± 1.9	6 ± 1.8	9 ± 2.1	7 ± 0.9
3.0	14 ± 3.0	21 ± 3.8	7 ± 3.0	12 ± 1.9	5 ± 0.3
10.0			8 ± 2.0	9 ± 1.7	7 ± 1.2
33.0			5 ± 1.5	7 ± 0.7	8 ± 0.7
100.0			6 ± 1.5	7 ± 1.2	5 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>	246 ± 8.8	297 ± 3.0			
Positive Control <sup>4</sup>			221 ± 17.0	77 ± 8.4	415 ± 9.5

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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	10 ± 2.1
0.03	
0.1	
0.3	
1.0	10 ± 1.5
3.0	8 ± 2.3
10.0	8 ± 0.7
33.0	10 ± 1.8
100.0	5 ± 0.6
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	428 ± 31.1

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Mutagenicity**G06: Ames Summary Data**Test Compound: Cyclohexanone cyanohydrin  
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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 <sup>1</sup>	207 ± 10.1	215 ± 10.8	213 ± 11.3	204 ± 10.1	191 ± 14.1
0.03	225 ± 2.9	245 ± 28.0			
0.1	208 ± 13.0	239 ± 11.8			
0.3	209 ± 6.5	212 ± 18.5			
1.0	206 ± 14.0	237 ± 17.2	232 ± 25.3	214 ± 16.0	222 ± 12.3
3.0	186 ± 7.8	241 ± 13.9	242 ± 8.0	222 ± 9.5	238 ± 5.1
10.0			252 ± 8.6	233 ± 21.6	218 ± 23.7
33.0			241 ± 18.8	216 ± 15.3	239 ± 32.6
100.0			241 ± 4.2	210 ± 4.9	217 ± 7.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			641 ± 24.3	680 ± 21.3	589 ± 13.4
Positive Control <sup>5</sup>	602 ± 34.5	887 ± 73.2			

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	223 ± 10.8
0.03	
0.1	
0.3	
1.0	225 ± 11.7
3.0	250 ± 21.3
10.0	277 ± 13.9
33.0	226 ± 4.7
100.0	229 ± 6.8
Trial Summary	Negative
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	568 ± 34.1

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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 <sup>1</sup>	10 ± 1.7	16 ± 1.5	25 ± 2.0	26 ± 4.3	26 ± 4.8
0.03	13 ± 3.8	16 ± 2.3			
0.1	11 ± 2.5	15 ± 1.5			
0.3	14 ± 2.9	14 ± 0.9			
1.0	13 ± 2.4	15 ± 0.6	23 ± 1.5	20 ± 2.7	17 ± 0.3
3.0	6 ± 1.5	15 ± 0.9	20 ± 4.0	15 ± 2.6	19 ± 1.2
10.0			22 ± 4.0	17 ± 3.3	20 ± 2.3
33.0			18 ± 3.4	22 ± 4.0	17 ± 2.2
100.0			13 ± 0.3	16 ± 1.8	8 ± 4.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			328 ± 26.0	72 ± 5.2	1351 ± 247.0
Positive Control <sup>6</sup>	396 ± 24.4	560 ± 43.7			



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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	24 ± 2.6
0.03	
0.1	
0.3	
1.0	19 ± 4.6
3.0	19 ± 2.2
10.0	25 ± 4.3
33.0	23 ± 4.1
100.0	19 ± 3.5
Trial Summary	Negative
Positive Control <sup>2</sup>	137 ± 14.3
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: Dimethyl Sulfoxide

2: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

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