

Experiment Number: 240546

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: N,N'-Dicyclohexylthiourea

CAS Number: 1212-29-9

Date Report Requested: 09/10/2018

Time Report Requested: 19:13:01

**NTP Study Number:**

240546

**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>	108 ± 9.3	118 ± 10.5	135 ± 8.2	146 ± 8.7	131 ± 1.9
100.0	102 ± 12.5	108 ± 8.0	136 ± 8.4	152 ± 13.0	147 ± 6.6
333.0	101 ± 12.4	125 ± 4.9	124 ± 1.9	145 ± 9.7	130 ± 11.9
1000.0	97 ± 7.3	125 ± 2.5	117 ± 5.3	158 ± 9.5	133 ± 8.4
3333.0	97 ± 6.7 <sup>P</sup>	97 ± 3.1 <sup>P</sup>	137 ± 3.9 <sup>P</sup>	147 ± 3.2 <sup>P</sup>	142 ± 3.2 <sup>P</sup>
10000.0	86 ± 4.6 <sup>P</sup>	84 ± 9.5 <sup>P</sup>	141 ± 2.3 <sup>P</sup>	143 ± 8.1 <sup>P</sup>	153 ± 7.0 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					760 ± 50.1
Positive Control <sup>3</sup>	330 ± 7.7	526 ± 14.7			
Positive Control <sup>4</sup>			434 ± 19.1	398 ± 18.4	

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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>	167 ± 9.4
100.0	165 ± 11.9
333.0	147 ± 20.8
1000.0	156 ± 10.9
3333.0	147 ± 11.0 <sup>P</sup>
10000.0	143 ± 3.2 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	692 ± 28.9

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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>	18 ± 4.5	27 ± 2.1	10 ± 0.0	18 ± 1.7	9 ± 1.8
100.0	15 ± 0.0	25 ± 2.9	10 ± 0.6	13 ± 0.3	5 ± 1.5
333.0	9 ± 3.0	21 ± 2.3	7 ± 2.0	18 ± 2.0	6 ± 0.9
1000.0	8 ± 2.2	20 ± 1.5	7 ± 3.0	14 ± 1.0	3 ± 0.9
3333.0	8 ± 1.3 <sup>p</sup>	20 ± 2.0 <sup>p</sup>	6 ± 0.3 <sup>p</sup>	12 ± 1.0 <sup>p</sup>	3 ± 0.6 <sup>p</sup>
10000.0	8 ± 1.2 <sup>p</sup>	19 ± 2.3 <sup>p</sup>	9 ± 1.3 <sup>p</sup>	11 ± 0.3 <sup>p</sup>	6 ± 0.7 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>					286 ± 10.9
Positive Control <sup>3</sup>	281 ± 19.0	461 ± 17.6			
Positive Control <sup>5</sup>			129 ± 2.5	122 ± 7.1	

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	14 ± 1.9
100.0	11 ± 2.2
333.0	11 ± 2.4
1000.0	10 ± 1.8
3333.0	7 ± 1.0 <sup>P</sup>
10000.0	8 ± 1.2 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>4</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	427 ± 12.4

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Rat S9</b>
Vehicle Control <sup>1</sup>	11 ± 1.9
333.0	11 ± 0.7
1000.0	5 ± 1.2
1666.0	6 ± 0.3
3333.0	6 ± 0.6 <sup>P</sup>
6666.0	5 ± 0.7 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>5</sup>	382 ± 2.2

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	125 ± 6.1	169 ± 5.2	147 ± 4.6	195 ± 3.6	191 ± 4.4
100.0	98 ± 10.7	162 ± 7.6	157 ± 7.9		187 ± 4.4
333.0	90 ± 10.6	156 ± 4.4	153 ± 9.2	179 ± 9.1	186 ± 13.1
1000.0	92 ± 9.0	136 ± 9.5	174 ± 1.7	180 ± 8.7	197 ± 6.6
1666.0				170 ± 14.3	
3333.0	85 ± 7.3 <sup>p</sup>	111 ± 2.1 <sup>p</sup>	195 ± 5.0 <sup>p</sup>	160 ± 13.9 <sup>p</sup>	197 ± 5.9 <sup>p</sup>
6666.0				126 ± 7.5 <sup>p</sup>	
10000.0	82 ± 4.9 <sup>p</sup>	105 ± 8.7 <sup>p</sup>	146 ± 10.2 <sup>p</sup>		164 ± 10.5 <sup>p</sup>
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>4</sup>			354 ± 8.7	861 ± 26.1	
Positive Control <sup>5</sup>					357 ± 23.0
Positive Control <sup>6</sup>	340 ± 16.5	318 ± 9.5			

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	145 ± 4.5	149 ± 15.0
100.0	132 ± 2.6	174 ± 5.5
333.0	144 ± 4.6	168 ± 3.1
1000.0	136 ± 0.7	157 ± 7.7
1666.0		
3333.0	149 ± 10.9 <sup>p</sup>	153 ± 6.7 <sup>p</sup>
6666.0		
10000.0	118 ± 8.7 <sup>p</sup>	157 ± 9.5 <sup>p</sup>
Trial Summary	Negative	Negative
Positive Control <sup>2</sup>	517 ± 17.1	
Positive Control <sup>4</sup>		450 ± 9.2
Positive Control <sup>5</sup>		
Positive Control <sup>6</sup>		



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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>	22 ± 2.5	31 ± 2.1	33 ± 1.5	32 ± 2.8	37 ± 3.5
100.0	15 ± 1.7	25 ± 5.0	25 ± 6.0	29 ± 4.7	32 ± 2.2
333.0	11 ± 1.3	29 ± 0.0	28 ± 3.6	29 ± 3.4	29 ± 2.6
1000.0	12 ± 2.5	23 ± 4.3	26 ± 2.1	28 ± 0.6	31 ± 1.5
3333.0	8 ± 0.3 <sup>P</sup>	22 ± 3.3 <sup>P</sup>	18 ± 0.9 <sup>P</sup>	20 ± 5.1 <sup>P</sup>	25 ± 2.6 <sup>P</sup>
10000.0	15 ± 1.7 <sup>P</sup>	23 ± 1.5 <sup>P</sup>	22 ± 0.7 <sup>P</sup>	17 ± 2.9 <sup>P</sup>	25 ± 3.5 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					502 ± 27.0
Positive Control <sup>4</sup>			258 ± 8.4	102 ± 3.0	
Positive Control <sup>7</sup>	784 ± 20.9	1143 ± 19.3			

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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	22 ± 2.2
100.0	27 ± 4.5
333.0	24 ± 2.0
1000.0	18 ± 4.9
3333.0	18 ± 2.3 <sup>p</sup>
10000.0	15 ± 2.6 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	401 ± 69.3
Positive Control <sup>7</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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 1.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate 2-Aminoanthracene

6: 25.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

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