

Experiment Number: 777152

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

**G06: Ames Summary Data**

Test Compound: **4-Vinylcyclohexene**

CAS Number: **100-40-3**

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

Time Report Requested: **00:47:00**

**NTP Study Number:**

777152

**Study Result:**

Negative

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	121 ± 2.2	90 ± 6.5	133 ± 5.9	81 ± 3.2	136 ± 5.2
3.3	84 ± 3.7	71 ± 7.8			
10.0	87 ± 1.2	59 ± 0.0	123 ± 7.6	66 ± 5.9	146 ± 4.9
33.0	82 ± 5.7	71 ± 1.9	128 ± 9.2	84 ± 5.6	129 ± 8.3
100.0	64 ± 12.5	64 ± 2.6	128 ± 1.8	84 ± 6.0	120 ± 11.0
333.0	58 ± 8.5	62 ± 4.1	139 ± 3.7	80 ± 2.4	112 ± 9.5
1000.0			Toxic	Toxic	40 ± 40.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			1001 ± 112.9	1362 ± 92.4	1914 ± 138.8
Positive Control <sup>3</sup>	585 ± 40.5	376 ± 94.5			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	77 ± 4.2
3.3	
10.0	84 ± 2.4
33.0	94 ± 12.1
100.0	90 ± 5.7
333.0	87 ± 8.8
1000.0	52 ± 14.0
Trial Summary	Negative
Positive Control <sup>2</sup>	1468 ± 2.9
Positive Control <sup>3</sup>	

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**Strain: TA1535**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	5 ± 0.3	8 ± 0.3	7 ± 1.3	6 ± 1.3	7 ± 1.5
3.3	5 ± 1.2	3 ± 0.9		9 ± 1.0	
10.0	5 ± 1.2	3 ± 0.9	6 ± 0.3	9 ± 2.5	5 ± 1.0
33.0	5 ± 1.2	3 ± 0.6	6 ± 1.0	8 ± 1.7	8 ± 1.7
100.0	8 ± 1.7	4 ± 0.9	8 ± 1.2	5 ± 0.0	5 ± 0.3
333.0	6 ± 2.5	2 ± 0.6	9 ± 1.3	10 ± 2.1	7 ± 0.7
1000.0			0 ± 0.0		12 ± 4.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			51 ± 0.7	43 ± 3.5	160 ± 11.1
Positive Control <sup>3</sup>	623 ± 19.8	724 ± 63.9			

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	7 ± 1.5
3.3	
10.0	5 ± 1.3
33.0	7 ± 2.6
100.0	7 ± 2.0
333.0	7 ± 1.2
1000.0	4 ± 4.0
Trial Summary	Negative
Positive Control <sup>2</sup>	106 ± 2.6
Positive Control <sup>3</sup>	

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**Strain: TA1537**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	14 ± 1.5	2 ± 0.9	13 ± 0.6	6 ± 1.2	12 ± 1.9
3.3	17 ± 0.9	2 ± 0.3			
10.0	14 ± 1.9	1 ± 0.3	12 ± 1.8	5 ± 0.6	15 ± 2.2
33.0	14 ± 3.8	2 ± 0.0	12 ± 1.8	6 ± 1.5	14 ± 2.0
100.0	13 ± 1.2	2 ± 0.0	15 ± 2.3	5 ± 0.7	11 ± 2.0
333.0	14 ± 2.0	2 ± 0.6	18 ± 1.5	5 ± 0.9	11 ± 3.2
1000.0			1 ± 1.0	4 ± 0.9	3 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			193 ± 5.2	53 ± 13.6	207 ± 11.5
Positive Control <sup>4</sup>	93 ± 26.5	67 ± 8.2			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	6 ± 0.9
3.3	
10.0	4 ± 0.7
33.0	5 ± 0.9
100.0	5 ± 0.7
333.0	3 ± 0.9
1000.0	1 ± 0.3
Trial Summary	Negative
Positive Control <sup>2</sup>	90 ± 23.0
Positive Control <sup>4</sup>	

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## G06: Ames Summary Data

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	11 ± 2.3	13 ± 3.8	19 ± 2.5	20 ± 5.8	18 ± 5.6
3.3	12 ± 1.0	13 ± 2.1			
10.0	11 ± 2.6	12 ± 1.2	18 ± 1.5	19 ± 3.5	17 ± 2.6
33.0	12 ± 1.0	13 ± 3.0	16 ± 2.1	18 ± 1.0	10 ± 0.9
100.0	7 ± 1.0	12 ± 1.0	15 ± 3.0	20 ± 3.0	12 ± 3.2
333.0	Toxic	18 ± 2.3	14 ± 1.7	17 ± 3.2	13 ± 2.0
1000.0			11 ± 3.0	13 ± 1.8	0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			431 ± 22.2	357 ± 119.7	1169 ± 48.5
Positive Control <sup>5</sup>	87 ± 10.7	110 ± 9.3			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	20 ± 3.2
3.3	
10.0	15 ± 2.6
33.0	19 ± 2.9
100.0	13 ± 1.2
333.0	11 ± 2.4
1000.0	15 ± 0.5
Trial Summary	Negative
Positive Control <sup>2</sup>	1111 ± 37.0
Positive Control <sup>5</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: 3.3 ug/Plate Sodium Azide
- 4: 33.0 ug/Plate 9-Aminoacridine
- 5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

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