

Experiment Number: 389619

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Ethylidenenorbornene

CAS Number: 16219-75-3

Date Report Requested: 09/14/2018

Time Report Requested: 09:59:51

**NTP Study Number:**

389619

**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>	98 ± 8.8	116 ± 11.0	101 ± 14.3	136 ± 11.0	119 ± 7.9
1.0		111 ± 8.9		142 ± 6.4	
3.3	98 ± 3.2	116 ± 5.0	103 ± 9.0	123 ± 11.5	107 ± 9.1
10.0	119 ± 9.6	122 ± 10.5	125 ± 3.5	132 ± 3.5	118 ± 5.5
33.0	119 ± 8.8	110 ± 9.0	96 ± 4.6	137 ± 3.3	95 ± 11.1
100.0	81 ± 11.1 <sup>s</sup>	Toxic	121 ± 1.7	130 ± 2.7	119 ± 11.3
333.0	79 ± 6.5 <sup>s</sup>		86 ± 7.1 <sup>s</sup>		79 ± 10.1 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					507 ± 37.5
Positive Control <sup>3</sup>			811 ± 10.2	1656 ± 62.7	
Positive Control <sup>4</sup>	1468 ± 33.0	1494 ± 2.3			

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	129 ± 2.3
1.0	117 ± 23.9
3.3	128 ± 11.1
10.0	137 ± 3.0
33.0	129 ± 4.5
100.0	106 ± 5.8
333.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	1609 ± 45.6
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	34 ± 4.2	28 ± 4.8	38 ± 1.3	35 ± 4.5	30 ± 3.9
1.0		30 ± 5.4		36 ± 1.5	
3.3	43 ± 2.6	32 ± 3.9	38 ± 1.5	29 ± 1.5	29 ± 0.7
10.0	37 ± 0.3	35 ± 3.2	36 ± 4.5	36 ± 2.4	29 ± 1.2
33.0	32 ± 5.5	26 ± 7.5	48 ± 4.1	32 ± 3.8	37 ± 4.2
100.0	30 ± 1.8 <sup>s</sup>	25 ± 0.5 <sup>s</sup>	36 ± 6.7 <sup>s</sup>	32 ± 4.7 <sup>s</sup>	30 ± 2.1 <sup>s</sup>
333.0	Toxic		26 ± 0.9 <sup>s</sup>		23 ± 3.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					118 ± 4.8
Positive Control <sup>3</sup>			118 ± 8.0	169 ± 9.4	
Positive Control <sup>4</sup>	779 ± 22.5	1140 ± 14.2			

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	30 ± 2.2
1.0	29 ± 3.5
3.3	27 ± 1.7
10.0	31 ± 1.8
33.0	34 ± 2.0
100.0	27 ± 1.2 <sup>s</sup>
333.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	183 ± 3.5
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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## G06: Ames Summary Data

Test Compound: Ethylidenenorbornene

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## Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	5 ± 2.0	5 ± 1.9	9 ± 2.9	15 ± 4.0	7 ± 1.9
1.0		6 ± 3.0		11 ± 2.7	
3.3	7 ± 2.8	6 ± 0.9	11 ± 1.2	11 ± 1.9	9 ± 1.8
10.0	11 ± 0.9	4 ± 2.4	12 ± 0.6	9 ± 0.7	8 ± 2.4
33.0	6 ± 0.9	5 ± 0.6	10 ± 1.2	9 ± 0.6	11 ± 0.7
100.0	5 ± 0.0 <sup>s</sup>	4 ± 0.9 <sup>s</sup>	8 ± 2.3	11 ± 3.8	8 ± 2.1 <sup>s</sup>
333.0	Toxic		6 ± 0.9 <sup>s</sup>		7 ± 0.3 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					131 ± 19.2
Positive Control <sup>3</sup>			169 ± 9.5	216 ± 13.9	
Positive Control <sup>5</sup>	167 ± 24.7	306 ± 18.1			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	7 ± 0.6
1.0	8 ± 1.3
3.3	10 ± 2.3
10.0	10 ± 0.6
33.0	10 ± 0.3
100.0	9 ± 1.8 <sup>s</sup>
333.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	173 ± 10.1
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	

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Test Type: Genetic Toxicology - Bacterial Mutagenicity

**G06: Ames Summary Data**

Test Compound: Ethylidenenorbornene

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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>	21 ± 4.7	24 ± 0.3	26 ± 2.1	48 ± 2.9	25 ± 5.9
1.0		19 ± 2.6		39 ± 3.6	
3.3	21 ± 3.0	22 ± 1.2	29 ± 3.3	38 ± 3.9	36 ± 1.2
10.0	14 ± 2.8	23 ± 1.2	25 ± 3.2	49 ± 4.9	30 ± 2.6
33.0	20 ± 1.2	20 ± 1.2	30 ± 2.5	47 ± 4.0	24 ± 3.2
100.0	20 ± 2.5 <sup>s</sup>	16 ± 0.6 <sup>s</sup>	31 ± 3.2	40 ± 2.6	27 ± 0.3 <sup>s</sup>
333.0	15 ± 1.5 <sup>s</sup>		19 ± 4.2 <sup>s</sup>		17 ± 3.7 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					265 ± 10.7
Positive Control <sup>3</sup>			440 ± 16.8	2189 ± 108.8	
Positive Control <sup>6</sup>	969 ± 44.2	2026 ± 19.5			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	36 ± 1.2
1.0	47 ± 0.3
3.3	43 ± 4.1
10.0	37 ± 5.7
33.0	39 ± 1.0
100.0	40 ± 3.3
333.0	
Trial Summary	Equivocal
Positive Control <sup>2</sup>	2137 ± 83.4
Positive Control <sup>3</sup>	
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: 95% Ethanol

2: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

\*\* END OF REPORT \*\*