

Experiment Number: 451423

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

G06: Ames Summary Data

Test Compound: **Ethylidenenorbornene**

CAS Number: **16219-75-3**

Date Report Requested: **09/11/2018**

Time Report Requested: **03:46:28**

NTP Study Number:

451423

Study Result:

Negative

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Mutagenicity**G06: Ames Summary Data**Test Compound: Ethylidenenorbornene
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Date Report Requested: 09/11/2018

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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 ¹	97 ± 2.1	118 ± 10.7	89 ± 7.0	124 ± 5.5	91 ± 6.7
3.0		140 ± 12.3		123 ± 14.5	
10.0	94 ± 3.6	122 ± 7.1		125 ± 13.9	
33.0	88 ± 1.9	134 ± 1.7	86 ± 7.0	104 ± 10.2	97 ± 8.9
100.0	88 ± 4.9	109 ± 13.9	82 ± 8.8	107 ± 3.1	96 ± 3.2
333.0	68 ± 8.2 ^s	103 ± 12.2 ^s	78 ± 10.7	102 ± 6.4	79 ± 6.1
1000.0	Toxic		73 ± 6.4 ^s		67 ± 6.1 ^s
3333.0			Toxic		12 ± 12.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			407 ± 7.3	664 ± 19.7	983 ± 51.8
Positive Control ³	217 ± 14.4	297 ± 18.2			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	114 ± 4.1
3.0	96 ± 4.3
10.0	90 ± 7.6
33.0	94 ± 3.2
100.0	92 ± 9.4
333.0	97 ± 2.0
1000.0	
3333.0	
Trial Summary	Negative
Positive Control ²	1641 ± 35.6
Positive Control ³	

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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 ¹	25 ± 2.9	31 ± 4.2	7 ± 0.6	12 ± 2.3	9 ± 1.5
3.0		35 ± 1.7		7 ± 1.5	
10.0	23 ± 1.7	40 ± 1.3		9 ± 3.5	
33.0	20 ± 2.3	38 ± 1.5	6 ± 1.2	14 ± 1.0	8 ± 0.0
100.0	19 ± 1.2	37 ± 2.6	5 ± 0.6	12 ± 3.2	8 ± 0.6
333.0	5 ± 1.2 ^s	31 ± 1.2 ^s	4 ± 0.0	10 ± 2.7	6 ± 1.2
1000.0	Toxic		5 ± 2.2 ^s		6 ± 2.8
3333.0			0 ± 0.0 ^s		0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	276 ± 25.4	355 ± 40.6			
Positive Control ⁴			182 ± 13.1	131 ± 6.9	359 ± 14.4

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 1.7
3.0	8 ± 0.6
10.0	8 ± 0.3
33.0	8 ± 0.7
100.0	9 ± 2.3
333.0	10 ± 0.9
1000.0	
3333.0	
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	407 ± 12.2

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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 ¹	7 ± 0.6	6 ± 1.2	5 ± 0.3	11 ± 1.0	4 ± 1.9
3.0		7 ± 2.4		10 ± 4.2	
10.0	4 ± 0.9	5 ± 0.6		6 ± 1.8	
33.0	7 ± 0.7	4 ± 0.9	8 ± 0.9	4 ± 1.5	7 ± 1.2
100.0	5 ± 0.6	4 ± 1.5	5 ± 1.2	9 ± 2.7	6 ± 0.7
333.0	2 ± 0.3 ^s	6 ± 0.6 ^s	3 ± 1.0	7 ± 2.9	5 ± 1.2
1000.0	Toxic		4 ± 0.3 ^s		6 ± 1.9 ^s
3333.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			139 ± 18.6	163 ± 7.4	292 ± 10.3
Positive Control ⁵	155 ± 12.1	113 ± 10.8			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	4 ± 1.7
3.0	11 ± 2.1
10.0	9 ± 1.7
33.0	10 ± 4.3
100.0	8 ± 0.3
333.0	8 ± 3.8
1000.0	
3333.0	
Trial Summary	Negative
Positive Control ⁴	396 ± 9.5
Positive Control ⁵	

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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 ¹	22 ± 1.2	16 ± 4.2	19 ± 0.0	32 ± 8.4	26 ± 1.2
3.0		26 ± 3.4		36 ± 4.4	
10.0	14 ± 0.9	18 ± 1.2		34 ± 4.7	
33.0	11 ± 2.2	22 ± 7.0	23 ± 2.1	36 ± 2.7	26 ± 2.7
100.0	11 ± 2.1	18 ± 3.5	18 ± 1.2	35 ± 5.7	24 ± 2.9
333.0	3 ± 3.0 ^s	11 ± 2.2 ^s	22 ± 2.2	39 ± 2.5	17 ± 5.5
1000.0	Toxic		22 ± 2.7 ^s		13 ± 3.8 ^s
3333.0			Toxic		0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			332 ± 15.1	479 ± 43.6	813 ± 78.7
Positive Control ⁶	374 ± 25.0	282 ± 21.4			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	31 ± 5.7
3.0	40 ± 6.5
10.0	37 ± 4.4
33.0	30 ± 5.1
100.0	33 ± 2.6
333.0	27 ± 7.3
1000.0	
3333.0	
Trial Summary	Negative
Positive Control ²	1300 ± 95.3
Positive Control ⁶	

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LEGEND

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

s: Slight Toxicity

**** END OF REPORT ****