

Experiment Number: 527349

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

**G06: Ames Summary Data**

Test Compound: **Vinyl toluene**

CAS Number: **25013-15-4**

Date Report Requested: **09/12/2018**

Time Report Requested: **18:29:44**

**NTP Study Number:**

527349

**Study Result:**

Negative

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## G06: Ames Summary Data

Test Compound: Vinyl toluene

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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>	151 ± 10.0	137 ± 7.4	214 ± 9.7	146 ± 8.1	216 ± 9.3
1.0				129 ± 5.7	
3.3		119 ± 4.7	190 ± 7.8	124 ± 4.7	216 ± 4.4
10.0	169 ± 3.2	132 ± 12.7	202 ± 10.1	130 ± 4.0	213 ± 7.1
33.0	163 ± 7.1	122 ± 3.2	227 ± 12.0	141 ± 5.8	216 ± 23.8
100.0	157 ± 25.9	132 ± 1.7	220 ± 11.7	128 ± 4.1	222 ± 3.3
333.0	165 ± 12.5	127 ± 10.1	Toxic		189 ± 8.8
1000.0	Toxic				
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			2719 ± 231.9	2265 ± 36.3	1680 ± 64.7
Positive Control <sup>3</sup>	1423 ± 77.5	1254 ± 31.9			

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	140 ± 7.5
1.0	
3.3	167 ± 7.9
10.0	170 ± 9.5
33.0	171 ± 3.2
100.0	168 ± 11.5
333.0	172 ± 6.0
1000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	2507 ± 173.1
Positive Control <sup>3</sup>	

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Test Compound: Vinyl toluene

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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>	17 ± 0.6	8 ± 1.8	19 ± 1.2	10 ± 1.2	18 ± 3.6
3.3		8 ± 0.0	25 ± 0.3	11 ± 2.0	24 ± 3.2
10.0	15 ± 2.4	8 ± 1.3	25 ± 2.1	10 ± 3.1	16 ± 2.6
33.0	19 ± 0.9	7 ± 1.0	14 ± 4.9	10 ± 2.5	20 ± 0.6
100.0	17 ± 4.0	7 ± 1.5	18 ± 4.2	11 ± 1.5	15 ± 1.2
333.0	1 ± 0.9	2 ± 0.7	29 ± 1.0	10 ± 2.3	18 ± 4.0
1000.0	0 ± 0.0				
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			278 ± 44.0	209 ± 7.0	406 ± 53.2
Positive Control <sup>3</sup>	699 ± 72.5	642 ± 9.8			

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	13 ± 0.3
3.3	9 ± 1.0
10.0	11 ± 2.0
33.0	12 ± 2.6
100.0	10 ± 1.8
333.0	12 ± 1.7
1000.0	
Trial Summary	Negative
Positive Control <sup>4</sup>	253 ± 16.7
Positive Control <sup>3</sup>	

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Test Compound: Vinyl toluene

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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>	11 ± 3.5	5 ± 1.0	15 ± 1.8	11 ± 1.3	15 ± 0.9
1.0				6 ± 0.9	
3.3		5 ± 0.3	12 ± 2.3	6 ± 0.6	11 ± 0.7
10.0	18 ± 0.3	4 ± 1.0	16 ± 0.9	8 ± 0.9	15 ± 1.5
33.0	15 ± 0.9	3 ± 0.3	12 ± 2.7	5 ± 1.3	11 ± 1.2
100.0	11 ± 2.3	4 ± 1.2	14 ± 2.3	7 ± 1.0	15 ± 1.2
333.0	2 ± 0.7	2 ± 0.3	Toxic		10 ± 2.7
1000.0	0 ± 0.0				
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			211 ± 8.8	185 ± 39.6	173 ± 10.0
Positive Control <sup>5</sup>	465 ± 44.5	253 ± 68.4			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	9 ± 2.3
1.0	
3.3	9 ± 1.2
10.0	6 ± 1.8
33.0	8 ± 1.5
100.0	6 ± 0.9
333.0	8 ± 2.0
1000.0	
Trial Summary	Negative
Positive Control <sup>4</sup>	226 ± 55.7
Positive Control <sup>5</sup>	

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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>	19 ± 1.7	13 ± 2.9	30 ± 5.7	24 ± 2.6	38 ± 3.3
3.3		9 ± 1.9	32 ± 4.9	18 ± 1.5	30 ± 5.7
10.0	16 ± 3.0	8 ± 0.0	40 ± 2.2	14 ± 0.9	45 ± 2.7
33.0	24 ± 2.4	10 ± 1.5	35 ± 3.0	10 ± 2.0	40 ± 3.0
100.0	22 ± 2.5	9 ± 1.5	36 ± 4.3	17 ± 4.0	43 ± 1.5
333.0	16 ± 1.3	8 ± 1.2	26 ± 2.8	6 ± 1.0	34 ± 4.2
1000.0	Toxic				
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			391 ± 44.1	1545 ± 112.3	553 ± 64.6
Positive Control <sup>6</sup>	182 ± 24.9	357 ± 36.5			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	17 ± 0.9
3.3	17 ± 1.2
10.0	16 ± 2.5
33.0	17 ± 3.2
100.0	12 ± 0.7
333.0	9 ± 0.9
1000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	1542 ± 45.0
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: 3.3 ug/Plate Sodium Azide
- 4: 2.0 ug/Plate 2-Aminoanthracene
- 5: 33.0 ug/Plate 9-Aminoacridine
- 6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

\*\* END OF REPORT \*\*