

Experiment Number: A46072

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: trans-1,4-Dichloro-2-butene

CAS Number: 110-57-6

Date Report Requested: 09/17/2018

Time Report Requested: 01:24:35

NTP Study Number:

A46072

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	152 ± 8.4	134 ± 6.2	148 ± 6.1	141 ± 2.3	154 ± 3.7
1.0		149 ± 4.1			
3.0		227 ± 4.4			
10.0	355 ± 22.4	312 ± 12.8	163 ± 8.4	148 ± 5.5	178 ± 3.3
33.0	611 ± 22.2	525 ± 20.7	190 ± 6.4	160 ± 7.4	191 ± 2.6
100.0	876 ± 20.6	822 ± 41.0	444 ± 24.8	344 ± 27.6	617 ± 32.6
333.0	1109 ± 21.5		669 ± 45.2	630 ± 21.4	1092 ± 17.9
1000.0	57 ± 10.4 ^s		821 ± 35.8	740 ± 30.0	1212 ± 18.0
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					687 ± 20.5
Positive Control ³	901 ± 16.9	840 ± 9.6			
Positive Control ⁴			559 ± 18.8	669 ± 27.3	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	128 ± 7.2
1.0	
3.0	157 ± 8.4
10.0	197 ± 14.4
33.0	504 ± 46.0
100.0	603 ± 14.2
333.0	993 ± 14.3
1000.0	
Trial Summary	Positive
Positive Control ²	817 ± 9.3
Positive Control ³	
Positive Control ⁴	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	18 ± 2.6	15 ± 1.2	26 ± 2.7	21 ± 1.5	29 ± 3.0
3.0		15 ± 2.4			
10.0	27 ± 7.3	24 ± 1.9	30 ± 1.3	25 ± 0.9	36 ± 7.9
33.0	42 ± 2.8	34 ± 2.9	42 ± 4.2	36 ± 8.7	42 ± 8.1
100.0	77 ± 4.4	56 ± 6.7	69 ± 3.6	64 ± 6.1	73 ± 3.5
333.0	101 ± 2.7	98 ± 6.6	135 ± 5.5	134 ± 7.0	161 ± 9.3
1000.0	8 ± 1.2 ^s		169 ± 1.8	157 ± 5.8	135 ± 5.8
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					424 ± 22.4
Positive Control ⁵	432 ± 18.4	461 ± 8.8			
Positive Control ⁴			368 ± 12.8	488 ± 21.6	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	20 ± 2.3
3.0	
10.0	27 ± 2.1
33.0	40 ± 5.0
100.0	61 ± 8.1
333.0	118 ± 8.2
1000.0	129 ± 10.7
Trial Summary	Positive
Positive Control ²	518 ± 11.1
Positive Control ⁵	
Positive Control ⁴	

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Mutagenicity**

G06: Ames Summary Data

Test Compound: **trans-1,4-Dichloro-2-butene**

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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: 2.0 ug/Plate 2-Aminoanthracene

3: 5.0 ug/Plate Sodium Azide

4: 5.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****