

Experiment Number: 746612

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: (E)-1,4-Dibromo-2-butene

CAS Number: 821-06-7

Date Report Requested: 09/17/2018

Time Report Requested: 10:11:15

NTP Study Number:

746612

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	136 ± 4.2	128 ± 2.1	175 ± 4.9	130 ± 11.5	169 ± 5.3
0.1	145 ± 4.5				
0.3	166 ± 11.5	186 ± 6.9			
1.0	254 ± 4.4	214 ± 4.3			
3.3	405 ± 22.9	338 ± 14.7	183 ± 7.2		184 ± 3.5
10.0	559 ± 18.4	458 ± 11.0	177 ± 18.5	139 ± 4.4	180 ± 7.2
20.0		460 ± 23.1			
33.0			205 ± 8.9	156 ± 11.9	186 ± 9.7
50.0				185 ± 3.1	
67.0			237 ± 41.5	252 ± 5.5	277 ± 12.3
75.0				350 ± 11.6	
100.0			149 ± 2.7 ^s		151 ± 16.5
Trial Summary	Positive	Positive	Equivocal	Positive	Equivocal
Positive Control ²	617 ± 15.5	427 ± 23.9			
Positive Control ³					620 ± 36.0
Positive Control ⁴			588 ± 35.8	649 ± 63.7	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	137 ± 5.8
0.1	
0.3	
1.0	
3.3	
10.0	149 ± 9.8
20.0	
33.0	152 ± 6.0
50.0	159 ± 6.8
67.0	211 ± 14.2
75.0	269 ± 5.2
100.0	
Trial Summary	Positive
Positive Control ²	
Positive Control ³	400 ± 7.7
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	16 ± 2.1	22 ± 1.2	25 ± 1.8	36 ± 2.1	33 ± 3.7
0.1	19 ± 2.6				
0.3	17 ± 5.4	31 ± 7.0			
1.0	23 ± 3.2	32 ± 3.9			
3.3	29 ± 1.7	46 ± 3.2	31 ± 3.2		33 ± 0.6
10.0	45 ± 4.2	68 ± 5.8	30 ± 0.6	43 ± 4.9	27 ± 2.6
20.0		50 ± 0.9			
33.0			33 ± 1.8	31 ± 1.2	32 ± 2.7
50.0				37 ± 0.9	
67.0			39 ± 3.3	43 ± 4.3	36 ± 1.8
75.0				60 ± 10.5	
100.0			32 ± 1.9 ^s		27 ± 4.0 ^s
Trial Summary	Positive	Positive	Negative	Equivocal	Negative
Positive Control ³			207 ± 9.7	182 ± 16.1	528 ± 26.2
Positive Control ⁵	305 ± 4.5	187 ± 6.1			

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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: 0.5 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****