

Experiment Number: 326323

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

G06: Ames Summary Data

Test Compound: **2-Methyl-3-butenitrile**

CAS Number: **16529-56-9**

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

Time Report Requested: **15:40:22**

NTP Study Number:

326323

Study Result:

Weakly Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	169 ± 5.9	178 ± 7.3	167 ± 6.3
100.0	157 ± 11.2	162 ± 19.8	152 ± 7.7
333.0	160 ± 15.8	180 ± 7.3	136 ± 11.1
1000.0	181 ± 8.9	159 ± 10.0	158 ± 15.8
3333.0	177 ± 10.7	127 ± 10.8	146 ± 6.0
10000.0	Toxic	28 ± 17.4 ^s	31 ± 17.9 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²		511 ± 26.3	1726 ± 68.2
Positive Control ³	380 ± 4.2		

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	20 ± 2.7	10 ± 2.6	8 ± 2.7
100.0	22 ± 5.0	11 ± 1.7	8 ± 2.1
333.0	23 ± 4.0	9 ± 2.0	9 ± 2.6
1000.0	25 ± 0.9	13 ± 2.6	7 ± 0.9
3333.0	21 ± 2.9	9 ± 2.6	9 ± 1.7
10000.0	1 ± 1.0 ^s	3 ± 1.5 ^s	5 ± 0.7
Trial Summary	Negative	Negative	Negative
Positive Control ³	343 ± 5.8		
Positive Control ⁴		165 ± 3.8	462 ± 39.2

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Strain: TA1537

Dose (ug/Plate)	Without S9
Vehicle Control ¹	5 ± 1.0
100.0	7 ± 2.9
333.0	5 ± 0.9
1000.0	9 ± 0.9
3333.0	9 ± 1.9
6666.0	5 ± 1.0 ^s
Trial Summary	Negative
Positive Control ⁵	381 ± 31.1

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CAS Number: 16529-56-9

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	151 ± 7.0	152 ± 9.3	200 ± 4.3	175 ± 9.0
100.0	181 ± 15.5	131 ± 7.4	197 ± 11.3	185 ± 2.7
333.0	191 ± 12.3	136 ± 5.9	206 ± 1.9	198 ± 8.1
1000.0	232 ± 6.4	187 ± 17.1	181 ± 31.8	184 ± 13.4
3333.0	272 ± 5.0	244 ± 5.8	209 ± 10.5	181 ± 4.5
6666.0		81 ± 40.5 ^s		
10000.0	Toxic		98 ± 32.0	58 ± 50.0 ^s
Trial Summary	Weakly Positive	Equivocal	Negative	Negative
Positive Control ⁴			809 ± 24.5	1587 ± 52.8
Positive Control ⁵	931 ± 159.6	1075 ± 37.7		

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Test Compound: 2-Methyl-3-butenitrile

CAS Number: 16529-56-9

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	19 ± 1.7	29 ± 0.3	30 ± 1.7
100.0	18 ± 0.6	38 ± 0.3	26 ± 2.3
333.0	21 ± 2.7	37 ± 6.7	30 ± 3.8
1000.0	23 ± 1.3	31 ± 2.0	29 ± 1.2
3333.0	14 ± 1.5	28 ± 6.4	26 ± 4.0
10000.0	Toxic	Toxic	0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²		216 ± 16.9	934 ± 25.6
Positive Control ⁶	1181 ± 16.8		

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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 ****