

Experiment Number: A87766

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Butene-1,4-diol

CAS Number: 110-64-5

Date Report Requested: 09/18/2018

Time Report Requested: 04:55:41

NTP Study Number:

A87766

Study Result:

Positive

Experiment Number: A87766
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: 2-Butene-1,4-diol
CAS Number: 110-64-5

Date Report Requested: 09/18/2018
Time Report Requested: 04:55:41

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	97 ± 3.8	108 ± 4.8	123 ± 5.8	99 ± 6.2
3.0				
10.0				
33.0				
100.0	88 ± 4.8	110 ± 3.2	115 ± 8.0	99 ± 2.6
333.0	121 ± 4.7	123 ± 3.8	127 ± 3.5	107 ± 5.8
1000.0	115 ± 10.0	141 ± 8.7	123 ± 5.7	109 ± 9.0
3333.0	179 ± 7.3	158 ± 3.3	117 ± 2.6	110 ± 0.9
10000.0	236 ± 5.6	226 ± 4.9	109 ± 8.1	109 ± 12.7
Trial Summary	Positive	Positive	Negative	Negative
Positive Control ²				675 ± 43.2
Positive Control ³	943 ± 19.4	891 ± 17.5		
Positive Control ⁴			569 ± 29.2	

Experiment Number: A87766
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: 2-Butene-1,4-diol
CAS Number: 110-64-5

Date Report Requested: 09/18/2018
Time Report Requested: 04:55:41

Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	15 ± 1.5	15 ± 3.2	17 ± 3.5
100.0	15 ± 3.5	18 ± 1.7	14 ± 1.9
333.0	17 ± 0.7	20 ± 3.2	15 ± 2.0
1000.0	18 ± 1.5	17 ± 3.4	22 ± 2.7
3333.0	12 ± 2.2	14 ± 1.8	18 ± 1.2
10000.0	16 ± 4.2	18 ± 3.0	16 ± 2.0
Trial Summary	Negative	Negative	Negative
Positive Control ²			499 ± 12.2
Positive Control ⁵	371 ± 27.8		
Positive Control ⁴		457 ± 21.6	

Experiment Number: A87766

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

G06: Ames Summary Data

Test Compound: **2-Butene-1,4-diol**

CAS Number: **110-64-5**

Date Report Requested: **09/18/2018**

Time Report Requested: **04:55:41**

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: Water

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

**** END OF REPORT ****