

Experiment Number: 782581

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

G06: Ames Summary Data

Test Compound: **1,2,3,4-Butanetetracarboxylic acid**

CAS Number: **1703-58-8**

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

Time Report Requested: **01:39:15**

NTP Study Number:

782581

Study Result:

Positive

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Test Compound: 1,2,3,4-Butanetetracarboxylic acid
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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	91 ± 4.4	133 ± 3.5	114 ± 7.8	160 ± 6.2	129 ± 5.7
33.0	97 ± 2.3	126 ± 10.4	136 ± 3.3	153 ± 11.8	123 ± 11.7
100.0	105 ± 7.0	128 ± 3.5	127 ± 14.8	164 ± 11.5	148 ± 6.8
333.0	116 ± 12.3	112 ± 5.2	134 ± 3.8	153 ± 8.7	140 ± 3.9
1000.0	108 ± 13.9	145 ± 8.3	119 ± 8.7	154 ± 3.2	129 ± 4.5
3333.0	144 ± 13.8	153 ± 5.0	152 ± 3.5	151 ± 1.7	132 ± 3.2
10000.0	180 ± 6.1	142 ± 6.1	320 ± 10.4	141 ± 8.0 ^s	163 ± 10.8 ^s
Trial Summary	Positive	Negative	Positive	Negative	Negative
Positive Control ²	474 ± 18.1	488 ± 22.5	549 ± 7.2		
Positive Control ³					729 ± 21.4
Positive Control ⁴				605 ± 36.5	

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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	46 ± 5.2	24 ± 2.6	17 ± 2.3	22 ± 3.2	17 ± 1.5
33.0				22 ± 2.0	
100.0	60 ± 18.1	14 ± 3.1	25 ± 3.3	29 ± 2.9	19 ± 0.9
333.0	35 ± 2.1	21 ± 4.8	24 ± 3.4	32 ± 4.0	23 ± 0.3
1000.0	59 ± 10.1	42 ± 6.8	25 ± 0.9	31 ± 4.5	24 ± 2.7
3333.0	295 ± 2.7	232 ± 10.4	29 ± 2.3	36 ± 1.2	31 ± 3.8
10000.0	1481 ± 41.6	1006 ± 4.2	55 ± 2.9 ^s	98 ± 1.8 ^s	26 ± 3.1
Trial Summary	Positive	Positive	Positive	Positive	Negative
Positive Control ³			243 ± 2.4	183 ± 4.7	463 ± 12.7
Positive Control ⁵	357 ± 9.7	289 ± 5.7			

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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: Water

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 ****