

Experiment Number: 200965

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Butyraldehyde

CAS Number: 123-72-8

Date Report Requested: 09/14/2018

Time Report Requested: 08:40:07

NTP Study Number:

200965

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	102 ± 11.2	132 ± 8.2	101 ± 6.2	129 ± 1.5	109 ± 10.7
10.0		117 ± 12.9		131 ± 5.5	
33.0	120 ± 7.5	125 ± 0.9	114 ± 2.0	127 ± 10.2	144 ± 4.2
100.0	121 ± 4.7	116 ± 7.9	114 ± 4.9	127 ± 12.3	134 ± 4.3
333.0	107 ± 4.7	110 ± 8.9	120 ± 18.8	138 ± 1.5	104 ± 10.3
1000.0	83 ± 16.6	114 ± 13.3	105 ± 8.5	114 ± 8.3	110 ± 6.5
3333.0	0 ± 0.0 ^s		52 ± 26.3 ^s		104 ± 10.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			846 ± 37.5	526 ± 26.8	1908 ± 51.0
Positive Control ³	283 ± 10.8	263 ± 10.5			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	132 ± 11.1
10.0	
33.0	115 ± 12.0
100.0	132 ± 8.9
333.0	119 ± 10.4
1000.0	120 ± 3.5
3333.0	117 ± 11.6
Trial Summary	Negative
Positive Control ²	1047 ± 58.0
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	22 ± 1.2	18 ± 1.5	8 ± 0.9	11 ± 2.1	12 ± 1.5
10.0		29 ± 1.7		8 ± 1.9	
33.0	25 ± 0.3	30 ± 1.3	8 ± 0.6	12 ± 0.9	8 ± 1.9
100.0	26 ± 2.6	28 ± 0.3	9 ± 2.8	6 ± 0.7	9 ± 3.8
333.0	25 ± 2.7	32 ± 0.9	8 ± 0.6	8 ± 1.0	6 ± 0.3
1000.0	18 ± 5.1	23 ± 2.6	8 ± 0.6	7 ± 1.5	5 ± 2.3
3333.0	0 ± 0.0 ^s		1 ± 1.3 ^s		8 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	267 ± 9.3	211 ± 3.9			
Positive Control ⁴			229 ± 4.7	126 ± 13.4	674 ± 25.4

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 0.9
10.0	
33.0	12 ± 0.0
100.0	11 ± 1.8
333.0	12 ± 1.5
1000.0	10 ± 1.5
3333.0	7 ± 1.2
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	346 ± 25.3

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	5 ± 0.9	3 ± 1.0	5 ± 0.3	6 ± 1.8	7 ± 1.7
10.0		6 ± 1.8		6 ± 1.0	
33.0	5 ± 0.9	6 ± 0.9	8 ± 0.9	5 ± 2.0	9 ± 1.5
100.0	5 ± 0.7	5 ± 0.3	7 ± 2.8	6 ± 1.3	6 ± 0.9
333.0	5 ± 1.9	7 ± 1.7	4 ± 0.9	9 ± 1.5	6 ± 0.9
1000.0	5 ± 1.5	5 ± 1.5	4 ± 0.6	5 ± 1.5	10 ± 2.3
3333.0	Toxic		0 ± 0.0 ^s		7 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			232 ± 13.0	173 ± 0.9	201 ± 15.3
Positive Control ⁵	94 ± 3.8	154 ± 9.0			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.9
10.0	
33.0	8 ± 0.6
100.0	9 ± 0.6
333.0	9 ± 1.3
1000.0	7 ± 1.5
3333.0	4 ± 0.9 ^s
Trial Summary	Negative
Positive Control ⁴	477 ± 18.8
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	15 ± 1.2	14 ± 0.9	26 ± 0.9	30 ± 1.5	29 ± 2.7
10.0		16 ± 0.7		28 ± 4.8	
33.0	23 ± 2.2	16 ± 0.7	31 ± 2.9	30 ± 1.2	27 ± 5.8
100.0	14 ± 1.5	14 ± 2.4	20 ± 2.3	28 ± 1.9	30 ± 1.2
333.0	15 ± 1.5	12 ± 3.0	30 ± 1.8	34 ± 1.5	24 ± 3.2
1000.0	13 ± 2.2	13 ± 3.0	26 ± 2.3	22 ± 4.3	24 ± 4.7
3333.0	0 ± 0.0 ^s		10 ± 9.7 ^s		28 ± 1.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1079 ± 254.5	592 ± 63.6	1881 ± 84.4
Positive Control ⁶	503 ± 22.3	494 ± 19.1			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	29 ± 5.2
10.0	
33.0	25 ± 3.3
100.0	33 ± 3.2
333.0	35 ± 1.5
1000.0	34 ± 2.5
3333.0	19 ± 7.2 ^s
Trial Summary	Negative
Positive Control ²	901 ± 51.8
Positive Control ⁶	

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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 ****