

Experiment Number: 175031

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

G06: Ames Summary Data

Test Compound: **Propionaldehyde**

CAS Number: **123-38-6**

Date Report Requested: **09/13/2018**

Time Report Requested: **14:12:09**

NTP Study Number:

175031

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	116 ± 14.8	119 ± 11.6	131 ± 1.9	112 ± 6.7	126 ± 5.0
100.0	124 ± 11.0	98 ± 15.4	117 ± 11.9	105 ± 12.7	111 ± 9.8
333.0	111 ± 12.5	90 ± 14.5	130 ± 6.5	104 ± 6.9	110 ± 10.7
1000.0	113 ± 5.9	122 ± 7.5	113 ± 7.0	99 ± 1.5	109 ± 4.2
3333.0	105 ± 3.8	106 ± 7.8	105 ± 7.2	103 ± 6.6	129 ± 7.2
10000.0	94 ± 15.5	92 ± 3.2	119 ± 15.7	92 ± 5.0	104 ± 5.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	403 ± 7.5	260 ± 14.2			
Positive Control ³			683 ± 22.3	554 ± 31.1	1818 ± 40.4

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	115 ± 11.8
100.0	99 ± 1.8
333.0	96 ± 7.0
1000.0	107 ± 4.7
3333.0	98 ± 3.9
10000.0	88 ± 16.4
Trial Summary	Negative
Positive Control ²	
Positive Control ³	1029 ± 74.8

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	29 ± 7.0	39 ± 5.8	23 ± 1.2	8 ± 2.6	8 ± 1.0
100.0	27 ± 3.8	22 ± 3.5	27 ± 0.9	12 ± 1.7	5 ± 1.3
333.0	22 ± 2.2	21 ± 4.8	20 ± 6.9	9 ± 2.7	7 ± 0.7
1000.0	20 ± 3.5	19 ± 2.7	22 ± 5.0	10 ± 1.2	6 ± 1.2
3333.0	16 ± 1.2	17 ± 4.6	20 ± 3.9	6 ± 1.2	6 ± 0.9
10000.0	14 ± 1.3	12 ± 2.2	24 ± 2.1	7 ± 1.2	5 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	311 ± 5.1	504 ± 25.7	274 ± 13.1		
Positive Control ⁴				218 ± 4.3	155 ± 9.3

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	9 ± 2.0	10 ± 2.0
100.0	6 ± 1.5	6 ± 1.7
333.0	10 ± 3.7	3 ± 0.3
1000.0	8 ± 0.7	7 ± 3.2
3333.0	6 ± 0.3	7 ± 1.5
10000.0	3 ± 0.9	5 ± 0.7
Trial Summary	Negative	Negative
Positive Control ²		
Positive Control ⁴	652 ± 46.2	489 ± 46.3

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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	4 ± 1.2	5 ± 0.9	7 ± 2.9	5 ± 1.2	5 ± 1.2
100.0	4 ± 1.2	6 ± 1.9	7 ± 1.3	7 ± 1.0	8 ± 2.2
333.0	5 ± 0.9	4 ± 1.0	9 ± 1.5	3 ± 0.7	6 ± 0.6
1000.0	5 ± 1.3	5 ± 2.1	4 ± 1.3	8 ± 3.5	7 ± 3.3
3333.0	6 ± 1.2	3 ± 0.3	8 ± 1.0	5 ± 0.7	6 ± 1.7
10000.0	3 ± 0.7	5 ± 1.5	3 ± 1.2	6 ± 0.7	6 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			197 ± 0.9	139 ± 8.0	341 ± 12.3
Positive Control ⁵	93 ± 8.2	145 ± 22.0			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 1.0
100.0	3 ± 0.3
333.0	4 ± 0.6
1000.0	4 ± 0.7
3333.0	4 ± 1.2
10000.0	5 ± 0.0
Trial Summary	Negative
Positive Control ⁴	508 ± 24.3
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	20 ± 2.6	19 ± 2.7	27 ± 3.7	23 ± 1.7	37 ± 4.6
100.0	17 ± 2.0	16 ± 1.9	25 ± 3.0	23 ± 3.7	25 ± 0.3
333.0	18 ± 0.0	17 ± 7.1	28 ± 3.4	27 ± 1.2	33 ± 4.8
1000.0	21 ± 4.0	18 ± 3.2	28 ± 2.3	24 ± 0.0	34 ± 2.4
3333.0	16 ± 2.4	13 ± 0.9	33 ± 2.3	27 ± 1.7	37 ± 4.7
10000.0	4 ± 0.6	12 ± 2.6	13 ± 3.8	23 ± 2.7	32 ± 5.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			671 ± 17.3	493 ± 23.4	1538 ± 127.0
Positive Control ⁶	673 ± 44.1	1064 ± 5.0			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	34 ± 1.3
100.0	20 ± 2.4
333.0	24 ± 2.6
1000.0	22 ± 5.5
3333.0	25 ± 0.6
10000.0	25 ± 2.7
Trial Summary	Negative
Positive Control ³	2031 ± 79.1
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: Water

2: 1.0 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****