

Experiment Number: 930477

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Benzaldehyde

CAS Number: 100-52-7

Date Report Requested: 09/17/2018

Time Report Requested: 08:07:25

NTP Study Number:

930477

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	143 ± 13.1	132 ± 16.4	148 ± 5.4	123 ± 1.9	80 ± 3.8
10.0	135 ± 11.1	127 ± 4.7	142 ± 5.8	115 ± 4.6	83 ± 4.9
33.0	130 ± 6.0	118 ± 4.7	134 ± 3.1	122 ± 3.9	116 ± 6.4
100.0	123 ± 10.0	105 ± 5.0	131 ± 1.7	115 ± 2.5	81 ± 5.6
333.0	120 ± 1.2	108 ± 6.5 ^s	132 ± 5.7	125 ± 11.4	87 ± 3.6
1000.0	120 ± 0.9 ^s	102 ± 5.6 ^s	128 ± 0.6 ^s	116 ± 11.4 ^s	81 ± 1.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					757 ± 25.5
Positive Control ³			431 ± 28.8	745 ± 6.9	
Positive Control ⁴	2226 ± 29.7	2124 ± 65.5			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	117 ± 6.0
10.0	103 ± 5.2
33.0	111 ± 2.7
100.0	96 ± 4.1
333.0	103 ± 10.1
1000.0	90 ± 3.7 ^s
Trial Summary	Negative
Positive Control ²	1044 ± 8.1
Positive Control ³	
Positive Control ⁴	

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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	32 ± 4.0	19 ± 4.4	14 ± 1.7	9 ± 0.3	10 ± 3.0
10.0	30 ± 3.9	22 ± 0.7	10 ± 1.2	9 ± 1.5	11 ± 1.3
33.0	26 ± 0.6	30 ± 4.4	8 ± 3.1	9 ± 2.2	15 ± 2.0
100.0	28 ± 3.2	18 ± 4.1	14 ± 0.6	9 ± 1.5	9 ± 0.7
333.0	24 ± 1.0	21 ± 2.0	12 ± 2.0	10 ± 0.9	8 ± 1.5
1000.0	19 ± 3.2 ^s	20 ± 2.7 ^s	15 ± 2.0 ^s	11 ± 2.6	9 ± 1.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					108 ± 7.7
Positive Control ³			47 ± 11.1	62 ± 4.4	
Positive Control ⁴	1984 ± 31.0	1886 ± 58.5			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 2.2
10.0	10 ± 3.8
33.0	9 ± 2.3
100.0	10 ± 2.9
333.0	11 ± 2.1
1000.0	11 ± 1.5
Trial Summary	Negative
Positive Control ²	97 ± 12.7
Positive Control ³	
Positive Control ⁴	

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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	16 ± 1.5	7 ± 1.7	13 ± 3.1	6 ± 0.7	12 ± 0.0
10.0	11 ± 0.6	6 ± 0.9	16 ± 4.2	7 ± 2.6	13 ± 1.2
33.0	14 ± 3.3	7 ± 0.7	16 ± 2.8	7 ± 1.3	15 ± 1.9
100.0	14 ± 2.7	7 ± 0.7	13 ± 1.7	7 ± 3.3	11 ± 2.0
333.0	13 ± 2.1	8 ± 1.9	15 ± 0.7	4 ± 0.3	14 ± 0.7
1000.0	7 ± 1.5 ^s	6 ± 1.5	15 ± 4.4	6 ± 2.0 ^s	12 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					149 ± 6.5
Positive Control ³			59 ± 5.0	62 ± 4.6	
Positive Control ⁵	765 ± 57.2	303 ± 36.3			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 0.9
10.0	7 ± 1.3
33.0	7 ± 0.9
100.0	7 ± 1.5
333.0	10 ± 0.9
1000.0	6 ± 1.9 ^s
Trial Summary	Negative
Positive Control ²	125 ± 17.0
Positive Control 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	21 ± 2.3	20 ± 1.0	37 ± 1.0	27 ± 1.5	31 ± 4.0
10.0	26 ± 0.3	23 ± 4.1	33 ± 3.7	21 ± 3.7	30 ± 3.1
33.0	28 ± 3.0	22 ± 2.3	36 ± 1.2	21 ± 2.1	33 ± 5.2
100.0	21 ± 2.2	19 ± 2.8	33 ± 3.5	30 ± 2.9	38 ± 1.5
333.0	26 ± 2.0	15 ± 1.7	29 ± 1.9	30 ± 4.0	27 ± 1.5
1000.0	26 ± 1.2	17 ± 4.8	28 ± 2.3	22 ± 3.6	27 ± 1.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1763 ± 47.0
Positive Control ³			925 ± 17.3	580 ± 13.3	
Positive Control ⁶	2228 ± 34.5	1865 ± 27.7			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	30 ± 4.0
10.0	23 ± 4.0
33.0	23 ± 3.6
100.0	22 ± 3.0
333.0	30 ± 2.1
1000.0	20 ± 2.3 ^s
Trial Summary	Negative
Positive Control ²	1032 ± 55.6
Positive Control ³	
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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****