

Experiment Number: 285062

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Benzamide

CAS Number: 55-21-0

Date Report Requested: 09/11/2018

Time Report Requested: 15:29:32

NTP Study Number:

285062

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	108 ± 7.9	113 ± 12.2	104 ± 5.8	120 ± 6.5	122 ± 9.0
100.0	110 ± 8.7	140 ± 6.3	102 ± 8.1	114 ± 7.0	117 ± 6.4
333.0	116 ± 3.1	126 ± 8.6	114 ± 14.7	120 ± 3.5	119 ± 11.7
1000.0	107 ± 17.3	128 ± 4.0	107 ± 0.9	125 ± 2.2	121 ± 10.5
3333.0	110 ± 2.7	128 ± 14.6	85 ± 4.3	107 ± 8.8	97 ± 3.0
10000.0	98 ± 3.7	114 ± 3.7	81 ± 9.3	109 ± 10.4	98 ± 8.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	517 ± 12.0	625 ± 16.8			
Positive Control ³			1538 ± 87.1	752 ± 39.9	1538 ± 87.1

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	119 ± 10.3
100.0	107 ± 1.2
333.0	105 ± 3.7
1000.0	120 ± 5.4
3333.0	97 ± 2.5
10000.0	99 ± 6.4
Trial Summary	Negative
Positive Control ²	
Positive Control ³	1999 ± 81.6

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	22 ± 2.8	23 ± 2.9	10 ± 2.0	12 ± 1.5	13 ± 2.1
100.0	23 ± 5.2	25 ± 4.2	10 ± 1.7	6 ± 1.3	8 ± 1.0
333.0	22 ± 2.4	23 ± 5.0	10 ± 1.0	10 ± 1.3	10 ± 1.0
1000.0	20 ± 2.9	26 ± 0.3	7 ± 1.7	12 ± 1.5	6 ± 1.5
3333.0	22 ± 1.5	24 ± 4.5	11 ± 3.0	12 ± 2.3	9 ± 2.5
10000.0	23 ± 2.6	28 ± 3.3	12 ± 1.3	11 ± 1.3	9 ± 1.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	550 ± 26.7	694 ± 8.6			
Positive Control ⁴			443 ± 10.9	488 ± 24.2	443 ± 10.9

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 0.3
100.0	7 ± 0.3
333.0	10 ± 0.3
1000.0	8 ± 1.8
3333.0	9 ± 0.9
10000.0	7 ± 1.2
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	859 ± 54.2

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	123 ± 8.1	129 ± 7.4	178 ± 3.8	198 ± 14.0	164 ± 6.7
100.0	144 ± 2.6	142 ± 5.0	180 ± 4.9	193 ± 4.7	163 ± 1.6
333.0	151 ± 11.7	150 ± 2.7	174 ± 10.3	185 ± 10.7	177 ± 8.3
1000.0	145 ± 4.6	147 ± 3.2	181 ± 3.2	195 ± 7.9	153 ± 7.5
3333.0	138 ± 10.7	132 ± 3.8	165 ± 7.9	184 ± 2.8	163 ± 9.3
10000.0	130 ± 8.6	111 ± 7.0	158 ± 13.6	168 ± 5.6	152 ± 5.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			1540 ± 101.9	1299 ± 23.9	1540 ± 101.9
Positive Control ⁵	1417 ± 158.9	878 ± 168.1			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	151 ± 4.1
100.0	160 ± 3.5
333.0	150 ± 6.4
1000.0	161 ± 6.3
3333.0	164 ± 6.7
10000.0	122 ± 11.9
Trial Summary	Negative
Positive Control ⁴	886 ± 11.5
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	17 ± 3.5	17 ± 1.9	25 ± 0.6	22 ± 1.2	33 ± 3.5
100.0	15 ± 0.7	15 ± 1.5	30 ± 4.2	23 ± 2.5	26 ± 0.0
333.0	15 ± 3.0	15 ± 1.5	25 ± 3.5	23 ± 2.3	29 ± 2.5
1000.0	21 ± 2.0	15 ± 2.1	23 ± 3.8	23 ± 1.2	27 ± 0.9
3333.0	14 ± 0.6	13 ± 1.5	26 ± 2.3	24 ± 1.0	29 ± 3.0
10000.0	16 ± 2.5	12 ± 0.9	23 ± 4.5	19 ± 1.8	19 ± 4.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			1194 ± 107.5	651 ± 65.6	1194 ± 107.5
Positive Control ⁶	1266 ± 101.0	1445 ± 124.7			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	24 ± 3.3
100.0	26 ± 0.3
333.0	24 ± 3.6
1000.0	25 ± 0.3
3333.0	25 ± 2.7
10000.0	23 ± 1.5
Trial Summary	Negative
Positive Control ³	1690 ± 76.7
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 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 **