

Experiment Number: 091058

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: 06:58:02

NTP Study Number:

091058

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	85 ± 3.5	70 ± 5.2	90 ± 3.8	81 ± 3.5	83 ± 2.6
100.0	73 ± 6.8	71 ± 1.5	87 ± 3.5	78 ± 3.4	85 ± 10.0
333.0	79 ± 3.7	68 ± 3.8	93 ± 7.6	81 ± 3.9	80 ± 7.9
1000.0	85 ± 5.8	67 ± 6.4	83 ± 1.5	85 ± 3.5	84 ± 0.9
3333.0	83 ± 3.5	66 ± 3.8	88 ± 3.8	74 ± 1.5	91 ± 4.2
10000.0	68 ± 1.7 ^s	57 ± 6.0 ^s	75 ± 1.5 ^s	80 ± 2.5 ^s	75 ± 1.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					310 ± 2.6
Positive Control ³	303 ± 5.6	273 ± 8.3			
Positive Control ⁴			312 ± 21.7		
Positive Control ⁵					
Positive Control ⁶				305 ± 10.7	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	92 ± 4.9
100.0	78 ± 2.7
333.0	82 ± 3.2
1000.0	66 ± 4.6
3333.0	78 ± 3.2
10000.0	56 ± 8.7
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	265 ± 9.2
Positive Control 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	12 ± 1.9	14 ± 0.9	6 ± 1.5	9 ± 0.6	11 ± 0.6
100.0	13 ± 2.1	9 ± 1.5	7 ± 0.3	9 ± 1.8	6 ± 1.3
333.0	11 ± 0.9	8 ± 1.3	7 ± 0.9	8 ± 0.7	6 ± 0.3
1000.0	16 ± 2.4	10 ± 0.7	6 ± 0.6	8 ± 1.8	6 ± 0.9
3333.0	18 ± 2.5	7 ± 0.9	7 ± 2.0	5 ± 1.5	9 ± 2.3
10000.0	10 ± 1.7 ^s	6 ± 2.7 ^s	8 ± 1.3	8 ± 1.2 ^s	9 ± 0.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					41 ± 5.5
Positive Control ³	163 ± 7.2	120 ± 6.6			
Positive Control ⁵					
Positive Control ⁶			104 ± 8.0	52 ± 1.3	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	9 ± 2.2
100.0	8 ± 0.9
333.0	10 ± 2.0
1000.0	5 ± 0.6
3333.0	8 ± 0.9
10000.0	6 ± 1.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	44 ± 2.3
Positive Control ⁶	

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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	99 ± 3.0	79 ± 0.9	126 ± 5.3	147 ± 7.4	118 ± 6.4
100.0	87 ± 8.0	77 ± 4.7	133 ± 8.8	138 ± 7.2	100 ± 3.3
333.0	97 ± 5.2	80 ± 2.6	136 ± 2.7	146 ± 6.1	119 ± 6.6
1000.0	113 ± 7.4	64 ± 8.4	126 ± 0.6	123 ± 5.2	116 ± 9.9
3333.0	90 ± 7.4	75 ± 13.3	115 ± 10.4	144 ± 3.3	99 ± 8.7
10000.0	75 ± 7.3 ^s	44 ± 2.5 ^s	98 ± 5.7 ^s	84 ± 12.7 ^s	92 ± 5.1 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					438 ± 9.8
Positive Control ⁶			549 ± 1.2		
Positive Control ⁷				321 ± 20.3	
Positive Control ⁸	240 ± 10.9	349 ± 17.0			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	115 ± 3.2
100.0	126 ± 4.8
333.0	135 ± 3.5
1000.0	117 ± 6.1
3333.0	117 ± 6.9
10000.0	88 ± 4.3 ^s
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁷	534 ± 9.4
Positive Control ⁸	

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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	18 ± 1.2	14 ± 2.0	19 ± 0.6	16 ± 3.3	20 ± 2.0
100.0	13 ± 2.1	11 ± 2.7	19 ± 2.3	16 ± 3.0	21 ± 1.8
333.0	15 ± 3.5	9 ± 0.7	27 ± 4.8	15 ± 4.4	25 ± 0.9
1000.0	16 ± 1.9	12 ± 1.2	21 ± 1.3	21 ± 2.6	23 ± 7.5
3333.0	16 ± 1.7	12 ± 2.2	18 ± 4.3	22 ± 1.2	22 ± 3.0
10000.0	13 ± 2.2 ^s	9 ± 3.0	18 ± 3.5	12 ± 1.9	21 ± 1.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁹					106 ± 10.4
Positive Control ²			116 ± 9.8		
Positive Control ¹⁰	104 ± 9.3	95 ± 14.1			
Positive Control ⁵				79 ± 9.0	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	23 ± 0.7
100.0	15 ± 3.2
333.0	16 ± 2.0
1000.0	13 ± 1.2
3333.0	18 ± 1.8
10000.0	14 ± 1.0 ^s
Trial Summary	Negative
Positive Control ⁹	
Positive Control ²	65 ± 7.3
Positive Control ¹⁰	
Positive Control ⁵	

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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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 2.5 ug/Plate 2-Aminoanthracene

8: 3.5 ug/Plate 9-Aminoacridine

9: 0.2 ug/Plate 2-Aminoanthracene

10: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****