

Experiment Number: **A99762**

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

G06: Ames Summary Data

Test Compound: **Benzoin acetate**

CAS Number: **574-06-1**

Date Report Requested: **09/15/2018**

Time Report Requested: **17:41:29**

NTP Study Number:

A99762

Study Result:

Negative

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Date Report Requested: 09/15/2018
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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	115 ± 2.9	103 ± 5.8	110 ± 4.6	116 ± 5.3	105 ± 3.3
33.0			118 ± 20.0	111 ± 7.0	100 ± 0.9
100.0	107 ± 5.5	107 ± 7.8	101 ± 6.1	116 ± 6.8	113 ± 1.8
333.0	120 ± 4.4	111 ± 6.5	98 ± 4.9	110 ± 4.6	117 ± 0.6
1000.0	116 ± 4.6	114 ± 3.1	112 ± 5.2	111 ± 6.0	107 ± 4.7
3333.0	115 ± 5.7	102 ± 3.2	21 ± 3.8 ^s	101 ± 13.6 ^s	46 ± 5.2 ^s
10000.0	82 ± 1.3 ^s	86 ± 7.2 ^s			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					486 ± 4.7
Positive Control ³			372 ± 6.4		
Positive Control ⁴	975 ± 19.2	811 ± 6.9			
Positive Control ⁵				329 ± 2.3	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	122 ± 3.8
33.0	99 ± 5.7
100.0	99 ± 5.7
333.0	109 ± 8.8
1000.0	118 ± 3.1
3333.0	74 ± 4.3 ^s
10000.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	438 ± 21.0
Positive Control ⁴	
Positive Control ⁵	

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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	8 ± 0.7	10 ± 1.2	10 ± 0.9	14 ± 2.4	11 ± 1.2
33.0			13 ± 2.8	13 ± 2.3	12 ± 0.7
100.0	9 ± 0.6	9 ± 0.0	11 ± 1.5	12 ± 1.5	10 ± 0.7
333.0	12 ± 2.5	9 ± 0.7	10 ± 2.1	12 ± 3.0	10 ± 0.9
1000.0	12 ± 2.7	10 ± 0.3	10 ± 0.9	13 ± 0.6	8 ± 1.2
3333.0	8 ± 1.0	10 ± 0.7	5 ± 0.9 ^s	2 ± 2.0 ^x	4 ± 0.9 ^s
10000.0	8 ± 2.6 ^s	7 ± 0.3			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					155 ± 19.7
Positive Control ⁴	776 ± 8.9	1116 ± 48.2			
Positive Control ⁵			126 ± 4.8		
Positive Control ⁶				150 ± 2.2	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	9 ± 0.6
33.0	11 ± 2.0
100.0	10 ± 1.5
333.0	12 ± 1.2
1000.0	10 ± 0.9
3333.0	3 ± 1.8 ^x
10000.0	
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	293 ± 7.3
Positive Control ⁶	

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Test Compound: Benzoin acetate

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	89 ± 4.4	140 ± 7.3	142 ± 8.6	164 ± 9.5	159 ± 10.5
33.0				147 ± 12.3	178 ± 4.1
100.0	104 ± 9.0		150 ± 6.8	156 ± 12.6	172 ± 14.7
333.0	90 ± 2.0	112 ± 7.2	168 ± 4.2	176 ± 8.1	174 ± 4.6
666.0		114 ± 8.6			
1000.0	144 ± 7.5	141 ± 6.6	146 ± 2.3	164 ± 7.7	151 ± 20.3
1666.0		143 ± 9.3			
3333.0	157 ± 1.5	136 ± 6.0	165 ± 9.7	77 ± 15.5 ^s	42 ± 5.5 ^s
6666.0		134 ± 9.1			
10000.0	34 ± 21.9 ^x		133 ± 5.3		
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				709 ± 10.4	
Positive Control ⁵					675 ± 14.5
Positive Control ⁷	508 ± 31.3	640 ± 50.8	487 ± 28.0		

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	146 ± 4.0	140 ± 9.1
33.0	161 ± 12.2	142 ± 8.2
100.0	157 ± 13.4	145 ± 10.6
333.0	167 ± 2.5	128 ± 8.7
666.0		
1000.0	139 ± 5.6	135 ± 3.5
1666.0		
3333.0	26 ± 1.3 ^s	54 ± 15.7 ^s
6666.0		
10000.0		
Trial Summary	Negative	Negative
Positive Control ²	718 ± 44.8	
Positive Control ³		574 ± 23.5
Positive Control ⁵		
Positive Control ⁷		

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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	21 ± 2.4	16 ± 2.1	16 ± 1.5	28 ± 4.4	17 ± 2.5
33.0			18 ± 2.1	26 ± 3.4	15 ± 2.7
100.0	21 ± 2.6	16 ± 1.8	14 ± 1.9	27 ± 1.2	15 ± 2.7
333.0	26 ± 0.9	11 ± 1.8	16 ± 1.9	23 ± 2.1	14 ± 1.2
1000.0	24 ± 0.9	13 ± 2.9	12 ± 1.2	29 ± 3.1	13 ± 3.2
3333.0	20 ± 4.1	12 ± 1.2	6 ± 1.7 ^s	14 ± 1.5 ^s	7 ± 1.0 ^s
10000.0	16 ± 4.7 ^s	10 ± 0.9 ^s			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					556 ± 13.7
Positive Control ³			512 ± 11.3		
Positive Control ⁸	460 ± 8.2	293 ± 14.0			
Positive Control ⁵				580 ± 19.8	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	24 ± 1.9
33.0	29 ± 1.7
100.0	30 ± 6.7
333.0	31 ± 0.9
1000.0	26 ± 0.9
3333.0	10 ± 3.8 ^s
10000.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	474 ± 11.5
Positive Control ⁸	
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: 1.0 ug/Plate 2-Aminoanthracene
- 3: 2.0 ug/Plate 2-Aminoanthracene
- 4: 5.0 ug/Plate Sodium Azide
- 5: 5.0 ug/Plate 2-Aminoanthracene
- 6: 10.0 ug/Plate 2-Aminoanthracene
- 7: 50.0 ug/Plate 9-Aminoacridine
- 8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity
- x: Slight Toxicity and Precipitate

** END OF REPORT **