

Experiment Number: 521477

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

G06: Ames Summary Data

Test Compound: **Benzyl salicylate**

CAS Number: **118-58-1**

Date Report Requested: **09/12/2018**

Time Report Requested: **17:39:41**

NTP Study Number:

521477

Study Result:

Negative

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Mutagenicity

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Test Compound: Benzyl salicylate

CAS Number: 118-58-1

Date Report Requested: 09/12/2018

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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	79 ± 1.2	142 ± 3.9	75 ± 6.5	83 ± 3.5	75 ± 8.4
0.3	80 ± 3.3	131 ± 14.5	82 ± 2.3		73 ± 5.5
1.0	72 ± 5.8	118 ± 8.6	78 ± 7.9		70 ± 0.9
3.3	75 ± 3.5	126 ± 11.9	75 ± 3.0	77 ± 2.6	69 ± 6.7
10.0	74 ± 3.6 ^s	95 ± 7.8 ^s	75 ± 3.9	86 ± 5.3	67 ± 5.6
20.0		Toxic			
33.0	53 ± 10.3 ^s		91 ± 5.2	104 ± 9.0	73 ± 3.8
100.0				85 ± 2.4 ^s	
333.0				Toxic	
666.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1077 ± 50.5
Positive Control ³			974 ± 51.4	711 ± 81.4	
Positive Control ⁴	2234 ± 46.1	2102 ± 18.4			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	108 ± 17.8
0.3	
1.0	
3.3	
10.0	101 ± 6.4
20.0	
33.0	108 ± 6.4
100.0	108 ± 6.4
333.0	110 ± 8.2 ^s
666.0	Toxic
Trial Summary	Negative
Positive Control ²	945 ± 21.9
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	21 ± 5.7	23 ± 0.9	11 ± 1.5	10 ± 2.3	7 ± 0.9
0.3	34 ± 3.5	19 ± 0.9	10 ± 0.9		12 ± 0.9
1.0	25 ± 2.5	17 ± 2.2	11 ± 1.5		12 ± 0.9
3.3	19 ± 5.7	19 ± 3.0	13 ± 3.5	10 ± 0.3	13 ± 1.5
10.0	22 ± 6.1	16 ± 2.8 ^s	10 ± 2.3	11 ± 2.3	9 ± 1.3
20.0		12 ± 1.5 ^s			
33.0	16 ± 2.6 ^s		11 ± 1.2	11 ± 2.4	12 ± 2.3
100.0				8 ± 2.6	
333.0				Toxic	
666.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					104 ± 15.7
Positive Control ³			70 ± 4.4	58 ± 5.6	
Positive Control ⁴	1932 ± 39.6	1415 ± 23.7			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.2
0.3	
1.0	
3.3	
10.0	13 ± 1.2
20.0	
33.0	11 ± 2.9
100.0	10 ± 1.8
333.0	5 ± 1.2
666.0	1 ± 0.3 ^s
Trial Summary	Negative
Positive Control ²	72 ± 4.7
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	7 ± 1.7	8 ± 1.5	8 ± 2.2	6 ± 0.7	8 ± 1.2
0.3	6 ± 0.9	8 ± 2.3	7 ± 1.7		9 ± 1.0
1.0	7 ± 0.3	6 ± 1.9	7 ± 1.8		9 ± 1.3
3.3	6 ± 1.5	8 ± 2.0	8 ± 1.9	11 ± 1.8	3 ± 0.7
10.0	10 ± 1.9	9 ± 0.3	9 ± 3.8	7 ± 2.2	11 ± 2.1
20.0		7 ± 0.9 ^s			
33.0	6 ± 1.2 ^s		7 ± 0.7	9 ± 3.0	8 ± 1.3
100.0				6 ± 1.9	
333.0				2 ± 0.3 ^s	
666.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					216 ± 20.6
Positive Control ³			142 ± 13.3	68 ± 12.8	
Positive Control ⁵	367 ± 33.2	740 ± 17.2			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 2.3
0.3	
1.0	
3.3	
10.0	9 ± 2.6
20.0	
33.0	9 ± 0.3
100.0	5 ± 0.9
333.0	1 ± 0.3
666.0	2 ± 0.3
Trial Summary	Negative
Positive Control ²	87 ± 4.6
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	16 ± 4.2	18 ± 1.2	28 ± 1.2	19 ± 1.0	29 ± 4.6
0.3	18 ± 1.5	17 ± 0.7	25 ± 2.3		22 ± 1.9
1.0	15 ± 0.9	20 ± 0.3	26 ± 3.2		21 ± 2.0
3.3	20 ± 1.5	18 ± 3.5	21 ± 2.0	21 ± 1.2	22 ± 3.6
10.0	19 ± 2.0	20 ± 2.7	29 ± 0.7	22 ± 3.0	22 ± 2.7
20.0		12 ± 2.4 ^s			
33.0	13 ± 2.3 ^s		28 ± 1.8	24 ± 1.2	25 ± 1.5
100.0				24 ± 1.7	
333.0				13 ± 2.1 ^s	
666.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1301 ± 53.7
Positive Control ³			784 ± 111.5	744 ± 89.7	
Positive Control ⁶	2139 ± 34.9	1894 ± 18.7			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	19 ± 2.6
0.3	
1.0	
3.3	
10.0	20 ± 0.3
20.0	
33.0	17 ± 0.7
100.0	21 ± 2.1
333.0	14 ± 0.9
666.0	13 ± 3.5 ^s
Trial Summary	Negative
Positive Control ²	1096 ± 35.6
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 ****