

Experiment Number: 023477

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Benzyl salicylate

CAS Number: 118-58-1

Date Report Requested: 09/14/2018

Time Report Requested: 13:01:04

NTP Study Number:

023477

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	171 ± 13.7	101 ± 5.4	196 ± 8.1	100 ± 7.3	210 ± 7.4
1.0	161 ± 8.9		200 ± 12.3		164 ± 7.1
3.3	143 ± 4.3	107 ± 3.7		97 ± 3.2	
10.0	154 ± 4.8	84 ± 4.7	219 ± 10.4	98 ± 10.7	185 ± 12.7
33.3	130 ± 9.7	84 ± 6.3	203 ± 16.3	100 ± 4.7	184 ± 12.2
100.0	109 ± 10.7	66 ± 1.7 ^s	226 ± 11.6	114 ± 6.9	175 ± 9.9
333.3		16 ± 6.4 ^s	168 ± 19.1	59 ± 4.5 ^s	127 ± 12.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1095 ± 10.3	317 ± 20.9	1081 ± 40.4
Positive Control ³	466 ± 0.6	439 ± 45.5			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	114 ± 6.7
1.0	
3.3	99 ± 0.7
10.0	103 ± 7.1
33.3	97 ± 4.1
100.0	89 ± 7.5
333.3	0 ± 0.0 ^s
Trial Summary	Negative
Positive Control ²	1325 ± 39.9
Positive Control ³	

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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	18 ± 2.4	12 ± 0.3	14 ± 1.5	9 ± 1.7	11 ± 1.5
1.0	21 ± 5.3		12 ± 3.3		9 ± 3.3
3.3	30 ± 3.5	9 ± 2.0		12 ± 2.0	
10.0	17 ± 1.5	11 ± 3.5	15 ± 1.8	12 ± 0.3	12 ± 3.8
33.3	24 ± 5.2	6 ± 1.2	14 ± 0.3	9 ± 2.0	10 ± 1.9
100.0	19 ± 4.0	9 ± 2.7	11 ± 2.2	7 ± 0.9	14 ± 4.3
333.3		2 ± 0.6 ^s	8 ± 1.2	6 ± 0.9	5 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	559 ± 11.7	388 ± 8.0			
Positive Control ⁴			471 ± 9.7	216 ± 5.4	439 ± 25.4

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	6 ± 0.3
1.0	
3.3	9 ± 2.0
10.0	8 ± 2.1
33.3	7 ± 0.3
100.0	8 ± 2.2
333.3	1 ± 0.6 ^s
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	325 ± 6.2

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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	12 ± 3.3	11 ± 1.8	18 ± 0.6	6 ± 0.3	14 ± 1.3
1.0	9 ± 1.5		18 ± 1.5		16 ± 2.3
3.3	10 ± 2.1	8 ± 2.1		5 ± 0.3	
10.0	12 ± 2.2	8 ± 2.0	16 ± 0.9	6 ± 3.0	20 ± 2.8
33.3	9 ± 2.0	4 ± 0.3	21 ± 2.7	5 ± 0.9	17 ± 2.2
100.0	6 ± 0.9	4 ± 1.2	16 ± 1.2	5 ± 0.3	14 ± 2.3
333.3		2 ± 0.0 ^s	9 ± 2.4	5 ± 0.6	9 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			448 ± 43.8	134 ± 7.3	543 ± 31.8
Positive Control ⁵	385 ± 161.8	383 ± 25.0			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	5 ± 0.3
1.0	
3.3	7 ± 2.0
10.0	7 ± 0.9
33.3	7 ± 0.6
100.0	4 ± 0.3
333.3	2 ± 0.3 ^s
Trial Summary	Negative
Positive Control ⁴	448 ± 14.2
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	26 ± 2.4	15 ± 1.9	43 ± 4.7	35 ± 4.1	58 ± 4.6
1.0	23 ± 2.4		37 ± 4.7		42 ± 4.2
3.3	20 ± 5.2	14 ± 1.9		35 ± 4.4	
10.0	21 ± 3.2	17 ± 2.1	42 ± 6.4	31 ± 3.5	43 ± 4.7
33.3	21 ± 1.5	13 ± 0.7	41 ± 9.8	30 ± 4.2	43 ± 6.0
100.0	22 ± 2.7	11 ± 2.0	40 ± 2.0	23 ± 1.7	38 ± 3.1
333.3		8 ± 0.7 ^s	26 ± 3.8	21 ± 3.2	27 ± 1.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			728 ± 37.3	156 ± 4.9	555 ± 18.9
Positive Control ⁶	779 ± 2.4	651 ± 14.8			

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Test Compound: Benzyl salicylate

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	23 ± 1.9
1.0	
3.3	26 ± 2.4
10.0	25 ± 2.7
33.3	24 ± 4.0
100.0	25 ± 4.2
333.3	23 ± 5.4
Trial Summary	Negative
Positive Control ²	714 ± 47.6
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 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****