

Experiment Number: 422540

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Benzyl chloride

CAS Number: 100-44-7

Date Report Requested: 09/15/2018

Time Report Requested: 05:44:15

NTP Study Number:

422540

Study Result:

Weakly Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	105 ± 3.8	108 ± 9.1	135 ± 4.2	100 ± 6.9	120 ± 9.3
3.0	102 ± 7.0	130 ± 3.7	135 ± 13.9		
10.0	121 ± 5.7			125 ± 5.5	136 ± 6.5
33.0	119 ± 3.2	133 ± 11.9	162 ± 14.8	132 ± 16.5	119 ± 12.3
66.0			167 ± 11.9		
100.0		182 ± 10.2	186 ± 7.9	150 ± 7.4	166 ± 4.1
166.0			200 ± 7.6		
333.0	41 ± 7.6 ^s	136 ± 12.9		181 ± 8.4	182 ± 2.9
666.0	Toxic				229 ± 18.9
1000.0		56 ± 28.1 ^s		145 ± 16.4	
Trial Summary	Negative	Weakly Positive	Weakly Positive	Weakly Positive	Positive
Positive Control ²		726 ± 14.5	890 ± 69.6	1367 ± 140.5	1678 ± 18.1
Positive Control ³	402 ± 3.5				

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	25 ± 4.0	7 ± 0.7	8 ± 0.7
3.0	21 ± 3.5	9 ± 2.1	
10.0	23 ± 3.2		12 ± 2.0
33.0	22 ± 3.9	8 ± 1.9	8 ± 2.8
100.0		12 ± 1.3	6 ± 3.0
333.0	5 ± 4.5 ^s	8 ± 2.4	7 ± 1.0
666.0	Toxic		
1000.0		4 ± 1.2 ^s	4 ± 0.6 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ³	421 ± 7.8		
Positive Control ⁴		180 ± 25.5	368 ± 21.7

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	5 ± 1.2	9 ± 2.0	10 ± 3.2
3.0	5 ± 1.7	6 ± 0.6	
10.0	7 ± 2.0		7 ± 0.9
33.0	5 ± 2.0	7 ± 0.9	7 ± 0.3
100.0		8 ± 2.6	8 ± 2.2
333.0	4 ± 1.0	7 ± 0.3	7 ± 2.6
666.0	Toxic		
1000.0		4 ± 1.9 ^s	8 ± 2.2
Trial Summary	Negative	Negative	Negative
Positive Control ⁴		269 ± 9.4	351 ± 16.2
Positive Control ⁵	126 ± 26.4		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	14 ± 1.0	31 ± 2.5	33 ± 3.2
3.0	26 ± 0.3	34 ± 3.8	
10.0	20 ± 1.9		27 ± 4.6
33.0	19 ± 0.3	36 ± 4.3	39 ± 2.0
100.0		35 ± 5.5	36 ± 6.3
333.0	13 ± 1.8 ^s	30 ± 3.8	31 ± 3.5
666.0	Toxic		
1000.0		21 ± 2.6 ^s	30 ± 6.0
Trial Summary	Negative	Negative	Negative
Positive Control ²		888 ± 69.7	1378 ± 81.9
Positive Control ⁶	674 ± 13.1		

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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 **