

Experiment Number: 723160

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Benzyl chloride

CAS Number: 100-44-7

Date Report Requested: 09/12/2018

Time Report Requested: 18:51:32

NTP Study Number:

723160

Study Result:

Weakly Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	91 ± 3.2	95 ± 10.4	99 ± 8.2	95 ± 6.5	111 ± 3.7
3.3	90 ± 8.8	100 ± 2.4	92 ± 6.7	97 ± 9.4	101 ± 3.1
10.0	87 ± 6.6	112 ± 2.6	93 ± 4.6	109 ± 6.8	105 ± 3.6
33.0	103 ± 6.7	98 ± 9.2	99 ± 2.4	107 ± 4.4	107 ± 4.5
100.0	118 ± 4.3	111 ± 5.0	124 ± 2.7	127 ± 2.1	146 ± 7.1
200.0	132 ± 6.4		131 ± 7.8		
333.0		41 ± 1.8 ^s		153 ± 7.1	187 ± 6.4 ^s
667.0					67 ± 7.4 ^s
1000.0					Toxic
Trial Summary	Equivocal	Negative	Equivocal	Weakly Positive	Weakly Positive
Positive Control ²					
Positive Control ³			1150 ± 47.7		
Positive Control ⁴				750 ± 30.5	828 ± 27.1
Positive Control ⁵	1171 ± 69.4	614 ± 6.0			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	85 ± 8.1	80 ± 5.8	104 ± 8.5
3.3	82 ± 4.4	87 ± 2.8	97 ± 4.8
10.0	81 ± 2.4	91 ± 1.9	85 ± 7.6
33.0	88 ± 3.5	95 ± 4.0	103 ± 3.8
100.0	99 ± 5.3	113 ± 7.1	111 ± 8.4
200.0	125 ± 6.9		
333.0		127 ± 0.9	131 ± 7.9 ^s
667.0			98 ± 4.5 ^s
1000.0			Toxic
Trial Summary	Equivocal	Equivocal	Negative
Positive Control ²	711 ± 25.1		
Positive Control ³			
Positive Control ⁴		1299 ± 44.3	1269 ± 35.6
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	22 ± 4.6	31 ± 0.3	10 ± 1.2	13 ± 0.9	9 ± 0.3
3.3	20 ± 1.7	21 ± 0.7	12 ± 2.3	9 ± 1.2	11 ± 0.6
10.0	22 ± 2.0	24 ± 3.3	13 ± 3.8	10 ± 0.6	14 ± 2.3
33.0	14 ± 3.6	22 ± 2.2	9 ± 2.1	7 ± 0.6	9 ± 1.3
100.0	17 ± 1.5	20 ± 2.7	13 ± 2.0	10 ± 0.6	8 ± 1.5
200.0	15 ± 0.7		11 ± 1.8		11 ± 3.5
333.0		16 ± 2.5 ^s		11 ± 0.6	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					102 ± 7.4
Positive Control ³			93 ± 8.4		
Positive Control ⁴				191 ± 13.5	
Positive Control ⁵	899 ± 6.6	764 ± 14.3			

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	9 ± 2.0
3.3	10 ± 0.7
10.0	8 ± 1.7
33.0	11 ± 1.0
100.0	11 ± 0.9
200.0	
333.0	11 ± 1.5
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	291 ± 9.6
Positive Control ⁵	

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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	104 ± 6.2	79 ± 1.5	118 ± 5.5	157 ± 2.4	105 ± 5.6
3.3	94 ± 2.4	91 ± 4.0	116 ± 12.0	162 ± 3.4	98 ± 1.9
10.0	87 ± 9.2	85 ± 2.0	118 ± 1.8	161 ± 4.0	97 ± 5.7
33.0	91 ± 4.0	73 ± 7.5	115 ± 6.0	161 ± 7.5	110 ± 1.8
100.0	87 ± 1.5	76 ± 2.6	126 ± 11.1	151 ± 2.2	115 ± 8.7
200.0	87 ± 3.3		138 ± 5.5		108 ± 4.2
333.0		48 ± 1.5 ^s		157 ± 1.0	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					551 ± 20.6
Positive Control ³			785 ± 60.0		
Positive Control ⁴				652 ± 24.2	
Positive Control ⁶	1034 ± 18.3	1532 ± 19.4			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	93 ± 6.4
3.3	103 ± 4.0
10.0	112 ± 5.5
33.0	123 ± 4.3
100.0	103 ± 1.3
200.0	
333.0	112 ± 2.6
Trial Summary	Equivocal
Positive Control ²	
Positive Control ³	
Positive Control ⁴	851 ± 57.7
Positive Control ⁶	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	13 ± 3.3	44 ± 0.3	19 ± 2.0	33 ± 0.9	44 ± 1.7
3.3	15 ± 4.9	44 ± 10.1	17 ± 1.9	29 ± 1.3	47 ± 7.2
10.0	14 ± 3.4	46 ± 6.7	12 ± 0.3	28 ± 2.6	53 ± 0.7
33.0	16 ± 2.3	51 ± 2.7	19 ± 3.5	25 ± 3.3	52 ± 1.2
100.0	20 ± 3.0	49 ± 1.3	19 ± 3.5	24 ± 1.8	50 ± 1.2
200.0	14 ± 1.8			31 ± 5.0	
333.0		11 ± 0.6 ^s	10 ± 2.0 ^s		37 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				896 ± 29.7	
Positive Control ⁴					710 ± 7.2
Positive Control ⁷	1603 ± 33.2	1439 ± 36.7	2698 ± 50.5		

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Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	34 ± 0.6	28 ± 3.1	41 ± 2.5	38 ± 3.2
3.3	29 ± 2.5	32 ± 2.0	43 ± 2.4	31 ± 6.0
10.0	29 ± 2.3	28 ± 2.6	47 ± 2.3	33 ± 0.9
33.0	29 ± 1.2	25 ± 4.4	41 ± 3.5	25 ± 2.6
100.0	28 ± 1.2	23 ± 3.8	51 ± 5.7	36 ± 3.2
200.0		23 ± 1.5		
333.0	40 ± 3.3		41 ± 4.5	32 ± 5.7 ^s
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²		657 ± 15.5		
Positive Control ³				
Positive Control ⁴	495 ± 3.2		1328 ± 27.3	1221 ± 33.2
Positive Control ⁷				

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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: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate Sodium Azide

6: 4.0 ug/Plate 9-Aminoacridine

7: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

** END OF REPORT **