

Experiment Number: 431373

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

G06: Ames Summary Data

Test Compound: **Benzyltrimethyl ammonium chloride**

CAS Number: 56-93-9

Date Report Requested: **09/10/2018**

Time Report Requested: **20:43:12**

NTP Study Number:

431373

Study Result:

Negative

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G06: Ames Summary Data

Test Compound: Benzyltrimethyl ammonium chloride
CAS Number: 56-93-9

Date Report Requested: 09/10/2018

Time Report Requested: 20:43:12

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	122 ± 8.2	122 ± 9.2	84 ± 6.6	147 ± 9.6	116 ± 7.0
100.0	119 ± 12.7	128 ± 3.7	105 ± 7.1	128 ± 7.1	102 ± 1.2
333.0	115 ± 6.9	118 ± 14.2	89 ± 6.9	128 ± 3.4	110 ± 3.5
1000.0	116 ± 11.7	116 ± 8.2	104 ± 8.7	136 ± 2.5	107 ± 8.1
3333.0	121 ± 9.0 ^s	122 ± 2.4	102 ± 8.7	138 ± 3.8	99 ± 3.0
10000.0	65 ± 3.7 ^s	104 ± 4.4 ^s	91 ± 7.8	113 ± 7.2 ^s	103 ± 13.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1125 ± 21.5
Positive Control ³			1883 ± 33.0		
Positive Control ⁴				702 ± 16.7	
Positive Control ⁵	1389 ± 22.6	1485 ± 4.8			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	119 ± 11.0
100.0	130 ± 4.9
333.0	115 ± 9.0
1000.0	113 ± 5.7
3333.0	135 ± 2.9 ^s
10000.0	109 ± 6.4 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	2231 ± 35.7
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	31 ± 3.0	29 ± 0.9	9 ± 1.7	12 ± 2.3	9 ± 0.9
100.0	29 ± 0.7	30 ± 1.0	10 ± 1.9	13 ± 0.0	11 ± 3.8
333.0	25 ± 0.9	26 ± 4.4	10 ± 1.5	15 ± 2.0	13 ± 2.3
1000.0	28 ± 1.5	37 ± 2.2	11 ± 0.7	11 ± 0.7	9 ± 1.2
3333.0	28 ± 3.0 ^s	27 ± 2.7	9 ± 3.8	13 ± 1.2	9 ± 0.9
10000.0	22 ± 4.8 ^s	21 ± 1.5 ^s	11 ± 1.5 ^s	11 ± 2.3	9 ± 1.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					127 ± 9.0
Positive Control ³			117 ± 5.0		
Positive Control ⁴				130 ± 13.9	
Positive Control ⁵	1051 ± 8.7	1095 ± 18.9			

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Test Compound: **Benzyltrimethyl ammonium chloride**

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Date Report Requested: 09/10/2018

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	14 ± 0.9
100.0	8 ± 1.0
333.0	12 ± 1.5
1000.0	10 ± 1.7
3333.0	12 ± 3.5
10000.0	12 ± 0.6
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	323 ± 17.8
Positive Control ⁵	

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Test Compound: Benzyltrimethyl ammonium chloride
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Date Report Requested: 09/10/2018

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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 ± 8.4	121 ± 3.5	113 ± 9.7	181 ± 5.5	140 ± 4.1
100.0	113 ± 7.0	110 ± 7.4	126 ± 12.1	181 ± 4.2	143 ± 0.3
333.0	99 ± 0.9	114 ± 3.6	124 ± 3.5	155 ± 9.2	144 ± 8.0
1000.0	112 ± 8.3	128 ± 5.5	133 ± 5.3	168 ± 11.1	139 ± 6.9
3333.0	95 ± 2.1 ^s	128 ± 2.9	129 ± 2.2	167 ± 6.4	130 ± 7.1
10000.0	92 ± 5.2 ^s	100 ± 5.6 ^s	110 ± 4.6 ^s	174 ± 12.8	131 ± 2.2 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					511 ± 17.2
Positive Control ³			763 ± 36.3		
Positive Control ⁴				691 ± 13.3	
Positive Control ⁶	1626 ± 161.0	722 ± 9.3			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	170 ± 8.8
100.0	158 ± 8.8
333.0	156 ± 1.9
1000.0	165 ± 6.1
3333.0	152 ± 6.0 ^s
10000.0	172 ± 7.8 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	1452 ± 23.1
Positive Control ⁶	

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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	19 ± 4.1	16 ± 0.6	32 ± 5.5	31 ± 5.8	39 ± 2.6
100.0	14 ± 1.5	14 ± 1.7	31 ± 1.2	29 ± 0.9	37 ± 3.4
333.0	16 ± 2.1	19 ± 4.1	30 ± 4.3	34 ± 2.6	32 ± 3.2
1000.0	17 ± 2.0	17 ± 2.4	35 ± 1.7	30 ± 5.8	36 ± 2.1
3333.0	19 ± 1.2 ^s	16 ± 1.5	38 ± 2.2	35 ± 2.2	33 ± 5.5
10000.0	14 ± 1.0 ^s	19 ± 3.5 ^s	31 ± 3.8	36 ± 1.7 ^s	34 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1205 ± 26.9
Positive Control ³			1401 ± 30.6		
Positive Control ⁴				659 ± 32.9	
Positive Control ⁷	1246 ± 69.5	1848 ± 57.8			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	35 ± 2.7
100.0	27 ± 4.4
333.0	31 ± 2.8
1000.0	34 ± 1.2
3333.0	30 ± 3.5
10000.0	28 ± 1.8
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	2210 ± 28.6
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: Water

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 ****