

Experiment Number: 524553

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides

CAS Number: 63449-41-2

Date Report Requested: 09/12/2018

Time Report Requested: 18:04:47

NTP Study Number:

524553

Study Result:

Negative

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G06: Ames Summary Data

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Test Type: Genetic Toxicology - Bacterial
MutagenicityTest Compound: Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides
CAS Number: 63449-41-2

Time Report Requested: 18:04:47

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	119 ± 1.0	128 ± 13.0	131 ± 6.7	134 ± 6.1	120 ± 7.5
0.03	113 ± 5.7	129 ± 10.7			
0.1	134 ± 4.8	123 ± 8.5			
0.3	132 ± 2.0	116 ± 7.1	133 ± 4.3	122 ± 11.7	117 ± 11.7
1.0	131 ± 10.0	110 ± 10.4	125 ± 12.0	116 ± 5.2	126 ± 3.5
3.3	69 ± 8.4 ^s	90 ± 3.1 ^s	137 ± 6.8	134 ± 3.5	116 ± 15.9
10.0			133 ± 8.5 ^s	133 ± 1.7	105 ± 0.7
33.0			107 ± 4.5 ^s	107 ± 5.5 ^s	76 ± 2.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1863 ± 22.4
Positive Control ³			1458 ± 60.7		
Positive Control ⁴				576 ± 46.1	
Positive Control ⁵	1162 ± 61.5	1440 ± 42.5			

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Test Compound: **Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides**
CAS Number: 63449-41-2

Time Report Requested: 18:04:47

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	110 ± 6.5
0.03	
0.1	
0.3	110 ± 4.2
1.0	119 ± 12.7
3.3	119 ± 9.8
10.0	97 ± 2.5
33.0	76 ± 4.2 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	1467 ± 49.4
Positive Control ⁵	

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CAS Number: 63449-41-2

Time Report Requested: 18:04:47

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	30 ± 3.9	34 ± 4.7	10 ± 2.0	19 ± 1.5	10 ± 2.0
0.03	32 ± 3.4	35 ± 3.6			
0.1	34 ± 1.5	36 ± 3.5			
0.3	28 ± 3.8	37 ± 4.8	11 ± 0.3	16 ± 3.0	13 ± 0.3
1.0	25 ± 0.7	34 ± 2.4	10 ± 0.9	13 ± 3.3	10 ± 2.5
3.3	13 ± 2.2 ^s	Toxic	13 ± 2.3	14 ± 0.9	10 ± 3.2
10.0			11 ± 0.9	10 ± 1.0	11 ± 1.0
33.0			8 ± 0.9 ^s	14 ± 3.0 ^s	7 ± 1.8 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					156 ± 6.4
Positive Control ³			136 ± 4.2		
Positive Control ⁴				134 ± 11.8	
Positive Control ⁵	1034 ± 16.8	1069 ± 45.0			

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Test Compound: **Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides**
CAS Number: 63449-41-2

Time Report Requested: 18:04:47

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	15 ± 2.6
0.03	
0.1	
0.3	14 ± 3.8
1.0	10 ± 2.1
3.3	10 ± 0.6
10.0	12 ± 3.5
33.0	8 ± 1.5 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	464 ± 13.7
Positive Control ⁵	

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CAS Number: 63449-41-2

Time Report Requested: 18:04:47

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	108 ± 3.9	102 ± 1.3	174 ± 1.5	164 ± 13.2	161 ± 3.3
0.03	134 ± 7.5	105 ± 9.3			
0.1	118 ± 9.7	106 ± 11.0			
0.3	128 ± 5.5	100 ± 3.2	185 ± 8.3	162 ± 4.7	183 ± 10.3
1.0	92 ± 4.8 ^s	91 ± 5.2	187 ± 7.3	165 ± 3.5	169 ± 4.6
3.3	32 ± 7.2 ^s	69 ± 4.4 ^s	180 ± 8.5	146 ± 8.7	175 ± 9.7
10.0			160 ± 8.2	164 ± 12.0	163 ± 4.2
33.0			112 ± 13.7 ^s	173 ± 14.8 ^s	66 ± 2.4 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					910 ± 10.3
Positive Control ³			967 ± 23.1		
Positive Control ⁴				488 ± 28.4	
Positive Control ⁶	407 ± 9.8	601 ± 27.7			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	160 ± 7.4
0.03	
0.1	
0.3	188 ± 3.6
1.0	183 ± 8.4
3.3	164 ± 4.1
10.0	170 ± 9.3
33.0	159 ± 8.5 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	924 ± 4.0
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	14 ± 0.3	14 ± 0.0	37 ± 4.3	36 ± 5.6	40 ± 2.7
0.03	17 ± 3.8	19 ± 2.0			
0.1	22 ± 2.7	19 ± 2.6			
0.3	20 ± 4.1	13 ± 2.4	28 ± 2.6	39 ± 2.7	39 ± 3.6
1.0	19 ± 2.7	16 ± 3.3	35 ± 3.8	39 ± 0.3	36 ± 3.5
3.3	20 ± 3.5 ^s	14 ± 4.1 ^s	51 ± 5.1	34 ± 2.7	43 ± 2.1
10.0			36 ± 2.9	34 ± 3.0	37 ± 1.2
33.0			34 ± 0.3 ^s	37 ± 2.7	33 ± 8.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					2008 ± 82.4
Positive Control ³			1790 ± 29.4		
Positive Control ⁴				599 ± 9.0	
Positive Control ⁷	1564 ± 27.8	1504 ± 44.2			

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CAS Number: 63449-41-2

Time Report Requested: 18:04:47

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	36 ± 2.7
0.03	
0.1	
0.3	34 ± 3.2
1.0	28 ± 2.6
3.3	30 ± 1.2
10.0	26 ± 1.7
33.0	32 ± 1.0
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	1573 ± 45.9
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 ****