

Experiment Number: 533784

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

G06: Ames Summary Data

Test Compound: **Dimethyl ditallow ammonium chloride**

CAS Number: **68783-78-8**

Date Report Requested: **09/13/2018**

Time Report Requested: **00:00:02**

NTP Study Number:

533784

Study Result:

Negative

Experiment Number: 533784

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G06: Ames Summary Data

Test Compound: Dimethyl ditallow ammonium chloride
CAS Number: 68783-78-8

Date Report Requested: 09/13/2018

Time Report Requested: 00:00:02

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	137 ± 21.2	99 ± 6.7	147 ± 12.2	137 ± 10.0	104 ± 2.9
1.0	129 ± 8.7	101 ± 1.2			
3.0	127 ± 0.7	102 ± 6.2			
10.0	132 ± 10.9	83 ± 2.7			
33.0	108 ± 9.2	89 ± 5.3	149 ± 10.0	127 ± 6.4	
66.0		78 ± 6.1 ^s	150 ± 10.0	161 ± 13.9	
100.0	101 ± 0.5 ^s		160 ± 5.8	144 ± 6.6	105 ± 7.1
333.0			161 ± 9.3	155 ± 6.2	127 ± 4.8
666.0			150 ± 7.9	142 ± 7.2	
1000.0					121 ± 1.0 ^p
3333.0					76 ± 10.4 ^x
10000.0					55 ± 7.4 ^x
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³			783 ± 42.4	601 ± 8.6	462 ± 35.7
Positive Control ⁴	421 ± 20.3	509 ± 23.8			
Positive Control ⁵					

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CAS Number: 68783-78-8

Date Report Requested: 09/13/2018

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	153 ± 2.6	146 ± 13.7	96 ± 4.7	138 ± 12.9
1.0				
3.0				
10.0				
33.0		167 ± 14.2		
66.0		173 ± 9.8		
100.0	168 ± 4.2	174 ± 1.7	107 ± 4.2	156 ± 6.1
333.0	187 ± 2.0	175 ± 3.9	110 ± 0.9	161 ± 1.7
666.0		165 ± 6.4		
1000.0	165 ± 7.2 ^P		101 ± 3.4 ^P	168 ± 4.1 ^P
3333.0	135 ± 12.5 ^P		74 ± 8.7 ^X	135 ± 11.8 ^P
10000.0	95 ± 7.8 ^P		25 ± 7.0 ^X	95 ± 15.5 ^P
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²			733 ± 23.0	
Positive Control ³		602 ± 24.1		530 ± 22.9
Positive Control ⁴				
Positive Control ⁵	496 ± 20.4			

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Test Compound: Dimethyl ditallow ammonium chloride
CAS Number: 68783-78-8

Date Report Requested: 09/13/2018

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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	19 ± 3.4	26 ± 7.3	13 ± 0.7	13 ± 0.3	11 ± 1.0
0.3		22 ± 3.0			
1.0	17 ± 0.6	30 ± 5.5			
3.0	14 ± 1.3	23 ± 3.2			
10.0	9 ± 0.9	21 ± 2.0			
33.0	5 ± 1.5 ^s	11 ± 2.6 ^s			
100.0	0 ± 0.0 ^s		11 ± 1.8	14 ± 0.7	9 ± 0.9
333.0			6 ± 0.3	11 ± 2.6	7 ± 0.9
1000.0			8 ± 0.3 ^p	9 ± 1.2 ^p	5 ± 1.3 ^p
3333.0			8 ± 2.7 ^p	10 ± 1.2 ^p	4 ± 1.9 ^p
10000.0			4 ± 0.7 ^x	6 ± 1.5 ^p	3 ± 0.3 ^x
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					200 ± 28.2
Positive Control ⁴	532 ± 45.7	416 ± 8.5			
Positive Control ⁵			129 ± 11.0		
Positive Control ⁶				142 ± 3.9	

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

G06: Ames Summary Data

Test Compound: **Dimethyl ditallow ammonium chloride**

CAS Number: **68783-78-8**

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Time Report Requested: **00:00:02**

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	14 ± 1.2
0.3	
1.0	
3.0	
10.0	
33.0	
100.0	10 ± 2.0
333.0	8 ± 1.0
1000.0	11 ± 0.3 ^p
3333.0	9 ± 0.6 ^p
10000.0	5 ± 2.0 ^p
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	370 ± 16.2
Positive Control ⁶	

Experiment Number: 533784

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Dimethyl ditallow ammonium chloride
CAS Number: 68783-78-8

Date Report Requested: 09/13/2018

Time Report Requested: 00:00:02

Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	9 ± 1.2	12 ± 1.5	11 ± 1.2
0.3	9 ± 1.0		
1.0	8 ± 1.2		
3.0	8 ± 0.7		
10.0	4 ± 0.6		
33.0	6 ± 0.9 ^s		
100.0		11 ± 2.3	11 ± 1.9
333.0		10 ± 1.7	12 ± 1.2
1000.0		15 ± 3.1 ^P	9 ± 2.0 ^P
3333.0		9 ± 2.2 ^P	7 ± 2.1 ^P
10000.0		6 ± 1.5 ^P	3 ± 0.0 ^P
Trial Summary	Negative	Negative	Negative
Positive Control ³			56 ± 3.8
Positive Control ⁵		49 ± 1.9	
Positive Control ⁷	264 ± 27.2		

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	120 ± 2.9	122 ± 18.3	151 ± 0.9	137 ± 14.9	166 ± 14.6
1.0	131 ± 16.1	149 ± 1.3			
3.0	128 ± 15.2	161 ± 4.9			
10.0	138 ± 4.0	145 ± 4.0			
33.0	114 ± 11.2	144 ± 9.8	162 ± 9.5		164 ± 17.3
66.0		45 ± 4.5 ^s			
100.0	0 ± 0.0 ^s		145 ± 3.5	171 ± 0.7	147 ± 9.3
333.0			97 ± 4.2	185 ± 8.1	148 ± 0.9
1000.0			98 ± 6.1 ^p	141 ± 7.2 ^p	165 ± 5.0 ^p
3333.0			75 ± 12.8 ^x	90 ± 12.7 ^x	85 ± 11.0 ^x
10000.0				52 ± 3.9 ^x	
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²					
Positive Control ³			607 ± 57.1	377 ± 7.9	374 ± 17.5
Positive Control ⁵					
Positive Control ⁷	756 ± 65.8	717 ± 38.8			

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Test Compound: Dimethyl ditallow ammonium chloride
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Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	160 ± 5.7	136 ± 14.4	158 ± 4.2	129 ± 14.3	128 ± 1.2
1.0					
3.0					
10.0					
33.0			153 ± 24.0	143 ± 7.7	
66.0					
100.0	209 ± 8.4	172 ± 10.9	178 ± 10.4	150 ± 10.0	158 ± 9.0
333.0	201 ± 5.5	162 ± 12.8	180 ± 9.3	153 ± 6.9	177 ± 7.0
1000.0	194 ± 6.8 ^P	190 ± 6.0 ^P	150 ± 7.6 ^P	152 ± 0.9 ^P	168 ± 13.6 ^P
3333.0	146 ± 11.2 ^P	127 ± 8.8 ^P	132 ± 10.8 ^P	22 ± 11.1 ^X	110 ± 6.1 ^X
10000.0	94 ± 5.9 ^P	88 ± 7.8 ^P			42 ± 7.9 ^X
Trial Summary	Equivocal	Equivocal	Negative	Negative	Equivocal
Positive Control ²				855 ± 114.2	612 ± 24.2
Positive Control ³					
Positive Control ⁵	308 ± 8.8	353 ± 12.0	345 ± 17.7		
Positive Control ⁷					

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	136 ± 11.2	150 ± 1.2	137 ± 5.3
1.0			
3.0			
10.0			
33.0	150 ± 5.9		143 ± 8.6
66.0			
100.0	146 ± 11.3	159 ± 4.5	149 ± 4.6
333.0	145 ± 10.7	167 ± 2.7	152 ± 7.0
1000.0	146 ± 3.8 ^P	142 ± 3.3 ^P	118 ± 8.1 ^P
3333.0	82 ± 9.5 ^X	109 ± 2.1 ^P	124 ± 13.6 ^P
10000.0		88 ± 13.0 ^P	
Trial Summary	Negative	Negative	Negative
Positive Control ²	558 ± 28.8		
Positive Control ³		497 ± 13.3	450 ± 45.3
Positive Control ⁵			
Positive Control ⁷			

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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	18 ± 1.5	17 ± 1.8	23 ± 1.7	36 ± 3.1	30 ± 2.1
1.0	16 ± 0.0	19 ± 3.7			
3.0	22 ± 4.8	17 ± 2.0			
10.0	15 ± 2.7	18 ± 2.8			
33.0	12 ± 2.6	15 ± 1.2 ^s			
66.0		13 ± 1.8 ^s			
100.0	10 ± 5.5 ^s		29 ± 2.9	37 ± 4.4	29 ± 0.9
333.0			31 ± 2.0	37 ± 2.3	26 ± 2.4
1000.0			32 ± 3.2 ^p	30 ± 2.3 ^p	34 ± 2.0 ^p
3333.0			19 ± 1.5 ^p	21 ± 0.6 ^p	16 ± 2.2 ^x
10000.0			12 ± 1.2 ^x	16 ± 1.7 ^p	8 ± 0.9 ^x
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					541 ± 30.8
Positive Control ³			326 ± 75.2	138 ± 7.6	
Positive Control ⁸	441 ± 22.0	647 ± 54.3			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	28 ± 4.5
1.0	
3.0	
10.0	
33.0	
66.0	
100.0	29 ± 1.5
333.0	25 ± 6.7
1000.0	19 ± 1.8 ^P
3333.0	16 ± 1.7 ^P
10000.0	12 ± 2.3 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	363 ± 21.5
Positive Control ⁸	

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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: Acetone

2: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

x: Slight Toxicity and Precipitate

**** END OF REPORT ****