

Experiment Number: **214672**

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

G06: Ames Summary Data

Test Compound: **tert-Dodecyl mercaptan**

CAS Number: **25103-58-6**

Date Report Requested: **09/14/2018**

Time Report Requested: **15:32:58**

NTP Study Number:

214672

Study Result:

Negative

Experiment Number: 214672

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G06: Ames Summary Data

Test Compound: tert-Dodecyl mercaptan

CAS Number: 25103-58-6

Date Report Requested: 09/14/2018

Time Report Requested: 15:32:58

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	120 ± 3.8	108 ± 4.9	112 ± 0.3	179 ± 7.8	114 ± 3.0
100.0	118 ± 2.1	108 ± 4.7	107 ± 7.3	205 ± 8.9	102 ± 5.7
333.0	113 ± 5.9	106 ± 11.8	90 ± 5.8	169 ± 1.5	106 ± 4.7
1000.0	110 ± 2.0	102 ± 2.3	82 ± 1.8	158 ± 7.3	86 ± 5.2
3333.0	112 ± 1.5 ^p	87 ± 8.0 ^p	75 ± 4.6 ^p	176 ± 6.8 ^p	71 ± 4.1 ^p
10000.0	116 ± 3.5 ^p	101 ± 8.5 ^p	82 ± 6.9 ^p	156 ± 5.5 ^p	80 ± 1.2 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					340 ± 21.0
Positive Control ³	332 ± 14.6	539 ± 36.4			
Positive Control ⁴			1225 ± 26.3		
Positive Control ⁵					
Positive Control ⁶				1287 ± 59.2	

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CAS Number: 25103-58-6

Date Report Requested: 09/14/2018

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	184 ± 4.6
100.0	185 ± 5.7
333.0	185 ± 6.9
1000.0	172 ± 6.7
3333.0	141 ± 11.0 ^p
10000.0	152 ± 16.1 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	582 ± 68.0
Positive Control ⁶	

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CAS Number: 25103-58-6

Date Report Requested: 09/14/2018

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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	15 ± 2.3	25 ± 0.3	22 ± 2.7	18 ± 2.1	17 ± 3.9
100.0	20 ± 2.5	22 ± 4.9	23 ± 0.9	22 ± 1.7	20 ± 2.4
333.0	18 ± 1.8	16 ± 0.6	19 ± 2.5	20 ± 1.5	22 ± 3.7
1000.0	13 ± 1.2	16 ± 0.9	16 ± 2.6	18 ± 1.0	21 ± 2.2
3333.0	17 ± 2.1 ^p	21 ± 2.1 ^p	19 ± 4.3 ^p	18 ± 2.2 ^p	27 ± 1.5 ^p
10000.0	15 ± 2.3 ^p	17 ± 0.9 ^p	17 ± 0.3 ^p	20 ± 4.2 ^p	19 ± 0.3 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					63 ± 3.2
Positive Control ³	226 ± 27.3	302 ± 18.9			
Positive Control ⁵					
Positive Control ⁶			187 ± 19.2	177 ± 8.2	

Experiment Number: 214672

Test Type: Genetic Toxicology - Bacterial
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G06: Ames Summary Data

Test Compound: tert-Dodecyl mercaptan

CAS Number: 25103-58-6

Date Report Requested: 09/14/2018

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	21 ± 1.8
100.0	27 ± 2.9
333.0	24 ± 0.6
1000.0	22 ± 2.3
3333.0	20 ± 0.7
10000.0	14 ± 0.9 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	96 ± 8.4
Positive Control ⁶	

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CAS Number: 25103-58-6

Date Report Requested: 09/14/2018

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	Without S9
Vehicle Control ¹	126 ± 4.1	107 ± 6.5	117 ± 5.1	111 ± 1.7	97 ± 6.9
0.1					97 ± 1.7
0.3					92 ± 9.0
1.0					95 ± 3.5
3.3			101 ± 3.2	102 ± 7.3	76 ± 6.4
10.0			96 ± 4.8	112 ± 4.6	78 ± 3.6 ^S
33.0			97 ± 8.5	83 ± 3.4 ^S	
100.0	115 ± 6.6 ^S	99 ± 4.0 ^S	96 ± 4.6 ^S	86 ± 1.2 ^S	
333.0	115 ± 7.2 ^S	91 ± 2.9 ^S	89 ± 5.3 ^S	89 ± 3.7 ^S	
1000.0	95 ± 11.1 ^S	89 ± 4.2 ^S			
3333.0	101 ± 8.2 ^S	102 ± 2.0 ^S			
10000.0	92 ± 8.1 ^S	100 ± 5.8 ^S			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁷	929 ± 19.1	696 ± 4.5	349 ± 16.4	1306 ± 73.2	568 ± 7.1
Positive Control ⁴					
Positive Control ⁶					
Positive Control ⁸					
Positive Control ⁹					

Experiment Number: 214672

Test Type: Genetic Toxicology - Bacterial
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Test Compound: tert-Dodecyl mercaptan

CAS Number: 25103-58-6

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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	75 ± 4.2	95 ± 5.1	142 ± 6.6	101 ± 5.5	198 ± 7.5
0.1	50 ± 25.0				
0.3	72 ± 3.8				
1.0	80 ± 2.4				
3.3	94 ± 4.9		136 ± 4.2		201 ± 9.5
10.0	92 ± 2.5 ^s		136 ± 2.2		169 ± 10.1
33.0			112 ± 7.9		120 ± 11.8
100.0		81 ± 5.5 ^s	114 ± 7.6	100 ± 6.2	135 ± 8.1
333.0		81 ± 4.5 ^s	99 ± 5.5	91 ± 10.0	116 ± 3.8
1000.0		85 ± 3.4 ^s		94 ± 7.8	
3333.0		77 ± 1.5 ^s		93 ± 4.4 ^p	
10000.0		77 ± 0.7 ^s		85 ± 10.3 ^p	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁷	280 ± 11.6				
Positive Control ⁴					
Positive Control ⁶		2801 ± 54.4	3022 ± 14.4		
Positive Control ⁸				941 ± 30.5	1916 ± 57.7
Positive Control ⁹					

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	109 ± 4.1	129 ± 8.0	123 ± 7.6	97 ± 2.6	109 ± 8.8
0.1					
0.3				91 ± 2.9	
1.0				81 ± 6.7	
3.3			119 ± 12.2	89 ± 7.0	
10.0			122 ± 11.8	96 ± 11.3	
33.0			110 ± 8.7 ^s	100 ± 6.4 ^s	
100.0	91 ± 6.8 ^s	129 ± 1.5 ^s	103 ± 7.4 ^s		122 ± 5.0
333.0	92 ± 1.0 ^s	120 ± 4.7 ^s	98 ± 8.4 ^s		105 ± 10.0
1000.0	82 ± 2.5 ^s	104 ± 6.1 ^s			78 ± 2.6
3333.0	81 ± 5.4 ^s	112 ± 2.7 ^s			77 ± 1.7
10000.0	89 ± 5.8 ^s	115 ± 7.2 ^s			81 ± 4.5 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁷					
Positive Control ⁴	490 ± 2.7	1347 ± 32.8	1255 ± 9.8	567 ± 18.9	
Positive Control ⁶					
Positive Control ⁸					974 ± 53.2
Positive Control ⁹					

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	133 ± 8.3
0.1	
0.3	
1.0	
3.3	140 ± 6.1
10.0	129 ± 4.4
33.0	145 ± 2.7
100.0	127 ± 5.0
333.0	124 ± 8.4
1000.0	
3333.0	
10000.0	
Trial Summary	Negative
Positive Control ⁷	
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁸	2143 ± 23.1
Positive Control ⁹	

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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	28 ± 2.3	26 ± 1.5	39 ± 1.9	40 ± 8.7	48 ± 2.6
100.0	26 ± 3.0	29 ± 3.2	43 ± 3.0	49 ± 1.8	46 ± 1.5
333.0	27 ± 2.3	29 ± 3.5	36 ± 4.7	49 ± 2.3	43 ± 4.6
1000.0	24 ± 2.1	28 ± 2.4	36 ± 3.0	42 ± 1.5	32 ± 5.4
3333.0	28 ± 1.0 ^p	30 ± 7.6 ^p	40 ± 7.0 ^p	36 ± 1.2 ^p	41 ± 1.8 ^p
10000.0	23 ± 2.3 ^p	30 ± 2.7 ^p	28 ± 1.2 ^p	32 ± 5.6 ^p	37 ± 2.2 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			301 ± 21.8		269 ± 6.2
Positive Control ¹⁰	401 ± 15.5	385 ± 24.8			
Positive Control ⁵				367 ± 20.2	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	28 ± 2.3
100.0	34 ± 5.8
333.0	39 ± 1.7
1000.0	28 ± 2.0
3333.0	30 ± 2.2
10000.0	30 ± 3.2 ^p
Trial Summary	Negative
Positive Control ²	74 ± 2.7
Positive Control ¹⁰	
Positive Control ⁵	

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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: 100% Ethanol

2: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 0.05 ug/Plate Solvent

8: 2.5 ug/Plate 2-Aminoanthracene

9: 24.0 ug/Plate 9-Aminoacridine

10: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****