

Experiment Number: 446807

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Perchloromethyl mercaptan

CAS Number: 594-42-3

Date Report Requested: 09/11/2018

Time Report Requested: 03:13:46

NTP Study Number:

446807

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9
Vehicle Control ¹	102 ± 4.9	105 ± 17.3	96 ± 2.9	120 ± 17.4	120 ± 3.5
0.3	103 ± 12.1	122 ± 7.4	94 ± 3.7		
1.0	205 ± 6.9	99 ± 10.5	141 ± 4.4	116 ± 13.2	110 ± 6.7
1.6			147 ± 2.2		
3.0	269 ± 6.9	373 ± 6.5	260 ± 6.9	155 ± 3.8	143 ± 17.4
6.0		316 ± 5.9	412 ± 26.9		
10.0	773 ± 40.3	752 ± 33.8	515 ± 51.9	230 ± 10.5	187 ± 3.4
33.0	1017 ± 31.7			294 ± 7.3	246 ± 11.0
100.0				337 ± 68.0	331 ± 21.1
333.0				595 ± 46.5	636 ± 33.9
666.0					
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²				759 ± 47.6	432 ± 15.6
Positive Control ³					
Positive Control ⁴	1193 ± 64.6	514 ± 23.8	801 ± 20.9		

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	130 ± 2.6	145 ± 7.6	135 ± 5.8	102 ± 4.9	129 ± 9.3
0.3					
1.0	133 ± 5.0	145 ± 5.3	143 ± 2.6	147 ± 9.2	135 ± 8.4
1.6					
3.0		173 ± 6.9	132 ± 8.3		121 ± 2.5
6.0					
10.0	152 ± 27.5	172 ± 10.2	143 ± 4.4	169 ± 8.2	138 ± 8.7
33.0		219 ± 3.0	182 ± 4.0		195 ± 9.5
100.0	344 ± 36.9	211 ± 21.7	256 ± 13.5	333 ± 9.0	191 ± 11.0
333.0	291 ± 19.7	236 ± 18.4	311 ± 13.3	220 ± 20.8	286 ± 35.6
666.0	220 ± 28.6			261 ± 2.0	447 ± 18.0
Trial Summary	Positive	Weakly Positive	Positive	Positive	Positive
Positive Control ²				727 ± 5.0	756 ± 25.9
Positive Control ³	351 ± 5.5	419 ± 15.0	497 ± 35.6		
Positive Control ⁴					

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	18 ± 1.7	23 ± 3.8	17 ± 1.9	30 ± 5.0	21 ± 1.8
0.3	16 ± 1.8	27 ± 3.5	17 ± 2.0		
1.0	35 ± 7.0		25 ± 1.9	39 ± 5.9	
3.0	32 ± 10.1	71 ± 3.4	36 ± 2.3		
6.0			65 ± 2.3		
10.0	83 ± 2.8	118 ± 5.2	94 ± 10.9	36 ± 4.1	24 ± 2.6
16.0			114 ± 7.4		
33.0	107 ± 10.6	78 ± 7.5			31 ± 2.5
100.0		43 ± 3.8		78 ± 7.4	38 ± 4.1
166.0		2 ± 1.3 ^s			
333.0				79 ± 3.5	60 ± 3.2
666.0				85 ± 5.5	
1000.0					59 ± 3.8
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²				133 ± 7.8	89 ± 8.1
Positive Control ⁵	673 ± 15.1	529 ± 5.6	507 ± 12.5		

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	26 ± 0.9	25 ± 1.9
0.3		
1.0	26 ± 6.2	
3.0		
6.0		
10.0	30 ± 3.5	24 ± 0.3
16.0		
33.0		51 ± 3.2
100.0	58 ± 2.8	54 ± 10.9
166.0		
333.0	72 ± 2.0	113 ± 10.8
666.0	61 ± 0.9	
1000.0		108 ± 4.8
Trial Summary	Positive	Positive
Positive Control ²	458 ± 21.4	481 ± 50.2
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: Water

2: 1.0 ug/Plate 2-Aminoanthracene

3: 2.5 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****