

Experiment Number: 643495

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Chloropicrin

CAS Number: 76-06-2

Date Report Requested: 09/11/2018

Time Report Requested: 04:55:16

NTP Study Number:

643495

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	105 ± 5.6	130 ± 5.8	137 ± 4.7	109 ± 9.0	140 ± 8.9
1.0	101 ± 0.7	133 ± 5.5		121 ± 2.9	
3.3	97 ± 1.2	164 ± 4.2		169 ± 5.1	
10.0	98 ± 9.5	163 ± 3.3		183 ± 7.2	
16.0			371 ± 7.4		359 ± 31.7
33.0	98 ± 20.2	336 ± 11.6	408 ± 26.8	302 ± 8.3	425 ± 19.4
67.0			331 ± 26.1		485 ± 43.3
100.0	97 ± 6.7	339 ± 17.6	301 ± 57.0	259 ± 13.2	266 ± 74.5
167.0			Toxic		Toxic
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ²		1482 ± 34.5	2360 ± 54.4	1729 ± 167.9	2971 ± 278.5
Positive Control ³	271 ± 37.0				

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	4 ± 0.7	5 ± 1.2	3 ± 1.2	14 ± 1.8	5 ± 0.7
1.0	7 ± 1.5		5 ± 1.2		5 ± 0.3
3.3	6 ± 0.9		7 ± 1.5		6 ± 1.2
10.0	3 ± 0.6		11 ± 3.4		6 ± 0.3
16.0		6 ± 1.5		14 ± 0.3	
33.0	3 ± 1.2	5 ± 1.2	18 ± 4.3	19 ± 1.3	9 ± 0.6
67.0		4 ± 0.0		20 ± 1.5	
100.0	8 ± 1.5	6 ± 1.0	10 ± 3.1	28 ± 9.0	2 ± 0.0
167.0		6 ± 1.8		34 ± 0.9	
Trial Summary	Negative	Negative	Equivocal	Positive	Negative
Positive Control ²			32 ± 9.0	36 ± 2.3	65 ± 3.5
Positive Control ³	138 ± 24.3	75 ± 7.5			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	12 ± 1.2
1.0	
3.3	
10.0	
16.0	14 ± 0.6
33.0	15 ± 3.0
67.0	16 ± 2.3
100.0	29 ± 5.5
167.0	Toxic
Trial Summary	Equivocal
Positive Control ²	41 ± 6.5
Positive Control ³	

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Chloropicrin

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	3 ± 0.6	7 ± 1.5	7 ± 0.3	6 ± 0.9	5 ± 1.0
1.0	3 ± 0.9	10 ± 1.5		6 ± 1.5	
3.3	5 ± 0.3	6 ± 0.9		8 ± 0.3	
10.0	3 ± 0.6	8 ± 1.5		7 ± 0.3	
16.0			8 ± 1.2		7 ± 0.6
33.0	1 ± 0.6	13 ± 2.0	9 ± 1.8	12 ± 1.8	8 ± 1.2
67.0			10 ± 0.6		7 ± 0.7
100.0	5 ± 0.9	8 ± 1.5	Toxic	5 ± 1.2	6 ± 1.5
167.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²		57 ± 21.4	161 ± 6.9	100 ± 2.0	128 ± 24.0
Positive Control ⁴	67 ± 4.5				

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Chloropicrin

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	11 ± 1.5	20 ± 2.7	20 ± 3.8	22 ± 2.9	21 ± 0.7
1.0	11 ± 1.9	25 ± 2.8		19 ± 4.2	
3.3	12 ± 2.2	19 ± 1.8		26 ± 2.3	
10.0	13 ± 2.0	27 ± 4.7		25 ± 2.3	
16.0			43 ± 4.9		65 ± 6.1
33.0	10 ± 2.6	53 ± 7.2	63 ± 5.2	55 ± 13.1	60 ± 8.9
67.0			72 ± 2.1		69 ± 3.3
100.0	14 ± 2.9	61 ± 5.9	58 ± 4.5	85 ± 10.3	57 ± 14.2
167.0			Toxic		Toxic
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ²		1172 ± 229.5	1180 ± 88.9	1720 ± 178.7	1947 ± 79.6
Positive Control ⁵	157 ± 12.5				

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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: Dimethyl Sulfoxide

2: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****