

Experiment Number: 193869

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Chloro-6-(trichloromethyl)pyridine

CAS Number: 1929-82-4

Date Report Requested: 09/14/2018

Time Report Requested: 02:22:18

NTP Study Number:

193869

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	130 ± 4.7	89 ± 5.0	92 ± 3.8	157 ± 9.6	97 ± 7.8
3.0	133 ± 4.3			155 ± 10.7	
10.0	131 ± 7.8	84 ± 9.5		153 ± 5.7	
16.0		88 ± 4.5			
33.0	167 ± 8.1	94 ± 3.3	101 ± 7.2	183 ± 15.9	84 ± 2.9
66.0		103 ± 5.5			
100.0	81 ± 10.5	52 ± 4.6 ^s	103 ± 9.7	201 ± 6.1	103 ± 2.0
166.0			133 ± 12.8		121 ± 4.2
333.0	0 ± 0.0 ^s		148 ± 3.8	0 ± 0.0 ^s	159 ± 8.4
666.0			84 ± 41.8 ^s		176 ± 7.0 ^s
Trial Summary	Equivocal	Negative	Equivocal	Equivocal	Positive
Positive Control ²				755 ± 51.6	
Positive Control ³	237 ± 8.1	215 ± 9.8			

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	109 ± 2.6	114 ± 7.1	85 ± 4.7	144 ± 1.2	86 ± 4.0
3.0				148 ± 3.1	
10.0		118 ± 10.8		175 ± 14.1	
16.0					
33.0	93 ± 4.6	124 ± 6.4	99 ± 2.0	181 ± 16.5	115 ± 5.5
66.0					
100.0	106 ± 5.3	128 ± 1.5	126 ± 6.1	215 ± 11.6	120 ± 4.5
166.0	107 ± 1.3		148 ± 7.0		138 ± 2.3
333.0	127 ± 6.4	173 ± 5.0	153 ± 11.3	0 ± 0.0 ^s	152 ± 9.2
666.0	185 ± 8.2	205 ± 14.7	119 ± 23.6 ^s		171 ± 7.2
Trial Summary	Weakly Positive	Positive	Weakly Positive	Equivocal	Positive
Positive Control ²	292 ± 9.2	267 ± 17.3		1355 ± 47.8	
Positive Control ³					

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	90 ± 1.9	100 ± 1.5
3.0		
10.0		117 ± 7.2
16.0		
33.0	84 ± 6.6	116 ± 3.5
66.0		
100.0	135 ± 11.0	152 ± 8.5
166.0	134 ± 9.3	
333.0	189 ± 9.1	208 ± 8.3
666.0	240 ± 15.0	245 ± 13.9
Trial Summary	Positive	Positive
Positive Control ²	245 ± 18.7	696 ± 12.5
Positive Control ³		

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	20 ± 2.6	10 ± 1.2	3 ± 0.3
3.0	12 ± 2.0	13 ± 0.0	5 ± 2.3
10.0	14 ± 4.2	10 ± 1.2	8 ± 2.1
33.0	9 ± 1.8	7 ± 2.3	6 ± 0.6
100.0	3 ± 1.5	9 ± 2.9	5 ± 0.9
333.0	0 ± 0.0 ^s	0 ± 0.0 ^s	0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ³	167 ± 8.8		
Positive Control ⁴		208 ± 12.6	347 ± 37.3

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	102 ± 10.5	177 ± 11.7	120 ± 7.8	181 ± 9.8	119 ± 9.9
3.0	108 ± 2.9	208 ± 13.9			
10.0	126 ± 6.1	187 ± 13.7	119 ± 9.4	186 ± 4.6	127 ± 7.1
33.0	150 ± 2.7	248 ± 1.5	123 ± 3.5	186 ± 4.0	155 ± 4.7
100.0	138 ± 8.1	186 ± 15.9	189 ± 4.7	203 ± 14.0	210 ± 7.4
333.0	Toxic	Toxic	197 ± 9.8	237 ± 9.5	233 ± 6.1
666.0				255 ± 8.0	
1000.0			0 ± 0.0 ^s		0 ± 0.0 ^s
Trial Summary	Equivocal	Equivocal	Weakly Positive	Weakly Positive	Positive
Positive Control ⁴			414 ± 35.4	647 ± 20.5	923 ± 83.6
Positive Control ⁵	860 ± 76.5	1405 ± 65.0			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	195 ± 7.2
3.0	
10.0	220 ± 15.0
33.0	248 ± 7.9
100.0	262 ± 15.3
333.0	332 ± 0.9
666.0	360 ± 2.1
1000.0	
Trial Summary	Positive
Positive Control ⁴	965 ± 38.5
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	15 ± 5.2	17 ± 5.2	27 ± 3.8	24 ± 2.3	23 ± 2.2
3.0	18 ± 1.7			23 ± 4.6	
10.0	20 ± 3.8	13 ± 2.7		25 ± 3.5	
16.0		11 ± 3.2			
33.0	22 ± 3.5	18 ± 3.8	18 ± 1.5	21 ± 1.8	26 ± 3.0
66.0		17 ± 0.9			
100.0	23 ± 3.9	25 ± 3.6 ^s	29 ± 2.8	38 ± 3.6	30 ± 0.6
166.0			38 ± 5.5		32 ± 2.6
333.0	0 ± 0.0 ^s		46 ± 2.9	0 ± 0.0 ^s	30 ± 6.4
666.0			25 ± 16.1 ^s		54 ± 5.9
Trial Summary	Equivocal	Negative	Negative	Equivocal	Equivocal
Positive Control ²				426 ± 28.3	
Positive Control ⁶	499 ± 20.7	550 ± 19.7			

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Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	20 ± 4.2	17 ± 1.9	28 ± 2.1	22 ± 4.7	25 ± 3.8
3.0				28 ± 3.7	
10.0		29 ± 2.5		26 ± 2.9	
16.0					
33.0	21 ± 3.5	23 ± 4.1	27 ± 1.5	46 ± 4.3	26 ± 4.3
66.0					
100.0	18 ± 0.6	27 ± 1.3	43 ± 2.9	45 ± 12.8	40 ± 5.5
166.0	22 ± 3.5		43 ± 3.5		34 ± 3.5
333.0	29 ± 1.3	47 ± 2.7	42 ± 6.9	0 ± 0.0 ^s	46 ± 3.9
666.0	55 ± 6.2	45 ± 1.3	54 ± 9.3 ^s		51 ± 5.8
Trial Summary	Equivocal	Positive	Weakly Positive	Equivocal	Positive
Positive Control ²	221 ± 21.7	134 ± 11.4		764 ± 72.1	
Positive Control ⁶					

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	14 ± 1.2	21 ± 3.0
3.0		
10.0		22 ± 5.0
16.0		
33.0	26 ± 7.2	20 ± 2.2
66.0		
100.0	39 ± 0.9	44 ± 7.5
166.0	37 ± 2.7	
333.0	58 ± 4.3	70 ± 3.8
666.0	75 ± 6.7	73 ± 6.1
Trial Summary	Positive	Positive
Positive Control ²	146 ± 8.9	376 ± 15.1
Positive Control ⁶		

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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: 1.0 ug/Plate Sodium Azide
- 4: 2.5 ug/Plate 2-Aminoanthracene
- 5: 50.0 ug/Plate 9-Aminoacridine
- 6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

**** END OF REPORT ****