

Experiment Number: 379240

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Potassium dichromate

CAS Number: 7778-50-9

Date Report Requested: 09/14/2018

Time Report Requested: 03:46:57

NTP Study Number:

379240

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	120 ± 11.0	175 ± 4.0	149 ± 4.9	127 ± 4.0	194 ± 15.1
0.3	111 ± 1.5	170 ± 2.6			
1.0	120 ± 3.7	183 ± 10.0			
3.3	136 ± 2.4	186 ± 3.2	185 ± 6.8	149 ± 2.4	
5.0			189 ± 3.1		
7.5			251 ± 3.2		
10.0	245 ± 5.5	280 ± 11.7	284 ± 11.7	122 ± 6.7	184 ± 2.4
12.5			374 ± 13.5		
33.0	65 ± 7.8 ^s	99 ± 11.5 ^s		140 ± 6.6	192 ± 2.2
100.0				134 ± 4.7	200 ± 2.0
150.0					193 ± 9.1
175.0					
200.0				245 ± 15.1	257 ± 11.3
225.0					
250.0					
Trial Summary	Equivocal	Equivocal	Positive	Equivocal	Equivocal
Positive Control ²	403 ± 6.9	407 ± 11.3	512 ± 15.2		
Positive Control ³					
Positive Control ⁴				1278 ± 76.3	1364 ± 26.2

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	130 ± 10.8	121 ± 17.2	182 ± 4.6	120 ± 2.1
0.3				
1.0				
3.3		127 ± 8.0		
5.0				
7.5				
10.0		124 ± 21.8	178 ± 7.2	
12.5				
33.0	104 ± 6.4	131 ± 4.0	174 ± 11.7	117 ± 6.7
100.0	111 ± 7.5	123 ± 10.5	185 ± 1.5	
150.0	148 ± 15.6		386 ± 7.0	681 ± 83.0
175.0				1204 ± 42.5
200.0	418 ± 20.0	622 ± 25.0	1141 ± 14.1	1230 ± 54.9
225.0				1212 ± 23.7
250.0	1021 ± 47.9			
Trial Summary	Positive	Equivocal	Positive	Positive
Positive Control ²				
Positive Control ³		725 ± 2.6	927 ± 10.5	677 ± 35.4
Positive Control ⁴	2288 ± 23.3			

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Strain: TA97

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	116 ± 3.4	156 ± 11.1	211 ± 4.7
3.3	177 ± 3.6		
5.0	195 ± 13.7		
7.5	233 ± 10.7		
10.0	277 ± 13.4		
12.5	389 ± 24.9		
33.0		167 ± 15.2	207 ± 7.4
100.0		161 ± 4.6	
150.0		187 ± 31.0	577 ± 26.6
175.0			945 ± 38.1
200.0		416 ± 11.2	760 ± 15.0
225.0			574 ± 39.4
250.0		867 ± 38.7	
Trial Summary	Positive	Positive	Positive
Positive Control ⁵		1120 ± 70.9	1287 ± 57.2
Positive Control ⁶	235 ± 14.8		

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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	19 ± 1.8	19 ± 2.5	23 ± 4.3	36 ± 3.4	31 ± 4.2
0.3	15 ± 1.9	16 ± 6.0			
1.0	19 ± 3.5	27 ± 1.7	22 ± 2.8		
3.3	28 ± 0.3	30 ± 5.2	30 ± 0.7	37 ± 2.0	
5.0			35 ± 3.2		
7.5			57 ± 2.9		
10.0	72 ± 5.5	57 ± 1.5	72 ± 0.0	38 ± 3.2	
33.0	Toxic	5 ± 0.3 ^s		33 ± 2.0	27 ± 1.9
100.0				32 ± 2.6	31 ± 2.1
150.0					39 ± 3.8
200.0				66 ± 2.6	76 ± 4.7
250.0					129 ± 4.3
Trial Summary	Positive	Positive	Positive	Equivocal	Positive
Positive Control ⁷					
Positive Control ³				336 ± 25.4	537 ± 24.9
Positive Control ⁸	343 ± 17.7	349 ± 10.1	346 ± 15.3		

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	37 ± 2.3	29 ± 1.2
0.3		
1.0		
3.3	41 ± 4.7	
5.0		
7.5		
10.0	36 ± 1.2	32 ± 2.0
33.0	38 ± 3.1	30 ± 2.6
100.0	40 ± 3.2	34 ± 3.3
150.0		81 ± 2.7
200.0	163 ± 5.5	102 ± 3.2
250.0		
Trial Summary	Equivocal	Positive
Positive Control ⁷	156 ± 9.5	246 ± 14.3
Positive Control ³		
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: Water

2: 0.5 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate 2-Aminoanthracene

6: 16.0 ug/Plate 9-Aminoacridine

7: 0.4 ug/Plate 2-Aminoanthracene

8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

** END OF REPORT **