

Experiment Number: 424623

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Chromium, bis(eta(5)-2,4-cyclopentadien-1-yl)

CAS Number: 1271-24-5

Date Report Requested: 09/15/2018

Time Report Requested: 05:59:52

NTP Study Number:

424623

Study Result:

Positive

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CAS Number: 1271-24-5

Time Report Requested: 05:59:52

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	91 ± 2.6	108 ± 5.2	108 ± 10.5	100 ± 3.5	89 ± 4.8
10.0	100 ± 9.1	87 ± 1.5			
33.0	157 ± 12.9	88 ± 13.6			
100.0	202 ± 6.7	120 ± 11.2		88 ± 7.0	
166.0		172 ± 2.9			
333.0	317 ± 22.7	190 ± 6.9	128 ± 17.2	109 ± 2.9	131 ± 6.2
666.0			128 ± 8.7		
1000.0	243 ± 10.7 ^P		157 ± 14.1 ^P	134 ± 3.6 ^P	113 ± 15.1 ^P
1666.0			184 ± 14.5 ^P		
3333.0			208 ± 34.1 ^X	152 ± 3.2 ^P	133 ± 20.8 ^P
6666.0					110 ± 13.5 ^P
10000.0				283 ± 9.3 ^P	112 ± 8.1 ^P
Trial Summary	Positive	Weakly Positive	Weakly Positive	Positive	Equivocal
Positive Control ²					
Positive Control ³			274 ± 26.0	546 ± 19.7	462 ± 23.9
Positive Control ⁴	577 ± 7.0	488 ± 12.1			

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	99 ± 6.0	158 ± 10.2	144 ± 8.5	88 ± 2.2	139 ± 23.5
10.0					
33.0					
100.0				112 ± 11.3	
166.0					
333.0	122 ± 12.3	162 ± 25.2	116 ± 8.1	115 ± 9.0	180 ± 26.2
666.0		186 ± 11.9	132 ± 5.9		180 ± 11.0
1000.0	146 ± 5.0 ^p	192 ± 13.3 ^p	124 ± 14.2 ^p	137 ± 3.0 ^p	268 ± 3.8 ^p
1666.0		207 ± 14.5 ^p	137 ± 11.7 ^p		373 ± 25.3 ^p
3333.0	317 ± 28.4 ^p	155 ± 10.7 ^p	124 ± 10.7 ^x	161 ± 1.3 ^p	337 ± 13.3 ^p
6666.0	229 ± 13.9 ^x				
10000.0	23 ± 11.5 ^x			244 ± 60.6 ^p	
Trial Summary	Positive	Equivocal	Negative	Positive	Positive
Positive Control ²				976 ± 32.9	408 ± 14.0
Positive Control ³	545 ± 24.8	307 ± 10.4	207 ± 14.3		
Positive Control ⁴					

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	114 ± 3.5
10.0	
33.0	
100.0	
166.0	
333.0	130 ± 9.4
666.0	137 ± 12.7
1000.0	189 ± 8.1
1666.0	451 ± 7.2
3333.0	62 ± 19.2 ^s
6666.0	
10000.0	
Trial Summary	Positive
Positive Control ²	895 ± 49.4
Positive Control ³	
Positive Control ⁴	

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Time Report Requested: 05:59:52

Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	19 ± 0.3	6 ± 0.6	9 ± 1.8
10.0	18 ± 2.3		
33.0	17 ± 1.2		
100.0	13 ± 2.7	11 ± 1.2	9 ± 1.2
333.0	15 ± 1.5	6 ± 1.2	9 ± 0.6
1000.0	6 ± 1.2 ^p	8 ± 2.7 ^p	11 ± 0.7 ^p
3333.0		10 ± 1.5 ^p	13 ± 1.0 ^p
10000.0		7 ± 2.2 ^p	13 ± 3.2 ^p
Trial Summary	Negative	Negative	Negative
Positive Control ³			257 ± 4.0
Positive Control ⁴	565 ± 31.2		
Positive Control ⁵		176 ± 7.5	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	172 ± 8.4	133 ± 2.2	134 ± 9.1	194 ± 9.0	158 ± 8.6
10.0	172 ± 4.3	145 ± 8.4	179 ± 5.4		
33.0	209 ± 13.9	169 ± 2.5	187 ± 0.7		
100.0	221 ± 31.7	252 ± 4.4	273 ± 25.9	164 ± 20.7	
166.0		302 ± 1.5	303 ± 10.4		
333.0	267 ± 4.4	384 ± 3.5	274 ± 22.2	182 ± 9.0	149 ± 6.7
666.0					
1000.0	134 ± 8.4 ^x			150 ± 16.3 ^p	137 ± 8.1 ^p
1666.0					
3333.0				184 ± 8.1 ^p	121 ± 9.2 ^p
6666.0					137 ± 12.3 ^p
10000.0				231 ± 23.3 ^p	116 ± 12.1 ^p
Trial Summary	Weakly Positive	Positive	Positive	Negative	Negative
Positive Control ²					
Positive Control ³				372 ± 10.2	383 ± 7.8
Positive Control ⁶	1331 ± 63.0	977 ± 9.5	567 ± 42.6		

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Strain: TA97

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	123 ± 8.4	160 ± 11.5	157 ± 17.9	171 ± 14.9
10.0				
33.0				
100.0			142 ± 5.5	
166.0				
333.0	186 ± 20.5	184 ± 7.3	161 ± 5.0	202 ± 10.2
666.0		206 ± 8.4		240 ± 9.8
1000.0	190 ± 17.1 ^p	277 ± 6.0 ^p	168 ± 4.7 ^p	412 ± 13.0 ^p
1666.0		345 ± 20.2 ^p		560 ± 25.2 ^p
3333.0	595 ± 21.0 ^p	339 ± 15.4 ^p	220 ± 10.2 ^p	324 ± 14.5 ^p
6666.0	501 ± 67.0 ^p			
10000.0	409 ± 11.9 ^p		312 ± 40.4 ^p	
Trial Summary	Positive	Positive	Positive	Positive
Positive Control ²			566 ± 2.0	330 ± 11.2
Positive Control ³	378 ± 28.5	324 ± 3.5		
Positive Control ⁶				

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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	22 ± 1.0	17 ± 1.8	32 ± 2.6	20 ± 1.2	22 ± 3.2
10.0	18 ± 0.9	15 ± 1.9			
33.0	35 ± 4.3	13 ± 3.7			
100.0	68 ± 5.3	25 ± 1.3		28 ± 5.0	
166.0		31 ± 2.0			
333.0	109 ± 22.7	36 ± 4.6	39 ± 3.5	31 ± 3.7	25 ± 1.8
666.0					
1000.0	30 ± 2.6 ^x		26 ± 3.3 ^p	39 ± 3.0 ^p	27 ± 3.7 ^p
1666.0					
3333.0			47 ± 7.8 ^p	55 ± 7.4 ^p	22 ± 6.9 ^p
6666.0			40 ± 5.6 ^p		26 ± 2.7 ^p
10000.0			24 ± 12.0 ^p	57 ± 1.8 ^p	25 ± 1.5 ^p
Trial Summary	Positive	Weakly Positive	Negative	Positive	Negative
Positive Control ²					
Positive Control ³			345 ± 25.5	423 ± 24.0	326 ± 16.7
Positive Control ⁷	543 ± 15.5	529 ± 13.5			

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Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	19 ± 3.8	22 ± 1.9	32 ± 3.0	37 ± 2.8	31 ± 2.7
10.0					
33.0					
100.0					31 ± 3.8
166.0					
333.0	29 ± 3.8	28 ± 2.5	27 ± 7.8	33 ± 2.4	31 ± 4.0
666.0	24 ± 0.9	23 ± 3.8			
1000.0	31 ± 1.2 ^p	22 ± 4.0	33 ± 6.6 ^p	36 ± 2.3 ^p	42 ± 3.5 ^p
1666.0	27 ± 1.5 ^p	24 ± 3.0			
3333.0	22 ± 3.3 ^p	5 ± 2.5	22 ± 0.6 ^p	58 ± 8.1 ^p	72 ± 2.9 ^p
6666.0			23 ± 3.8 ^p	22 ± 2.6 ^x	
10000.0			0 ± 0.3 ^x	0 ± 0.0 ^x	111 ± 10.3 ^p
Trial Summary	Negative	Negative	Negative	Negative	Positive
Positive Control ²				499 ± 28.6	830 ± 53.3
Positive Control ³	274 ± 27.3	269 ± 17.3	88 ± 2.0		
Positive Control ⁷					

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	31 ± 1.8	16 ± 3.3	21 ± 2.3
10.0			
33.0			
100.0			
166.0			
333.0	31 ± 2.4	16 ± 2.0	35 ± 5.7
666.0	24 ± 3.1	17 ± 3.4	
1000.0	34 ± 3.2	27 ± 3.3	25 ± 2.0 ^P
1666.0	62 ± 3.8	18 ± 5.0	
3333.0	45 ± 4.3	0 ± 0.0	28 ± 1.9 ^P
6666.0			22 ± 0.9 ^P
10000.0			0 ± 0.0 ^X
Trial Summary	Equivocal	Negative	Negative
Positive Control ²	339 ± 15.9	588 ± 81.5	
Positive Control ³			178 ± 19.9
Positive Control ⁷			

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

x: Slight Toxicity and Precipitate

**** END OF REPORT ****