

Experiment Number: 825580

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: o-Chlorobenzalmononitrile (CS)

CAS Number: 2698-41-1

Date Report Requested: 09/15/2018

Time Report Requested: 18:45:51

NTP Study Number:

825580

Study Result:

Equivocal

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	105 ± 8.5	88 ± 0.6	133 ± 1.0	113 ± 7.6	122 ± 10.1
1.0	139 ± 4.7	138 ± 8.3			
3.0	137 ± 3.2	147 ± 9.5		138 ± 3.8	
10.0	144 ± 7.7	135 ± 8.8	119 ± 10.3	121 ± 5.9	109 ± 3.0
33.0	140 ± 11.3	148 ± 4.5	130 ± 2.8	106 ± 6.9	113 ± 2.3
100.0	120 ± 3.2	132 ± 11.0	125 ± 12.8	130 ± 6.7	115 ± 0.9
333.0			94 ± 9.1	115 ± 4.4	105 ± 8.4
1000.0			0 ± 0.0 ^s		0 ± 0.0 ^s
Trial Summary	Equivocal	Equivocal	Negative	Negative	Negative
Positive Control ²			717 ± 159.7	518 ± 13.3	1567 ± 87.1
Positive Control ³	418 ± 10.1	292 ± 25.8			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	91 ± 11.3
1.0	
3.0	128 ± 7.8
10.0	121 ± 15.8
33.0	111 ± 6.5
100.0	128 ± 8.1
333.0	127 ± 8.4
1000.0	
Trial Summary	Equivocal
Positive Control ²	1007 ± 48.7
Positive Control ³	

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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	29 ± 3.8	20 ± 4.4	9 ± 2.0	9 ± 1.7	12 ± 1.9
1.0	34 ± 3.9	33 ± 0.7			
3.0	38 ± 0.3	28 ± 3.8		12 ± 1.5	
10.0	35 ± 1.2	31 ± 4.1	15 ± 1.0	8 ± 2.2	10 ± 3.3
33.0	32 ± 3.8	29 ± 4.9	13 ± 3.2	6 ± 0.7	14 ± 0.9
100.0	30 ± 3.9	28 ± 2.0	11 ± 3.0	11 ± 3.2	12 ± 1.9
333.0			8 ± 2.3	9 ± 2.2	11 ± 2.7
1000.0			0 ± 0.0 ^s		0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	561 ± 17.6	342 ± 28.3			
Positive Control ⁴			181 ± 29.5	169 ± 11.6	484 ± 13.0

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 2.4
1.0	
3.0	9 ± 1.5
10.0	12 ± 2.4
33.0	10 ± 2.3
100.0	8 ± 2.2
333.0	9 ± 2.4
1000.0	
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	461 ± 24.5

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 0.9	3 ± 0.3	11 ± 2.1	6 ± 3.0	11 ± 1.8
1.0	5 ± 0.9	7 ± 0.9			
3.0	7 ± 2.4	4 ± 1.0		9 ± 2.0	
10.0	5 ± 1.2	4 ± 1.2	6 ± 0.9	8 ± 1.5	10 ± 2.5
33.0	6 ± 0.6	6 ± 1.2	10 ± 2.4	8 ± 2.3	5 ± 1.5
100.0	5 ± 0.6	9 ± 1.5	7 ± 2.6	6 ± 1.0	12 ± 2.0
333.0			5 ± 0.6	9 ± 1.8	7 ± 0.9
1000.0			0 ± 0.0 ^s		0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			115 ± 11.2	115 ± 12.4	410 ± 9.2
Positive Control ⁵	222 ± 69.7	124 ± 9.3			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 0.0
1.0	
3.0	13 ± 0.3
10.0	13 ± 0.3
33.0	10 ± 2.0
100.0	6 ± 1.2
333.0	7 ± 2.9
1000.0	
Trial Summary	Negative
Positive Control ⁴	162 ± 7.8
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	16 ± 2.3	15 ± 1.2	30 ± 0.9	30 ± 4.9	33 ± 4.3
1.0	18 ± 0.9	19 ± 3.2			
3.0	14 ± 1.9	21 ± 3.7		36 ± 2.0	
10.0	22 ± 2.2	21 ± 3.3	33 ± 4.0	30 ± 2.1	37 ± 2.5
33.0	15 ± 1.5	19 ± 3.5	37 ± 2.6	32 ± 4.0	35 ± 3.8
100.0	17 ± 1.7	23 ± 2.5	37 ± 1.2	32 ± 2.7	32 ± 0.0
333.0			28 ± 1.5	26 ± 3.3	27 ± 5.0
1000.0			0 ± 0.0 ^s		0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			445 ± 115.4	389 ± 47.8	1440 ± 143.0
Positive Control ⁶	845 ± 25.8	637 ± 62.7			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	31 ± 1.2
1.0	
3.0	35 ± 1.5
10.0	29 ± 5.6
33.0	34 ± 2.5
100.0	29 ± 4.4
333.0	32 ± 3.8
1000.0	
Trial Summary	Negative
Positive Control ²	990 ± 51.5
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 ****