

Experiment Number: 748073

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Cadmium oxide

CAS Number: 1306-19-0

Date Report Requested: 09/17/2018

Time Report Requested: 10:22:29

NTP Study Number:

748073

Study Result:

Negative

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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	84 ± 6.8	152 ± 10.9	111 ± 6.9	181 ± 4.0	131 ± 3.5
3.3		137 ± 2.3			
10.0		132 ± 4.2			
33.0	86 ± 5.0	137 ± 6.0	91 ± 4.4	186 ± 4.3	95 ± 0.9
100.0	87 ± 4.0	156 ± 4.7	115 ± 3.5	176 ± 11.9	80 ± 6.1
333.0	60 ± 6.9	172 ± 8.4	97 ± 4.5	182 ± 6.1	128 ± 1.2
1000.0	38 ± 1.2		80 ± 3.2	165 ± 8.7	113 ± 5.2
3333.0	22 ± 2.5		65 ± 7.4	167 ± 2.4	90 ± 5.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1356 ± 79.2	1706 ± 73.7	1648 ± 146.9
Positive Control ³	432 ± 15.9	1117 ± 50.1			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	171 ± 5.2
3.3	
10.0	
33.0	175 ± 10.3
100.0	176 ± 0.9
333.0	182 ± 11.6
1000.0	180 ± 10.1
3333.0	169 ± 7.3
Trial Summary	Negative
Positive Control ²	1813 ± 103.0
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	4 ± 1.2	21 ± 3.2	6 ± 0.6	41 ± 2.4	5 ± 1.2
3.3		24 ± 3.3		36 ± 4.7	
10.0		23 ± 2.6		37 ± 2.5	
33.0	4 ± 1.8	25 ± 1.7	5 ± 0.3	37 ± 2.5	5 ± 0.9
100.0	3 ± 0.9	23 ± 1.2	2 ± 0.9	28 ± 1.0	4 ± 1.7
333.0	2 ± 1.2	20 ± 1.9	3 ± 0.9	18 ± 2.7	2 ± 0.6
1000.0	0 ± 0.0		0 ± 0.0		0 ± 0.0
3333.0	0 ± 0.0		0 ± 0.0		0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			85 ± 4.9	214 ± 18.7	77 ± 8.1
Positive Control ³	156 ± 21.3	1161 ± 30.8			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	30 ± 1.8
3.3	36 ± 1.2
10.0	42 ± 1.5
33.0	43 ± 1.7
100.0	38 ± 4.0
333.0	22 ± 0.3
1000.0	
3333.0	
Trial Summary	Negative
Positive Control ⁴	164 ± 4.1
Positive Control ³	

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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	3 ± 0.0	15 ± 2.3	5 ± 0.6	32 ± 2.3	7 ± 1.5
3.3		13 ± 0.7		23 ± 2.4	
10.0		11 ± 2.3		18 ± 1.2	
33.0	3 ± 1.0	11 ± 2.6	4 ± 0.3	17 ± 1.5	4 ± 0.6
100.0	4 ± 0.6	11 ± 1.5	3 ± 1.2	21 ± 1.7	3 ± 1.5
333.0	3 ± 1.9	10 ± 1.2	3 ± 1.7	20 ± 2.3	2 ± 1.2
1000.0	1 ± 1.0		1 ± 1.3		0 ± 0.0
3333.0	0 ± 0.0		0 ± 0.0		0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			85 ± 12.4	529 ± 28.2	72 ± 10.7
Positive Control ⁵	216 ± 38.7	322 ± 80.9			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	31 ± 3.3
3.3	35 ± 3.0
10.0	35 ± 0.9
33.0	32 ± 0.9
100.0	23 ± 3.8
333.0	19 ± 0.3
1000.0	
3333.0	
Trial Summary	Negative
Positive Control ⁴	387 ± 32.4
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	7 ± 1.2	27 ± 1.0	15 ± 2.9	28 ± 1.8	14 ± 2.1
33.0	9 ± 1.5	24 ± 1.5	14 ± 3.8	25 ± 2.9	13 ± 2.1
100.0	11 ± 1.5	28 ± 2.7	14 ± 1.3	28 ± 1.5	11 ± 3.4
333.0	12 ± 2.6	29 ± 1.5	17 ± 0.6	27 ± 4.5	12 ± 3.5
1000.0	7 ± 1.5	26 ± 7.0	12 ± 1.9	18 ± 4.2	16 ± 1.7
3333.0	4 ± 0.6	26 ± 3.5	4 ± 0.6	28 ± 1.7	9 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			879 ± 38.1	1043 ± 108.4	1107 ± 39.3
Positive Control ⁶	99 ± 19.7	188 ± 34.3			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	24 ± 2.2
33.0	22 ± 2.4
100.0	24 ± 3.6
333.0	25 ± 3.5
1000.0	13 ± 1.5
3333.0	22 ± 2.9
Trial Summary	Negative
Positive Control ²	1015 ± 158.5
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: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **