

Experiment Number: A03987

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Nickel carbonate

CAS Number: 3333-67-3

Date Report Requested: 09/15/2018

Time Report Requested: 15:08:28

NTP Study Number:

A03987

Study Result:

Equivocal

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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	111 ± 5.5	118 ± 6.1	108 ± 3.6	109 ± 5.2	129 ± 1.2
100.0	114 ± 5.3	116 ± 5.2	111 ± 5.6	105 ± 8.2	128 ± 7.7
333.0	128 ± 1.3	114 ± 3.6	111 ± 7.4	112 ± 3.8	118 ± 5.9
1000.0	114 ± 17.6	115 ± 5.0	123 ± 7.2	115 ± 4.8	123 ± 1.8
1666.0			113 ± 3.2	126 ± 0.7	
3333.0	120 ± 5.6	109 ± 0.3	121 ± 0.9	129 ± 0.9	122 ± 1.8
10000.0	96 ± 9.3	81 ± 9.5			92 ± 7.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³			868 ± 39.6	484 ± 15.4	548 ± 16.5
Positive Control ⁴					
Positive Control ⁵	831 ± 19.2	856 ± 23.7			

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	131 ± 12.2	134 ± 15.2	105 ± 7.9	109 ± 0.7	123 ± 6.3
100.0	121 ± 3.7	140 ± 1.5	121 ± 4.2	123 ± 3.2	128 ± 0.7
333.0	140 ± 1.2	166 ± 10.1	123 ± 4.2	127 ± 0.9	116 ± 9.0
1000.0	139 ± 11.9	167 ± 2.3	125 ± 0.3	120 ± 5.6	114 ± 3.5
1666.0		190 ± 4.1	148 ± 5.5	129 ± 0.3	123 ± 3.0
3333.0	162 ± 2.2	163 ± 12.2	136 ± 2.7	133 ± 1.9	117 ± 5.6
10000.0	34 ± 3.7 ^s				
Trial Summary	Negative	Equivocal	Equivocal	Negative	Negative
Positive Control ²				646 ± 17.9	511 ± 8.0
Positive Control ³					
Positive Control ⁴	484 ± 11.5	966 ± 60.0	598 ± 28.6		
Positive Control ⁵					

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	133 ± 3.3	129 ± 2.9	104 ± 2.3
100.0	122 ± 6.5	128 ± 9.4	114 ± 0.7
333.0	128 ± 4.8	155 ± 5.5	124 ± 7.6
1000.0	122 ± 11.0	144 ± 1.5	125 ± 9.2
1666.0			136 ± 2.4
3333.0	120 ± 7.5	139 ± 4.8	136 ± 3.7
10000.0	102 ± 4.1	39 ± 6.6 ^s	
Trial Summary	Negative	Negative	Equivocal
Positive Control ²	612 ± 7.6		
Positive Control ³		658 ± 9.3	469 ± 13.8
Positive Control ⁴			
Positive Control ⁵			

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	14 ± 0.7	11 ± 1.5	18 ± 0.6	14 ± 1.5	12 ± 1.5
100.0	14 ± 3.8	10 ± 0.3	16 ± 1.2	14 ± 0.3	9 ± 0.3
333.0	17 ± 1.5	10 ± 0.9	16 ± 0.3	17 ± 1.2	9 ± 0.7
1000.0	9 ± 1.5	10 ± 0.6	14 ± 0.3	17 ± 0.3	10 ± 0.9
1666.0			19 ± 0.6	16 ± 1.2	
3333.0	12 ± 2.6	10 ± 1.2	17 ± 0.3	17 ± 1.2	12 ± 0.6
10000.0	10 ± 1.0	7 ± 0.3			9 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					
Positive Control ⁴			162 ± 8.7	81 ± 2.4	135 ± 4.9
Positive Control ⁵	956 ± 22.4	890 ± 19.6			
Positive Control ⁶					

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Strain: TA1535

Dose (ug/Plate)	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	17 ± 1.0	20 ± 0.7	19 ± 1.5	13 ± 1.5	14 ± 2.7
100.0	18 ± 0.0	15 ± 3.2	16 ± 1.5	10 ± 0.3	15 ± 0.6
333.0	14 ± 0.7	15 ± 0.9	15 ± 1.5	10 ± 0.9	14 ± 0.3
1000.0	18 ± 0.7	16 ± 1.5	15 ± 1.0	11 ± 0.6	12 ± 3.1
1666.0	16 ± 1.0	16 ± 2.2	17 ± 0.6		16 ± 1.0
3333.0	15 ± 2.3	17 ± 0.6	17 ± 0.3	11 ± 1.2	14 ± 1.5
10000.0				9 ± 0.3	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³		187 ± 12.4	98 ± 7.3	145 ± 11.2	
Positive Control ⁴					275 ± 1.7
Positive Control ⁵					
Positive Control ⁶	164 ± 8.1				

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	144 ± 10.3	148 ± 4.9	177 ± 6.9	185 ± 6.8	169 ± 7.2
100.0	143 ± 14.2	153 ± 3.8	177 ± 10.7	160 ± 3.5	181 ± 6.3
333.0	139 ± 15.5	150 ± 7.6	171 ± 8.5	154 ± 3.2	165 ± 6.8
1000.0	156 ± 13.5	164 ± 3.0	171 ± 8.6	163 ± 3.1	142 ± 3.3
3333.0	148 ± 9.1	173 ± 3.0	174 ± 8.1	153 ± 5.8	190 ± 2.8
10000.0	38 ± 12.6 ^s	82 ± 3.7 ^s	112 ± 6.7	49 ± 26.1 ^s	108 ± 4.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					542 ± 12.7
Positive Control ³			453 ± 20.2		
Positive Control ⁴				431 ± 18.7	
Positive Control ⁷	411 ± 6.1	426 ± 16.4			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	179 ± 10.1
100.0	191 ± 8.0
333.0	194 ± 8.1
1000.0	174 ± 6.5
3333.0	165 ± 3.1
10000.0	60 ± 7.7 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	474 ± 11.6
Positive Control ⁴	
Positive Control ⁷	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	23 ± 1.2	21 ± 2.4	26 ± 1.0	22 ± 1.2	22 ± 2.3
100.0	24 ± 2.0	21 ± 2.0	21 ± 1.7	26 ± 0.9	27 ± 1.7
333.0	23 ± 3.3	21 ± 1.5	24 ± 1.7	23 ± 3.8	25 ± 2.6
1000.0	19 ± 5.0	20 ± 1.0	24 ± 1.5	19 ± 3.6	18 ± 0.3
3333.0	17 ± 1.5	18 ± 4.1	25 ± 2.6	21 ± 4.7	21 ± 0.9
10000.0	10 ± 1.0	18 ± 1.0	23 ± 3.1	15 ± 1.7	21 ± 2.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					394 ± 21.1
Positive Control ³			373 ± 15.6		
Positive Control ⁸	440 ± 15.9	337 ± 15.2			
Positive Control ⁴				437 ± 11.2	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	22 ± 2.4
100.0	21 ± 1.3
333.0	17 ± 2.0
1000.0	22 ± 2.4
3333.0	19 ± 1.2
10000.0	15 ± 2.4
Trial Summary	Negative
Positive Control ²	
Positive Control ³	548 ± 35.1
Positive Control ⁸	
Positive Control ⁴	

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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: 1.0 ug/Plate 2-Aminoanthracene

3: 2.0 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate 2-Aminoanthracene

5: 5.0 ug/Plate Sodium Azide

6: 10.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

** END OF REPORT **