

Experiment Number: 022418

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Sodium cyanide

CAS Number: 143-33-9

Date Report Requested: 09/14/2018

Time Report Requested: 12:53:32

NTP Study Number:

022418

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	103 ± 1.5	89 ± 6.2	92 ± 3.5	86 ± 6.9	116 ± 3.5
1.0	89 ± 9.8		104 ± 4.5		121 ± 4.5
3.3	108 ± 1.2	83 ± 9.4	89 ± 4.6	94 ± 1.7	120 ± 6.0
10.0	101 ± 1.5	82 ± 9.0	108 ± 3.7	116 ± 4.6	133 ± 10.3
33.0	103 ± 6.6	91 ± 8.6	85 ± 1.2	107 ± 12.6	121 ± 6.0
100.0	101 ± 7.8	3 ± 2.5	96 ± 2.9	80 ± 6.6	122 ± 12.4
333.0		0 ± 0.0		12 ± 4.4	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³	415 ± 31.5	348 ± 15.5	644 ± 59.0		
Positive Control ⁴				1125 ± 21.5	
Positive Control ⁵					
Positive Control ⁶					706 ± 45.9

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	107 ± 9.3	108 ± 1.2
1.0		108 ± 5.5
3.3	104 ± 7.0	111 ± 3.8
10.0	114 ± 6.1	117 ± 10.0
33.0	99 ± 11.0	108 ± 4.3
100.0	79 ± 9.5	115 ± 6.0
333.0	1 ± 0.7	
Trial Summary	Negative	Negative
Positive Control ²	719 ± 25.7	
Positive Control ³		
Positive Control ⁴		
Positive Control ⁵		448 ± 41.5
Positive Control ⁶		

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	14 ± 2.3	10 ± 1.5	11 ± 0.7	13 ± 2.8	13 ± 0.3
1.0	14 ± 0.3			14 ± 2.5	
3.3	14 ± 0.6	9 ± 0.7	10 ± 2.1	14 ± 1.2	9 ± 2.1
10.0	9 ± 1.2	7 ± 1.8	8 ± 1.5	14 ± 2.4	13 ± 2.6
33.0	12 ± 0.9	4 ± 0.7	7 ± 2.6	16 ± 1.0	12 ± 2.7
100.0	12 ± 2.3	3 ± 0.7	8 ± 1.2	18 ± 1.2	11 ± 2.8
333.0		0 ± 0.0	3 ± 1.5		4 ± 1.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	516 ± 8.2	200 ± 6.5			
Positive Control ⁵					
Positive Control ⁶			141 ± 6.1	178 ± 6.6	80 ± 0.9

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	16 ± 2.1
1.0	21 ± 2.7
3.3	16 ± 3.0
10.0	13 ± 1.8
33.0	19 ± 3.8
100.0	21 ± 1.2
333.0	
Trial Summary	Negative
Positive Control ³	
Positive Control ⁵	92 ± 6.4
Positive Control ⁶	

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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	143 ± 3.2	115 ± 2.3	134 ± 8.5	206 ± 9.2	142 ± 4.7
1.0	119 ± 4.5			226 ± 9.5	
3.3	133 ± 3.5	123 ± 5.9	144 ± 4.4	217 ± 8.0	154 ± 6.0
10.0	119 ± 6.2	100 ± 4.5	134 ± 4.3	192 ± 3.8	149 ± 9.4
33.0	130 ± 4.6	106 ± 5.9	143 ± 9.1	219 ± 3.9	156 ± 7.5
100.0	163 ± 3.0	109 ± 4.9	128 ± 8.9	229 ± 7.8	163 ± 6.6
333.0		76 ± 15.6	116 ± 7.7		130 ± 21.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁶			1533 ± 62.5	1097 ± 43.9	1222 ± 40.0
Positive Control ⁷	721 ± 103.8	355 ± 32.1			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	191 ± 11.9
1.0	167 ± 12.7
3.3	167 ± 9.6
10.0	179 ± 9.4
33.0	173 ± 9.1
100.0	179 ± 5.0
333.0	
Trial Summary	Negative
Positive Control ⁶	1900 ± 122.0
Positive Control ⁷	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	19 ± 1.5	10 ± 2.3	15 ± 2.1	18 ± 3.0	19 ± 2.3
0.3			14 ± 1.5		19 ± 3.2
1.0	12 ± 1.5		13 ± 3.6		23 ± 2.2
3.3	14 ± 1.5	5 ± 2.0	16 ± 3.3	21 ± 2.6	17 ± 1.7
10.0	14 ± 1.8	0 ± 0.0	13 ± 1.7	12 ± 2.4	20 ± 1.5
33.0	11 ± 1.0	1 ± 1.0	12 ± 0.7	9 ± 0.7	17 ± 1.5
100.0	0 ± 0.0	0 ± 0.0		3 ± 0.0	
333.0		0 ± 0.0		0 ± 0.0	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				433 ± 24.2	199 ± 8.0
Positive Control ⁵					
Positive Control ⁸	321 ± 10.5	253 ± 67.0	423 ± 9.7		

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Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	22 ± 0.0	18 ± 2.4	23 ± 2.5	18 ± 2.4
0.3			16 ± 2.2	
1.0	24 ± 2.2		20 ± 2.0	20 ± 2.0
3.3	24 ± 2.6	13 ± 2.6	16 ± 3.8	21 ± 3.2
10.0	23 ± 1.8	14 ± 2.9	22 ± 3.3	24 ± 1.2
33.0	22 ± 2.1	8 ± 0.6	16 ± 1.5	13 ± 3.2
100.0	7 ± 1.5	3 ± 0.6		7 ± 2.2
333.0		0 ± 0.3		
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²		706 ± 24.1	406 ± 26.5	
Positive Control ⁵	407 ± 46.6			387 ± 44.5
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: 0.4 ug/Plate 2-Aminoanthracene
- 3: 0.5 ug/Plate Sodium Azide
- 4: 0.75 ug/Plate 2-Aminoanthracene
- 5: 1.0 ug/Plate 2-Aminoanthracene
- 6: 2.0 ug/Plate 2-Aminoanthracene
- 7: 24.0 ug/Plate 9-Aminoacridine
- 8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **