

Experiment Number: 855066

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Hydroxyurea

CAS Number: 127-07-1

Date Report Requested: 06/06/2019

Time Report Requested: 08:34:25

NTP Study Number:

855066

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	118 ± 8.6	118 ± 5.0	127 ± 4.8	129 ± 6.7	118 ± 8.6
100.0	126 ± 17.7		128 ± 1.0		93 ± 8.3
333.0	132 ± 3.6	97 ± 7.5	110 ± 3.3	108 ± 7.9	103 ± 6.5
1000.0	137 ± 6.7	120 ± 3.2	118 ± 12.4	110 ± 10.7	100 ± 12.5
3333.0	118 ± 10.3	119 ± 4.2	163 ± 16.8	135 ± 14.5	124 ± 9.0
6666.0		138 ± 7.5		168 ± 2.5	
10000.0	158 ± 15.1	159 ± 8.7	196 ± 10.2	167 ± 17.9	146 ± 11.7
Trial Summary	Equivocal	Positive	Positive	Positive	Equivocal
Positive Control ²			1059 ± 48.3	298 ± 31.4	505 ± 4.7
Positive Control ³	505 ± 4.7	507 ± 18.0			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	125 ± 6.4
100.0	
333.0	123 ± 7.6
1000.0	107 ± 8.7
3333.0	148 ± 12.3
6666.0	153 ± 16.8
10000.0	178 ± 10.9
Trial Summary	Positive
Positive Control ²	495 ± 16.8
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	20 ± 2.3	9 ± 3.2	7 ± 1.2
100.0	17 ± 2.4	9 ± 2.0	8 ± 3.0
333.0	15 ± 1.9	6 ± 0.9	7 ± 3.0
1000.0	16 ± 1.5	7 ± 2.3	11 ± 2.3
3333.0	15 ± 0.9	7 ± 0.3	10 ± 1.9
10000.0	16 ± 2.0	9 ± 2.0	12 ± 3.2
Trial Summary	Negative	Negative	Negative
Positive Control ³	460 ± 15.8		
Positive Control ⁴		338 ± 29.0	566 ± 13.8

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	9 ± 2.7	7 ± 0.3	10 ± 1.5
100.0	8 ± 2.3	7 ± 0.9	8 ± 1.7
333.0	11 ± 4.7	8 ± 2.3	7 ± 0.9
1000.0	9 ± 1.7	7 ± 1.3	7 ± 1.2
3333.0	9 ± 2.3	9 ± 1.7	6 ± 1.2
10000.0	12 ± 3.2	11 ± 2.9	9 ± 2.0
Trial Summary	Negative	Negative	Negative
Positive Control ⁴		218 ± 9.0	379 ± 29.3
Positive Control ⁵	139 ± 17.9		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	33 ± 2.6	43 ± 1.5	44 ± 4.8
100.0	36 ± 7.5	35 ± 2.5	34 ± 3.2
333.0	34 ± 2.7	48 ± 4.0	39 ± 1.7
1000.0	34 ± 4.0	41 ± 1.5	34 ± 3.2
3333.0	33 ± 2.7	40 ± 4.8	44 ± 4.9
10000.0	37 ± 6.4	58 ± 7.4	56 ± 2.9
Trial Summary	Negative	Negative	Negative
Positive Control ²		944 ± 27.1	1972 ± 56.5
Positive Control ⁶	945 ± 30.9		

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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

The S9 fraction refers to the liver unless otherwise indicated

1: Vehicle Control: Water

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

** END OF REPORT **