

Experiment Number: 140417

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Ninhydrin

CAS Number: 485-47-2

Date Report Requested: 09/12/2018

Time Report Requested: 08:59:46

NTP Study Number:

140417

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	99 ± 5.4	122 ± 8.7	157 ± 5.4	135 ± 8.3	121 ± 6.9
3.3	116 ± 8.1	117 ± 4.2			
10.0	103 ± 2.9	118 ± 9.8		111 ± 4.7	
33.0	113 ± 3.8	117 ± 1.9	161 ± 9.3	133 ± 2.2	139 ± 8.7
100.0	111 ± 4.0	126 ± 7.5	152 ± 8.2	136 ± 3.5	133 ± 18.5
333.0	115 ± 3.8	Toxic	154 ± 8.7	163 ± 2.3	142 ± 11.1
1000.0			102 ± 2.7	Toxic	Toxic
3333.0			0 ± 0.0		7 ± 3.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1441 ± 191.4	1814 ± 111.2	1502 ± 108.1
Positive Control ³	550 ± 18.5	1265 ± 26.0			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	106 ± 1.7	166 ± 3.2
3.3		168 ± 0.6
10.0	128 ± 3.7	159 ± 7.0
33.0	156 ± 8.4	163 ± 11.1
100.0	81 ± 8.9	167 ± 2.6
333.0	44 ± 16.5	Toxic
1000.0	Toxic	
3333.0		
Trial Summary	Equivocal	Negative
Positive Control ²	1618 ± 24.6	1558 ± 235.2
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% Rat S9
Vehicle Control ¹	8 ± 0.7	7 ± 1.5	21 ± 1.3	9 ± 1.2	22 ± 1.0
3.3	9 ± 1.5	11 ± 2.9		6 ± 2.3	11 ± 1.7
10.0	8 ± 2.1	11 ± 2.9		5 ± 0.9	7 ± 1.3
33.0	4 ± 0.3	9 ± 0.7	19 ± 2.7	8 ± 1.5	5 ± 1.3
100.0	4 ± 0.6	9 ± 1.2	19 ± 0.3	6 ± 0.3	8 ± 0.3
333.0	3 ± 1.2	5 ± 3.5	14 ± 1.0	6 ± 1.2	6 ± 1.3
1000.0			3 ± 3.0		
3333.0			0 ± 0.0		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			151 ± 3.5	202 ± 9.4	
Positive Control ⁴					241 ± 26.0
Positive Control ³	792 ± 24.1	842 ± 57.7			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	22 ± 2.2	10 ± 2.0	13 ± 2.2
3.3		13 ± 1.5	14 ± 2.9
10.0		9 ± 1.9	13 ± 1.2
33.0	28 ± 2.7	12 ± 1.8	11 ± 2.6
100.0	24 ± 4.3	8 ± 2.7	8 ± 0.9
333.0	17 ± 0.6	4 ± 1.2	Toxic
1000.0	2 ± 1.7		
3333.0	0 ± 0.0		
Trial Summary	Negative	Negative	Negative
Positive Control ²	86 ± 3.5	132 ± 28.8	
Positive Control ⁴			168 ± 4.6
Positive Control ³			

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	4 ± 0.7	8 ± 1.8	5 ± 0.6	9 ± 1.5	8 ± 1.2
3.3	6 ± 1.3	7 ± 0.6	12 ± 0.3		
10.0	11 ± 1.8	9 ± 1.9	13 ± 2.6		11 ± 0.9
33.0	11 ± 0.7	12 ± 1.8	15 ± 3.3	14 ± 2.8	6 ± 1.0
100.0	8 ± 1.2	10 ± 1.9	12 ± 4.0	16 ± 2.1	10 ± 0.9
333.0	5 ± 1.2	0 ± 0.0	0 ± 0.0	14 ± 2.0	9 ± 1.7
1000.0				4 ± 2.3	0 ± 0.0
3333.0				1 ± 0.7	
Trial Summary	Equivocal	Negative	Equivocal	Negative	Negative
Positive Control ²				148 ± 10.7	571 ± 21.4
Positive Control ⁴					
Positive Control ⁵	119 ± 16.4	1150 ± 283.3	751 ± 79.2		

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Strain: TA1537

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	13 ± 3.0	12 ± 2.4	12 ± 1.7	18 ± 3.0
3.3	10 ± 1.2		6 ± 1.2	15 ± 1.2
10.0	10 ± 2.1		6 ± 1.2	13 ± 2.1
33.0	10 ± 2.5	18 ± 1.5	8 ± 0.6	16 ± 1.2
100.0	11 ± 3.0	27 ± 2.3	11 ± 0.6	13 ± 1.9
333.0	13 ± 2.0	18 ± 2.0	Toxic	1 ± 0.9
1000.0		1 ± 0.7		
3333.0		0 ± 0.0		
Trial Summary	Negative	Equivocal	Negative	Negative
Positive Control ²		155 ± 47.1	412 ± 36.4	
Positive Control ⁴	255 ± 11.5			257 ± 21.4
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% Rat S9
Vehicle Control ¹	14 ± 1.2	22 ± 1.5	14 ± 1.2	19 ± 0.6	34 ± 3.1
3.3	19 ± 2.1	19 ± 1.7		16 ± 4.0	29 ± 6.6
10.0	20 ± 2.2	25 ± 3.8		20 ± 2.0	31 ± 2.7
33.0	20 ± 2.0	31 ± 4.3	32 ± 0.9	21 ± 2.4	32 ± 4.9
100.0	20 ± 3.5	24 ± 4.7	30 ± 2.8	28 ± 4.0	31 ± 1.8
333.0	Toxic	Toxic	33 ± 2.3	24 ± 3.2	40 ± 2.2
1000.0			0 ± 0.0		
3333.0			0 ± 0.0		
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ²			1063 ± 47.6	1449 ± 258.9	594 ± 43.8
Positive Control ⁶	626 ± 179.6	489 ± 36.1			

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Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	43 ± 2.1	18 ± 1.8	20 ± 1.5	19 ± 2.3
3.3	41 ± 3.8		20 ± 0.6	20 ± 1.5
10.0	53 ± 4.6		25 ± 1.9	19 ± 4.1
33.0	50 ± 1.2	21 ± 3.0	32 ± 2.0	16 ± 2.1
100.0	72 ± 8.4	19 ± 3.2	23 ± 1.5	22 ± 2.2
333.0	Toxic	11 ± 1.9	17 ± 1.2	15 ± 2.4
1000.0		3 ± 1.2		
3333.0		0 ± 0.0		
Trial Summary	Equivocal	Negative	Negative	Negative
Positive Control ²	1838 ± 69.4	1253 ± 74.6	1205 ± 4.3	1479 ± 71.3
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 ****