

Experiment Number: 014372
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Orotic acid
CAS Number: 65-86-1

Date Report Requested: 09/14/2018
Time Report Requested: 06:52:28

NTP Study Number: 014372
Study Result: Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	114 ± 7.0	149 ± 6.8	174 ± 4.3	145 ± 11.1	166 ± 2.3
100.0	109 ± 9.2	146 ± 9.0	161 ± 10.7	144 ± 9.9	153 ± 3.7
333.0	102 ± 1.5	149 ± 4.7	148 ± 15.9	111 ± 7.2	137 ± 8.8
1000.0	113 ± 7.5	145 ± 8.4	156 ± 12.3	110 ± 7.2	175 ± 7.4
3333.0	93 ± 3.8	142 ± 11.2	162 ± 5.8	99 ± 9.9	136 ± 7.0
10000.0	102 ± 2.5 ^p	131 ± 3.4 ^p	139 ± 9.0 ^p	118 ± 7.4 ^p	124 ± 11.5 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					494 ± 32.0
Positive Control ³			333 ± 19.4		
Positive Control ⁴				394 ± 20.8	
Positive Control ⁵	727 ± 20.7	763 ± 7.3			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	118 ± 11.1
100.0	137 ± 7.0
333.0	126 ± 8.7
1000.0	92 ± 9.1
3333.0	117 ± 5.5
10000.0	108 ± 6.2 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	497 ± 16.2
Positive Control ⁴	
Positive Control ⁵	

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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	15 ± 0.9	13 ± 2.5	11 ± 1.9	17 ± 3.5	9 ± 0.9
100.0	13 ± 2.3	11 ± 1.2	16 ± 0.3	14 ± 2.3	10 ± 2.0
333.0	18 ± 1.2	8 ± 0.9	13 ± 2.6	14 ± 2.3	10 ± 1.5
1000.0	15 ± 0.0	10 ± 1.5	12 ± 2.3	16 ± 3.3	10 ± 1.3
3333.0	15 ± 2.2	12 ± 1.9	10 ± 0.6	11 ± 1.5	10 ± 0.7
10000.0	12 ± 1.8 ^p	8 ± 0.9 ^p	11 ± 1.7 ^p	11 ± 0.7 ^p	9 ± 1.7 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					97 ± 6.2
Positive Control ⁴			152 ± 6.1		
Positive Control ⁵	1089 ± 36.0	1244 ± 32.6			
Positive Control ⁶				112 ± 7.8	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	17 ± 1.8
100.0	15 ± 2.0
333.0	14 ± 0.9
1000.0	15 ± 0.9
3333.0	9 ± 2.1
10000.0	9 ± 1.2 ^p
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	481 ± 5.8
Positive Control ⁵	
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	162 ± 0.9	185 ± 6.7	165 ± 4.3	206 ± 9.9	179 ± 17.8
100.0	166 ± 4.4	182 ± 10.8	175 ± 5.3	174 ± 20.9	185 ± 10.2
333.0	195 ± 18.0	205 ± 8.2	175 ± 7.3	209 ± 11.9	195 ± 6.4
1000.0	179 ± 9.3	209 ± 4.5	174 ± 7.2	215 ± 9.4	173 ± 3.2
3333.0	186 ± 17.4	198 ± 1.0	174 ± 5.5	189 ± 22.9	190 ± 4.1
10000.0	161 ± 10.5 ^p	165 ± 4.4 ^p	102 ± 7.8 ^x	167 ± 7.3 ^p	176 ± 12.4 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					329 ± 8.7
Positive Control ³			333 ± 6.5		
Positive Control ⁴				411 ± 8.0	
Positive Control ⁷	588 ± 42.4	392 ± 21.5			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	189 ± 8.7
100.0	214 ± 10.1
333.0	220 ± 9.5
1000.0	214 ± 5.0
3333.0	203 ± 2.5
10000.0	184 ± 3.1 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	598 ± 61.6
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	28 ± 5.0	28 ± 4.4	41 ± 2.0	27 ± 5.0	38 ± 0.9
100.0	19 ± 0.9	34 ± 5.5	38 ± 5.4	26 ± 4.1	41 ± 4.0
333.0	20 ± 2.1	25 ± 2.3	35 ± 4.2	23 ± 2.9	35 ± 4.7
1000.0	21 ± 1.0	27 ± 3.5	32 ± 4.0	25 ± 3.2	35 ± 7.0
3333.0	21 ± 2.3	24 ± 2.0	28 ± 4.7	23 ± 4.0	28 ± 0.9
10000.0	14 ± 2.6 ^p	19 ± 4.6 ^p	19 ± 4.7 ^p	21 ± 0.6 ^p	16 ± 2.3 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					318 ± 28.2
Positive Control ³			170 ± 12.7	117 ± 8.8	
Positive Control ⁸	491 ± 6.7	603 ± 8.7			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	25 ± 4.3
100.0	25 ± 3.2
333.0	26 ± 4.3
1000.0	20 ± 1.9
3333.0	26 ± 6.9
10000.0	17 ± 2.9 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	440 ± 39.3
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: Dimethyl Sulfoxide
- 2: 0.5 ug/Plate 2-Aminoanthracene
- 3: 1.0 ug/Plate 2-Aminoanthracene
- 4: 2.5 ug/Plate 2-Aminoanthracene
- 5: 5.0 ug/Plate Sodium Azide
- 6: 5.0 ug/Plate 2-Aminoanthracene
- 7: 50.0 ug/Plate 9-Aminoacridine
- 8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- p: Precipitate
- x: Slight Toxicity and Precipitate

** END OF REPORT **