

Experiment Number: 049495

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Quinethazone (aquamox)

CAS Number: 73-49-4

Date Report Requested: 09/15/2018

Time Report Requested: 02:05:19

NTP Study Number:

049495

Study Result:

Negative

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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	106 ± 5.0	98 ± 7.1	98 ± 7.6	114 ± 3.2	83 ± 4.2
100.0	118 ± 3.6	114 ± 9.0		124 ± 7.2	
333.0	137 ± 3.7	110 ± 12.3	106 ± 3.4	122 ± 2.7	89 ± 2.3
1000.0	129 ± 5.9	117 ± 2.3	95 ± 8.6	158 ± 4.7	92 ± 4.4
3333.0	115 ± 5.0 ^P	109 ± 6.7 ^P		162 ± 7.2 ^P	
3334.0			104 ± 1.5 ^P		94 ± 1.2 ^P
6667.0			93 ± 1.2 ^P		87 ± 6.8 ^P
10000.0	110 ± 5.6 ^P	113 ± 10.8 ^P	90 ± 4.7 ^P	167 ± 9.1 ^P	86 ± 2.5 ^P
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²					
Positive Control ³	423 ± 13.1	512 ± 29.0			
Positive Control ⁴			3129 ± 128.4	1305 ± 83.6	1106 ± 18.5
Positive Control ⁵					
Positive Control ⁶					

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Strain: TA100

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	124 ± 8.7	88 ± 4.3	114 ± 7.5	88 ± 7.8	132 ± 9.6
100.0	114 ± 9.3		109 ± 7.0		127 ± 6.5
333.0	131 ± 8.0	91 ± 2.0	137 ± 6.2	96 ± 2.9	135 ± 8.7
1000.0	122 ± 4.6	90 ± 6.3	125 ± 2.3	89 ± 2.4	130 ± 0.7
3333.0	122 ± 2.6 ^P		151 ± 2.6 ^P		122 ± 7.6 ^P
3334.0		86 ± 5.1 ^P		106 ± 3.6 ^P	
6667.0		85 ± 7.1 ^P		85 ± 11.7 ^P	
10000.0	138 ± 3.3 ^P	88 ± 4.6 ^P	158 ± 3.6 ^P	89 ± 2.7 ^P	129 ± 3.2 ^P
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ²		516 ± 23.7	446 ± 8.8	263 ± 5.9	
Positive Control ³					
Positive Control ⁴					
Positive Control ⁵					817 ± 46.7
Positive Control ⁶	1489 ± 28.3				

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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	16 ± 0.6	19 ± 3.8	14 ± 0.9	13 ± 1.5	12 ± 3.4
100.0	21 ± 1.5	17 ± 1.2	9 ± 2.0	13 ± 2.1	14 ± 0.6
333.0	20 ± 1.8	16 ± 3.2	14 ± 2.6	14 ± 3.1	13 ± 3.3
1000.0	19 ± 2.0	17 ± 4.6	13 ± 2.3	13 ± 0.6	14 ± 1.0
3333.0	17 ± 3.1 ^p	15 ± 3.5	13 ± 1.7 ^p	15 ± 1.2 ^p	16 ± 4.8 ^p
10000.0	14 ± 3.5 ^p	8 ± 2.5 ^p	11 ± 1.5 ^p	17 ± 0.9 ^p	15 ± 3.5 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					68 ± 3.5
Positive Control ³	210 ± 3.1	313 ± 37.1			
Positive Control ⁵					
Positive Control ⁶			312 ± 7.4	206 ± 7.2	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 2.4
100.0	11 ± 0.9
333.0	12 ± 2.6
1000.0	9 ± 0.9
3333.0	13 ± 1.5 ^P
10000.0	14 ± 3.5 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	93 ± 7.3
Positive Control ⁶	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	66 ± 1.9	128 ± 1.2	121 ± 4.7	126 ± 8.1	100 ± 8.1
100.0	77 ± 4.7	114 ± 1.8	97 ± 8.1	134 ± 12.5	110 ± 12.3
333.0	60 ± 2.0	135 ± 5.9	117 ± 8.1	141 ± 2.0	95 ± 1.3
1000.0	35 ± 7.2	135 ± 9.3	124 ± 2.9	150 ± 3.8	65 ± 8.7
2000.0					
3333.0	1 ± 0.7	145 ± 2.1 ^P		101 ± 11.4 ^P	49 ± 10.7 ^P
3334.0			103 ± 2.0		
6667.0					
10000.0	0 ± 0.0 ^P	87 ± 9.0 ^P	43 ± 16.3 ^P	26 ± 3.2 ^P	0 ± 0.3 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁷			594 ± 19.9		
Positive Control ⁴					
Positive Control ⁶				1221 ± 55.7	
Positive Control ⁸					793 ± 32.3
Positive Control ⁹	437 ± 17.7				
Positive Control ¹⁰		293 ± 19.0			

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Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	169 ± 5.5	93 ± 10.4	165 ± 27.6	131 ± 2.6
100.0	149 ± 3.0	116 ± 3.2	194 ± 14.8	
333.0	156 ± 9.8	116 ± 3.2	183 ± 6.7	123 ± 3.6
1000.0	176 ± 8.6	114 ± 2.5	199 ± 13.2	134 ± 4.3
2000.0	182 ± 2.6			
3333.0		92 ± 5.8 ^p	244 ± 7.1 ^p	
3334.0	194 ± 9.5 ^p			157 ± 9.6
6667.0				157 ± 8.6
10000.0		32 ± 7.8 ^p	181 ± 8.8 ^p	167 ± 2.3 ^p
Trial Summary	Negative	Negative	Equivocal	Negative
Positive Control ⁷				
Positive Control ⁴		421 ± 25.1		
Positive Control ⁶				
Positive Control ⁸	970 ± 28.8		1167 ± 28.3	875 ± 14.4
Positive Control ⁹				
Positive Control ¹⁰				

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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	20 ± 0.6	14 ± 2.2	34 ± 3.6	36 ± 0.6	37 ± 3.5
100.0	20 ± 2.8	19 ± 0.3	33 ± 2.6	37 ± 2.2	27 ± 3.3
333.0	21 ± 5.2	23 ± 3.5	30 ± 1.2	32 ± 0.9	30 ± 3.9
1000.0	18 ± 0.7	17 ± 3.5	33 ± 4.2	30 ± 3.9	32 ± 3.5
3333.0	13 ± 2.3	11 ± 1.7	30 ± 1.7	26 ± 4.6 ^P	32 ± 2.5 ^P
10000.0	10 ± 4.8 ^P	9 ± 2.1 ^P	21 ± 2.2 ^P	18 ± 4.5 ^P	21 ± 1.5 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹¹					327 ± 11.4
Positive Control ²			485 ± 20.8		
Positive Control ¹²	354 ± 5.3	234 ± 27.6			
Positive Control ⁵				494 ± 14.9	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	35 ± 0.9
100.0	36 ± 0.7
333.0	40 ± 2.7
1000.0	40 ± 3.7
3333.0	37 ± 4.6 ^p
10000.0	18 ± 0.3 ^p
Trial Summary	Negative
Positive Control ¹¹	
Positive Control ²	179 ± 3.0
Positive Control ¹²	
Positive Control ⁵	

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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: 0.4 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: 0.05 ug/Plate Solvent

8: 2.5 ug/Plate 2-Aminoanthracene

9: 8.0 ug/Plate 9-Aminoacridine

10: 16.0 ug/Plate 9-Aminoacridine

11: 0.2 ug/Plate 2-Aminoanthracene

12: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****