

Experiment Number: **620987**

Test Type: **Genetic Toxicology - Bacterial Mutagenicity**

G06: Ames Summary Data

Test Compound: **Ethoxyquin**

CAS Number: **91-53-2**

Date Report Requested: **09/15/2018**

Time Report Requested: **08:22:05**

NTP Study Number:

620987

Study Result:

Negative

Experiment Number: 620987

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Mutagenicity

G06: Ames Summary Data

Test Compound: Ethoxyquin

CAS Number: 91-53-2

Date Report Requested: 09/15/2018

Time Report Requested: 08:22:05

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	87 ± 3.8	99 ± 0.3	167 ± 9.0	181 ± 1.9	130 ± 7.2
0.3		102 ± 11.1	147 ± 5.0		
1.0		121 ± 13.5	132 ± 10.7		
3.0	73 ± 2.1	102 ± 5.0	133 ± 22.5		
10.0	87 ± 5.6	100 ± 4.0	144 ± 3.4	187 ± 1.2	
33.0	85 ± 3.8	114 ± 8.8	121 ± 11.8	190 ± 9.1	103 ± 2.8
100.0	43 ± 14.1			178 ± 12.2	135 ± 6.2
166.0	26 ± 3.3 ^s				
333.0				168 ± 11.6	116 ± 5.6
666.0					
1000.0				145 ± 10.3 ^s	114 ± 2.0
1666.0					86 ± 3.6 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				447 ± 14.7	
Positive Control ⁴					337 ± 24.3
Positive Control ⁵	519 ± 9.9	1005 ± 3.5	563 ± 14.4		

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Date Report Requested: 09/15/2018

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	159 ± 5.0	92 ± 3.3
0.3		
1.0		
3.0		
10.0	175 ± 3.5	
33.0	160 ± 11.6	115 ± 9.6
100.0	174 ± 2.2	100 ± 9.0
166.0		
333.0	131 ± 9.2	109 ± 0.3
666.0	136 ± 14.8 ^s	
1000.0		127 ± 13.8 ^s
1666.0		137 ± 13.3 ^s
Trial Summary	Negative	Negative
Positive Control ²	821 ± 30.3	
Positive Control ³		674 ± 156.3
Positive Control ⁴		
Positive Control ⁵		

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	8 ± 2.4	8 ± 0.9	6 ± 2.0	8 ± 1.0	12 ± 0.9
0.3	10 ± 2.1	7 ± 1.2	5 ± 0.7		
1.0	17 ± 2.4	6 ± 2.0	6 ± 1.9		
3.0	24 ± 4.1	8 ± 1.2	6 ± 0.3		
10.0	25 ± 0.3	6 ± 0.9	8 ± 1.2	11 ± 2.5	12 ± 1.2
33.0	20 ± 1.8	6 ± 0.6	4 ± 1.2	8 ± 1.5	9 ± 0.6
100.0				9 ± 1.2	12 ± 0.3
333.0				5 ± 0.7	20 ± 5.2
666.0					
1000.0				3 ± 1.0 ^s	17 ± 0.7
Trial Summary	Weakly Positive	Negative	Negative	Negative	Negative
Positive Control ³					
Positive Control ⁴				54 ± 3.5	
Positive Control ⁵	826 ± 29.9	1186 ± 56.2	480 ± 28.0		
Positive Control ⁶					51 ± 5.6

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Test Compound: Ethoxyquin
CAS Number: 91-53-2

Date Report Requested: 09/15/2018
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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	9 ± 2.0	10 ± 0.3
0.3		
1.0		
3.0		
10.0	6 ± 2.6	11 ± 0.9
33.0	10 ± 2.0	7 ± 1.0
100.0	7 ± 0.9	9 ± 2.3
333.0	4 ± 1.3	6 ± 0.7
666.0	2 ± 1.0 ^s	5 ± 1.2
1000.0		
Trial Summary	Negative	Negative
Positive Control ³	65 ± 5.9	
Positive Control ⁴		279 ± 10.5
Positive Control ⁵		
Positive Control ⁶		

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Date Report Requested: 09/15/2018

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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	149 ± 3.8	169 ± 5.3	198 ± 17.9	207 ± 10.5	164 ± 8.1
0.3	150 ± 5.2	166 ± 2.6			
1.0	163 ± 1.7	170 ± 6.1			
3.0	143 ± 7.9	166 ± 6.6			
10.0	149 ± 2.5	153 ± 12.7	187 ± 2.5	140 ± 8.3	176 ± 5.5
33.0	151 ± 6.1	141 ± 8.8	187 ± 8.3	156 ± 5.5	180 ± 2.0
100.0			175 ± 6.5	149 ± 4.6	183 ± 4.0
333.0			202 ± 3.3	169 ± 18.0	166 ± 3.2
666.0					157 ± 5.1
1000.0			158 ± 4.7	146 ± 9.6	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					464 ± 29.6
Positive Control ³			306 ± 13.3		
Positive Control ⁴				357 ± 17.9	
Positive Control ⁷	350 ± 12.8	374 ± 21.5			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	151 ± 6.1
0.3	
1.0	
3.0	
10.0	155 ± 9.2
33.0	131 ± 3.6
100.0	167 ± 5.1
333.0	163 ± 7.9
666.0	176 ± 7.2
1000.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	383 ± 11.5
Positive Control ⁴	
Positive Control ⁷	

Experiment Number: 620987

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Test Compound: Ethoxyquin

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Date Report Requested: 09/15/2018

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	12 ± 2.7	14 ± 1.5	20 ± 2.1	33 ± 5.7	30 ± 5.8
0.3		21 ± 1.2	22 ± 2.5		
1.0		17 ± 1.7	17 ± 2.0		
3.0	12 ± 2.6	21 ± 0.6	21 ± 0.9		
10.0	13 ± 2.3	14 ± 1.5	16 ± 3.1	33 ± 3.4	
33.0	12 ± 1.7	14 ± 1.9	20 ± 1.2	27 ± 5.2	20 ± 0.6
100.0	6 ± 0.9			28 ± 0.3	18 ± 0.6
166.0	6 ± 3.0				
333.0				18 ± 1.2	12 ± 0.0
666.0					
1000.0				10 ± 1.9 ^s	13 ± 1.2
1666.0					11 ± 1.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				260 ± 0.9	87 ± 8.8
Positive Control ⁸	499 ± 10.2	681 ± 11.4	554 ± 24.2		

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Test Compound: Ethoxyquin

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Date Report Requested: 09/15/2018

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	26 ± 1.2	20 ± 1.8
0.3		
1.0		
3.0		
10.0	26 ± 3.5	
33.0	28 ± 4.4	15 ± 4.7
100.0	26 ± 3.3	19 ± 1.5
166.0		
333.0	11 ± 1.3 ^s	18 ± 1.8
666.0	9 ± 0.3 ^s	
1000.0		10 ± 1.8 ^s
1666.0		7 ± 1.9 ^s
Trial Summary	Negative	Negative
Positive Control ²	608 ± 33.6	
Positive Control ³		480 ± 27.0
Positive Control ⁸		

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Date Report Requested: 09/15/2018

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Strain: TA104

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	341 ± 7.5	352 ± 5.0	437 ± 11.4	428 ± 18.7	411 ± 11.8
0.3	337 ± 9.0	371 ± 32.8			
1.0	330 ± 9.9	399 ± 8.6			
3.0	344 ± 14.7	396 ± 8.2			
10.0	360 ± 5.0	401 ± 14.4	421 ± 8.4	426 ± 3.3	389 ± 17.1
33.0	356 ± 7.8	447 ± 4.6	430 ± 15.3	451 ± 11.3	418 ± 19.6
100.0			424 ± 13.5	467 ± 17.1	387 ± 25.9
333.0			395 ± 7.0	447 ± 7.0	376 ± 8.4
666.0					390 ± 9.7 ^s
1000.0			319 ± 20.2 ^s	350 ± 8.5	
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control ⁴					1068 ± 29.4
Positive Control ⁶			947 ± 30.8	789 ± 27.1	
Positive Control ⁹	953 ± 26.9	553 ± 20.1			

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Date Report Requested: 09/15/2018

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Strain: TA104

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	396 ± 1.0
0.3	
1.0	
3.0	
10.0	418 ± 14.9
33.0	424 ± 13.2
100.0	460 ± 16.0
333.0	442 ± 12.4
666.0	387 ± 16.3
1000.0	
Trial Summary	Negative
Positive Control ⁴	944 ± 37.9
Positive Control ⁶	
Positive Control 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

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

9: 250.0 ug/Plate Solvent

s: Slight Toxicity

** END OF REPORT **