

Experiment Number: **A98974**

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

G06: Ames Summary Data

Test Compound: **Cefuroxime**

CAS Number: **55268-75-2**

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

Time Report Requested: **17:29:47**

NTP Study Number:

A98974

Study Result:

Negative

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Test Compound: Cefuroxime

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Date Report Requested: 09/15/2018

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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	132 ± 17.5	140 ± 11.0	115 ± 3.5	138 ± 12.7	125 ± 8.3
0.3	127 ± 15.7	120 ± 5.2	123 ± 6.9	138 ± 7.5	130 ± 8.5
1.0	120 ± 5.5	132 ± 6.6	136 ± 4.7	127 ± 9.3	126 ± 3.3
3.0	125 ± 13.2	123 ± 7.7	120 ± 6.7	125 ± 10.3	131 ± 13.0
10.0	91 ± 3.4	121 ± 6.2	124 ± 3.5	136 ± 28.2	125 ± 5.1
16.0		106 ± 19.2 ^s	99 ± 5.5 ^s		94 ± 8.7 ^s
33.0	Toxic			Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					740 ± 12.8
Positive Control ³			654 ± 20.7		
Positive Control ⁴	1166 ± 94.4	894 ± 27.4			
Positive Control ⁵				828 ± 30.6	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	126 ± 6.4
0.3	122 ± 11.6
1.0	134 ± 1.9
3.0	120 ± 3.9
10.0	99 ± 6.4
16.0	
33.0	Toxic
Trial Summary	Negative
Positive Control ²	
Positive Control ³	857 ± 9.3
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	16 ± 1.9	14 ± 1.9	16 ± 1.2	12 ± 2.7	16 ± 3.7
0.3	18 ± 0.9	13 ± 3.0	16 ± 0.6	18 ± 0.0	16 ± 2.7
1.0	14 ± 0.7	11 ± 0.6	14 ± 2.0	17 ± 1.5	14 ± 1.9
3.0	20 ± 2.6	13 ± 2.3	14 ± 3.7	17 ± 1.9	13 ± 2.6
10.0	9 ± 0.3	9 ± 0.3	10 ± 2.8	16 ± 1.8	11 ± 3.8
16.0	14 ± 0.9	6 ± 0.0 ^s	7 ± 0.6 ^s	9 ± 3.2	7 ± 1.2 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					132 ± 7.6
Positive Control ⁴	1156 ± 21.9	918 ± 14.8			
Positive Control ⁵			114 ± 8.5		
Positive Control ⁶				491 ± 4.1	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 1.9
0.3	13 ± 5.0
1.0	14 ± 1.0
3.0	10 ± 2.0
10.0	10 ± 1.3
16.0	14 ± 0.9
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	550 ± 10.2
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 30% Rat S9
Vehicle Control ¹	155 ± 9.1	168 ± 9.2	194 ± 13.9	147 ± 11.9	154 ± 3.9
0.03					179 ± 3.3
0.1					176 ± 0.9
0.3	153 ± 9.3	157 ± 4.7	181 ± 3.0	216 ± 21.7	182 ± 8.3
1.0	162 ± 3.5	162 ± 9.5	191 ± 5.0	167 ± 23.8	134 ± 20.2
3.0	160 ± 8.7	175 ± 1.0	189 ± 19.8	220 ± 25.4	134 ± 25.4
10.0	108 ± 3.7	138 ± 14.4	161 ± 17.3	125 ± 22.4	
16.0	83 ± 15.6	112 ± 7.6 ^s	114 ± 3.9 ^s	89 ± 19.3	
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²					
Positive Control ³			559 ± 22.9		
Positive Control ⁵				479 ± 2.0	627 ± 20.0
Positive Control ⁷	581 ± 4.7	627 ± 12.9			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	168 ± 11.3	125 ± 12.9	128 ± 10.7
0.03			130 ± 1.9
0.1			141 ± 3.8
0.3	160 ± 14.2	153 ± 30.4	153 ± 11.0
1.0	183 ± 8.4	155 ± 17.9	145 ± 9.7
3.0	160 ± 7.3	156 ± 18.4	149 ± 4.3
10.0	130 ± 5.9	108 ± 7.6	
16.0	97 ± 9.7 ^s	87 ± 11.1	
Trial Summary	Negative	Equivocal	Negative
Positive Control ²	644 ± 19.1		
Positive Control ³		739 ± 24.3	
Positive Control ⁵			678 ± 16.5
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	29 ± 5.4	30 ± 5.9	21 ± 3.5	28 ± 2.4	25 ± 3.8
0.3	25 ± 4.9	24 ± 7.8	21 ± 1.7	32 ± 2.9	26 ± 4.7
1.0	24 ± 4.5	21 ± 2.0	26 ± 2.5	29 ± 4.8	30 ± 7.8
3.0	16 ± 0.9	28 ± 2.0	21 ± 7.1	21 ± 2.6	26 ± 3.2
10.0	14 ± 0.9	27 ± 3.1	18 ± 1.7	15 ± 1.3	29 ± 0.6
16.0		11 ± 1.5 ^s	12 ± 2.7 ^s		13 ± 3.9 ^s
33.0	Toxic			Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					670 ± 16.2
Positive Control ³			591 ± 11.6		
Positive Control ⁸	682 ± 50.2	383 ± 18.7			
Positive Control ⁵				557 ± 19.5	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	29 ± 5.1
0.3	28 ± 4.6
1.0	34 ± 3.6
3.0	26 ± 2.9
10.0	16 ± 0.0
16.0	
33.0	Toxic
Trial Summary	Negative
Positive Control ²	
Positive Control ³	680 ± 13.3
Positive Control ⁸	
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: 1.0 ug/Plate 2-Aminoanthracene
- 3: 2.0 ug/Plate 2-Aminoanthracene
- 4: 5.0 ug/Plate Sodium Azide
- 5: 5.0 ug/Plate 2-Aminoanthracene
- 6: 10.0 ug/Plate 2-Aminoanthracene
- 7: 50.0 ug/Plate 9-Aminoacridine
- 8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

** END OF REPORT **