

Experiment Number: 431394

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

G06: Ames Summary Data

Test Compound: **Ethylene thiourea (ETU)**

CAS Number: 96-45-7

Date Report Requested: 09/10/2018

Time Report Requested: 20:46:52

NTP Study Number:

431394

Study Result:

Weakly Positive

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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	130 ± 4.9	123 ± 6.3	132 ± 3.0	84 ± 5.8	119 ± 10.5
100.0	113 ± 8.2	97 ± 12.5	121 ± 3.7	110 ± 8.2	106 ± 7.0
333.0	124 ± 1.2	106 ± 8.5	121 ± 2.9	99 ± 5.9	115 ± 4.4
1000.0	116 ± 0.3	96 ± 4.7	118 ± 7.8	99 ± 4.0	126 ± 6.4
3333.0	108 ± 2.1	102 ± 11.7	119 ± 3.8	96 ± 5.5	118 ± 11.9
10000.0	121 ± 8.7	116 ± 4.4	120 ± 9.4	107 ± 12.2	117 ± 6.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	277 ± 18.4	336 ± 7.9			
Positive Control ³			688 ± 39.0	593 ± 196.2	1100 ± 18.7

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	84 ± 5.8
100.0	104 ± 1.3
333.0	110 ± 7.5
1000.0	119 ± 7.5
3333.0	115 ± 5.9
10000.0	134 ± 7.0
Trial Summary	Equivocal
Positive Control ²	
Positive Control ³	991 ± 7.8

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	27 ± 3.5	19 ± 4.0	20 ± 2.3	9 ± 3.2	12 ± 3.7
100.0	32 ± 2.3	29 ± 1.3		11 ± 1.2	13 ± 2.3
333.0	33 ± 7.5	30 ± 1.2		11 ± 2.3	18 ± 2.8
1000.0	37 ± 2.9	30 ± 7.4	26 ± 5.2	18 ± 2.0	16 ± 1.2
1666.0			33 ± 2.0		
3333.0	49 ± 2.5	42 ± 5.7	37 ± 5.2	24 ± 1.5	23 ± 3.8
6666.0			36 ± 2.8		
10000.0	57 ± 3.0	46 ± 3.5	53 ± 8.5	37 ± 4.9	37 ± 0.7
Trial Summary	Equivocal	Positive	Positive	Positive	Weakly Positive
Positive Control ²	315 ± 14.6	334 ± 14.3	288 ± 25.5		
Positive Control ⁴				260 ± 7.7	232 ± 8.0

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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 2.5	13 ± 2.7	8 ± 0.6	8 ± 0.7
100.0		15 ± 0.6	11 ± 3.1	
333.0		13 ± 2.6	7 ± 3.2	
1000.0	13 ± 2.5	9 ± 4.8	11 ± 2.0	17 ± 2.0
1666.0	16 ± 1.8			11 ± 1.2
3333.0	17 ± 0.9	16 ± 0.6	17 ± 4.0	20 ± 2.6
6666.0	17 ± 2.1			30 ± 2.0
10000.0	28 ± 3.5	20 ± 3.5	28 ± 6.2	27 ± 2.7
Trial Summary	Equivocal	Negative	Equivocal	Weakly Positive
Positive Control ²				
Positive Control ⁴	148 ± 14.7	357 ± 17.6	337 ± 24.8	270 ± 11.2

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	4 ± 0.7	5 ± 0.9	8 ± 0.9	12 ± 0.3	10 ± 2.7
100.0	5 ± 0.6	6 ± 0.7	12 ± 2.3	10 ± 2.1	5 ± 1.5
333.0	5 ± 0.9	8 ± 2.9	10 ± 2.6	10 ± 3.8	8 ± 3.2
1000.0	4 ± 1.8	4 ± 1.5	13 ± 2.9	15 ± 1.8	6 ± 0.9
3333.0	3 ± 1.2	5 ± 1.5	8 ± 2.3	11 ± 3.9	6 ± 0.9
10000.0	3 ± 0.3	7 ± 1.2	8 ± 2.2	12 ± 1.3	10 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			217 ± 5.3	121 ± 12.5	446 ± 16.1
Positive Control ⁵	110 ± 6.9	177 ± 7.0			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 2.3
100.0	8 ± 2.6
333.0	11 ± 3.3
1000.0	11 ± 1.8
3333.0	5 ± 1.5
10000.0	6 ± 0.7
Trial Summary	Negative
Positive Control ⁴	248 ± 2.3
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% Hamster S9
Vehicle Control ¹	15 ± 1.5	13 ± 0.6	33 ± 2.7	36 ± 1.5	24 ± 3.0
100.0	22 ± 1.8	11 ± 2.2	30 ± 0.9	38 ± 2.9	28 ± 1.5
333.0	16 ± 1.2	18 ± 0.9	28 ± 2.0	47 ± 2.7	27 ± 2.0
1000.0	13 ± 3.3	16 ± 2.2	33 ± 4.7	39 ± 3.5	27 ± 2.3
3333.0	13 ± 2.5	13 ± 3.0	24 ± 2.3	36 ± 4.9	32 ± 3.0
10000.0	18 ± 1.5	17 ± 5.2	30 ± 0.9	39 ± 3.9	22 ± 1.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			462 ± 37.8	236 ± 16.8	926 ± 12.5
Positive Control ⁶	654 ± 54.9	693 ± 16.6			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	30 ± 0.9
100.0	28 ± 1.5
333.0	29 ± 1.2
1000.0	34 ± 4.8
3333.0	28 ± 1.9
10000.0	33 ± 3.5
Trial Summary	Negative
Positive Control ³	858 ± 48.1
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 Sodium Azide
- 3: 1.0 ug/Plate 2-Aminoanthracene
- 4: 2.5 ug/Plate 2-Aminoanthracene
- 5: 50.0 ug/Plate 9-Aminoacridine
- 6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****