

Experiment Number: **123790**

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

G06: Ames Summary Data

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

CAS Number: **96-45-7**

Date Report Requested: **09/12/2018**

Time Report Requested: **02:29:35**

NTP Study Number:

123790

Study Result:

Negative

Experiment Number: 123790

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Ethylene thiourea (ETU)

CAS Number: 96-45-7

Date Report Requested: 09/12/2018

Time Report Requested: 02:29:35

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	133 ± 1.5	126 ± 4.1	132 ± 8.7	144 ± 9.9	218 ± 10.2
1.0	125 ± 7.1	118 ± 6.6	146 ± 32.3	167 ± 6.9	214 ± 4.4
3.3	138 ± 6.2	130 ± 2.9	228 ± 9.6	171 ± 21.7	222 ± 2.9
10.0	124 ± 6.4	125 ± 4.6	239 ± 20.3	173 ± 23.7	169 ± 6.4
33.0	128 ± 5.9	124 ± 1.8	219 ± 3.5	173 ± 14.7	179 ± 15.0
100.0	120 ± 4.3	119 ± 3.6	195 ± 17.6	154 ± 12.9	200 ± 14.0
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ²			509 ± 35.9	469 ± 22.9	870 ± 53.1
Positive Control ³	481 ± 16.7	445 ± 25.7			

Experiment Number: 123790

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Ethylene thiourea (ETU)

CAS Number: 96-45-7

Date Report Requested: 09/12/2018

Time Report Requested: 02:29:35

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	183 ± 17.7
1.0	158 ± 16.5
3.3	178 ± 8.5
10.0	159 ± 8.7
33.0	152 ± 0.9
100.0	156 ± 6.5
Trial Summary	Negative
Positive Control ²	947 ± 46.2
Positive Control ³	

Experiment Number: 123790

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Ethylene thiourea (ETU)

CAS Number: 96-45-7

Date Report Requested: 09/12/2018

Time Report Requested: 02:29:35

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	14 ± 0.7	14 ± 0.6	21 ± 1.7	22 ± 2.2	25 ± 1.2
1.0	13 ± 0.7	11 ± 0.9	29 ± 2.9	20 ± 2.4	22 ± 3.2
3.3	14 ± 2.1	18 ± 2.0	28 ± 1.7	22 ± 1.0	23 ± 3.6
10.0	18 ± 2.1	18 ± 2.0	33 ± 2.9	21 ± 2.1	25 ± 0.9
33.0	17 ± 2.1	14 ± 1.7	34 ± 3.8	21 ± 2.7	32 ± 4.9
100.0	17 ± 0.9	16 ± 1.0	35 ± 3.7	20 ± 3.7	34 ± 6.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			37 ± 2.9	39 ± 7.1	46 ± 2.3
Positive Control ³	745 ± 12.5	584 ± 106.8			

Experiment Number: 123790

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Ethylene thiourea (ETU)

CAS Number: 96-45-7

Date Report Requested: 09/12/2018

Time Report Requested: 02:29:35

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	24 ± 0.7
1.0	22 ± 4.4
3.3	23 ± 3.5
10.0	23 ± 3.8
33.0	23 ± 4.0
100.0	24 ± 4.4
Trial Summary	Negative
Positive Control ²	66 ± 15.0
Positive Control ³	

Experiment Number: 123790

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Ethylene thiourea (ETU)

CAS Number: 96-45-7

Date Report Requested: 09/12/2018

Time Report Requested: 02:29:35

Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	8 ± 0.3	7 ± 0.6	9 ± 0.7	7 ± 1.5	12 ± 2.8
1.0	3 ± 1.8	3 ± 0.6	8 ± 3.1	7 ± 0.7	9 ± 0.6
3.3	9 ± 0.6	5 ± 1.8	10 ± 0.9	10 ± 1.5	12 ± 0.6
10.0	5 ± 1.5	4 ± 0.0	14 ± 2.4	11 ± 0.3	9 ± 0.7
33.0	5 ± 0.9	4 ± 1.5	9 ± 0.9	6 ± 0.6	14 ± 2.3
100.0	5 ± 0.9	5 ± 2.1	10 ± 1.5	8 ± 0.3	10 ± 1.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			20 ± 3.3	38 ± 3.5	52 ± 13.9
Positive Control ⁴	186 ± 34.2	187 ± 30.3			

Experiment Number: 123790

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Ethylene thiourea (ETU)

CAS Number: 96-45-7

Date Report Requested: 09/12/2018

Time Report Requested: 02:29:35

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 1.7
1.0	8 ± 1.2
3.3	8 ± 1.0
10.0	6 ± 1.2
33.0	7 ± 2.0
100.0	8 ± 0.3
Trial Summary	Negative
Positive Control ²	75 ± 5.2
Positive Control ⁴	

Experiment Number: 123790

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Ethylene thiourea (ETU)

CAS Number: 96-45-7

Date Report Requested: 09/12/2018

Time Report Requested: 02:29:35

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	16 ± 1.7	15 ± 0.3	53 ± 20.4	27 ± 4.3	40 ± 8.1
1.0	11 ± 5.0	10 ± 2.5	21 ± 5.8	17 ± 3.0	28 ± 10.0
3.3	23 ± 0.7	16 ± 3.3	30 ± 3.8	30 ± 3.9	32 ± 0.9
10.0	22 ± 0.7	18 ± 1.7	31 ± 2.6	30 ± 2.6	39 ± 1.9
33.0	18 ± 6.1	15 ± 0.9	39 ± 2.9	31 ± 0.7	40 ± 0.3
100.0	18 ± 0.7	19 ± 0.9	33 ± 5.3	35 ± 4.1	35 ± 2.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			264 ± 11.9	350 ± 40.6	704 ± 80.8
Positive Control ⁵	424 ± 12.2	280 ± 23.2			

Experiment Number: 123790

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Ethylene thiourea (ETU)

CAS Number: 96-45-7

Date Report Requested: 09/12/2018

Time Report Requested: 02:29:35

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	34 ± 0.9
1.0	34 ± 4.5
3.3	32 ± 0.9
10.0	42 ± 2.7
33.0	37 ± 3.3
100.0	40 ± 2.4
Trial Summary	Negative
Positive Control ²	778 ± 18.0
Positive Control ⁵	

Experiment Number: **123790**

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

G06: Ames Summary Data

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

CAS Number: **96-45-7**

Date Report Requested: **09/12/2018**

Time Report Requested: **02:29:35**

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: Water

2: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****