Experiment Number: **013090**

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

G06: Ames Summary Data

Test Compound: **N,N'-Diethylthiourea**

CAS Number: **105-55-5**

Date Report Requested: **09/14/2018**

Time Report Requested: **06:44:53**

NTP Study Number: 013090

Study Result: Negative

Experiment Number: **013090**

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

G06: Ames Summary Data

Test Compound: **N,N'-Diethylthiourea**

CAS Number: **105-55-5**

Date Report Requested: **09/14/2018**

Time Report Requested: **06:44:53**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	157 ± 5.8	164 ± 0.3	151 ± 4.7	143 ± 5.7	155 ± 1.9
100.0	156 ± 10.8	161 ± 7.4	149 ± 8.4	136 ± 4.0	166 ± 11.3
333.0	156 ± 12.9	154 ± 7.8	159 ± 4.0	109 ± 10.5	138 ± 6.6
1000.0	155 ± 9.8	147 ± 9.6	146 ± 5.5	151 ± 0.3	150 ± 3.2
3333.0	162 ± 4.0	130 ± 13.0	132 ± 8.4	150 ± 6.2	150 ± 1.5
6667.0	114 ± 13.7[s]	71 ± 5.9[s]			
10000.0			141 ± 0.6	129 ± 4.2	137 ± 5.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					1384 ± 68.2
Positive Control[3]			1306 ± 34.7	1064 ± 33.5	
Positive Control[4]	1196 ± 39.1	1152 ± 42.8			

Experiment Number: **013090**

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

G06: Ames Summary Data

Test Compound: **N,N'-Diethylthiourea**

CAS Number: **105-55-5**

Date Report Requested: **09/14/2018**

Time Report Requested: **06:44:53**

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	114 ± 6.2
100.0	107 ± 11.5
333.0	107 ± 6.8
1000.0	104 ± 6.4
3333.0	126 ± 7.6
6667.0	
10000.0	99 ± 5.5
Trial Summary	Negative
Positive Control[2]	941 ± 22.2
Positive Control[3]	
Positive Control[4]	

Experiment Number: **013090**

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

G06: Ames Summary Data

Test Compound: **N,N'-Diethylthiourea**

CAS Number: **105-55-5**

Date Report Requested: **09/14/2018**

Time Report Requested: **06:44:53**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control[1]	47 ± 3.9	39 ± 6.1	30 ± 1.2	15 ± 2.7	20 ± 5.4
100.0	34 ± 3.0	36 ± 2.6	36 ± 4.2	13 ± 1.2	16 ± 0.9
333.0	31 ± 5.7	37 ± 0.6	29 ± 3.2	12 ± 2.1	15 ± 1.2
1000.0	26 ± 2.6	32 ± 0.9	27 ± 4.0	14 ± 2.0	16 ± 1.2
3333.0	25 ± 4.5	31 ± 2.6	26 ± 1.5	13 ± 2.0	13 ± 2.1
6667.0	13 ± 2.1[s]	Toxic	12 ± 2.5[s]		
10000.0				9 ± 0.6	12 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					
Positive Control[3]				71 ± 0.9	101 ± 9.8
Positive Control[4]	885 ± 57.4	888 ± 35.4	877 ± 47.8		

Experiment Number: **013090**

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

G06: Ames Summary Data

Test Compound: **N,N'-Diethylthiourea**

CAS Number: **105-55-5**

Date Report Requested: **09/14/2018**

Time Report Requested: **06:44:53**

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control[1]	14 ± 3.5	15 ± 2.3
100.0	11 ± 1.2	10 ± 0.3
333.0	12 ± 2.1	12 ± 0.7
1000.0	12 ± 2.8	15 ± 2.3
3333.0	11 ± 1.8	15 ± 1.5
6667.0		
10000.0	12 ± 0.9	13 ± 2.2
Trial Summary	Negative	Negative
Positive Control[2]	81 ± 6.7	80 ± 1.5
Positive Control[3]		
Positive Control[4]		

Experiment Number: **013090**

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

G06: Ames Summary Data

Test Compound: **N,N'-Diethylthiourea**

CAS Number: **105-55-5**

Date Report Requested: **09/14/2018**

Time Report Requested: **06:44:53**

Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	7 ± 2.3	8 ± 1.5	9 ± 1.3	10 ± 1.9	12 ± 0.9
100.0	8 ± 0.3	6 ± 1.9	6 ± 1.7	7 ± 0.9	9 ± 0.3
333.0	7 ± 2.2	7 ± 2.0	6 ± 0.3	6 ± 1.2	9 ± 2.3
1000.0	7 ± 2.0	6 ± 0.7	9 ± 0.6	7 ± 1.0	7 ± 1.0
3333.0	8 ± 2.6	7 ± 0.9	8 ± 0.6	9 ± 1.3	11 ± 2.7
6667.0	4 ± 1.2[s]	6 ± 2.3[s]			
10000.0			6 ± 1.3	7 ± 0.9	5 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					103 ± 1.9
Positive Control[3]			93 ± 5.4	87 ± 5.0	
Positive Control[5]	300 ± 65.3	460 ± 26.4			

Experiment Number: **013090**

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

G06: Ames Summary Data

Test Compound: **N,N'-Diethylthiourea**

CAS Number: **105-55-5**

Date Report Requested: **09/14/2018**

Time Report Requested: **06:44:53**

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	10 ± 0.9
100.0	7 ± 2.6
333.0	9 ± 1.0
1000.0	11 ± 1.7
3333.0	7 ± 0.9
6667.0	
10000.0	10 ± 0.7
Trial Summary	Negative
Positive Control[2]	74 ± 12.4
Positive Control[3]	
Positive Control[5]	

Experiment Number: **013090**

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

G06: Ames Summary Data

Test Compound: **N,N'-Diethylthiourea**

CAS Number: **105-55-5**

Date Report Requested: **09/14/2018**

Time Report Requested: **06:44:53**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	18 ± 1.2	23 ± 0.9	21 ± 5.9	32 ± 1.8	33 ± 2.1
100.0	21 ± 3.6	18 ± 1.2	30 ± 2.4	28 ± 4.3	31 ± 2.2
333.0	15 ± 2.0	23 ± 2.2	33 ± 2.5	25 ± 3.1	33 ± 1.5
1000.0	18 ± 2.0	19 ± 3.3	30 ± 3.2	32 ± 2.6	25 ± 1.5
3333.0	14 ± 2.8	19 ± 0.6	24 ± 0.6	27 ± 3.8	37 ± 3.2
6667.0	20 ± 1.5[s]	17 ± 0.3			
10000.0			25 ± 1.0	23 ± 1.9	22 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					1154 ± 29.3
Positive Control[3]			1039 ± 23.2	720 ± 25.2	
Positive Control[6]	1262 ± 42.1	1554 ± 80.4			

Experiment Number: **013090**

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

G06: Ames Summary Data

Test Compound: **N,N'-Diethylthiourea**

CAS Number: **105-55-5**

Date Report Requested: **09/14/2018**

Time Report Requested: **06:44:53**

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	27 ± 0.9
100.0	27 ± 1.3
333.0	30 ± 0.6
1000.0	28 ± 1.2
3333.0	27 ± 2.9
6667.0	
10000.0	26 ± 3.5
Trial Summary	Negative
Positive Control[2]	684 ± 36.8
Positive Control[3]	
Positive Control[6]	

LEGEND

Values given as Mean or Mean ± 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: 0.75 ug/Plate 2-Aminoanthracene
3: 1.5 ug/Plate 2-Aminoanthracene
4: 2.5 ug/Plate Sodium Azide
5: 80.0 ug/Plate 9-Aminoacridine
6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine
s: Slight Toxicity

** END OF REPORT **