Experiment Number: **959958**

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

G06: Ames Summary Data

Test Compound: **2,5-Dithiobiurea**

CAS Number: **142-46-1**

Date Report Requested: **09/17/2018**

Time Report Requested: **17:57:36**

NTP Study Number: 959958

Study Result: Negative

Experiment Number: **959958**

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

G06: Ames Summary Data

Test Compound: **2,5-Dithiobiurea**

CAS Number: **142-46-1**

Date Report Requested: **09/17/2018**

Time Report Requested: **17:57:36**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	75 ± 16.3	70 ± 7.1	97 ± 14.1	77 ± 8.2	84 ± 2.4
1.0		77 ± 9.6			
3.3		68 ± 4.9			
10.0	51 ± 4.1	60 ± 1.5		93 ± 12.1	
33.0	41 ± 7.2	54 ± 7.2		83 ± 5.2	
100.0	Toxic	Toxic	59 ± 7.3	90 ± 6.4	99 ± 7.5
333.0	Toxic		75 ± 17.3	98 ± 11.9	91 ± 3.4
1000.0	Toxic		98 ± 8.7	90 ± 9.0	86 ± 9.2
3333.0			Toxic		Toxic
10000.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			1245 ± 78.5	1288 ± 105.2	1676 ± 94.6
Positive Control[3]	347 ± 22.6	824 ± 107.9			

Experiment Number: **959958**

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

G06: Ames Summary Data

Test Compound: **2,5-Dithiobiurea**

CAS Number: **142-46-1**

Date Report Requested: **09/17/2018**

Time Report Requested: **17:57:36**

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	73 ± 2.6
1.0	
3.3	
10.0	106 ± 9.1
33.0	101 ± 1.8
100.0	93 ± 8.4
333.0	93 ± 6.0
1000.0	86 ± 2.3
3333.0	
10000.0	
Trial Summary	Negative
Positive Control[2]	1716 ± 58.6
Positive Control[3]	

Experiment Number: **959958**

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

G06: Ames Summary Data

Test Compound: **2,5-Dithiobiurea**

CAS Number: **142-46-1**

Date Report Requested: **09/17/2018**

Time Report Requested: **17:57:36**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	3 ± 0.6	4 ± 0.9	5 ± 0.3	5 ± 1.5	5 ± 2.3
1.0				3 ± 0.6	
3.3		3 ± 1.2		4 ± 1.2	
10.0	1 ± 0.3	2 ± 1.5		1 ± 0.3	
33.0	1 ± 0.3	2 ± 0.9		6 ± 0.9	
100.0	0 ± 0.0	Toxic	1 ± 1.0	6 ± 2.0	1 ± 0.7
333.0	5 ± 1.0	Toxic	0 ± 0.0		0 ± 0.3
1000.0	Toxic		0 ± 0.0		2 ± 0.7
3333.0			Toxic		0 ± 0.0
10000.0			0 ± 0.0		0 ± 0.0
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control[2]			48 ± 12.8	47 ± 2.0	117 ± 41.5
Positive Control[3]	140 ± 30.1	402 ± 8.2			

Experiment Number: **959958**

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

G06: Ames Summary Data

Test Compound: **2,5-Dithiobiurea**

CAS Number: **142-46-1**

Date Report Requested: **09/17/2018**

Time Report Requested: **17:57:36**

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	3 ± 0.3
1.0	
3.3	
10.0	3 ± 0.6
33.0	3 ± 1.7
100.0	4 ± 1.7
333.0	3 ± 1.5
1000.0	3 ± 0.9
3333.0	
10000.0	
Trial Summary	Negative
Positive Control[2]	57 ± 2.4
Positive Control[3]	

Experiment Number: **959958**

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

G06: Ames Summary Data

Test Compound: **2,5-Dithiobiurea**

CAS Number: **142-46-1**

Date Report Requested: **09/17/2018**

Time Report Requested: **17:57:36**

Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	1 ± 0.3	3 ± 0.9	3 ± 0.9	4 ± 0.6	3 ± 0.6
1.0		4 ± 0.3		5 ± 0.9	
3.3		1 ± 0.6		6 ± 1.3	
10.0	0 ± 0.3	3 ± 1.0		6 ± 0.7	
33.0	1 ± 0.6	1 ± 0.3		6 ± 1.7	
100.0	Toxic	1 ± 0.3	0 ± 0.0	4 ± 0.6	0 ± 0.0
333.0	Toxic		1 ± 0.7		0 ± 0.0
1000.0	0 ± 0.0		0 ± 0.0		0 ± 0.3
3333.0			Toxic		Toxic
10000.0			Toxic		0 ± 0.0
Trial Summary	Negative	Negative	Equivocal	Negative	Equivocal
Positive Control[2]			58 ± 16.5	55 ± 11.9	129 ± 46.0
Positive Control[4]	52 ± 4.5	48 ± 4.9			

Experiment Number: **959958**

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

G06: Ames Summary Data

Test Compound: **2,5-Dithiobiurea**

CAS Number: **142-46-1**

Date Report Requested: **09/17/2018**

Time Report Requested: **17:57:36**

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	6 ± 0.7
1.0	4 ± 0.9
3.3	4 ± 0.3
10.0	5 ± 0.9
33.0	4 ± 0.6
100.0	5 ± 0.6
333.0	
1000.0	
3333.0	
10000.0	
Trial Summary	Negative
Positive Control[2]	86 ± 15.8
Positive Control[4]	

Experiment Number: **959958**

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

G06: Ames Summary Data

Test Compound: **2,5-Dithiobiurea**

CAS Number: **142-46-1**

Date Report Requested: **09/17/2018**

Time Report Requested: **17:57:36**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	14 ± 2.3	10 ± 0.6	19 ± 1.3	17 ± 2.3	17 ± 3.8
1.0		15 ± 1.5			
3.3		12 ± 2.6			
10.0	3 ± 0.7	12 ± 2.6		22 ± 0.3	
33.0	3 ± 0.9	13 ± 1.7		14 ± 2.3	
100.0	Toxic	12 ± 3.2	9 ± 0.7	15 ± 2.4	3 ± 2.2
333.0	Toxic		7 ± 0.7	12 ± 3.5	1 ± 0.3
1000.0	Toxic		1 ± 0.7	21 ± 1.2	1 ± 0.3
3333.0			2 ± 1.3		1 ± 0.9
10000.0			0 ± 0.0		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			619 ± 97.2	995 ± 35.7	1363 ± 25.5
Positive Control[5]	105 ± 6.7	224 ± 2.4			

Experiment Number: **959958**

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

G06: Ames Summary Data

Test Compound: **2,5-Dithiobiurea**

CAS Number: **142-46-1**

Date Report Requested: **09/17/2018**

Time Report Requested: **17:57:36**

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	20 ± 4.1
1.0	
3.3	
10.0	18 ± 3.5
33.0	15 ± 1.8
100.0	15 ± 1.2
333.0	13 ± 1.2
1000.0	20 ± 1.5
3333.0	
10000.0	
Trial Summary	Negative
Positive Control[2]	1268 ± 10.5
Positive Control[5]	

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: 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 **