Experiment Number: **855048**

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

G06: Ames Summary Data

Test Compound: **2-Amino-4-thiazoline-4-carboxylic acid**

CAS Number: **2150-55-2**

Date Report Requested: **09/16/2018**

Time Report Requested: **12:28:50**

NTP Study Number: 855048

Study Result: Negative

Experiment Number: **855048**

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

G06: Ames Summary Data

Test Compound: **2-Amino-4-thiazoline-4-carboxylic acid**

CAS Number: **2150-55-2**

Date Report Requested: **09/16/2018**

Time Report Requested: **12:28:50**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	141 ± 19.3	134 ± 8.2	168 ± 2.8	160 ± 5.0	164 ± 8.4
100.0	133 ± 11.4	130 ± 6.3	149 ± 3.5	152 ± 4.7	155 ± 10.9
333.0	127 ± 7.0	141 ± 12.7	167 ± 6.2	145 ± 5.2	146 ± 15.7
1000.0	140 ± 11.1	142 ± 5.7	153 ± 9.0	149 ± 11.1	174 ± 2.6
3333.0	143 ± 6.2	141 ± 4.4	154 ± 8.6	166 ± 13.9	170 ± 5.0
10000.0	125 ± 12.2	152 ± 12.5	172 ± 6.5	155 ± 8.5	159 ± 4.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					746 ± 15.9
Positive Control[3]			684 ± 19.0		
Positive Control[4]	440 ± 14.7	451 ± 24.9			
Positive Control[5]				454 ± 73.8	

Experiment Number: **855048**

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

G06: Ames Summary Data

Test Compound: **2-Amino-4-thiazoline-4-carboxylic acid**

CAS Number: **2150-55-2**

Date Report Requested: **09/16/2018**

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	160 ± 6.2
100.0	160 ± 9.9
333.0	149 ± 3.6
1000.0	148 ± 4.7
3333.0	130 ± 7.0
10000.0	149 ± 7.4
Trial Summary	Negative
Positive Control[2]	
Positive Control[3]	479 ± 10.7
Positive Control[4]	
Positive Control[5]	

Experiment Number: **855048**

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

G06: Ames Summary Data

Test Compound: **2-Amino-4-thiazoline-4-carboxylic acid**

CAS Number: **2150-55-2**

Date Report Requested: **09/16/2018**

Time Report Requested: **12:28:50**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	29 ± 1.2	18 ± 1.7	9 ± 1.8	15 ± 1.2	9 ± 0.3
100.0	28 ± 0.7	21 ± 1.7	7 ± 0.7	20 ± 3.7	12 ± 0.3
333.0	27 ± 3.5	21 ± 1.7	10 ± 1.2	14 ± 2.7	12 ± 1.5
1000.0	24 ± 3.3	24 ± 2.0	10 ± 1.0	10 ± 0.6	6 ± 0.3
3333.0	27 ± 3.5	23 ± 3.4	8 ± 1.5	13 ± 3.4	8 ± 1.2
10000.0	31 ± 2.7	25 ± 3.2	10 ± 1.5	19 ± 1.3	8 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[3]					185 ± 18.9
Positive Control[4]	566 ± 30.8	435 ± 14.5			
Positive Control[6]			179 ± 7.7		
Positive Control[7]				182 ± 10.0	

Experiment Number: **855048**

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

G06: Ames Summary Data

Test Compound: **2-Amino-4-thiazoline-4-carboxylic acid**

CAS Number: **2150-55-2**

Date Report Requested: **09/16/2018**

Time Report Requested: **12:28:50**

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	13 ± 2.2
100.0	13 ± 2.3
333.0	14 ± 1.9
1000.0	9 ± 3.1
3333.0	13 ± 0.6
10000.0	14 ± 0.9
Trial Summary	Negative
Positive Control[3]	
Positive Control[4]	
Positive Control[6]	372 ± 14.3
Positive Control[7]	

Experiment Number: **855048**

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

G06: Ames Summary Data

Test Compound: **2-Amino-4-thiazoline-4-carboxylic acid**

CAS Number: **2150-55-2**

Date Report Requested: **09/16/2018**

Time Report Requested: **12:28:50**

Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	9 ± 2.1	5 ± 1.2	10 ± 1.3	16 ± 1.5	8 ± 0.3
100.0	11 ± 3.5	6 ± 1.3	8 ± 1.7	16 ± 2.1	8 ± 1.2
333.0	9 ± 2.7	9 ± 1.8	8 ± 0.9	12 ± 2.5	10 ± 1.8
1000.0	9 ± 1.3	8 ± 0.7	8 ± 2.8	14 ± 1.0	9 ± 1.5
3333.0	8 ± 0.7	7 ± 1.2	9 ± 1.3	16 ± 1.5	9 ± 2.0
10000.0	9 ± 1.8	8 ± 1.2	9 ± 1.3	12 ± 0.9	12 ± 2.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					66 ± 0.9
Positive Control[3]			52 ± 2.0		
Positive Control[6]				59 ± 1.5	
Positive Control[8]	381 ± 86.9	385 ± 5.5			

Experiment Number: **855048**

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

G06: Ames Summary Data

Test Compound: **2-Amino-4-thiazoline-4-carboxylic acid**

CAS Number: **2150-55-2**

Date Report Requested: **09/16/2018**

Time Report Requested: **12:28:50**

Strain: TA1537

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	9 ± 1.5
100.0	9 ± 1.9
333.0	9 ± 1.7
1000.0	11 ± 1.5
3333.0	9 ± 3.0
10000.0	10 ± 1.9
Trial Summary	Negative
Positive Control[2]	
Positive Control[3]	45 ± 2.0
Positive Control[6]	
Positive Control[8]	

Experiment Number: **855048**

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

G06: Ames Summary Data

Test Compound: **2-Amino-4-thiazoline-4-carboxylic acid**

CAS Number: **2150-55-2**

Date Report Requested: **09/16/2018**

Time Report Requested: **12:28:50**

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	145 ± 3.5	154 ± 15.7	159 ± 8.8	174 ± 18.8	171 ± 3.9
100.0	147 ± 6.7	135 ± 6.7	169 ± 2.7	177 ± 3.9	151 ± 13.0
333.0	173 ± 6.7	150 ± 10.8	189 ± 5.3	191 ± 9.3	158 ± 11.9
1000.0	188 ± 10.6	121 ± 9.2	185 ± 12.4	194 ± 13.9	178 ± 19.6
3333.0	180 ± 22.0	129 ± 9.0	202 ± 14.6	184 ± 30.2	184 ± 7.0
10000.0	141 ± 31.0	129 ± 11.9	212 ± 5.2	173 ± 9.7	184 ± 7.3
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control[2]					519 ± 23.0
Positive Control[3]			434 ± 24.3		
Positive Control[6]				493 ± 14.3	
Positive Control[8]	614 ± 11.7	652 ± 1.2			

Experiment Number: **855048**

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

G06: Ames Summary Data

Test Compound: **2-Amino-4-thiazoline-4-carboxylic acid**

CAS Number: **2150-55-2**

Date Report Requested: **09/16/2018**

Time Report Requested: **12:28:50**

Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	189 ± 14.3
100.0	170 ± 11.1
333.0	162 ± 14.6
1000.0	205 ± 9.5
3333.0	194 ± 8.0
10000.0	193 ± 13.9
Trial Summary	Negative
Positive Control[2]	
Positive Control[3]	394 ± 25.0
Positive Control[6]	
Positive Control[8]	

Experiment Number: **855048**

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

G06: Ames Summary Data

Test Compound: **2-Amino-4-thiazoline-4-carboxylic acid**

CAS Number: **2150-55-2**

Date Report Requested: **09/16/2018**

Time Report Requested: **12:28:50**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	21 ± 2.6	19 ± 1.3	36 ± 4.4	30 ± 2.0	20 ± 0.7
100.0	21 ± 4.4	16 ± 1.5	32 ± 2.4	34 ± 3.4	29 ± 2.1
333.0	23 ± 0.9	18 ± 0.6	29 ± 2.2	29 ± 0.6	25 ± 5.8
1000.0	19 ± 0.6	22 ± 1.3	36 ± 3.3	31 ± 2.3	27 ± 3.5
3333.0	26 ± 3.8	18 ± 1.5	32 ± 4.4	28 ± 1.3	28 ± 1.3
10000.0	19 ± 1.5	14 ± 2.7	30 ± 5.1	27 ± 0.7	33 ± 3.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					490 ± 13.2
Positive Control[3]			373 ± 15.2	112 ± 5.3	
Positive Control[9]	580 ± 42.2	412 ± 8.5			

Experiment Number: **855048**

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

G06: Ames Summary Data

Test Compound: **2-Amino-4-thiazoline-4-carboxylic acid**

CAS Number: **2150-55-2**

Date Report Requested: **09/16/2018**

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	38 ± 2.2
100.0	35 ± 1.0
333.0	33 ± 1.7
1000.0	37 ± 2.3
3333.0	31 ± 0.3
10000.0	36 ± 4.6
Trial Summary	Negative
Positive Control[2]	
Positive Control[3]	284 ± 5.2
Positive Control[9]	

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: Water
2: 0.5 ug/Plate 2-Aminoanthracene
3: 1.0 ug/Plate 2-Aminoanthracene
4: 1.0 ug/Plate Sodium Azide
5: 2.0 ug/Plate 2-Aminoanthracene
6: 2.5 ug/Plate 2-Aminoanthracene
7: 5.0 ug/Plate 2-Aminoanthracene
8: 50.0 ug/Plate 9-Aminoacridine
9: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **