

Experiment Number: 323214

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

G06: Ames Summary Data

Test Compound: **Thiocarbanilide**

CAS Number: **102-08-9**

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

Time Report Requested: **10:18:51**

NTP Study Number:

323214

Study Result:

Negative

Experiment Number: 323214

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Mutagenicity

G06: Ames Summary Data

Test Compound: Thiocarbanilide

CAS Number: 102-08-9

Date Report Requested: 09/12/2018

Time Report Requested: 10:18:51

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	Without S9
Vehicle Control ¹	133 ± 3.6	88 ± 7.4	104 ± 8.7	119 ± 9.2	126 ± 11.3
16.0	143 ± 9.5	96 ± 13.1			
52.0	141 ± 14.5	87 ± 2.7			
62.5			89 ± 7.2	119 ± 5.6	126 ± 11.0
125.0			89 ± 4.1	116 ± 7.6	108 ± 8.1
156.0	132 ± 7.3	98 ± 11.0			
250.0			103 ± 7.5	120 ± 7.6	139 ± 4.1
500.0	154 ± 5.8	120 ± 4.0	90 ± 5.4 ^s	114 ± 4.6	134 ± 6.9 ^s
750.0			101 ± 8.1 ^s	118 ± 5.6	152 ± 5.6 ^s
1000.0			67 ± 11.0 ^s	109 ± 3.5	126 ± 11.9 ^s
1250.0			36 ± 7.5 ^s	110 ± 9.5	79 ± 15.4 ^s
1500.0	92 ± 6.8 ^s	42 ± 7.3 ^p	Toxic	71 ± 30.3 ^s	Toxic
2000.0			Toxic	66 ± 6.7 ^s	Toxic
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control ²					
Positive Control ³					
Positive Control ⁴					
Positive Control ⁵	2230 ± 37.8	1265 ± 21.3	2387 ± 103.4		2387 ± 103.4
Positive Control ⁶				996 ± 38.7	

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	146 ± 2.4	128 ± 11.2	60 ± 2.6	91 ± 2.3	101 ± 1.2
16.0		126 ± 13.1	61 ± 5.4		
52.0		116 ± 22.1	76 ± 4.2		
62.5	140 ± 3.3			91 ± 9.1	88 ± 6.8
125.0	141 ± 3.8			87 ± 9.6	94 ± 4.2
156.0		154 ± 6.1	81 ± 7.9		
250.0	148 ± 8.7			87 ± 2.9	81 ± 4.2
500.0	148 ± 1.7	144 ± 7.0	66 ± 4.0	80 ± 6.6	83 ± 3.4
750.0	155 ± 1.7			92 ± 0.9	80 ± 2.7
1000.0	144 ± 5.5			77 ± 11.0	83 ± 2.1
1250.0	155 ± 11.5			73 ± 5.2	76 ± 5.2
1500.0	109 ± 47.0 ^s	164 ± 6.4	68 ± 3.8 ^p	53 ± 23.4	53 ± 23.5
2000.0	116 ± 11.5 ^s			79 ± 1.9	79 ± 1.9
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				1128 ± 38.5	
Positive Control ⁴		1919 ± 70.3	1933 ± 51.4		1400 ± 61.8
Positive Control ⁵					
Positive Control ⁶	996 ± 38.7				

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	107 ± 4.8	97 ± 0.9	122 ± 15.5	70 ± 2.2	101 ± 0.6
16.0			115 ± 15.8	65 ± 5.5	
52.0			143 ± 8.0	60 ± 6.0	
62.5	93 ± 7.6	95 ± 8.3			86 ± 7.3
125.0	97 ± 3.8	92 ± 8.0			87 ± 2.0
156.0			130 ± 19.5	73 ± 6.0	
250.0	86 ± 4.5	96 ± 2.5			82 ± 2.9
500.0	88 ± 3.3	86 ± 6.6	123 ± 25.4	55 ± 1.3	75 ± 4.1
750.0	87 ± 1.2	95 ± 1.2			64 ± 3.7
1000.0	90 ± 4.3	85 ± 8.7			70 ± 2.7
1250.0	79 ± 6.3	84 ± 2.8			64 ± 4.6
1500.0	55 ± 24.3	56 ± 24.2	142 ± 4.9	33 ± 3.1 ^p	43 ± 19.4
2000.0	66 ± 2.0	80 ± 2.5			62 ± 4.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			2761 ± 40.1	2873 ± 16.7	
Positive Control ³		1128 ± 38.5			3496 ± 22.4
Positive Control ⁴	1400 ± 61.8				
Positive Control ⁵					
Positive Control ⁶					

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Test Compound: Thiocarbanilide

CAS Number: 102-08-9

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	96 ± 2.0	104 ± 2.7	114 ± 3.6
16.0			
52.0			
62.5	80 ± 5.0	84 ± 5.2	91 ± 5.5
125.0	71 ± 5.4	76 ± 5.2	94 ± 1.2
156.0			
250.0	79 ± 1.9	84 ± 2.3	87 ± 2.0
500.0	74 ± 7.6	78 ± 6.2	82 ± 1.8
750.0	67 ± 0.3	75 ± 2.8	74 ± 4.7
1000.0	59 ± 4.9	66 ± 4.2	74 ± 2.6
1250.0	60 ± 3.9	67 ± 2.9	72 ± 3.3
1500.0	38 ± 17.3	41 ± 17.4	44 ± 18.7
2000.0	60 ± 1.8	72 ± 2.9	66 ± 3.9
Trial Summary	Negative	Negative	Negative
Positive Control ²	2103 ± 93.9	2103 ± 93.9	
Positive Control ³			3496 ± 22.4
Positive Control ⁴			
Positive Control ⁵			
Positive Control ⁶			

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Test Compound: Thiocarbanilide

CAS Number: 102-08-9

Date Report Requested: 09/12/2018

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	Without S9
Vehicle Control ¹	9 ± 0.3	6 ± 2.5	27 ± 1.9	26 ± 3.2	49 ± 3.7
16.0	11 ± 1.5	6 ± 2.0			
52.0	10 ± 1.2	6 ± 2.6			
62.5			29 ± 2.3	21 ± 3.7	45 ± 3.4
125.0			32 ± 2.7	28 ± 1.7	56 ± 1.5
156.0	14 ± 1.0	2 ± 0.3			
250.0			30 ± 2.3	22 ± 8.1	54 ± 3.2
500.0	13 ± 2.5	2 ± 1.0	60 ± 22.5	19 ± 3.7	98 ± 33.5
750.0			40 ± 0.3	12 ± 0.9	63 ± 1.7
1000.0			31 ± 2.2	Toxic	59 ± 4.9
1250.0			33 ± 4.1 ^s	Toxic	62 ± 3.9 ^s
1500.0	2 ± 1.2	Toxic	17 ± 8.0 ^s	Toxic	37 ± 16.0 ^s
2000.0			26 ± 3.2 ^s	Toxic	54 ± 4.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³					
Positive Control ⁴					
Positive Control ⁵	1085 ± 2.3	1084 ± 25.9		1537 ± 18.3	
Positive Control ⁶			1226 ± 34.5		1226 ± 34.5

Experiment Number: 323214

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Thiocarbanilide

CAS Number: 102-08-9

Date Report Requested: 09/12/2018

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	44 ± 2.6	9 ± 0.9	8 ± 0.9	11 ± 2.2	8 ± 1.3
16.0		9 ± 1.2	6 ± 1.9		
52.0		7 ± 1.0	8 ± 2.0		
62.5	39 ± 4.0			10 ± 1.5	9 ± 1.2
125.0	46 ± 2.7			10 ± 2.7	10 ± 1.3
156.0		7 ± 1.8	6 ± 0.9		
250.0	45 ± 12.2			9 ± 3.2	11 ± 2.9
500.0	46 ± 3.4	16 ± 4.6	6 ± 1.8	8 ± 1.3	9 ± 1.2
750.0	35 ± 0.7			8 ± 2.4	8 ± 3.2
1000.0	Toxic			8 ± 0.0	8 ± 2.0
1250.0	Toxic			8 ± 1.5	9 ± 0.7
1500.0	Toxic	5 ± 2.2	5 ± 1.9 ^p	5 ± 2.3	6 ± 3.3
2000.0	Toxic			7 ± 2.8	8 ± 1.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				89 ± 3.5	
Positive Control ⁴		111 ± 13.8	123 ± 16.5		82 ± 2.7
Positive Control ⁵	1537 ± 18.3				
Positive Control ⁶					

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Test Compound: Thiocarbanilide

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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	15 ± 3.2	13 ± 0.9	9 ± 0.9	7 ± 0.3	7 ± 2.1
16.0			7 ± 3.1	6 ± 1.2	
52.0			6 ± 0.6	9 ± 1.2	
62.5	13 ± 0.7	12 ± 1.7			6 ± 1.5
125.0	12 ± 2.8	14 ± 2.7			7 ± 2.2
156.0			11 ± 0.3	8 ± 1.5	
250.0	16 ± 3.8	15 ± 3.2			9 ± 1.5
500.0	10 ± 2.1	15 ± 1.2	7 ± 1.5	9 ± 0.6	11 ± 3.4
750.0	11 ± 1.2	13 ± 1.8			6 ± 0.6
1000.0	10 ± 1.0	11 ± 0.9			8 ± 2.0
1250.0	10 ± 1.7	14 ± 0.6			8 ± 2.0
1500.0	5 ± 2.2	10 ± 4.9	5 ± 1.8	5 ± 1.5 ^p	6 ± 2.4
2000.0	9 ± 3.5	12 ± 1.9			8 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			175 ± 13.3	160 ± 11.1	
Positive Control ³	89 ± 3.5				333 ± 24.0
Positive Control ⁴		82 ± 2.7			
Positive Control ⁵					
Positive Control ⁶					

Experiment Number: 323214

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Thiocarbanilide

CAS Number: 102-08-9

Date Report Requested: 09/12/2018

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	9 ± 2.3	10 ± 2.8	15 ± 3.1
16.0			
52.0			
62.5	7 ± 1.5	12 ± 2.0	14 ± 1.7
125.0	8 ± 1.5	12 ± 3.2	14 ± 2.1
156.0			
250.0	9 ± 1.5	14 ± 0.3	13 ± 2.2
500.0	8 ± 1.9	17 ± 2.3	14 ± 0.6
750.0	7 ± 0.6	13 ± 2.7	15 ± 0.9
1000.0	8 ± 0.9	12 ± 1.2	13 ± 1.2
1250.0	9 ± 3.5	12 ± 3.2	12 ± 3.7
1500.0	8 ± 4.2	8 ± 3.3	11 ± 4.8
2000.0	9 ± 2.0	12 ± 2.3	14 ± 2.8
Trial Summary	Negative	Negative	Negative
Positive Control ²	126 ± 9.5		126 ± 9.5
Positive Control ³		333 ± 24.0	
Positive Control ⁴			
Positive Control ⁵			
Positive Control ⁶			

Experiment Number: 323214

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Thiocarbanilide

CAS Number: 102-08-9

Date Report Requested: 09/12/2018

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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	6 ± 0.3	12 ± 2.1	6 ± 2.3	6 ± 1.2	6 ± 0.7
16.0	4 ± 1.2	10 ± 0.9	5 ± 0.9	5 ± 1.8	7 ± 1.8
52.0	5 ± 1.2	9 ± 2.2	4 ± 0.6	5 ± 1.3	6 ± 2.0
156.0	2 ± 1.0 ^s	13 ± 2.5	7 ± 0.3	4 ± 0.3	5 ± 1.0
500.0	2 ± 0.3 ^s	9 ± 1.5	5 ± 0.6	3 ± 0.6	4 ± 1.2
1500.0	Toxic	1 ± 1.0 ^p	5 ± 1.2	4 ± 0.9 ^p	4 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					127 ± 8.4
Positive Control ⁴			80 ± 3.5	57 ± 5.5	
Positive Control ⁷	400 ± 36.1	276 ± 15.9			

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G06: Ames Summary Data

Test Compound: Thiocarbanilide

CAS Number: 102-08-9

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	6 ± 1.5
16.0	4 ± 0.3
52.0	4 ± 1.0
156.0	2 ± 1.3
500.0	6 ± 0.6
1500.0	3 ± 1.0 ^p
Trial Summary	Negative
Positive Control ²	132 ± 4.9
Positive Control ⁴	
Positive Control ⁷	

Experiment Number: 323214

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Thiocarbamilide

CAS Number: 102-08-9

Date Report Requested: 09/12/2018

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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	12 ± 1.5	19 ± 5.5	19 ± 3.2	13 ± 1.2	21 ± 5.8
16.0	14 ± 0.9	19 ± 1.8	20 ± 4.9	13 ± 2.2	18 ± 3.2
52.0	13 ± 2.3	21 ± 2.6	21 ± 1.7	19 ± 1.8	17 ± 3.7
156.0	14 ± 0.3	6 ± 2.1	20 ± 2.5	14 ± 3.8	18 ± 2.6
500.0	23 ± 2.0	12 ± 2.3	14 ± 2.7	14 ± 3.2	15 ± 2.3
1500.0	19 ± 7.2	8 ± 0.6 ^p	11 ± 0.9	12 ± 1.5 ^p	11 ± 1.2
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²					2617 ± 135.2
Positive Control ⁴			1752 ± 31.4	1791 ± 23.9	
Positive Control ⁸	1484 ± 57.1	2062 ± 152.1			

Experiment Number: 323214
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Thiocarbanilide
CAS Number: 102-08-9

Date Report Requested: 09/12/2018
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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	17 ± 3.5
16.0	18 ± 2.6
52.0	14 ± 2.6
156.0	16 ± 1.3
500.0	11 ± 2.3
1500.0	11 ± 2.3 ^p
Trial Summary	Negative
Positive Control ²	2455 ± 198.0
Positive Control ⁴	
Positive Control ⁸	

Experiment Number: 323214

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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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.5 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate Sodium Azide

6: 56.6 ug/Plate Solvent

7: 80.0 ug/Plate 9-Aminoacridine

8: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

** END OF REPORT **