

Experiment Number: 225793

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

G06: Ames Summary Data

Test Compound: **Semicarbazide hydrochloride**

CAS Number: 563-41-7

Date Report Requested: 09/14/2018

Time Report Requested: 22:05:46

NTP Study Number:

225793

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	69 ± 0.7	87 ± 5.5	83 ± 5.6	93 ± 18.8	84 ± 2.9
33.0	70 ± 9.6	104 ± 14.1	88 ± 4.7	99 ± 15.6	81 ± 2.3
100.0	67 ± 3.5	85 ± 5.2	84 ± 5.8	78 ± 8.2	76 ± 1.8
333.0	62 ± 9.4	85 ± 5.3	73 ± 7.8	79 ± 0.6	69 ± 4.1
1000.0	57 ± 0.9	76 ± 3.4	59 ± 0.6	62 ± 1.5	58 ± 3.3
2167.0	48 ± 3.6	70 ± 1.2	49 ± 3.4	50 ± 2.6	53 ± 4.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					2828 ± 69.5
Positive Control ³			1605 ± 105.6	1192 ± 92.5	
Positive Control ⁴	1355 ± 58.5	1090 ± 24.2			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	81 ± 0.6
33.0	101 ± 13.2
100.0	100 ± 16.1
333.0	74 ± 0.3
1000.0	79 ± 2.8
2167.0	58 ± 2.5
Trial Summary	Negative
Positive Control ²	2671 ± 121.9
Positive Control ³	
Positive Control ⁴	

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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 ± 2.1	23 ± 0.7	10 ± 1.5	11 ± 0.9	10 ± 1.8
33.0	19 ± 1.2	18 ± 2.8	9 ± 1.8	9 ± 1.7	9 ± 0.9
100.0	16 ± 1.2	19 ± 2.0	14 ± 0.3	9 ± 1.3	10 ± 1.0
333.0	15 ± 2.2	24 ± 3.4	9 ± 0.9	11 ± 1.0	8 ± 2.1
1000.0	15 ± 2.8	23 ± 1.7	8 ± 2.0	8 ± 2.1	8 ± 1.5
2167.0	19 ± 0.3	27 ± 4.9	8 ± 2.7	8 ± 1.0	8 ± 1.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					142 ± 11.3
Positive Control ³			75 ± 4.3	66 ± 6.4	
Positive Control ⁴	1005 ± 23.9	859 ± 63.3			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 0.6
33.0	6 ± 1.7
100.0	9 ± 2.3
333.0	9 ± 1.2
1000.0	10 ± 1.5
2167.0	8 ± 0.6
Trial Summary	Negative
Positive Control ²	137 ± 3.2
Positive Control ³	
Positive Control ⁴	

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Test Compound: Semicarbazide hydrochloride

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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	7 ± 2.1	10 ± 1.3	7 ± 1.0	9 ± 0.9	10 ± 1.5
33.0	6 ± 1.7	7 ± 1.5	7 ± 1.2	8 ± 1.0	8 ± 1.5
100.0	8 ± 0.9	9 ± 0.9	7 ± 1.5	7 ± 1.5	10 ± 1.3
333.0	5 ± 0.6	7 ± 0.3	7 ± 2.0	10 ± 1.0	10 ± 0.6
1000.0	4 ± 1.2	10 ± 1.3	7 ± 1.8	9 ± 3.5	10 ± 1.3
2167.0	5 ± 0.6	7 ± 1.7	6 ± 3.3	6 ± 0.9	8 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					286 ± 3.4
Positive Control ³			144 ± 6.7	93 ± 18.8	
Positive Control ⁵	262 ± 52.8	268 ± 31.9			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	13 ± 2.3
33.0	13 ± 1.7
100.0	8 ± 1.5
333.0	9 ± 0.9
1000.0	10 ± 2.4
2167.0	9 ± 2.1
Trial Summary	Negative
Positive Control ²	306 ± 15.5
Positive Control ³	
Positive Control ⁵	

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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	13 ± 1.2	17 ± 1.8	25 ± 4.5	25 ± 1.8	23 ± 2.0
33.0	16 ± 0.3	21 ± 2.3	19 ± 2.8	26 ± 3.3	28 ± 1.5
100.0	16 ± 3.0	24 ± 2.7	18 ± 1.7	25 ± 0.9	27 ± 1.8
333.0	14 ± 2.0	16 ± 2.6	16 ± 3.2	20 ± 0.6	24 ± 7.0
1000.0	13 ± 0.9	13 ± 3.0	11 ± 2.4	22 ± 4.3	24 ± 2.0
2167.0	9 ± 2.3	18 ± 3.2	14 ± 3.5	24 ± 1.7	19 ± 2.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					2906 ± 54.8
Positive Control ³			1613 ± 76.7	851 ± 70.1	
Positive Control ⁶	1343 ± 33.1	1306 ± 51.2			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	30 ± 2.6
33.0	26 ± 2.1
100.0	30 ± 2.2
333.0	28 ± 0.6
1000.0	25 ± 2.0
2167.0	24 ± 2.8
Trial Summary	Negative
Positive Control ²	2597 ± 74.9
Positive Control ³	
Positive Control ⁶	

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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: 1.5 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

**** END OF REPORT ****