

Experiment Number: 105153

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

**G06: Ames Summary Data**

Test Compound: **Carbon disulfide**

CAS Number: 75-15-0

Date Report Requested: **09/11/2018**

Time Report Requested: **14:09:49**

**NTP Study Number:**

105153

**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 <sup>1</sup>	112 ± 6.4	95 ± 4.2	103 ± 12.2	120 ± 5.0	94 ± 4.8
33.3	121 ± 4.8	120 ± 5.2	104 ± 1.9	122 ± 6.2	100 ± 6.4
100.0	115 ± 6.6	127 ± 7.0	100 ± 2.0	137 ± 7.0	98 ± 6.4
333.3	125 ± 7.8	121 ± 4.9	103 ± 7.2	113 ± 10.3	109 ± 0.3
1000.0	133 ± 11.6	121 ± 8.5	105 ± 4.7	89 ± 4.9	106 ± 5.1
3333.3	85 ± 7.9 <sup>s</sup>	113 ± 8.9 <sup>s</sup>	97 ± 7.0 <sup>s</sup>	92 ± 4.6 <sup>s</sup>	94 ± 3.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			755 ± 33.5	195 ± 11.0	962 ± 69.2
Positive Control <sup>3</sup>	569 ± 10.5	286 ± 9.0			

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	110 ± 9.9
33.3	124 ± 6.5
100.0	135 ± 6.2
333.3	131 ± 3.5
1000.0	117 ± 7.4
3333.3	114 ± 8.3 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	203 ± 9.0
Positive Control <sup>3</sup>	

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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 <sup>1</sup>	15 ± 2.4	20 ± 2.8	18 ± 1.3	12 ± 1.5	15 ± 1.7
33.3	23 ± 2.6	27 ± 0.7	10 ± 1.2	12 ± 2.6	12 ± 1.5
100.0	16 ± 1.8	26 ± 3.2	12 ± 2.1	12 ± 3.3	12 ± 1.2
333.3	25 ± 4.1	20 ± 2.3	15 ± 1.2	12 ± 1.5	16 ± 2.2
1000.0	17 ± 0.0	17 ± 0.7	14 ± 0.7	14 ± 0.7	13 ± 0.9
3333.3	10 ± 3.1 <sup>s</sup>	23 ± 2.4 <sup>s</sup>	16 ± 2.3 <sup>s</sup>	11 ± 5.7 <sup>s</sup>	13 ± 0.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>	515 ± 4.9	287 ± 11.6			
Positive Control <sup>4</sup>			197 ± 2.8	94 ± 11.4	303 ± 4.4

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	10 ± 0.7
33.3	12 ± 1.5
100.0	11 ± 1.2
333.3	12 ± 3.2
1000.0	13 ± 0.0
3333.3	10 ± 2.0 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	127 ± 1.0

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Test Compound: Carbon disulfide

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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 <sup>1</sup>	18 ± 3.5	9 ± 3.4	16 ± 1.7	18 ± 0.7	23 ± 1.9
33.3	17 ± 1.5	18 ± 4.2	22 ± 1.2	16 ± 1.2	18 ± 6.9
100.0	17 ± 1.7	14 ± 2.5	23 ± 3.6	19 ± 2.6	24 ± 3.3
333.3	15 ± 3.5	17 ± 4.0	22 ± 5.5	17 ± 4.6	31 ± 6.7
1000.0	14 ± 0.3	12 ± 2.7	17 ± 1.0	15 ± 1.2	24 ± 2.4
3333.3	4 ± 1.5 <sup>s</sup>	10 ± 3.0 <sup>s</sup>	12 ± 3.8 <sup>s</sup>	6 ± 0.7 <sup>s</sup>	21 ± 3.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			233 ± 28.7	39 ± 7.4	400 ± 16.3
Positive Control <sup>5</sup>	377 ± 38.3	413 ± 39.1			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	12 ± 2.0
33.3	22 ± 1.2
100.0	23 ± 2.8
333.3	27 ± 0.9
1000.0	19 ± 3.8
3333.3	9 ± 1.9 <sup>s</sup>
Trial Summary	Equivocal
Positive Control <sup>4</sup>	50 ± 0.9
Positive Control <sup>5</sup>	

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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 <sup>1</sup>	36 ± 1.3	33 ± 1.5	41 ± 4.2	35 ± 2.8	42 ± 4.9
33.3	37 ± 3.2	30 ± 3.8	40 ± 1.8	39 ± 4.4	35 ± 3.8
100.0	32 ± 2.7	31 ± 4.2	35 ± 2.8	37 ± 2.7	40 ± 4.8
333.3	26 ± 3.5	28 ± 1.8	37 ± 2.9	34 ± 7.0	40 ± 3.5
1000.0	31 ± 0.7	23 ± 4.7	30 ± 1.8	28 ± 0.6	41 ± 5.6
3333.3	17 ± 1.5 <sup>s</sup>	27 ± 4.4 <sup>s</sup>	22 ± 5.0 <sup>s</sup>	23 ± 2.3 <sup>s</sup>	42 ± 5.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			552 ± 47.4	114 ± 6.5	1058 ± 69.7
Positive Control <sup>6</sup>	844 ± 12.3	626 ± 11.2			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	49 ± 2.1
33.3	42 ± 1.8
100.0	43 ± 5.2
333.3	36 ± 6.2
1000.0	33 ± 1.7
3333.3	25 ± 3.8 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	158 ± 7.3
Positive Control <sup>6</sup>	

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### **LEGEND**

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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: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**\*\* END OF REPORT \*\***