

Experiment Number: 436781

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

**G06: Ames Summary Data**

Test Compound: **Carbon disulfide**

CAS Number: 75-15-0

Date Report Requested: **09/10/2018**

Time Report Requested: **21:23:42**

**NTP Study Number:**

436781

**Study Result:**

Negative

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## G06: Ames Summary Data

Test Compound: Carbon disulfide

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Date Report Requested: 09/10/2018

Time Report Requested: 21:23:42

## 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>	93 ± 3.7	104 ± 2.7	85 ± 4.6	126 ± 11.8	85 ± 8.1
20.7	85 ± 2.0	112 ± 14.4	84 ± 8.4	110 ± 6.0	69 ± 5.9
69.0	95 ± 6.6	105 ± 10.9	79 ± 10.8	127 ± 9.7	74 ± 7.8
207.0	94 ± 3.1	111 ± 6.0	76 ± 3.8	141 ± 9.9	79 ± 3.0
690.0	62 ± 4.8	88 ± 4.7	76 ± 8.1	123 ± 15.3	55 ± 5.8
2070.0	53 ± 4.2	79 ± 6.1 <sup>s</sup>	73 ± 2.0	124 ± 11.6	72 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					2008 ± 67.5
Positive Control <sup>3</sup>			1337 ± 18.5	1457 ± 55.9	
Positive Control <sup>4</sup>	1588 ± 41.4	1382 ± 18.9			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	120 ± 7.8
20.7	120 ± 9.0
69.0	106 ± 8.4
207.0	105 ± 6.2
690.0	114 ± 7.1
2070.0	111 ± 6.5 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	2410 ± 80.0
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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Test Compound: Carbon disulfide

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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>	12 ± 1.2	11 ± 3.2	9 ± 1.3	10 ± 0.9	9 ± 1.0
20.7	12 ± 2.4	14 ± 1.8	9 ± 2.5	9 ± 1.8	9 ± 1.8
69.0	17 ± 1.2	13 ± 0.3	9 ± 2.3	7 ± 0.9	7 ± 2.0
207.0	13 ± 1.0	11 ± 0.6	7 ± 1.8	6 ± 0.6	9 ± 2.4
690.0	12 ± 1.0	10 ± 1.5	9 ± 0.3	10 ± 0.3	10 ± 1.7
2070.0	11 ± 0.9	8 ± 1.2 <sup>s</sup>	8 ± 2.5	9 ± 0.3 <sup>s</sup>	5 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					156 ± 17.7
Positive Control <sup>3</sup>			134 ± 5.9	72 ± 5.8	
Positive Control <sup>4</sup>	1110 ± 26.0	942 ± 15.4			

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Test Compound: **Carbon disulfide**

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	8 ± 2.3
20.7	7 ± 1.5
69.0	6 ± 0.3
207.0	11 ± 2.4
690.0	7 ± 0.3
2070.0	9 ± 1.5 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	141 ± 12.3
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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Test Type: Genetic Toxicology - Bacterial  
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## G06: Ames Summary Data

Test Compound: Carbon disulfide

CAS Number: 75-15-0

Date Report Requested: 09/10/2018

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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 <sup>1</sup>	3 ± 0.7	5 ± 0.6	6 ± 0.6	6 ± 1.0	5 ± 1.5
20.7	3 ± 1.2	5 ± 0.9	6 ± 0.9	5 ± 1.3	6 ± 1.2
69.0	3 ± 0.6	6 ± 1.5	7 ± 2.0	8 ± 0.7	6 ± 1.2
207.0	5 ± 1.3	5 ± 0.9	5 ± 1.8	4 ± 0.3	7 ± 2.7
690.0	3 ± 0.3	5 ± 0.3	8 ± 2.0	7 ± 0.7	7 ± 0.6
2070.0	8 ± 4.7	4 ± 1.0 <sup>s</sup>	7 ± 1.9	5 ± 3.0 <sup>s</sup>	5 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					77 ± 4.3
Positive Control <sup>3</sup>			48 ± 6.3	97 ± 7.2	
Positive Control <sup>5</sup>	788 ± 56.6	197 ± 13.3			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	9 ± 4.0
20.7	11 ± 1.5
69.0	7 ± 1.3
207.0	5 ± 0.7
690.0	7 ± 1.5
2070.0	7 ± 1.7 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	341 ± 30.9
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	

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Test Compound: Carbon disulfide

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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>	15 ± 2.9	12 ± 1.7	21 ± 3.8	19 ± 2.3	18 ± 3.0
20.7	11 ± 0.6	17 ± 0.3	20 ± 2.0	29 ± 3.2	22 ± 0.9
69.0	16 ± 3.6	18 ± 0.9	19 ± 1.7	25 ± 2.1	19 ± 0.7
207.0	14 ± 1.5	16 ± 1.5	19 ± 3.2	21 ± 2.5	24 ± 2.5
690.0	14 ± 2.1	15 ± 2.4	18 ± 1.9	22 ± 2.4	23 ± 1.3
2070.0	8 ± 1.8	8 ± 2.0 <sup>s</sup>	10 ± 4.6	19 ± 0.3 <sup>s</sup>	22 ± 1.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1869 ± 42.5
Positive Control <sup>3</sup>			1262 ± 15.0	1608 ± 29.7	
Positive Control <sup>6</sup>	1964 ± 12.6	1404 ± 23.3			



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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>	25 ± 3.7
20.7	24 ± 4.1
69.0	20 ± 1.2
207.0	21 ± 2.0
690.0	19 ± 0.3
2070.0	11 ± 1.2 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	2798 ± 117.9
Positive Control <sup>3</sup>	
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: 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

s: Slight Toxicity

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