

Experiment Number: A35125

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

**G06: Ames Summary Data**

Test Compound: **Carbonyl sulfide**

CAS Number: **463-58-1**

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

Time Report Requested: **18:12:19**

**NTP Study Number:**

A35125

**Study Result:**

Weakly Positive

Experiment Number: A35125  
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Mutagenicity

G06: Ames Summary Data  
Test Compound: Carbonyl sulfide  
CAS Number: 463-58-1

Date Report Requested: 09/16/2018  
Time Report Requested: 18:12:19

Strain: TA100

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	120 ± 5.7	134 ± 3.1	145 ± 8.8
0.58	118 ± 5.4	128 ± 1.0	138 ± 5.5
1.15	126 ± 1.5	138 ± 6.7	134 ± 5.3
1.73	120 ± 6.4	134 ± 2.6	132 ± 10.8
2.31	112 ± 3.2	127 ± 1.2	134 ± 7.2
2.89	59 ± 20.3 <sup>s</sup>	48 ± 20.2 <sup>s</sup>	81 ± 15.6 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			626 ± 15.5
Positive Control <sup>3</sup>		538 ± 19.5	
Positive Control <sup>4</sup>	920 ± 19.5		

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G06: Ames Summary Data  
Test Compound: Carbonyl sulfide  
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Strain: TA1535

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	16 ± 2.2	18 ± 0.9	19 ± 1.2
0.58	17 ± 1.3	19 ± 0.3	19 ± 0.0
1.15	17 ± 1.2	14 ± 1.2	20 ± 0.7
1.73	13 ± 1.0	17 ± 1.2	19 ± 2.6
2.31	15 ± 2.5	14 ± 2.7	21 ± 3.4
2.89	2 ± 1.5 <sup>s</sup>	5 ± 2.0 <sup>s</sup>	2 ± 2.0 <sup>x</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>3</sup>			157 ± 7.3
Positive Control <sup>4</sup>	930 ± 10.1		
Positive Control <sup>5</sup>		175 ± 12.7	

Experiment Number: A35125

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## G06: Ames Summary Data

Test Compound: Carbonyl sulfide

CAS Number: 463-58-1

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	163 ± 3.8	204 ± 11.0	200 ± 11.3	201 ± 2.4	194 ± 8.3
0.58	209 ± 5.3	256 ± 27.7	258 ± 7.5	239 ± 7.2	286 ± 13.3
1.15	259 ± 2.0	340 ± 24.8	284 ± 6.8	312 ± 8.5	374 ± 14.2
1.73	253 ± 8.4	362 ± 23.6	265 ± 16.5	331 ± 12.1	388 ± 32.7
2.31	273 ± 1.0	379 ± 1.2	287 ± 8.4	353 ± 9.0	341 ± 63.2
2.89	251 ± 10.3	153 ± 23.9 <sup>s</sup>	126 ± 17.0 <sup>s</sup>	260 ± 5.5	122 ± 16.6 <sup>s</sup>
Trial Summary	Weakly Positive	Weakly Positive	Equivocal	Weakly Positive	Positive
Positive Control <sup>6</sup>					
Positive Control <sup>2</sup>			779 ± 20.9		
Positive Control <sup>3</sup>				503 ± 22.7	739 ± 33.6
Positive Control <sup>7</sup>	441 ± 21.2	533 ± 32.5			

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Mutagenicity

G06: Ames Summary Data  
Test Compound: Carbonyl sulfide  
CAS Number: 463-58-1

Date Report Requested: 09/16/2018  
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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	204 ± 14.4	199 ± 9.3	204 ± 3.5
0.58	238 ± 6.7	219 ± 27.2	258 ± 14.0
1.15	263 ± 3.7	333 ± 18.6	314 ± 4.9
1.73	305 ± 13.0	370 ± 13.0	353 ± 27.1
2.31	324 ± 13.0	387 ± 2.8	421 ± 18.3
2.89	250 ± 24.3	254 ± 19.9	346 ± 13.6
Trial Summary	Weakly Positive	Weakly Positive	Weakly Positive
Positive Control <sup>6</sup>	826 ± 33.7		
Positive Control <sup>2</sup>		510 ± 5.5	647 ± 4.0
Positive Control <sup>3</sup>			
Positive Control <sup>7</sup>			

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	19 ± 1.2	23 ± 2.0	25 ± 2.3
0.58	21 ± 1.7	20 ± 0.3	19 ± 0.0
1.15	18 ± 1.8	23 ± 2.8	20 ± 1.0
1.73	21 ± 2.0	22 ± 1.8	23 ± 2.0
2.31	20 ± 0.3	25 ± 3.7	26 ± 1.7
2.89	3 ± 1.2 <sup>s</sup>	9 ± 3.3 <sup>s</sup>	9 ± 0.3 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			425 ± 10.2
Positive Control <sup>8</sup>	385 ± 13.0		
Positive Control <sup>3</sup>		376 ± 12.1	

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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: Solvent

2: 2.0 ug/Plate 2-Aminoanthracene

3: 5.0 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 10.0 ug/Plate 2-Aminoanthracene

6: 1.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

x: Slight Toxicity and Precipitate

\*\* END OF REPORT \*\*