

Experiment Number: 181257

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

**G06: Ames Summary Data**

Test Compound: **Carbendazim**

CAS Number: **10605-21-7**

Date Report Requested: **09/13/2018**

Time Report Requested: **18:51:16**

**NTP Study Number:**

181257

**Study Result:**

Positive

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## G06: Ames Summary Data

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## Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	95 ± 4.7	100 ± 5.5	127 ± 7.2	116 ± 4.3	121 ± 11.3
100.0	126 ± 6.6	157 ± 14.0		143 ± 10.1	
333.0	106 ± 4.8	134 ± 4.7	112 ± 7.6	115 ± 0.9	137 ± 2.7
1000.0	122 ± 10.1 <sup>P</sup>	141 ± 6.4 <sup>P</sup>	134 ± 7.9	153 ± 7.8 <sup>P</sup>	148 ± 3.3
3333.0	104 ± 3.8 <sup>P</sup>	158 ± 4.8 <sup>P</sup>	166 ± 3.2 <sup>P</sup>	156 ± 5.2 <sup>P</sup>	151 ± 1.2 <sup>P</sup>
6666.0			179 ± 10.7 <sup>P</sup>		165 ± 4.9 <sup>P</sup>
10000.0	105 ± 4.3 <sup>P</sup>	187 ± 10.1 <sup>P</sup>	212 ± 11.2 <sup>P</sup>	188 ± 12.7 <sup>P</sup>	199 ± 7.1 <sup>P</sup>
Trial Summary	Negative	Equivocal	Weakly Positive	Weakly Positive	Weakly Positive
Positive Control <sup>2</sup>		359 ± 30.8	591 ± 30.6	766 ± 84.2	1639 ± 24.4
Positive Control <sup>3</sup>	222 ± 28.6				

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	11 ± 1.5	6 ± 0.7	9 ± 3.2
100.0	14 ± 4.1	6 ± 0.6	8 ± 3.2
333.0	15 ± 3.8	8 ± 1.3	6 ± 1.0
1000.0	20 ± 3.8 <sup>P</sup>	8 ± 1.0 <sup>P</sup>	8 ± 0.6 <sup>P</sup>
3333.0	17 ± 1.5 <sup>P</sup>	11 ± 1.5 <sup>P</sup>	9 ± 1.9 <sup>P</sup>
10000.0	18 ± 2.6 <sup>P</sup>	7 ± 1.2 <sup>P</sup>	7 ± 1.7 <sup>P</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>3</sup>	121 ± 10.9		
Positive Control <sup>4</sup>		181 ± 6.0	260 ± 14.3

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## Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	5 ± 1.7	8 ± 2.4	9 ± 0.9	7 ± 1.2	8 ± 0.9
100.0	3 ± 0.3	7 ± 0.9	12 ± 2.3	11 ± 2.2	13 ± 3.0
333.0	5 ± 0.7	10 ± 2.8	12 ± 1.7	14 ± 3.6	19 ± 3.1
1000.0	5 ± 2.0 <sup>P</sup>	18 ± 1.3 <sup>P</sup>	16 ± 0.0 <sup>P</sup>	25 ± 3.2 <sup>P</sup>	25 ± 2.7 <sup>P</sup>
3333.0	7 ± 1.5 <sup>P</sup>	28 ± 1.2 <sup>P</sup>	28 ± 5.8 <sup>P</sup>	44 ± 5.0 <sup>P</sup>	58 ± 3.7 <sup>P</sup>
10000.0	5 ± 0.7 <sup>P</sup>	52 ± 3.2 <sup>P</sup>	41 ± 4.2 <sup>P</sup>	79 ± 6.2 <sup>P</sup>	97 ± 2.4 <sup>P</sup>
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control <sup>4</sup>		145 ± 22.4	133 ± 3.6	324 ± 44.1	546 ± 26.3
Positive Control <sup>5</sup>	142 ± 6.7				

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## Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	16 ± 0.7	20 ± 2.8	26 ± 5.2	31 ± 4.1	30 ± 2.0
100.0	22 ± 2.1	35 ± 6.8	28 ± 2.3	28 ± 4.4	35 ± 2.2
333.0	16 ± 2.1	32 ± 2.3	46 ± 3.4	41 ± 3.9	31 ± 3.6
1000.0	15 ± 0.9 <sup>P</sup>	94 ± 8.2 <sup>P</sup>	97 ± 0.3 <sup>P</sup>	45 ± 7.8 <sup>P</sup>	63 ± 7.6 <sup>P</sup>
3333.0	14 ± 1.5 <sup>P</sup>	195 ± 9.8 <sup>P</sup>	181 ± 5.9 <sup>P</sup>	103 ± 6.7 <sup>P</sup>	121 ± 14.1 <sup>P</sup>
10000.0	11 ± 0.6 <sup>P</sup>	477 ± 25.8 <sup>P</sup>	332 ± 23.7 <sup>P</sup>	310 ± 23.9 <sup>P</sup>	348 ± 27.7 <sup>P</sup>
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>		246 ± 10.4	437 ± 19.6	686 ± 25.0	1466 ± 63.4
Positive Control <sup>6</sup>	765 ± 20.7				

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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
- p: Precipitate

\*\* END OF REPORT \*\*