

Experiment Number: 879172

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

**G06: Ames Summary Data**

Test Compound: **Coumarin**

CAS Number: **91-64-5**

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

Time Report Requested: **19:11:51**

**NTP Study Number:**

879172

**Study Result:**

Positive

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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 ± 9.1	108 ± 9.1	121 ± 12.7	106 ± 5.5	84 ± 1.2
33.0	112 ± 7.4		138 ± 2.3		104 ± 3.5
100.0	130 ± 11.0	115 ± 10.7	152 ± 7.0	123 ± 5.4	116 ± 9.8
333.0	107 ± 9.2	111 ± 8.2	150 ± 4.1		143 ± 7.3
1000.0	125 ± 3.8	111 ± 7.3	186 ± 3.2	176 ± 3.8	196 ± 10.1
2000.0		118 ± 1.2		198 ± 9.1	
2150.0	122 ± 11.1				
2500.0		62 ± 5.3 <sup>s</sup>		196 ± 4.9	
3000.0				133 ± 1.5 <sup>s</sup>	
3333.0			Toxic		188 ± 24.0 <sup>s</sup>
Trial Summary	Negative	Negative	Equivocal	Positive	Positive
Positive Control <sup>2</sup>					2384 ± 120.0
Positive Control <sup>3</sup>			859 ± 51.2	1547 ± 31.0	
Positive Control <sup>4</sup>	1890 ± 51.6	1371 ± 29.9			

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	114 ± 6.9
33.0	
100.0	120 ± 11.6
333.0	
1000.0	287 ± 20.8
2000.0	379 ± 18.6
2150.0	
2500.0	364 ± 12.7
3000.0	286 ± 16.5 <sup>s</sup>
3333.0	
Trial Summary	Positive
Positive Control <sup>2</sup>	3128 ± 44.7
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	17 ± 1.2	11 ± 0.7	11 ± 2.0
33.0	21 ± 5.2	10 ± 1.2	13 ± 1.0
100.0	18 ± 2.5	11 ± 1.0	8 ± 0.7
333.0	23 ± 3.2	5 ± 0.3	9 ± 1.8
1000.0	24 ± 5.0	8 ± 1.2	9 ± 1.5
2150.0	23 ± 4.3		
3333.0		10 ± 0.6 <sup>s</sup>	11 ± 2.8
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			145 ± 4.8
Positive Control <sup>3</sup>		51 ± 5.0	
Positive Control <sup>4</sup>	1212 ± 35.3		

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	5 ± 1.3	9 ± 3.2	11 ± 1.2
33.0	6 ± 1.2	10 ± 2.2	11 ± 3.9
100.0	6 ± 0.7	8 ± 2.3	9 ± 2.3
333.0	7 ± 0.9	8 ± 0.9	7 ± 2.6
1000.0	6 ± 0.9	9 ± 1.8	9 ± 0.9
2150.0	3 ± 0.6 <sup>s</sup>		
3333.0		9 ± 2.5 <sup>s</sup>	6 ± 1.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			207 ± 16.8
Positive Control <sup>3</sup>		57 ± 6.0	
Positive Control <sup>5</sup>	69 ± 12.3		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	14 ± 2.5	30 ± 2.7	22 ± 2.9
33.0	12 ± 0.3	34 ± 8.5	27 ± 0.9
100.0	15 ± 1.2	30 ± 3.8	27 ± 2.6
333.0	16 ± 2.3	27 ± 2.9	36 ± 0.7
1000.0	12 ± 3.5	24 ± 1.5	23 ± 1.8
2150.0	15 ± 1.9		
3333.0		17 ± 3.2 <sup>s</sup>	11 ± 1.2 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			1754 ± 118.2
Positive Control <sup>3</sup>		477 ± 29.1	
Positive Control <sup>6</sup>	1433 ± 23.6		

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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 \*\***