

Experiment Number: **644172**

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

G06: Ames Summary Data

Test Compound: **Methyl coumarin**

CAS Number: **92-48-8**

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

Time Report Requested: **04:58:53**

NTP Study Number:

644172

Study Result:

Negative

Experiment Number: 644172

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Mutagenicity

G06: Ames Summary Data

Test Compound: Methyl coumarin
CAS Number: 92-48-8

Date Report Requested: 09/11/2018

Time Report Requested: 04:58:53

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	126 ± 11.3	108 ± 5.4	123 ± 4.7	99 ± 2.0	116 ± 10.3
33.0	118 ± 5.9	110 ± 8.1	131 ± 10.7		117 ± 8.6
100.0	126 ± 2.5	99 ± 3.3	134 ± 2.8		120 ± 6.8
333.0	118 ± 8.1	99 ± 3.2	134 ± 7.2	128 ± 6.7	106 ± 9.0
1000.0	116 ± 9.8	109 ± 6.1 ^s	156 ± 10.4	120 ± 14.6	115 ± 10.2
1500.0		47 ± 4.0 ^s			
2000.0	59 ± 7.5 ^s			129 ± 3.8	
3333.0			136 ± 8.4	108 ± 6.6	172 ± 4.3
4000.0				86 ± 10.0	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1568 ± 64.5
Positive Control ³			1128 ± 12.1	1029 ± 96.8	
Positive Control ⁴	1925 ± 46.9	1546 ± 10.2			

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Date Report Requested: 09/11/2018

Time Report Requested: 04:58:53

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	94 ± 5.9
33.0	
100.0	
333.0	93 ± 0.3
1000.0	100 ± 2.3
1500.0	
2000.0	95 ± 11.2
3333.0	95 ± 3.8
4000.0	57 ± 8.2 ^s
Trial Summary	Negative
Positive Control ²	1535 ± 40.5
Positive Control ³	
Positive Control ⁴	

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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 ¹	16 ± 2.8	21 ± 1.9	13 ± 1.9	10 ± 1.8	9 ± 2.7
10.0		21 ± 2.0			
33.0	17 ± 3.5	24 ± 1.0	9 ± 0.6	12 ± 2.6	9 ± 0.6
100.0	24 ± 0.0	26 ± 2.2	11 ± 0.6	12 ± 2.7	11 ± 3.3
333.0	20 ± 1.5	27 ± 3.5	10 ± 1.2	10 ± 2.3	13 ± 1.0
1000.0	20 ± 0.6 ^s	27 ± 3.5	11 ± 1.9	11 ± 1.2	10 ± 1.8
2000.0	16 ± 2.7 ^s				
3333.0			10 ± 1.2 ^s	7 ± 1.3 ^s	9 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					112 ± 9.0
Positive Control ³			61 ± 8.4	67 ± 1.2	
Positive Control ⁴	1218 ± 40.5	1204 ± 24.3			

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Test Compound: Methyl coumarin
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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 1.5
10.0	
33.0	7 ± 1.3
100.0	10 ± 1.5
333.0	11 ± 2.0
1000.0	10 ± 1.0
2000.0	
3333.0	11 ± 1.5
Trial Summary	Negative
Positive Control ²	150 ± 11.4
Positive Control ³	
Positive Control ⁴	

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Date Report Requested: 09/11/2018

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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 ¹	7 ±	0.9	7 ± 1.5	10 ± 1.2	6 ± 0.3	9 ± 1.2
10.0			4 ± 2.3			
33.0	4 ±	1.2	7 ± 0.3	8 ± 0.9	5 ± 1.3	8 ± 1.5
100.0	5 ±	1.5	6 ± 0.9	9 ± 0.3	9 ± 1.2	10 ± 1.2
333.0	8 ±	2.2	6 ± 1.3	10 ± 0.6	9 ± 1.5	8 ± 0.0
1000.0	7 ±	1.8 ^s	5 ± 0.9 ^s	7 ± 1.7	7 ± 1.2	13 ± 2.2
2000.0	8 ±	1.9 ^s				
3333.0				6 ± 0.9 ^s	9 ± 0.9 ^s	12 ± 2.7
Trial Summary	Negative		Negative	Negative	Negative	Negative
Positive Control ²						90 ± 5.2
Positive Control ³				77 ± 8.6	105 ± 9.8	
Positive Control ⁵	258 ± 102.3		405 ± 30.6			

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Test Compound: Methyl coumarin
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Date Report Requested: 09/11/2018

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 1.7
10.0	
33.0	9 ± 1.9
100.0	5 ± 0.3
333.0	6 ± 0.3
1000.0	9 ± 0.9
2000.0	
3333.0	7 ± 0.6 ^s
Trial Summary	Negative
Positive Control ²	215 ± 19.1
Positive Control ³	
Positive Control ⁵	

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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 ¹	16 ± 2.6	17 ± 1.2	35 ± 0.7	22 ± 0.9	28 ± 2.5
10.0		16 ± 2.0			
33.0	22 ± 4.6	17 ± 2.6	30 ± 2.6	29 ± 4.7	30 ± 5.3
100.0	20 ± 5.2	13 ± 4.3	32 ± 3.5	33 ± 0.6	32 ± 6.9
333.0	23 ± 3.5	14 ± 1.2	28 ± 3.5	29 ± 4.2	21 ± 3.0
1000.0	18 ± 2.5 ^s	16 ± 0.7	22 ± 4.0	26 ± 0.3	26 ± 2.6
2000.0	10 ± 1.9 ^s				
3333.0			13 ± 0.3 ^s	17 ± 1.5 ^s	13 ± 1.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1831 ± 66.1
Positive Control ³			1016 ± 34.9	945 ± 11.0	
Positive Control ⁶	1252 ± 18.7	1483 ± 26.3			

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Test Compound: Methyl coumarin
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Date Report Requested: 09/11/2018

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	28 ± 1.2
10.0	
33.0	26 ± 2.4
100.0	23 ± 4.5
333.0	29 ± 2.2
1000.0	22 ± 2.0
2000.0	
3333.0	16 ± 1.3 ^s
Trial Summary	Negative
Positive Control ²	1990 ± 58.6
Positive Control ³	
Positive Control ⁶	

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LEGEND

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 **