

Experiment Number: 672476

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 7-Diethylamino-4-methylcoumarin

CAS Number: 91-44-1

Date Report Requested: 09/12/2018

Time Report Requested: 06:01:50

NTP Study Number:

672476

Study Result:

Negative

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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 ¹	102 ± 3.6	114 ± 10.5	145 ± 9.5	151 ± 13.9	127 ± 12.2
100.0	95 ± 5.2	118 ± 5.9	119 ± 2.4	148 ± 15.2	115 ± 4.2
333.0	95 ± 3.8	108 ± 3.3	113 ± 9.2	121 ± 8.8	105 ± 4.4
1000.0	70 ± 5.5	93 ± 3.5	104 ± 12.6	107 ± 2.5	128 ± 4.4
3333.0	84 ± 7.0	127 ± 10.9	126 ± 4.0	140 ± 4.4	84 ± 3.5
5450.0	95 ± 1.0	122 ± 12.3	132 ± 7.8	141 ± 9.6	104 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1132 ± 182.8	698 ± 47.9	1980 ± 49.9
Positive Control ³	730 ± 59.6	506 ± 21.0			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	132 ± 5.2
100.0	115 ± 6.1
333.0	113 ± 2.3
1000.0	130 ± 4.6
3333.0	127 ± 18.0
5450.0	150 ± 21.5
Trial Summary	Negative
Positive Control ²	1522 ± 90.7
Positive Control ³	

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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	10 ± 1.7	6 ± 2.2	12 ± 1.8	12 ± 0.6	7 ± 2.0
100.0	9 ± 0.6	7 ± 1.2	12 ± 1.5	8 ± 1.9	11 ± 1.2
333.0	6 ± 0.9	4 ± 0.3	8 ± 1.7	7 ± 0.6	11 ± 1.5
1000.0	2 ± 0.0	4 ± 1.8	7 ± 1.5	5 ± 1.2	5 ± 0.6
3333.0	4 ± 0.3	2 ± 1.5	10 ± 1.7	7 ± 1.3	9 ± 1.2
5450.0	3 ± 0.7	3 ± 0.3	2 ± 0.3	5 ± 1.7	1 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			54 ± 5.2	143 ± 40.0	90 ± 7.4
Positive Control ³	581 ± 10.3	345 ± 6.2			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	5 ± 1.2
100.0	6 ± 1.9
333.0	7 ± 2.0
1000.0	3 ± 1.5
3333.0	3 ± 1.5
5450.0	2 ± 0.6
Trial Summary	Negative
Positive Control ²	77 ± 4.3
Positive Control ³	

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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 ± 0.3	4 ± 1.5	8 ± 3.2	8 ± 0.0	12 ± 3.5
100.0	11 ± 0.0	5 ± 0.9	7 ± 0.9	6 ± 0.6	6 ± 1.2
333.0	11 ± 5.2	5 ± 1.0	6 ± 0.6	11 ± 2.6	5 ± 0.9
1000.0	7 ± 0.5	5 ± 1.2	5 ± 0.6	9 ± 2.0	3 ± 0.6
3333.0	6 ± 0.9	3 ± 0.7	10 ± 1.2	9 ± 1.9	10 ± 1.9
5450.0	4 ± 0.3	3 ± 1.0	10 ± 1.2	6 ± 2.6	8 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			46 ± 4.8	60 ± 8.2	68 ± 3.5
Positive Control ⁴	632 ± 23.6	829 ± 8.5			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.5
100.0	11 ± 3.2
333.0	7 ± 1.5
1000.0	8 ± 2.6
3333.0	8 ± 3.2
5450.0	7 ± 0.9
Trial Summary	Negative
Positive Control ²	69 ± 2.7
Positive Control ⁴	

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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	18 ± 4.1	16 ± 2.0	21 ± 4.2	21 ± 1.7	24 ± 2.6
100.0	16 ± 1.5	16 ± 0.9	25 ± 2.8	16 ± 2.0	21 ± 5.5
333.0	16 ± 1.0	13 ± 0.7	27 ± 3.5	17 ± 2.0	17 ± 1.3
1000.0	12 ± 1.7	15 ± 2.0	39 ± 4.3	22 ± 5.9	14 ± 1.9
3333.0	9 ± 1.5	15 ± 4.1	22 ± 4.0	23 ± 2.3	14 ± 1.0
5450.0	8 ± 0.9	9 ± 1.2	25 ± 2.8	20 ± 2.7	15 ± 1.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			948 ± 40.0	414 ± 29.4	1660 ± 48.2
Positive Control ⁵	449 ± 63.6	348 ± 29.0			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	23 ± 1.2
100.0	23 ± 1.8
333.0	21 ± 4.7
1000.0	18 ± 3.8
3333.0	20 ± 4.6
5450.0	22 ± 3.4
Trial Summary	Negative
Positive Control ²	1263 ± 155.7
Positive Control ⁵	

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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: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****