

Experiment Number: 420206

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 9-Aminoacridine, monohydrochloride, monohydrate
CAS Number: 52417-22-8

Date Report Requested: 09/15/2018

Time Report Requested: 05:09:30

NTP Study Number:

420206

Study Result:

Positive

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MutagenicityTest Compound: 9-Aminoacridine, monohydrochloride, monohydrate
CAS Number: 52417-22-8

Time Report Requested: 05:09:30

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	115 ± 10.2	138 ± 13.9	130 ± 6.4	117 ± 6.9	114 ± 6.4
3.0		117 ± 9.8		146 ± 8.8	
10.0	93 ± 5.4	95 ± 7.5	119 ± 9.7	182 ± 5.5	161 ± 14.2
33.0	100 ± 7.9	98 ± 4.4	143 ± 3.5	194 ± 11.6	206 ± 21.1
100.0	94 ± 2.3	93 ± 12.1	151 ± 14.9	182 ± 6.2	218 ± 13.5
333.0	Toxic	0 ± 0.0 ^s	34 ± 19.1	0 ± 0.0 ^s	67 ± 12.8
1000.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Weakly Positive	Positive
Positive Control ²			893 ± 20.2	552 ± 14.0	942 ± 51.4
Positive Control ³	252 ± 7.8	422 ± 16.6			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	138 ± 6.6
3.0	133 ± 10.3
10.0	154 ± 7.3
33.0	196 ± 13.3
100.0	222 ± 8.4
333.0	0 ± 0.0 ^s
1000.0	
Trial Summary	Weakly Positive
Positive Control ²	1705 ± 35.5
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	20 ± 3.2	34 ± 4.6	11 ± 2.3	11 ± 2.3	22 ± 3.6
3.0		27 ± 1.0		6 ± 0.6	
10.0	17 ± 0.9	30 ± 3.2	12 ± 1.5	11 ± 1.5	16 ± 3.3
33.0	14 ± 3.5	26 ± 1.2	13 ± 2.1	10 ± 2.0	17 ± 4.0
100.0	9 ± 3.5	19 ± 1.2	9 ± 2.6	12 ± 0.3	18 ± 5.0
333.0	2 ± 0.5	0 ± 0.0 ^s	5 ± 2.5	5 ± 1.2	3 ± 1.2
1000.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	265 ± 11.3	641 ± 17.5			
Positive Control ⁴			275 ± 13.1	228 ± 5.7	419 ± 1.3

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	14 ± 3.2
3.0	8 ± 1.9
10.0	8 ± 0.7
33.0	13 ± 0.7
100.0	9 ± 1.3
333.0	5 ± 0.9
1000.0	
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	518 ± 37.7

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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	4 ± 1.3	6 ± 0.6	8 ± 0.6	6 ± 1.5	16 ± 0.9
10.0	8 ± 2.8	9 ± 1.2	14 ± 0.3	12 ± 2.0	18 ± 7.1
16.0		12 ± 2.5		11 ± 3.7	
33.0	46 ± 6.8	162 ± 10.3	431 ± 100.9	109 ± 6.9	536 ± 33.7
100.0	114 ± 25.4	247 ± 39.7	752 ± 45.8	651 ± 14.4	485 ± 36.0
333.0	23 ± 9.8	119 ± 27.5	47 ± 22.1	426 ± 73.0	49 ± 4.3
1000.0	Toxic		Toxic		Toxic
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ⁴			284 ± 15.9	82 ± 7.3	448 ± 22.9
Positive Control ⁵	116 ± 10.1	263 ± 16.0			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	5 ± 0.6
10.0	12 ± 0.0
16.0	16 ± 1.2
33.0	279 ± 15.2
100.0	719 ± 23.9
333.0	391 ± 52.2
1000.0	
Trial Summary	Positive
Positive Control ⁴	307 ± 13.6
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	24 ± 2.6	21 ± 2.1	27 ± 1.5	24 ± 3.2	37 ± 2.6
3.0		12 ± 1.5		29 ± 6.6	
10.0	17 ± 4.6	15 ± 1.5	21 ± 0.6	38 ± 1.8	35 ± 5.8
33.0	19 ± 1.2	12 ± 2.0	30 ± 3.1	44 ± 2.0	53 ± 5.0
100.0	7 ± 0.9	15 ± 3.2	30 ± 0.9	36 ± 4.9	58 ± 3.6
333.0	Toxic	0 ± 0.0 ^s	Toxic	25 ± 4.2	22 ± 4.7
1000.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Equivocal	Equivocal
Positive Control ²			673 ± 23.2	394 ± 30.8	802 ± 67.4
Positive Control ⁶	432 ± 2.1	856 ± 51.2			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	37 ± 7.2
3.0	30 ± 0.6
10.0	39 ± 5.2
33.0	40 ± 6.6
100.0	45 ± 2.9
333.0	26 ± 1.0
1000.0	
Trial Summary	Negative
Positive Control ²	1517 ± 21.9
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: 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

s: Slight Toxicity

**** END OF REPORT ****