

Experiment Number: 100014

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Quinoline

CAS Number: 91-22-5

Date Report Requested: 09/11/2018

Time Report Requested: 13:26:21

NTP Study Number:

100014

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 ¹	86 ± 4.9	156 ± 4.2	149 ± 5.9	170 ± 11.6	151 ± 5.5
10.0	94 ± 8.5	178 ± 11.6	186 ± 13.1	234 ± 11.0	244 ± 17.1
33.0	111 ± 11.7	172 ± 14.5	246 ± 5.4	312 ± 23.6	446 ± 1.8
100.0	79 ± 7.0	131 ± 28.0	1006 ± 87.0	366 ± 15.0	992 ± 14.9
333.0	64 ± 3.8	140 ± 12.3	1320 ± 196.0	574 ± 37.6	1941 ± 128.3
1000.0	59 ± 9.6	100 ± 4.7	766 ± 207.4	322 ± 24.7	1673 ± 166.3
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control ²			295 ± 24.0	426 ± 7.5	780 ± 117.0
Positive Control ³	483 ± 44.6	462 ± 14.4			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	161 ± 12.9
10.0	269 ± 30.3
33.0	577 ± 50.5
100.0	1423 ± 198.8
333.0	1935 ± 140.7
1000.0	1447 ± 231.2
Trial Summary	Positive
Positive Control ²	743 ± 48.0
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	7 ± 1.8	7 ± 0.3	6 ± 1.0	7 ± 1.0	10 ± 1.5
10.0	4 ± 0.7	3 ± 0.6	8 ± 1.9	10 ± 1.0	7 ± 1.3
33.0	7 ± 1.5	6 ± 1.5	7 ± 1.2	6 ± 1.2	8 ± 1.5
100.0	4 ± 1.3	6 ± 1.2	9 ± 1.5	10 ± 1.0	17 ± 4.9
333.0	6 ± 2.0	7 ± 0.3	8 ± 0.9	14 ± 2.9	23 ± 0.9
1000.0	5 ± 1.2	7 ± 1.5	9 ± 2.2	10 ± 1.2	25 ± 1.8
Trial Summary	Negative	Negative	Negative	Negative	Weakly Positive
Positive Control ²			21 ± 1.5	26 ± 5.9	40 ± 5.8
Positive Control ³	233 ± 47.6	303 ± 21.2			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.5
10.0	7 ± 1.3
33.0	6 ± 2.0
100.0	10 ± 2.1
333.0	18 ± 0.3
1000.0	17 ± 2.0
Trial Summary	Equivocal
Positive Control ²	40 ± 7.9
Positive Control ³	

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Date Report Requested: 09/11/2018
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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	8 ± 2.0	8 ± 0.6	8 ± 0.6
10.0	5 ± 0.6	9 ± 1.5	8 ± 1.5
33.0	5 ± 0.7	8 ± 1.8	7 ± 0.6
100.0	6 ± 1.5	9 ± 0.3	8 ± 1.0
333.0	9 ± 1.2	10 ± 1.9	16 ± 1.5
1000.0	4 ± 0.6	12 ± 0.9	12 ± 0.6
Trial Summary	Negative	Negative	Equivocal
Positive Control ²		17 ± 3.4	41 ± 5.8
Positive Control ⁴	171 ± 20.5		

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Test Compound: Quinoline

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	14 ± 0.7	15 ± 0.7	16 ± 2.1	21 ± 1.5	22 ± 4.1
10.0	16 ± 1.5	16 ± 2.9	16 ± 2.4	20 ± 1.0	18 ± 1.5
33.0	18 ± 0.3	19 ± 1.5	18 ± 1.7	25 ± 4.5	25 ± 4.9
100.0	14 ± 1.8	16 ± 1.5	16 ± 1.5	57 ± 2.5	43 ± 9.6
333.0	15 ± 1.5	14 ± 1.7	11 ± 2.2	110 ± 13.3	37 ± 2.3
1000.0	11 ± 1.5	10 ± 2.0	7 ± 1.9	40 ± 15.5	30 ± 6.5
Trial Summary	Negative	Negative	Negative	Positive	Equivocal
Positive Control ²				164 ± 8.5	238 ± 43.3
Positive Control ⁵	301 ± 42.1	264 ± 9.9	318 ± 5.5		

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Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	18 ± 2.3	24 ± 1.2	20 ± 1.9	20 ± 3.8
10.0	24 ± 1.9	33 ± 2.3	24 ± 2.3	28 ± 2.0
33.0	19 ± 2.6	58 ± 2.6	36 ± 6.3	42 ± 1.5
100.0	37 ± 1.5	146 ± 46.0	45 ± 4.7	54 ± 3.6
333.0	44 ± 1.9	253 ± 40.2	80 ± 8.4	53 ± 8.5
1000.0	17 ± 5.3	220 ± 57.3	48 ± 7.5	27 ± 4.6
Trial Summary	Weakly Positive	Positive	Positive	Positive
Positive Control ²	236 ± 60.5	406 ± 11.2	669 ± 41.6	526 ± 69.2
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 **