

Experiment Number: 073796

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 8-Hydroxyquinoline

CAS Number: 148-24-3

Date Report Requested: 09/11/2018

Time Report Requested: 00:16:06

NTP Study Number:

073796

Study Result:

Positive

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G06: Ames Summary Data

Test Compound: 8-Hydroxyquinoline

CAS Number: 148-24-3

Date Report Requested: 09/11/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	111 ± 8.2	113 ± 15.0	99 ± 4.7	91 ± 9.4	101 ± 4.4
1.0	87 ± 3.0	107 ± 2.3	120 ± 5.0	113 ± 5.5	
3.0	109 ± 14.3	135 ± 1.3	141 ± 7.8	134 ± 14.6	125 ± 7.2
10.0	119 ± 13.6	233 ± 3.8	259 ± 9.0	165 ± 8.7	153 ± 5.3
16.0			344 ± 18.5		186 ± 10.3
33.0	104 ± 9.9	449 ± 21.3	431 ± 12.6	237 ± 8.7	219 ± 17.0
66.0					230 ± 15.8
100.0	7 ± 3.8 ^s	117 ± 16.1 ^s		159 ± 27.2 ^s	
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ²				910 ± 24.5	638 ± 7.6
Positive Control ³		491 ± 7.5	504 ± 37.7		
Positive Control ⁴	640 ± 21.2				

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	16 ± 1.9	10 ± 3.7	9 ± 1.8
1.0	21 ± 2.3	5 ± 1.0	11 ± 0.7
3.0	21 ± 1.8	8 ± 2.7	11 ± 2.6
10.0	21 ± 8.0	6 ± 1.0	9 ± 1.0
33.0	20 ± 0.9	17 ± 1.2	8 ± 1.3
100.0	4 ± 0.3 ^s	6 ± 1.7 ^s	6 ± 1.5 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ³			308 ± 7.7
Positive Control ⁴	534 ± 16.4		
Positive Control ⁵		198 ± 8.4	

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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	128 ± 7.0	171 ± 13.2	142 ± 5.7	157 ± 19.5	145 ± 16.2
1.0	122 ± 9.4	189 ± 11.7	172 ± 16.8	139 ± 25.2	172 ± 8.2
3.0	126 ± 8.7	176 ± 32.0	206 ± 1.3	130 ± 24.8	180 ± 6.5
10.0	129 ± 10.0	331 ± 23.8	356 ± 10.7	177 ± 48.5	239 ± 15.4
16.0			464 ± 28.5		285 ± 7.1
33.0	124 ± 7.5	591 ± 109.0	535 ± 36.2	437 ± 2.2	346 ± 14.0
100.0	14 ± 8.4 ^s	88 ± 39.6 ^s		111 ± 51.7 ^s	
Trial Summary	Negative	Positive	Positive	Equivocal	Positive
Positive Control ²				534 ± 21.7	470 ± 50.4
Positive Control ³		373 ± 17.3	327 ± 15.9		
Positive Control ⁶	876 ± 60.1				

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	19 ± 2.8	32 ± 2.3	32 ± 0.3
1.0	15 ± 2.0	27 ± 1.3	28 ± 3.5
3.0	22 ± 5.6	26 ± 3.7	12 ± 5.8
10.0	18 ± 1.2	38 ± 0.7	24 ± 2.1
33.0	16 ± 2.6	29 ± 5.5	33 ± 1.5
100.0	12 ± 3.8 ^s	16 ± 6.8 ^s	26 ± 2.9 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			545 ± 48.4
Positive Control ³		313 ± 10.8	
Positive Control ⁷	578 ± 48.8		

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****