

Experiment Number: 296791

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

G06: Ames Summary Data

Test Compound: **Hydroquinone**

CAS Number: **123-31-9**

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

Time Report Requested: **21:33:17**

NTP Study Number:

296791

Study Result:

Negative

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Date Report Requested: 09/11/2018

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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	100 ± 3.0	95 ± 6.6	124 ± 16.0	121 ± 9.7	116 ± 11.2
10.0	97 ± 1.5	91 ± 0.3	117 ± 5.7	122 ± 4.0	105 ± 8.2
33.0	107 ± 6.7	115 ± 5.1	102 ± 9.2	127 ± 7.8	114 ± 6.3
100.0	108 ± 3.9	119 ± 5.9	121 ± 8.0	92 ± 2.6	122 ± 4.3
333.0	Toxic	Toxic	103 ± 8.0	80 ± 5.5	109 ± 7.0
666.0	Toxic	Toxic	116 ± 4.8	115 ± 13.3	118 ± 11.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1499 ± 64.7
Positive Control ³			1048 ± 95.9	1093 ± 48.8	
Positive Control ⁴	1447 ± 9.7	1877 ± 37.6			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	90 ± 0.0
10.0	122 ± 16.7
33.0	108 ± 15.7
100.0	107 ± 10.1
333.0	112 ± 13.7
666.0	123 ± 16.0
Trial Summary	Negative
Positive Control ²	1394 ± 40.8
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	18 ± 3.2	15 ± 1.2	14 ± 4.3	7 ± 2.0	8 ± 3.5
10.0	21 ± 1.0	15 ± 2.7	13 ± 4.2	11 ± 2.5	12 ± 4.6
33.0	15 ± 2.3	9 ± 1.2	6 ± 1.5	11 ± 1.3	10 ± 1.5
100.0	13 ± 1.2	8 ± 1.2	9 ± 2.7	7 ± 0.6	9 ± 0.9
333.0	11 ± 1.7 ^s	Toxic	8 ± 0.9	8 ± 1.3	10 ± 2.3
666.0	Toxic	Toxic	10 ± 1.2	9 ± 1.2	10 ± 2.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					107 ± 9.5
Positive Control ³			76 ± 6.8	60 ± 1.7	
Positive Control ⁴	1110 ± 45.4	1185 ± 20.7			

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Test Compound: Hydroquinone

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Date Report Requested: 09/11/2018

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.3
10.0	9 ± 1.8
33.0	8 ± 0.9
100.0	11 ± 2.3
333.0	11 ± 0.3
666.0	8 ± 2.1
Trial Summary	Negative
Positive Control ²	120 ± 10.9
Positive Control ³	
Positive Control ⁴	

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Test Compound: Hydroquinone

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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	9 ± 0.3	8 ± 0.3	9 ± 1.2	7 ± 1.5	11 ± 0.9
10.0	9 ± 0.0	7 ± 0.7	6 ± 0.9	6 ± 2.0	6 ± 1.2
33.0	9 ± 1.8	6 ± 0.9	9 ± 2.5	7 ± 1.2	11 ± 1.7
100.0	6 ± 1.2 ^s	5 ± 1.8 ^s	7 ± 2.1	7 ± 1.2	10 ± 2.3
333.0	Toxic	Toxic	8 ± 1.2	6 ± 1.2	8 ± 1.7
666.0	Toxic	Toxic	7 ± 1.0	8 ± 0.7	9 ± 1.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					219 ± 19.2
Positive Control ³			95 ± 0.9	129 ± 4.0	
Positive Control ⁵	192 ± 20.0	461 ± 105.2			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 2.2
10.0	7 ± 2.0
33.0	8 ± 0.7
100.0	10 ± 2.7
333.0	6 ± 1.5
666.0	8 ± 0.9
Trial Summary	Negative
Positive Control ²	150 ± 11.9
Positive Control ³	
Positive Control ⁵	

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Date Report Requested: 09/11/2018

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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	20 ± 1.7	20 ± 1.5	25 ± 2.6	23 ± 1.7	28 ± 4.0
10.0	18 ± 2.5	19 ± 1.7	25 ± 3.3	25 ± 5.5	24 ± 3.3
33.0	21 ± 0.9	22 ± 3.7	23 ± 3.5	26 ± 3.0	25 ± 1.2
100.0	20 ± 6.7 ^s	19 ± 0.5	22 ± 1.2	21 ± 5.9	28 ± 2.8
333.0	Toxic	Toxic	24 ± 0.3	25 ± 2.2	24 ± 3.8
666.0	Toxic	Toxic	24 ± 2.9	17 ± 2.6	22 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					2009 ± 23.1
Positive Control ³			1194 ± 30.1	950 ± 298.9	
Positive Control ⁶	1549 ± 24.6	1762 ± 8.3			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	30 ± 0.9
10.0	30 ± 1.0
33.0	29 ± 0.6
100.0	25 ± 0.9
333.0	26 ± 4.1
666.0	29 ± 1.2
Trial Summary	Negative
Positive Control ²	1415 ± 77.7
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 ****