

Experiment Number: 718374

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Hydroquinone dimethyl ether

CAS Number: 150-78-7

Date Report Requested: 09/12/2018

Time Report Requested: 00:34:19

NTP Study Number:

718374

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	97 ± 2.1	82 ± 5.0	103 ± 11.9	108 ± 6.7	92 ± 13.2
10.0		88 ± 12.9			
33.0	108 ± 9.8	91 ± 4.3	99 ± 4.5	103 ± 15.9	98 ± 6.2
100.0	124 ± 2.0	99 ± 9.5	105 ± 8.5	107 ± 7.6	98 ± 4.3
333.0	109 ± 5.4	141 ± 2.3	96 ± 4.7	94 ± 8.7	99 ± 9.0
400.0			115 ± 3.9	116 ± 5.5	
500.0			110 ± 6.9	116 ± 10.5	
666.0		246 ± 17.2	101 ± 3.8	114 ± 12.7 ^s	
750.0			105 ± 8.1 ^s	116 ± 10.1 ^s	
900.0			74 ± 33.5 ^s	62 ± 27.0 ^s	
1000.0	Toxic				Toxic
2000.0	Toxic				Toxic
Trial Summary	Equivocal	Weakly Positive	Negative	Negative	Negative
Positive Control ²					
Positive Control ³					1303 ± 116.4
Positive Control ⁴	1919 ± 39.3	2152 ± 99.5	2173 ± 58.7	1590 ± 94.7	

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	81 ± 6.2	85 ± 6.9	82 ± 6.1
10.0	70 ± 8.1		83 ± 8.6
33.0	74 ± 2.9	91 ± 3.8	75 ± 2.2
100.0	82 ± 8.4	84 ± 6.5	106 ± 8.4
333.0	81 ± 8.9	92 ± 5.2	83 ± 0.9
400.0			
500.0			
666.0	84 ± 3.5		75 ± 5.0
750.0			
900.0			
1000.0		69 ± 9.5 ^s	
2000.0		Toxic	
Trial Summary	Negative	Negative	Negative
Positive Control ²		1634 ± 59.6	861 ± 16.2
Positive Control ³	457 ± 35.9		
Positive Control ⁴			

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	23 ± 2.0	13 ± 1.8	26 ± 1.2	11 ± 2.6	11 ± 0.9
10.0		20 ± 1.7			
33.0	33 ± 1.7	21 ± 2.6	21 ± 4.2	17 ± 1.0	10 ± 1.0
100.0	27 ± 2.0	23 ± 0.7	18 ± 3.8	10 ± 0.7	14 ± 3.5
333.0	24 ± 6.4	41 ± 1.5	21 ± 1.8	15 ± 1.8	10 ± 1.8
400.0			27 ± 3.5	16 ± 1.2	
500.0			24 ± 2.8	17 ± 3.8	
666.0		106 ± 3.0	23 ± 0.6 ^S	14 ± 1.0 ^S	
750.0			18 ± 1.5 ^S	13 ± 1.9 ^S	
900.0			14 ± 5.8 ^S	8 ± 4.1 ^S	
1000.0	Toxic				5 ± 1.0 ^S
2000.0	Toxic				Toxic
Trial Summary	Negative	Positive	Negative	Negative	Negative
Positive Control ²					
Positive Control ³					77 ± 1.0
Positive Control ⁴	1408 ± 20.8	1446 ± 11.7	2002 ± 67.1	1413 ± 91.8	

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Test Compound: Hydroquinone dimethyl ether
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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	11 ± 0.9	9 ± 1.8	7 ± 1.2
10.0	6 ± 0.6		6 ± 0.9
33.0	9 ± 2.5	13 ± 1.3	7 ± 2.0
100.0	9 ± 2.7	11 ± 0.6	7 ± 1.2
333.0	6 ± 1.2	9 ± 2.0	8 ± 1.5
400.0			
500.0			
666.0	7 ± 1.2		7 ± 1.2
750.0			
900.0			
1000.0		11 ± 0.5 ^s	
2000.0		Toxic	
Trial Summary	Negative	Negative	Negative
Positive Control ²		148 ± 6.8	85 ± 5.9
Positive Control ³	53 ± 8.1		
Positive Control ⁴			

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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	8 ± 1.9	3 ± 0.6	10 ± 1.0	6 ± 2.6	10 ± 1.7
10.0		5 ± 1.2		5 ± 0.6	
33.0	6 ± 0.7	4 ± 1.2	7 ± 1.5	3 ± 0.3	9 ± 0.3
100.0	6 ± 0.9	3 ± 0.9	10 ± 3.7	4 ± 0.6	7 ± 0.7
333.0	8 ± 1.3	4 ± 1.2	9 ± 0.9	8 ± 2.5	10 ± 2.3
666.0		5 ± 0.7		7 ± 3.7	
1000.0	Toxic		9 ± 2.6 ^s		8 ± 1.0 ^s
2000.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					206 ± 29.5
Positive Control ³			73 ± 4.7	58 ± 3.5	
Positive Control ⁵	383 ± 200.3	518 ± 52.7			

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Date Report Requested: 09/12/2018

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	5 ± 0.7
10.0	6 ± 0.3
33.0	4 ± 1.2
100.0	3 ± 0.7
333.0	5 ± 0.7
666.0	5 ± 1.2
1000.0	
2000.0	
Trial Summary	Negative
Positive Control ²	105 ± 14.5
Positive Control ³	
Positive Control ⁵	

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Test Type: Genetic Toxicology - Bacterial
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Test Compound: Hydroquinone dimethyl ether
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Date Report Requested: 09/12/2018

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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	19 ± 2.5	18 ± 5.1	20 ± 3.8	22 ± 2.9	29 ± 3.3
10.0		16 ± 3.6		21 ± 2.4	
33.0	14 ± 0.9	17 ± 3.8	22 ± 1.2	24 ± 0.7	27 ± 2.3
100.0	17 ± 2.3	20 ± 4.1	19 ± 4.1	22 ± 3.1	29 ± 2.4
333.0	16 ± 1.5	15 ± 3.3	33 ± 1.7	21 ± 1.2	23 ± 0.9
666.0		14 ± 3.3		20 ± 1.2	
1000.0	Toxic		Toxic		27 ± 6.5 ^s
2000.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					983 ± 53.9
Positive Control ³			529 ± 73.4	532 ± 18.2	
Positive Control ⁶	1174 ± 17.5	1352 ± 55.2			

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G06: Ames Summary Data

Test Compound: **Hydroquinone dimethyl ether**

CAS Number: 150-78-7

Date Report Requested: 09/12/2018

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	23 ± 0.9
10.0	16 ± 1.7
33.0	22 ± 3.2
100.0	22 ± 3.0
333.0	15 ± 1.9
666.0	21 ± 1.5
1000.0	
2000.0	
Trial Summary	Negative
Positive Control ²	808 ± 31.9
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 ****