

Experiment Number: 029584

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Hydroquinone monomethyl ether

CAS Number: 150-76-5

Date Report Requested: 09/14/2018

Time Report Requested: 14:01:42

NTP Study Number:

029584

Study Result:

Negative

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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	148 ± 9.3	140 ± 6.9	135 ± 8.7	138 ± 10.7	147 ± 7.7
100.0	144 ± 6.0	151 ± 9.5	141 ± 6.2	152 ± 6.8	128 ± 0.3
333.0	138 ± 9.5	116 ± 4.4	156 ± 2.9	153 ± 6.7	132 ± 5.0
1000.0	131 ± 2.3	135 ± 4.4	143 ± 1.0	155 ± 5.5	147 ± 5.9
3333.0	135 ± 9.9	133 ± 5.0	134 ± 8.0	152 ± 9.3	126 ± 11.2
5000.0		Toxic		114 ± 6.7 ^s	
6666.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					771 ± 41.6
Positive Control ³			811 ± 14.1	686 ± 26.5	
Positive Control ⁴	1219 ± 16.2	1199 ± 8.6			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	152 ± 5.5
100.0	152 ± 10.0
333.0	165 ± 14.0
1000.0	154 ± 5.9
3333.0	142 ± 1.7
5000.0	90 ± 5.0 ^s
6666.0	
Trial Summary	Negative
Positive Control ²	727 ± 34.4
Positive Control ³	
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	37 ± 1.7	34 ± 2.2	34 ± 4.7	22 ± 3.2	48 ± 5.3
100.0	33 ± 0.9	31 ± 0.3	26 ± 2.1	17 ± 1.0	46 ± 6.1
333.0	27 ± 2.8	38 ± 3.5	27 ± 5.6	19 ± 3.2	55 ± 3.1
1000.0	26 ± 3.8	40 ± 3.2	25 ± 2.3	14 ± 1.5	39 ± 0.7
3333.0	32 ± 2.7	34 ± 1.8	16 ± 1.2	19 ± 2.3	35 ± 1.5
5000.0		18 ± 3.1 ^s	Toxic		21 ± 2.4 ^s
6666.0	Toxic			Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				73 ± 6.7	100 ± 2.2
Positive Control ⁴	963 ± 39.2	941 ± 22.9	1158 ± 54.4		

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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	12 ± 3.1	14 ± 2.3	38 ± 2.9	14 ± 0.3
100.0	9 ± 3.2	15 ± 1.7	43 ± 2.6	9 ± 0.7
333.0	15 ± 0.3	15 ± 0.6	34 ± 5.0	12 ± 2.5
1000.0	8 ± 0.0	16 ± 1.5	38 ± 8.4	13 ± 3.4
3333.0	10 ± 1.2	22 ± 3.8	38 ± 3.8	12 ± 0.9
5000.0	4 ± 0.0 ^s		28 ± 3.2 ^s	6 ± 0.7 ^s
6666.0		Toxic		
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²		84 ± 3.4	100 ± 7.0	97 ± 3.8
Positive Control ³	78 ± 3.8			
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	9 ± 0.9	5 ± 1.9	9 ± 2.1	12 ± 1.9	9 ± 1.8
100.0	9 ± 0.7	4 ± 0.0	11 ± 1.0	9 ± 3.1	8 ± 0.6
333.0	13 ± 1.2	8 ± 0.3	7 ± 1.8	6 ± 0.3	7 ± 1.7
1000.0	8 ± 2.6	7 ± 0.9	11 ± 2.8	6 ± 1.7	8 ± 1.5
3333.0	6 ± 1.9	5 ± 0.9	8 ± 1.0	7 ± 1.8	7 ± 0.3
5000.0		Toxic		4 ± 0.3 ^s	
6666.0	Toxic		3 ± 1.5 ^s		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					65 ± 3.8
Positive Control ³			66 ± 7.8	57 ± 2.6	
Positive Control ⁵	322 ± 72.5	180 ± 20.2			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 0.9
100.0	9 ± 0.3
333.0	8 ± 1.5
1000.0	9 ± 2.3
3333.0	6 ± 1.2
5000.0	4 ± 1.5 ^s
6666.0	
Trial Summary	Negative
Positive Control ²	72 ± 1.2
Positive Control ³	
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	19 ± 1.7	20 ± 2.0	35 ± 1.0	22 ± 2.5	31 ± 4.7
100.0	20 ± 3.0	18 ± 1.2	23 ± 3.2	29 ± 2.4	37 ± 2.8
333.0	20 ± 1.7	16 ± 1.2	27 ± 5.2	27 ± 2.3	35 ± 4.2
1000.0	15 ± 1.3	15 ± 1.2	28 ± 1.2	24 ± 1.3	31 ± 4.3
3333.0	16 ± 2.0	11 ± 0.6	25 ± 3.1	20 ± 3.3	24 ± 1.8
5000.0		8 ± 1.3 ^s		16 ± 0.9 ^s	
6666.0	Toxic		10 ± 3.5 ^s		9 ± 2.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					735 ± 6.8
Positive Control ³			698 ± 36.9	600 ± 11.3	
Positive Control ⁶	1526 ± 17.7	1554 ± 36.0			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	30 ± 3.2
100.0	29 ± 3.1
333.0	23 ± 2.3
1000.0	25 ± 3.5
3333.0	20 ± 2.1
5000.0	14 ± 1.9 ^s
6666.0	
Trial Summary	Negative
Positive Control ²	606 ± 18.3
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 ****