

Experiment Number: 205793

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: 09:06:44

NTP Study Number:

205793

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	143 ± 8.2	138 ± 6.2	171 ± 7.9	160 ± 6.7	181 ± 12.0
3.3	135 ± 12.5	118 ± 8.2	216 ± 14.4	151 ± 12.7	183 ± 8.8
10.0	126 ± 7.5	128 ± 4.1	239 ± 25.8	165 ± 13.8	201 ± 12.7
33.0	127 ± 6.8	113 ± 5.0	214 ± 1.2	164 ± 2.3	184 ± 9.4
100.0	127 ± 12.8	106 ± 8.7	226 ± 11.1	164 ± 9.6	179 ± 11.3
167.0	124 ± 0.7	119 ± 2.9	219 ± 4.1	166 ± 3.8	182 ± 7.8
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ²			730 ± 97.9	656 ± 41.0	849 ± 43.0
Positive Control ³	422 ± 30.5	374 ± 9.1			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	169 ± 9.7
3.3	177 ± 3.5
10.0	185 ± 4.8
33.0	175 ± 6.0
100.0	151 ± 11.4
167.0	175 ± 15.8
Trial Summary	Negative
Positive Control ²	873 ± 53.9
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	10 ± 1.0	8 ± 1.2	11 ± 4.5	9 ± 1.2	12 ± 1.2
3.3	7 ± 0.3	7 ± 0.7	9 ± 0.7	8 ± 0.7	13 ± 1.8
10.0	9 ± 3.0	8 ± 0.6	11 ± 1.2	9 ± 0.3	8 ± 0.9
33.0	5 ± 2.6	6 ± 1.2	9 ± 2.3	8 ± 0.9	9 ± 1.8
100.0	8 ± 0.6	7 ± 0.6	8 ± 3.1	8 ± 0.9	9 ± 1.0
167.0	9 ± 4.5	8 ± 0.6	10 ± 2.9	8 ± 0.3	10 ± 1.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			29 ± 6.1	46 ± 1.9	58 ± 10.1
Positive Control ³	508 ± 51.3	586 ± 36.2			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 1.3
3.3	9 ± 1.0
10.0	7 ± 0.6
33.0	8 ± 1.3
100.0	7 ± 0.3
167.0	8 ± 0.0
Trial Summary	Negative
Positive Control ²	134 ± 25.5
Positive Control ³	

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Test Compound: Hydroquinone monomethyl ether
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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	3 ± 0.7	7 ± 1.9	6 ± 1.9	8 ± 1.2	3 ± 1.5
3.3	4 ± 1.8	7 ± 1.2	6 ± 1.5	7 ± 0.6	6 ± 2.1
10.0	4 ± 0.3	11 ± 2.3	5 ± 0.9	8 ± 0.7	5 ± 1.2
33.0	3 ± 0.3	7 ± 0.3	7 ± 1.9	8 ± 1.2	4 ± 1.5
100.0	2 ± 1.0	6 ± 1.5	8 ± 0.9	12 ± 1.9	4 ± 0.3
167.0	3 ± 1.0	10 ± 1.5	5 ± 0.7	11 ± 1.9	6 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			27 ± 1.2	32 ± 6.9	66 ± 4.7
Positive Control ⁴	662 ± 139.5	632 ± 97.3			

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Test Compound: **Hydroquinone monomethyl ether**

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 3.1
3.3	14 ± 0.6
10.0	14 ± 1.0
33.0	14 ± 1.9
100.0	9 ± 0.3
167.0	14 ± 1.9
Trial Summary	Negative
Positive Control ²	40 ± 6.2
Positive Control ⁴	

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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 ± 3.5	28 ± 4.6	22 ± 4.3	29 ± 3.8	18 ± 1.8
3.3	16 ± 3.2	23 ± 4.9	26 ± 2.3	27 ± 5.1	26 ± 1.7
10.0	18 ± 2.7	27 ± 2.8	22 ± 2.0	28 ± 2.8	28 ± 4.4
33.0	18 ± 3.2	25 ± 1.5	22 ± 0.7	28 ± 6.6	24 ± 1.5
100.0	16 ± 0.9	25 ± 2.4	29 ± 5.1	39 ± 3.8	30 ± 0.6
167.0	17 ± 1.8	24 ± 2.6	27 ± 5.5	39 ± 1.5	23 ± 2.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			282 ± 33.7	368 ± 23.3	792 ± 32.4
Positive Control ⁵	435 ± 52.3	227 ± 20.5			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	31 ± 6.4
3.3	31 ± 7.0
10.0	45 ± 4.0
33.0	36 ± 2.6
100.0	36 ± 0.9
167.0	40 ± 3.0
Trial Summary	Negative
Positive Control ²	574 ± 51.4
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: Water

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 ****