

Experiment Number: 181204

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Catechol

CAS Number: 120-80-9

Date Report Requested: 09/13/2018

Time Report Requested: 18:43:37

NTP Study Number:

181204

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	67 ± 6.5	92 ± 3.4	89 ± 4.4	55 ± 3.3	91 ± 6.8
11.0	72 ± 2.5	96 ± 4.2	78 ± 2.6	55 ± 1.2	86 ± 2.2
35.0	78 ± 4.9	89 ± 4.3	84 ± 8.0	59 ± 4.0	78 ± 5.3
104.0	80 ± 7.4	110 ± 4.4	92 ± 2.5	60 ± 4.5	76 ± 2.0
333.0	87 ± 13.0	89 ± 6.4 ^s	84 ± 3.5	59 ± 2.1	86 ± 8.1
1000.0	53 ± 10.5 ^s	81 ± 0.9 ^s	92 ± 5.8	66 ± 6.2	84 ± 10.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					2698 ± 105.0
Positive Control ³			2068 ± 82.0	1232 ± 22.9	
Positive Control ⁴	1557 ± 21.4	1383 ± 57.0			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	53 ± 2.2
11.0	68 ± 2.8
35.0	72 ± 7.1
104.0	78 ± 3.4
333.0	85 ± 8.6
1000.0	73 ± 5.2
Trial Summary	Equivocal
Positive Control ²	2080 ± 121.0
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	19 ± 2.0	7 ± 1.5	11 ± 1.0	6 ± 0.6	11 ± 3.2
11.0	13 ± 2.7	8 ± 1.9	7 ± 2.5	5 ± 1.9	9 ± 1.2
35.0	13 ± 1.2	13 ± 0.6	11 ± 0.3	5 ± 1.2	10 ± 0.0
104.0	14 ± 2.1	11 ± 2.4	8 ± 1.5	11 ± 0.9	11 ± 1.5
333.0	9 ± 1.5	5 ± 0.9 ^s	12 ± 1.7	9 ± 2.0	10 ± 2.7
1000.0	8 ± 0.9 ^s	4 ± 0.9 ^s	16 ± 2.1	12 ± 2.1	15 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					154 ± 10.4
Positive Control ³			84 ± 8.7	129 ± 8.8	
Positive Control ⁴	1133 ± 5.6	783 ± 22.9			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 1.8
11.0	8 ± 1.8
35.0	8 ± 1.3
104.0	7 ± 0.7
333.0	8 ± 0.6
1000.0	13 ± 3.0
Trial Summary	Negative
Positive Control ²	163 ± 18.8
Positive Control ³	
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	6 ± 0.7	3 ± 0.3	4 ± 1.3	3 ± 1.0	11 ± 2.7
11.0	7 ± 1.2	4 ± 1.0	5 ± 2.3	4 ± 1.0	7 ± 0.7
35.0	5 ± 0.6	5 ± 1.2	5 ± 1.5	3 ± 0.9	6 ± 0.7
104.0	6 ± 1.2	5 ± 1.2	5 ± 0.3	3 ± 0.9	8 ± 2.6
333.0	6 ± 1.7	3 ± 1.2 ^s	6 ± 1.2	4 ± 0.7	7 ± 0.3
1000.0	4 ± 1.0 ^s	4 ± 0.7 ^s	8 ± 1.2	2 ± 0.9	7 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					136 ± 5.8
Positive Control ³			81 ± 5.9	71 ± 6.7	
Positive Control ⁵	406 ± 45.3	369 ± 24.0			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.9
11.0	4 ± 0.9
35.0	5 ± 2.6
104.0	5 ± 2.0
333.0	4 ± 1.5
1000.0	5 ± 2.2
Trial Summary	Negative
Positive Control ²	140 ± 5.6
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	17 ± 3.0	15 ± 0.6	22 ± 3.0	10 ± 0.7	25 ± 2.6
11.0	14 ± 2.3	17 ± 1.5	25 ± 4.7	10 ± 2.0	27 ± 3.3
35.0	13 ± 3.1	15 ± 3.5	20 ± 3.0	13 ± 2.3	21 ± 2.0
104.0	12 ± 2.2	14 ± 0.7	27 ± 2.8	7 ± 0.6	22 ± 1.3
333.0	10 ± 2.0 ^s	6 ± 0.3 ^s	23 ± 2.7	8 ± 2.6	22 ± 0.7
1000.0	6 ± 0.9 ^s	0 ± 0.0 ^s	19 ± 2.0	13 ± 1.9	27 ± 1.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1926 ± 74.1
Positive Control ³			1429 ± 29.7	1316 ± 37.0	
Positive Control ⁶	1628 ± 35.5	1789 ± 26.9			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	17 ± 2.8
11.0	14 ± 2.9
35.0	21 ± 3.5
104.0	17 ± 2.3
333.0	19 ± 3.0
1000.0	13 ± 0.7
Trial Summary	Negative
Positive Control ²	2237 ± 91.1
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: Water

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 **