

Experiment Number: **A00750**

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

G06: Ames Summary Data

Test Compound: **2,4-Dihydroxybenzoic acid**

CAS Number: **89-86-1**

Date Report Requested: **09/15/2018**

Time Report Requested: **10:53:24**

NTP Study Number:

A00750

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	125 ± 6.1	168 ± 2.1	169 ± 6.1	120 ± 6.3	165 ± 3.1
10.0	121 ± 5.2	166 ± 8.8	175 ± 2.8	135 ± 2.3	152 ± 10.4
33.0	119 ± 4.0	163 ± 2.3	168 ± 5.8	136 ± 5.5	144 ± 7.5
100.0	134 ± 1.9	181 ± 3.7	154 ± 13.8	144 ± 11.1	175 ± 7.6
333.0	119 ± 6.9	169 ± 3.2	177 ± 4.6	126 ± 12.1	172 ± 9.1
666.0				103 ± 13.6	
1000.0	75 ± 6.4	92 ± 12.5	81 ± 19.7		116 ± 16.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					550 ± 23.1
Positive Control ³			647 ± 29.7		
Positive Control ⁴	905 ± 20.3	948 ± 27.8			
Positive Control ⁵				394 ± 38.0	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	131 ± 10.1
10.0	137 ± 6.2
33.0	135 ± 9.5
100.0	115 ± 14.0
333.0	135 ± 5.7
666.0	93 ± 2.0
1000.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	508 ± 8.4
Positive Control ⁴	
Positive Control ⁵	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	16 ± 0.3	12 ± 0.3	14 ± 1.9	16 ± 0.6	13 ± 2.4
10.0	13 ± 3.2	11 ± 2.7	12 ± 1.7	13 ± 2.1	11 ± 3.5
33.0	12 ± 2.4	8 ± 0.3	13 ± 0.3	14 ± 3.3	10 ± 2.0
100.0	14 ± 2.7	15 ± 1.0	12 ± 1.2	14 ± 3.2	12 ± 2.2
333.0	11 ± 2.1	12 ± 2.1	12 ± 4.5	11 ± 2.2	9 ± 0.9
1000.0	7 ± 1.7	4 ± 0.9 ^s	5 ± 1.2	8 ± 2.7	3 ± 0.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					247 ± 19.6
Positive Control ⁴	1085 ± 16.0	1025 ± 82.1			
Positive Control ⁵			130 ± 8.1		
Positive Control ⁶				169 ± 8.4	

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Date Report Requested: 09/15/2018
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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 2.2
10.0	13 ± 0.7
33.0	12 ± 1.7
100.0	10 ± 1.5
333.0	10 ± 1.2
1000.0	4 ± 1.2 ^s
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	310 ± 39.0
Positive Control ⁶	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	163 ± 10.3	148 ± 9.9	173 ± 8.4	154 ± 6.7	165 ± 4.5
10.0	192 ± 5.3	140 ± 12.8	171 ± 1.3	163 ± 2.3	178 ± 9.8
33.0	188 ± 10.3	168 ± 10.0	154 ± 14.9	154 ± 17.6	182 ± 2.9
100.0	187 ± 14.7	169 ± 10.4	161 ± 7.4	162 ± 6.2	163 ± 18.2
333.0	165 ± 6.9	164 ± 13.4	135 ± 9.7	172 ± 9.1	158 ± 5.0
1000.0	51 ± 13.3	59 ± 24.8	100 ± 8.4	185 ± 0.6	74 ± 2.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					677 ± 13.3
Positive Control ³			603 ± 5.8		
Positive Control ⁵				775 ± 30.9	
Positive Control ⁷	724 ± 29.4	629 ± 16.8			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	171 ± 3.5
10.0	178 ± 13.3
33.0	175 ± 0.0
100.0	174 ± 3.4
333.0	181 ± 2.6
1000.0	144 ± 7.5
Trial Summary	Negative
Positive Control ²	
Positive Control ³	565 ± 16.6
Positive Control ⁵	
Positive Control ⁷	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	24 ± 3.7	21 ± 4.0	23 ± 1.8	27 ± 2.2	29 ± 2.7
10.0	23 ± 2.7	21 ± 7.2	29 ± 2.4	28 ± 2.3	27 ± 1.2
33.0	18 ± 2.1	27 ± 0.6	27 ± 1.9	27 ± 3.3	25 ± 2.9
100.0	26 ± 0.3	23 ± 2.5	27 ± 2.4	26 ± 1.9	23 ± 2.3
333.0	18 ± 3.5	17 ± 2.5	25 ± 2.7	24 ± 4.0	28 ± 5.0
666.0				29 ± 1.7	
1000.0	17 ± 2.1	17 ± 0.3	16 ± 2.7		19 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					547 ± 16.1
Positive Control ³			435 ± 17.1		
Positive Control ⁸	394 ± 12.7	424 ± 16.3			
Positive Control ⁵				495 ± 11.3	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	23 ± 2.3
10.0	27 ± 1.2
33.0	26 ± 3.4
100.0	26 ± 3.7
333.0	23 ± 1.7
666.0	29 ± 2.3
1000.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	661 ± 31.9
Positive Control ⁸	
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: Dimethyl Sulfoxide
- 2: 1.0 ug/Plate 2-Aminoanthracene
- 3: 2.0 ug/Plate 2-Aminoanthracene
- 4: 5.0 ug/Plate Sodium Azide
- 5: 5.0 ug/Plate 2-Aminoanthracene
- 6: 10.0 ug/Plate 2-Aminoanthracene
- 7: 50.0 ug/Plate 9-Aminoacridine
- 8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

** END OF REPORT **