

Experiment Number: 576026

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 5-Amino-o-cresol

CAS Number: 2835-95-2

Date Report Requested: 09/14/2018

Time Report Requested: 05:37:09

NTP Study Number:

576026

Study Result:

Positive

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Test Compound: 5-Amino-o-cresol
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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	89 ± 9.5	74 ± 9.5	83 ± 4.4	72 ± 0.7	86 ± 2.8
33.0	83 ± 4.7	78 ± 4.6		79 ± 5.2	
100.0	80 ± 7.0	73 ± 2.0	76 ± 1.2	85 ± 4.6	85 ± 9.4
333.0	94 ± 5.0	89 ± 2.3	94 ± 5.8	107 ± 6.4	116 ± 6.7
1000.0	105 ± 2.7	91 ± 7.7	137 ± 10.2	193 ± 10.0	213 ± 11.7
2000.0	112 ± 3.9				
3333.0		99 ± 9.5 ^s	210 ± 17.2	263 ± 13.4	476 ± 28.6
6666.0			317 ± 2.0		166 ± 5.8 ^s
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control ²					181 ± 11.8
Positive Control ³	241 ± 5.5	337 ± 20.5			
Positive Control ⁴			862 ± 56.7	502 ± 44.3	

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	71 ± 3.5
33.0	78 ± 5.6
100.0	83 ± 4.9
333.0	107 ± 5.9
1000.0	205 ± 8.7
2000.0	
3333.0	369 ± 13.3
6666.0	
Trial Summary	Positive
Positive Control ²	308 ± 4.4
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	24 ± 0.6	19 ± 3.2	12 ± 0.9	9 ± 1.0	9 ± 2.3
33.0	24 ± 4.8	22 ± 4.1		10 ± 1.3	
100.0	20 ± 2.4	19 ± 2.5	8 ± 0.7	8 ± 1.5	10 ± 2.3
333.0	21 ± 3.5	20 ± 1.2	7 ± 0.3	11 ± 1.2	13 ± 1.5
1000.0	23 ± 2.7	14 ± 1.5	8 ± 0.3	8 ± 1.5	11 ± 2.6
2000.0	15 ± 2.0				
3333.0		9 ± 3.5 ^s	13 ± 1.5	11 ± 3.1	11 ± 2.1
6666.0			7 ± 1.2		9 ± 1.8 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					35 ± 5.0
Positive Control ³	130 ± 4.9	173 ± 10.4			
Positive Control ⁵			211 ± 12.3	170 ± 4.4	

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	13 ± 2.7
33.0	9 ± 1.9
100.0	10 ± 1.2
333.0	15 ± 1.5
1000.0	16 ± 2.8
2000.0	
3333.0	11 ± 1.3
6666.0	
Trial Summary	Negative
Positive Control ²	46 ± 1.7
Positive Control ³	
Positive Control ⁵	

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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	93 ± 3.5	123 ± 8.5	76 ± 3.8	110 ± 4.7	131 ± 9.4
33.0	85 ± 2.2		94 ± 3.8		129 ± 4.4
100.0	97 ± 9.5	158 ± 2.0	100 ± 5.0	117 ± 3.5	125 ± 7.2
333.0	106 ± 14.0	207 ± 14.0	128 ± 3.8	208 ± 7.6	180 ± 10.2
1000.0	102 ± 7.2	303 ± 9.7	303 ± 24.5	443 ± 5.7	391 ± 18.7
2000.0	110 ± 8.3 ^s				
3333.0		792 ± 17.9	432 ± 30.7	949 ± 21.0	824 ± 20.7
6666.0		277 ± 61.8		116 ± 15.1 ^s	
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ⁴				548 ± 20.9	664 ± 37.3
Positive Control ⁵		1343 ± 63.8	1277 ± 106.5		
Positive Control ⁶	147 ± 2.5				

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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 ± 0.9	16 ± 1.5	33 ± 1.5	27 ± 2.0	27 ± 3.5
33.0	18 ± 0.6	21 ± 0.6		39 ± 2.1	
100.0	20 ± 2.7	17 ± 0.7	64 ± 2.8	55 ± 5.5	60 ± 9.9
333.0	20 ± 3.0	22 ± 1.7	191 ± 4.1	180 ± 7.8	216 ± 20.5
1000.0	23 ± 4.7	21 ± 1.2	797 ± 3.7	779 ± 20.4	984 ± 12.9
2000.0	41 ± 4.6				
3333.0		21 ± 3.2	1159 ± 101.0	1121 ± 81.7	2011 ± 30.4
6666.0			234 ± 38.8		848 ± 37.8
Trial Summary	Equivocal	Negative	Positive	Positive	Positive
Positive Control ⁷					121 ± 1.7
Positive Control ²			262 ± 6.7	205 ± 9.3	
Positive Control ⁸	218 ± 6.8	180 ± 9.0			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	35 ± 2.4
33.0	34 ± 4.4
100.0	59 ± 6.0
333.0	179 ± 17.2
1000.0	824 ± 24.9
2000.0	
3333.0	1703 ± 79.2
6666.0	
Trial Summary	Positive
Positive Control ⁷	109 ± 9.0
Positive Control ²	
Positive Control ⁸	

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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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 2.0 ug/Plate 2-Aminoanthracene

6: 3.5 ug/Plate 9-Aminoacridine

7: 0.2 ug/Plate 2-Aminoanthracene

8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****