

Experiment Number: A83556

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

**G06: Ames Summary Data**

Test Compound: **4,6-Dinitro-o-cresol**

CAS Number: **534-52-1**

Date Report Requested: **09/18/2018**

Time Report Requested: **03:46:35**

**NTP Study Number:**

A83556

**Study Result:**

Positive

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Mutagenicity

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Test Compound: 4,6-Dinitro-o-cresol

CAS Number: 534-52-1

Date Report Requested: 09/18/2018

Time Report Requested: 03:46:35

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	98 ± 5.7	101 ± 8.1	120 ± 3.0	91 ± 2.0	93 ± 7.9
3.0		87 ± 1.0		120 ± 8.8	
10.0	95 ± 9.0	97 ± 3.0	137 ± 2.1	143 ± 13.0	101 ± 5.2
33.0	123 ± 1.9	103 ± 5.5	175 ± 4.5	173 ± 33.7	121 ± 3.8
100.0	150 ± 1.8	122 ± 2.9	252 ± 14.4	236 ± 23.6	154 ± 4.2
333.0	94 ± 7.1	134 ± 5.5	177 ± 12.0	192 ± 26.9	94 ± 4.7
666.0	Toxic		Toxic		Toxic
Trial Summary	Equivocal	Equivocal	Positive	Positive	Weakly Positive
Positive Control <sup>2</sup>					675 ± 43.2
Positive Control <sup>3</sup>	943 ± 19.4	836 ± 16.4			
Positive Control <sup>4</sup>			569 ± 29.2	574 ± 34.9	

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	105 ± 3.8
3.0	105 ± 6.8
10.0	106 ± 6.4
33.0	121 ± 1.2
100.0	156 ± 11.4
333.0	140 ± 6.1
666.0	
Trial Summary	Weakly Positive
Positive Control <sup>2</sup>	643 ± 14.2
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	13 ± 1.2	15 ± 1.5	16 ± 1.7	23 ± 5.5	18 ± 2.2
3.0		15 ± 3.4		33 ± 4.2	
10.0	16 ± 2.5	17 ± 0.3	111 ± 8.8	101 ± 11.7	47 ± 0.6
33.0	30 ± 2.2	30 ± 3.8	212 ± 3.4	149 ± 12.6	80 ± 3.5
100.0	50 ± 2.7	34 ± 0.9	226 ± 6.2	167 ± 11.2	129 ± 9.7
333.0	53 ± 2.4	49 ± 3.8	237 ± 12.8	207 ± 7.7	176 ± 11.2
666.0	15 ± 4.5		140 ± 17.9		93 ± 7.5
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>					499 ± 12.2
Positive Control <sup>5</sup>	371 ± 27.8	229 ± 18.9			
Positive Control <sup>4</sup>			457 ± 21.6	431 ± 22.6	

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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	25 ± 1.2
3.0	32 ± 2.6
10.0	45 ± 1.5
33.0	66 ± 4.6
100.0	118 ± 5.8
333.0	140 ± 12.4
666.0	
Trial Summary	Positive
Positive Control <sup>2</sup>	507 ± 3.6
Positive Control <sup>5</sup>	
Positive Control <sup>4</sup>	

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### LEGEND

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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: 2.0 ug/Plate 2-Aminoanthracene
- 3: 5.0 ug/Plate Sodium Azide
- 4: 5.0 ug/Plate 2-Aminoanthracene
- 5: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

**\*\* END OF REPORT \*\***