

Experiment Number: 388086

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Pentaerythritol tetranitrate

CAS Number: 78-11-5

Date Report Requested: 09/14/2018

Time Report Requested: 09:37:04

**NTP Study Number:**

388086

**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 <sup>1</sup>	79 ± 1.0	140 ± 1.5	70 ± 2.5	118 ± 4.1	78 ± 3.8
100.0	75 ± 6.0	139 ± 8.1	76 ± 6.8	121 ± 11.2	84 ± 5.4
333.0	76 ± 7.5	136 ± 6.6	71 ± 8.5	110 ± 7.1	83 ± 4.3
1000.0	81 ± 9.8	161 ± 1.5	85 ± 8.5	114 ± 1.7	85 ± 3.1
3333.0	71 ± 2.8	123 ± 9.1	82 ± 5.0	121 ± 6.1	83 ± 4.6
10000.0	73 ± 10.4 <sup>p</sup>	137 ± 8.8 <sup>p</sup>	91 ± 5.8 <sup>p</sup>	115 ± 10.5 <sup>p</sup>	89 ± 7.8 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	477 ± 27.0	505 ± 10.1			
Positive Control <sup>3</sup>			499 ± 49.5	697 ± 67.4	819 ± 98.9

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	185 ± 6.8
100.0	151 ± 6.1
333.0	146 ± 2.9
1000.0	164 ± 3.8
3333.0	161 ± 9.1
10000.0	169 ± 2.7 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	2617 ± 106.6

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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 <sup>1</sup>	6 ± 1.5	16 ± 2.0	4 ± 0.6	9 ± 1.8	7 ± 1.2
100.0	8 ± 1.9	24 ± 2.6	5 ± 1.5	7 ± 1.2	12 ± 2.0
333.0	8 ± 3.8	26 ± 1.2	5 ± 1.7	8 ± 1.7	10 ± 1.8
1000.0	7 ± 0.6	21 ± 0.9	6 ± 3.3	8 ± 1.3	7 ± 1.2
3333.0	8 ± 1.3	20 ± 1.9	6 ± 0.3	9 ± 2.2	8 ± 0.7
10000.0	11 ± 2.9 <sup>p</sup>	19 ± 2.7 <sup>p</sup>	7 ± 1.5 <sup>p</sup>	10 ± 3.5 <sup>p</sup>	10 ± 1.5 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	300 ± 6.2	523 ± 12.5			
Positive Control <sup>4</sup>			260 ± 15.4	265 ± 10.7	192 ± 21.5

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	8 ± 0.9
100.0	8 ± 1.5
333.0	9 ± 1.5
1000.0	7 ± 2.6
3333.0	8 ± 2.0
10000.0	7 ± 2.6 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	597 ± 3.9

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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 <sup>1</sup>	5 ± 0.9	5 ± 0.6	2 ± 0.3	6 ± 0.3	3 ± 0.3
100.0	5 ± 2.1	7 ± 0.7	4 ± 0.6	6 ± 1.7	9 ± 2.3
333.0	3 ± 1.5	7 ± 0.3	4 ± 1.3	10 ± 1.7	5 ± 1.0
1000.0	5 ± 2.1	5 ± 0.3	6 ± 1.2	8 ± 0.6	4 ± 0.9
3333.0	6 ± 0.3	5 ± 0.0	6 ± 1.3	9 ± 1.5	5 ± 0.7
10000.0	4 ± 1.5 <sup>p</sup>	5 ± 0.3 <sup>p</sup>	7 ± 1.2 <sup>p</sup>	7 ± 1.5 <sup>p</sup>	6 ± 2.6 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			124 ± 13.2	203 ± 23.4	62 ± 14.9
Positive Control <sup>5</sup>	123 ± 22.2	162 ± 71.1			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	5 ± 0.6
100.0	5 ± 0.6
333.0	9 ± 2.3
1000.0	6 ± 0.9
3333.0	7 ± 0.9
10000.0	7 ± 0.9 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>4</sup>	455 ± 41.2
Positive Control <sup>5</sup>	

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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 <sup>1</sup>	13 ± 0.6	35 ± 4.0	17 ± 1.5	36 ± 4.7	18 ± 0.9
100.0	8 ± 0.7	33 ± 6.0	17 ± 1.8	37 ± 3.8	21 ± 5.0
333.0	6 ± 0.3	27 ± 5.8	14 ± 0.9	32 ± 2.3	20 ± 2.6
1000.0	11 ± 2.3	29 ± 4.6	14 ± 2.5	36 ± 5.8	23 ± 1.9
3333.0	14 ± 1.5	23 ± 3.1	14 ± 2.9	40 ± 1.9	17 ± 1.5
10000.0	16 ± 3.5 <sup>p</sup>	28 ± 1.9 <sup>p</sup>	14 ± 1.2 <sup>p</sup>	43 ± 1.9 <sup>p</sup>	21 ± 2.7 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>			216 ± 15.2	532 ± 34.5	415 ± 5.0
Positive Control <sup>6</sup>	848 ± 26.7	848 ± 37.3			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	47 ± 1.2
100.0	37 ± 4.1
333.0	41 ± 3.9
1000.0	32 ± 3.6
3333.0	35 ± 4.4
10000.0	35 ± 2.1 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>3</sup>	1769 ± 56.9
Positive Control <sup>6</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: Water

2: 1.0 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

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