

Experiment Number: 244806

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: D-Phenylalanine

CAS Number: 673-06-3

Date Report Requested: 09/10/2018

Time Report Requested: 19:52:13

**NTP Study Number:**

244806

**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>	86 ± 5.2	109 ± 3.2	110 ± 3.1	121 ± 10.2	105 ± 5.8
100.0	63 ± 1.9	102 ± 2.2	41 ± 13.7	123 ± 2.4	42 ± 6.2
333.0	55 ± 6.7	86 ± 1.5	30 ± 9.3	111 ± 10.7	50 ± 14.3
1000.0	61 ± 6.2	99 ± 2.5	48 ± 14.0	111 ± 7.4	31 ± 13.4
3333.0	65 ± 7.5	85 ± 1.0	32 ± 4.1	108 ± 5.8	9 ± 0.9
10000.0	65 ± 7.5	82 ± 4.6	64 ± 12.4	104 ± 6.9	56 ± 50.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			1441 ± 112.5	1424 ± 83.3	1811 ± 112.2
Positive Control <sup>3</sup>	315 ± 40.9	565 ± 28.7			

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	140 ± 6.7
100.0	123 ± 3.2
333.0	127 ± 3.8
1000.0	120 ± 6.4
3333.0	127 ± 4.5
10000.0	119 ± 6.2
Trial Summary	Negative
Positive Control <sup>2</sup>	1216 ± 314.6
Positive Control <sup>3</sup>	

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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>	3 ± 1.2	17 ± 1.9	2 ± 0.6	27 ± 1.5	4 ± 0.9
3.3		16 ± 1.3			
10.0		11 ± 1.0		26 ± 3.2	
33.0		19 ± 1.5		32 ± 3.5	
100.0	1 ± 0.3	10 ± 0.6	4 ± 0.3	29 ± 3.7	11 ± 2.2
333.0	1 ± 0.3	8 ± 0.9	8 ± 2.2	30 ± 3.2	9 ± 3.1
1000.0	0 ± 0.0		8 ± 2.0	22 ± 2.4	10 ± 2.8
3333.0	0 ± 0.0		0 ± 0.0		0 ± 0.0
10000.0	0 ± 0.0		0 ± 0.0		0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			44 ± 9.0	56 ± 6.6	51 ± 3.8
Positive Control <sup>3</sup>	60 ± 19.8	685 ± 73.8			

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	31 ± 4.3
3.3	
10.0	27 ± 1.5
33.0	28 ± 4.0
100.0	28 ± 3.5
333.0	26 ± 2.7
1000.0	27 ± 1.2
3333.0	
10000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	78 ± 4.5
Positive Control <sup>3</sup>	

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## G06: Ames Summary Data

Test Compound: D-Phenylalanine

CAS Number: 673-06-3

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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>	2 ± 0.9	4 ± 1.0	6 ± 1.2	3 ± 0.9	6 ± 0.9
100.0	2 ± 1.5	2 ± 0.9	5 ± 2.3	7 ± 1.2	6 ± 1.0
333.0	2 ± 1.2	3 ± 0.9	4 ± 0.7	4 ± 2.1	4 ± 0.0
1000.0	1 ± 0.3	4 ± 1.2	3 ± 0.9	5 ± 1.2	3 ± 0.0
3333.0	1 ± 0.3	2 ± 0.7	2 ± 0.3	6 ± 1.7	1 ± 0.6
10000.0	1 ± 0.7	3 ± 1.0	1 ± 0.3	7 ± 1.0	1 ± 1.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			53 ± 13.6	135 ± 4.7	90 ± 23.0
Positive Control <sup>4</sup>	67 ± 8.2	506 ± 112.0			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	7 ± 0.9
100.0	9 ± 1.2
333.0	5 ± 0.3
1000.0	4 ± 1.2
3333.0	3 ± 1.7
10000.0	4 ± 0.3
Trial Summary	Negative
Positive Control <sup>2</sup>	228 ± 30.4
Positive Control <sup>4</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 ± 3.8	12 ± 2.6	20 ± 5.8	17 ± 1.8	20 ± 3.2
10.0				21 ± 2.0	
33.0				21 ± 3.2	
100.0	17 ± 0.7	12 ± 1.2	40 ± 11.5	15 ± 1.5	27 ± 3.6
333.0	13 ± 1.5	10 ± 1.3	23 ± 3.7	17 ± 1.3	36 ± 4.0
1000.0	3 ± 0.6	10 ± 1.8	Toxic	16 ± 4.3	Toxic
3333.0	4 ± 1.5	10 ± 2.2	0 ± 0.0		0 ± 0.0
10000.0	3 ± 0.5	9 ± 1.7	0 ± 0.0		0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			357 ± 119.7	740 ± 28.5	1111 ± 37.0
Positive Control <sup>5</sup>	110 ± 9.3	651 ± 23.0			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	19 ± 4.3
10.0	22 ± 1.9
33.0	22 ± 1.2
100.0	18 ± 2.4
333.0	22 ± 0.7
1000.0	24 ± 3.9
3333.0	
10000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	1335 ± 93.8
Positive Control <sup>5</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: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

\*\* END OF REPORT \*\*