

Experiment Number: 956843

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

**G06: Ames Summary Data**

Test Compound: **Valproic acid**

CAS Number: **99-66-1**

Date Report Requested: **09/17/2018**

Time Report Requested: **17:35:21**

**NTP Study Number:**

956843

**Study Result:**

Negative

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## G06: Ames Summary Data

Test Compound: Valproic acid

CAS Number: 99-66-1

Date Report Requested: 09/17/2018

Time Report Requested: 17:35:21

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	100 ± 6.0	105 ± 4.3	118 ± 5.0	129 ± 8.8	119 ± 6.5
33.0		105 ± 8.5	110 ± 3.8		125 ± 0.9
100.0	108 ± 3.6	98 ± 5.0	129 ± 3.3	135 ± 9.5	129 ± 4.3
333.0	112 ± 6.4	107 ± 2.5	125 ± 8.4	135 ± 0.7	130 ± 0.9
1000.0	92 ± 4.2	116 ± 4.4	123 ± 7.5	134 ± 11.0	127 ± 5.8
3333.0	97 ± 4.7	88 ± 7.3	125 ± 4.9	139 ± 2.0	110 ± 3.3
6666.0	78 ± 7.2				
10000.0				87 ± 11.1 <sup>P</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					744 ± 43.5
Positive Control <sup>3</sup>			445 ± 16.7		
Positive Control <sup>4</sup>				430 ± 24.3	
Positive Control <sup>5</sup>	647 ± 32.9	353 ± 19.7			

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	111 ± 13.3
33.0	
100.0	120 ± 8.4
333.0	112 ± 3.5
1000.0	110 ± 2.9
3333.0	111 ± 11.5
6666.0	
10000.0	96 ± 4.1 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	580 ± 21.1
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	

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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 <sup>1</sup>	9 ± 1.2	8 ± 0.9	8 ± 0.3	10 ± 1.2	12 ± 1.2
100.0	8 ± 1.0	11 ± 0.9	8 ± 0.9	16 ± 1.7	9 ± 0.7
333.0	9 ± 2.2	9 ± 1.2	10 ± 2.5	12 ± 1.9	6 ± 0.3
1000.0	9 ± 0.9	7 ± 2.6	7 ± 1.5	8 ± 1.5	7 ± 1.5
3333.0	7 ± 2.0	5 ± 1.8	8 ± 1.5	10 ± 1.5	7 ± 0.6
6666.0	4 ± 0.3	7 ± 1.2	7 ± 1.7	10 ± 1.7	5 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					164 ± 6.1
Positive Control <sup>4</sup>			103 ± 10.4		
Positive Control <sup>6</sup>				82 ± 4.3	
Positive Control <sup>5</sup>	271 ± 17.8	374 ± 10.9			

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

**G06: Ames Summary Data**

Test Compound: **Valproic acid**

CAS Number: **99-66-1**

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	11 ± 1.0
100.0	12 ± 1.2
333.0	9 ± 1.5
1000.0	9 ± 0.9
3333.0	12 ± 1.7
6666.0	6 ± 1.2
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	221 ± 13.4
Positive Control <sup>6</sup>	
Positive Control <sup>5</sup>	

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**G06: Ames Summary Data**

Date Report Requested: 09/17/2018

Test Type: **Genetic Toxicology - Bacterial  
Mutagenicity**Test Compound: **Valproic acid**

Time Report Requested: 17:35:21

CAS Number: 99-66-1

**Strain: TA97**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 30% Rat S9</b>	<b>With 30% Rat S9</b>
Vehicle Control <sup>1</sup>	192 ± 17.2	177 ± 9.0	180 ± 4.3	222 ± 8.6	213 ± 11.2
10.0	202 ± 4.6	182 ± 3.2	177 ± 13.3		223 ± 8.0
33.0	221 ± 3.5	183 ± 8.9	188 ± 6.6		214 ± 19.0
100.0	209 ± 14.7	191 ± 9.7	167 ± 1.5	213 ± 8.0	195 ± 21.3
333.0	210 ± 12.0	172 ± 5.4	174 ± 1.9	190 ± 10.4	219 ± 3.3
1000.0	182 ± 1.7	151 ± 20.5	178 ± 5.8	188 ± 4.1	212 ± 8.4
3333.0				132 ± 1.9	
6666.0				46 ± 13.5	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>			389 ± 12.3		
Positive Control <sup>4</sup>				364 ± 15.9	394 ± 11.5
Positive Control <sup>7</sup>	420 ± 11.9	408 ± 14.7			

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Test Compound: Valproic acid

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>	<b>With 30% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	164 ± 7.5	212 ± 10.6	168 ± 2.5
10.0	164 ± 4.7		201 ± 9.1
33.0	193 ± 8.1		208 ± 7.5
100.0	188 ± 6.9	191 ± 4.3	189 ± 15.7
333.0	172 ± 11.2	171 ± 3.3	188 ± 4.4
1000.0	169 ± 8.2	150 ± 0.7	165 ± 12.7
3333.0		124 ± 6.1	
6666.0		50 ± 17.4	
Trial Summary	Negative	Negative	Equivocal
Positive Control <sup>2</sup>	936 ± 29.2		
Positive Control <sup>3</sup>		366 ± 14.3	465 ± 25.8
Positive Control <sup>4</sup>			
Positive Control <sup>7</sup>			

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Test Compound: Valproic acid

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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 <sup>1</sup>	21 ± 0.9	18 ± 3.5	19 ± 0.3	22 ± 3.2	22 ± 3.2
33.0		18 ± 1.7	18 ± 1.0		25 ± 1.9
100.0	23 ± 4.4	21 ± 3.1	24 ± 2.6	21 ± 3.8	24 ± 2.0
333.0	18 ± 1.8	16 ± 1.5	16 ± 2.1	23 ± 2.0	29 ± 3.2
1000.0	21 ± 3.5	24 ± 1.5	18 ± 1.7	20 ± 3.3	19 ± 2.3
3333.0	19 ± 1.5	14 ± 3.8	20 ± 2.5	15 ± 3.2	24 ± 2.5
6666.0	12 ± 1.5				
10000.0				8 ± 3.0 <sup>p</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					689 ± 22.3
Positive Control <sup>3</sup>			408 ± 18.6	104 ± 11.6	
Positive Control <sup>8</sup>	495 ± 31.1	503 ± 17.9			



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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	21 ± 3.2
33.0	
100.0	18 ± 3.3
333.0	19 ± 1.9
1000.0	16 ± 1.5
3333.0	15 ± 1.0
6666.0	
10000.0	9 ± 1.2 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	414 ± 21.4
Positive Control <sup>8</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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 5.0 ug/Plate Sodium Azide

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

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