

Experiment Number: 923570  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**  
Test Compound: Cyclosporin A  
CAS Number: 59865-13-3

Date Report Requested: 09/17/2018  
Time Report Requested: 06:55:06

**NTP Study Number:** 923570  
**Study Result:** Negative

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## G06: Ames Summary Data

Test Compound: Cyclosporin A

CAS Number: 59865-13-3

Date Report Requested: 09/17/2018

Time Report Requested: 06:55:06

## 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>	89 ± 1.7	137 ± 8.4	144 ± 4.2	121 ± 3.7	129 ± 5.1
100.0	90 ± 4.9	128 ± 9.6	144 ± 3.1	131 ± 6.8	142 ± 2.8
333.0	84 ± 7.6	123 ± 9.6	140 ± 5.9	134 ± 6.5	122 ± 6.1
1000.0	87 ± 10.1	131 ± 7.2	136 ± 11.0	142 ± 4.0	109 ± 9.0
3333.0	91 ± 4.0 <sup>P</sup>	104 ± 9.2 <sup>P</sup>	135 ± 2.2 <sup>P</sup>	108 ± 5.5 <sup>P</sup>	128 ± 3.4 <sup>P</sup>
6666.0		110 ± 8.2 <sup>P</sup>	107 ± 3.2 <sup>P</sup>		108 ± 9.3 <sup>P</sup>
10000.0	85 ± 6.0 <sup>P</sup>			106 ± 1.8 <sup>P</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					983 ± 17.6
Positive Control <sup>3</sup>			474 ± 30.8		
Positive Control <sup>4</sup>				359 ± 12.1	
Positive Control <sup>5</sup>	1219 ± 41.3	1379 ± 29.5			

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	118 ± 11.5
100.0	111 ± 2.3
333.0	118 ± 6.2
1000.0	117 ± 5.2
3333.0	107 ± 4.8 <sup>p</sup>
6666.0	
10000.0	115 ± 0.3 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	678 ± 9.9
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 ± 3.0	9 ± 2.0	9 ± 1.2	13 ± 1.8	9 ± 0.7
100.0	8 ± 1.5	8 ± 2.3	10 ± 1.9	15 ± 1.7	7 ± 0.7
333.0	10 ± 3.0	6 ± 0.0	8 ± 2.9	16 ± 1.2	9 ± 1.7
1000.0	5 ± 1.5	5 ± 1.8	8 ± 0.9	14 ± 0.3	7 ± 1.0
3333.0	4 ± 1.2 <sup>P</sup>	4 ± 3.4 <sup>P</sup>	10 ± 0.6 <sup>P</sup>	10 ± 2.4 <sup>P</sup>	8 ± 0.3 <sup>P</sup>
6666.0		6 ± 1.2 <sup>P</sup>	7 ± 1.9 <sup>P</sup>		7 ± 1.3 <sup>P</sup>
10000.0	5 ± 2.0 <sup>P</sup>			8 ± 0.9 <sup>P</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					83 ± 9.0
Positive Control <sup>4</sup>			73 ± 3.3		
Positive Control <sup>6</sup>				59 ± 3.9	
Positive Control <sup>5</sup>	1220 ± 44.1	1521 ± 72.4			

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G06: Ames Summary Data  
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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	9 ± 2.1
100.0	10 ± 2.0
333.0	11 ± 2.5
1000.0	10 ± 3.2
3333.0	9 ± 1.5 <sup>p</sup>
6666.0	
10000.0	8 ± 1.2 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	185 ± 6.6
Positive Control <sup>6</sup>	
Positive Control <sup>5</sup>	

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## G06: Ames Summary Data

Test Compound: Cyclosporin A

CAS Number: 59865-13-3

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	171 ± 10.3	197 ± 13.7	216 ± 9.9	231 ± 10.3	200 ± 8.1
100.0	162 ± 22.7	203 ± 8.5	225 ± 5.5	228 ± 5.5	209 ± 9.5
333.0	179 ± 3.1	194 ± 7.4	223 ± 4.7	229 ± 14.2	209 ± 11.0
1000.0	170 ± 6.9	208 ± 8.4	214 ± 11.3	229 ± 11.3	207 ± 10.6
3333.0	165 ± 6.3 <sup>p</sup>	193 ± 5.5 <sup>p</sup>	223 ± 5.9 <sup>p</sup>	203 ± 13.5 <sup>p</sup>	196 ± 12.5 <sup>p</sup>
6666.0		162 ± 13.0 <sup>p</sup>	192 ± 13.0 <sup>p</sup>		178 ± 6.2 <sup>p</sup>
10000.0	133 ± 6.8 <sup>p</sup>			176 ± 13.9 <sup>p</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					507 ± 9.4
Positive Control <sup>3</sup>			352 ± 24.3		
Positive Control <sup>4</sup>				347 ± 5.5	
Positive Control <sup>7</sup>	378 ± 14.9	611 ± 56.4			

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	166 ± 11.3
100.0	172 ± 3.5
333.0	199 ± 5.5
1000.0	187 ± 12.1
3333.0	189 ± 12.9 <sup>P</sup>
6666.0	
10000.0	158 ± 20.0 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	399 ± 60.9
Positive Control <sup>4</sup>	
Positive Control <sup>7</sup>	

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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>	13 ± 2.9	16 ± 3.8	45 ± 3.2	17 ± 0.6	27 ± 1.2
100.0	18 ± 3.2	22 ± 5.0	26 ± 3.1	18 ± 1.8	35 ± 2.7
333.0	21 ± 3.4	23 ± 3.0	28 ± 2.6	16 ± 2.2	25 ± 2.6
1000.0	20 ± 7.1	21 ± 2.4	21 ± 3.2	19 ± 0.9	27 ± 0.3
3333.0	16 ± 1.8 <sup>P</sup>	28 ± 1.5 <sup>P</sup>	29 ± 6.7 <sup>P</sup>	18 ± 3.8 <sup>P</sup>	24 ± 2.3 <sup>P</sup>
6666.0		22 ± 1.9 <sup>P</sup>	23 ± 2.3 <sup>P</sup>		33 ± 4.1 <sup>P</sup>
10000.0	13 ± 1.7 <sup>P</sup>			17 ± 2.3 <sup>P</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					656 ± 65.4
Positive Control <sup>3</sup>			288 ± 16.2	150 ± 11.5	
Positive Control <sup>8</sup>	692 ± 77.9	910 ± 41.7			



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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	26 ± 2.7
100.0	25 ± 2.3
333.0	23 ± 2.8
1000.0	23 ± 3.5
3333.0	18 ± 1.7 <sup>P</sup>
6666.0	
10000.0	16 ± 4.5 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	480 ± 37.8
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: Water

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 \*\*