

Experiment Number: **099294**

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

**G06: Ames Summary Data**

Test Compound: **Emetine hydrochloride**

CAS Number: **316-42-7**

Date Report Requested: **09/11/2018**

Time Report Requested: **13:15:31**

**NTP Study Number:**

099294

**Study Result:**

Negative

Experiment Number: 099294

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Mutagenicity

## G06: Ames Summary Data

Test Compound: Emetine hydrochloride  
CAS Number: 316-42-7

Date Report Requested: 09/11/2018

Time Report Requested: 13:15:31

## 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>	96 ± 9.4	74 ± 2.9	132 ± 19.5	116 ± 7.5	140 ± 9.7
10.0					
33.0		66 ± 6.2		144 ± 8.2	
100.0	78 ± 3.5	71 ± 5.5	116 ± 3.2	132 ± 9.5	135 ± 13.7
333.0	78 ± 6.2	69 ± 7.4	119 ± 10.0	132 ± 4.6	127 ± 6.8
1000.0	65 ± 5.0	78 ± 6.7	108 ± 3.0	127 ± 4.4	124 ± 8.4
3333.0	45 ± 11.2	18 ± 3.4	110 ± 17.0	111 ± 2.3	93 ± 18.8
10000.0	Toxic		13 ± 2.0		17 ± 5.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			759 ± 92.7	1363 ± 27.4	999 ± 75.6
Positive Control <sup>3</sup>	1011 ± 6.7	806 ± 15.7			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	113 ± 4.5	203 ± 8.1
10.0		215 ± 22.2
33.0	145 ± 1.5	204 ± 4.0
100.0	137 ± 4.1	244 ± 15.9
333.0	141 ± 8.0	235 ± 16.2
1000.0	127 ± 11.6	208 ± 12.5
3333.0	97 ± 16.3	
10000.0		
Trial Summary	Negative	Negative
Positive Control <sup>2</sup>	1154 ± 71.3	1244 ± 99.2
Positive Control <sup>3</sup>		

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## G06: Ames Summary Data

Test Compound: Emetine hydrochloride

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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>	11 ± 1.2	7 ± 0.3	9 ± 1.7	10 ± 1.3	11 ± 2.1
10.0		7 ± 1.2		7 ± 1.2	
33.0		9 ± 1.2		12 ± 2.4	
100.0	8 ± 0.0	6 ± 0.9	12 ± 2.0	10 ± 1.0	13 ± 1.2
333.0	9 ± 1.2	7 ± 1.2	10 ± 1.2	12 ± 1.9	13 ± 2.0
1000.0	5 ± 0.9	4 ± 2.7	5 ± 0.6	10 ± 1.8	7 ± 1.8
3333.0	1 ± 0.9		5 ± 0.7		7 ± 1.3
10000.0	0 ± 0.0		3 ± 0.3		3 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			247 ± 19.0	218 ± 27.7	344 ± 14.1
Positive Control <sup>3</sup>	411 ± 14.8	233 ± 45.6			

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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>	11 ± 2.3
10.0	12 ± 0.9
33.0	10 ± 0.3
100.0	9 ± 0.9
333.0	10 ± 2.2
1000.0	7 ± 1.9
3333.0	
10000.0	
Trial Summary	Negative
Positive Control <sup>4</sup>	241 ± 34.1
Positive Control <sup>3</sup>	

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## G06: Ames Summary Data

Test Compound: Emetine hydrochloride

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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 ± 1.0	5 ± 1.7	8 ± 1.5	7 ± 0.7	8 ± 2.0
10.0		6 ± 1.7		7 ± 0.3	
33.0		7 ± 0.9		7 ± 1.0	
100.0	9 ± 1.2	6 ± 0.9	7 ± 2.0	8 ± 1.5	7 ± 1.9
333.0	7 ± 1.0	2 ± 0.3	12 ± 1.2	10 ± 0.7	4 ± 1.0
1000.0	2 ± 0.7	2 ± 0.3	13 ± 0.6	5 ± 0.7	6 ± 0.6
3333.0	1 ± 0.9		4 ± 1.5		5 ± 0.9
10000.0	0 ± 0.0		1 ± 0.9		0 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			165 ± 9.8	214 ± 23.7	132 ± 3.4
Positive Control <sup>5</sup>	797 ± 143.9	403 ± 114.3			

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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>	9 ± 1.8
10.0	9 ± 1.2
33.0	9 ± 1.7
100.0	9 ± 1.2
333.0	7 ± 2.4
1000.0	7 ± 1.8
3333.0	
10000.0	
Trial Summary	Negative
Positive Control <sup>4</sup>	153 ± 23.0
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>	15 ± 2.3	15 ± 1.5	23 ± 0.7	18 ± 2.1	27 ± 2.5
33.0		16 ± 0.3		21 ± 2.6	
100.0	10 ± 0.6	13 ± 2.7	15 ± 0.9	22 ± 1.8	19 ± 1.8
333.0	11 ± 0.7	18 ± 2.6	21 ± 3.1	21 ± 2.5	26 ± 1.2
1000.0	12 ± 0.9	16 ± 1.8	20 ± 1.5	23 ± 5.0	19 ± 3.2
3333.0	13 ± 0.9	10 ± 1.2	20 ± 2.9	21 ± 0.7	22 ± 0.6
10000.0	Toxic		18 ± 2.0		20 ± 2.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			437 ± 39.4	683 ± 39.2	590 ± 34.2
Positive Control <sup>6</sup>	130 ± 21.9	367 ± 20.6			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	18 ± 0.6
33.0	23 ± 4.0
100.0	23 ± 2.1
333.0	21 ± 3.5
1000.0	23 ± 2.6
3333.0	21 ± 3.3
10000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	876 ± 83.3
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 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

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