

Experiment Number: 689679

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Hydroxylamine sulfate (2:1)

CAS Number: 10039-54-0

Date Report Requested: 09/13/2018

Time Report Requested: 02:16:32

**NTP Study Number:**

689679

**Study Result:**

Negative

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Test Compound: Hydroxylamine sulfate (2:1)

CAS Number: 10039-54-0

Date Report Requested: 09/13/2018

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## 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>	159 ± 10.0	118 ± 4.7	120 ± 9.8	115 ± 4.0	112 ± 7.2
1.0		114 ± 1.9	135 ± 33.7		135 ± 12.0
3.0	166 ± 2.7	113 ± 10.0	105 ± 3.5	125 ± 7.5	111 ± 0.9
10.0	186 ± 6.4	102 ± 10.7	118 ± 8.7	125 ± 11.2	118 ± 3.8
33.0	143 ± 6.2	97 ± 0.6	134 ± 5.5	132 ± 8.4	92 ± 6.5
100.0	141 ± 1.9	83 ± 13.3	125 ± 7.2	136 ± 5.8	21 ± 6.3
333.0	27 ± 12.7			59 ± 14.0	
1000.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					502 ± 21.8
Positive Control <sup>3</sup>			338 ± 10.2		
Positive Control <sup>4</sup>				318 ± 0.7	
Positive Control <sup>5</sup>	618 ± 20.8	328 ± 5.4			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	187 ± 4.9	111 ± 9.0
1.0		125 ± 8.3
3.0		122 ± 4.6
10.0	213 ± 3.5	120 ± 9.7
33.0	203 ± 8.0	119 ± 5.0
100.0	121 ± 7.9	92 ± 16.0
333.0	13 ± 3.7	
1000.0	0 ± 0.0 <sup>s</sup>	
Trial Summary	Negative	Negative
Positive Control <sup>2</sup>		
Positive Control <sup>3</sup>	413 ± 42.2	398 ± 15.8
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>	8 ± 0.6	10 ± 0.3	11 ± 2.3	11 ± 0.7	9 ± 1.5
1.0	11 ± 1.2	10 ± 1.5	11 ± 1.7	7 ± 1.7	8 ± 2.0
3.0	8 ± 1.0	10 ± 2.6	5 ± 0.7	14 ± 2.5	8 ± 0.3
10.0	7 ± 0.9	10 ± 2.2	8 ± 1.5	14 ± 1.2	7 ± 0.3
33.0	8 ± 1.3	6 ± 2.0	6 ± 0.9	10 ± 2.4	6 ± 1.8
100.0	3 ± 1.2 <sup>s</sup>	12 ± 1.5	10 ± 2.3	8 ± 0.3	4 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					71 ± 1.5
Positive Control <sup>4</sup>			72 ± 6.3		
Positive Control <sup>5</sup>	533 ± 14.8	282 ± 36.1			
Positive Control <sup>6</sup>				96 ± 7.0	

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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>	14 ± 2.7
1.0	13 ± 1.2
3.0	11 ± 1.3
10.0	11 ± 2.0
33.0	8 ± 0.9
100.0	6 ± 1.0
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	166 ± 12.5
Positive Control <sup>5</sup>	
Positive Control <sup>6</sup>	

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Test Compound: Hydroxylamine sulfate (2:1)

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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>	156 ± 3.8	199 ± 7.9	193 ± 1.5	178 ± 17.0	174 ± 7.3
1.0	158 ± 7.3	226 ± 3.5	186 ± 13.2	182 ± 9.0	163 ± 11.5
3.0	167 ± 5.9	226 ± 6.4	190 ± 2.2	205 ± 2.2	170 ± 4.4
10.0	156 ± 10.7	204 ± 7.1	155 ± 7.6	198 ± 4.3	180 ± 10.9
33.0	142 ± 5.7	207 ± 17.0	223 ± 6.8	216 ± 6.8	185 ± 15.6
100.0	63 ± 26.1	211 ± 12.2	192 ± 28.2	126 ± 46.4	177 ± 15.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					391 ± 19.6
Positive Control <sup>3</sup>			335 ± 22.7		
Positive Control <sup>4</sup>				366 ± 12.1	
Positive Control <sup>7</sup>	434 ± 10.9	387 ± 18.6			

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	181 ± 16.4
1.0	147 ± 8.8
3.0	194 ± 5.2
10.0	204 ± 10.3
33.0	164 ± 1.8
100.0	163 ± 3.4
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	348 ± 22.0
Positive Control <sup>4</sup>	
Positive Control <sup>7</sup>	

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Test Compound: Hydroxylamine sulfate (2:1)

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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>	29 ± 2.0	24 ± 2.7	19 ± 4.4	23 ± 5.4	20 ± 2.2
1.0		28 ± 1.5	15 ± 1.5		18 ± 2.8
3.0	23 ± 2.0	22 ± 2.4	19 ± 1.7	25 ± 2.9	16 ± 1.2
10.0	18 ± 0.3	24 ± 2.3	18 ± 3.1	24 ± 3.6	12 ± 0.9
33.0	30 ± 4.9	28 ± 5.2	15 ± 1.9	21 ± 2.0	11 ± 0.7
100.0	18 ± 1.3	17 ± 1.9	15 ± 1.5	23 ± 2.7	2 ± 0.9
333.0	7 ± 1.2			8 ± 2.6	
1000.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					262 ± 47.2
Positive Control <sup>3</sup>			136 ± 20.4	107 ± 6.1	
Positive Control <sup>8</sup>	992 ± 31.3	773 ± 71.9			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	21 ± 4.9	19 ± 1.2
1.0		21 ± 0.3
3.0		16 ± 0.6
10.0	17 ± 0.3	23 ± 1.5
33.0	19 ± 2.9	16 ± 0.9
100.0	10 ± 2.4	8 ± 2.3
333.0	0 ± 0.0 <sup>s</sup>	
1000.0	0 ± 0.0 <sup>s</sup>	
Trial Summary	Negative	Negative
Positive Control <sup>2</sup>		
Positive Control <sup>3</sup>	296 ± 5.8	352 ± 42.9
Positive Control <sup>8</sup>		

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## Strain: TA102

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	281 ± 11.8	244 ± 22.9	243 ± 17.3	281 ± 3.6	268 ± 11.7
0.3		231 ± 11.6	242 ± 25.7		235 ± 19.4
1.0	264 ± 14.1	217 ± 13.7	242 ± 5.9	268 ± 10.8	259 ± 8.8
3.0	278 ± 4.3	254 ± 20.0	261 ± 4.8	277 ± 11.6	250 ± 9.5
10.0	272 ± 0.3	256 ± 1.5	233 ± 8.1	260 ± 1.8	262 ± 9.2
33.0	297 ± 25.4	229 ± 14.6	252 ± 21.3	263 ± 11.3	270 ± 14.1
100.0	263 ± 20.6	240 ± 13.5	281 ± 0.5	238 ± 7.0	230 ± 11.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>9</sup>	519 ± 17.6	662 ± 20.2			
Positive Control <sup>6</sup>					755 ± 79.0
Positive Control <sup>10</sup>			885 ± 15.8	497 ± 60.9	

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**Strain: TA102**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	297 ± 19.0
0.3	
1.0	270 ± 14.6
3.0	322 ± 8.4
10.0	285 ± 13.9
33.0	262 ± 8.7
100.0	80 ± 6.0 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>9</sup>	
Positive Control <sup>6</sup>	588 ± 24.1
Positive Control <sup>10</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

9: 0.5 ug/Plate Mitomycin-C

10: 10.0 ug/Plate 2-Aminoanthracene

s: Slight Toxicity

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