

Experiment Number: 064475

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

**G06: Ames Summary Data**

Test Compound: **Hydrazine sulfate**

CAS Number: **10034-93-2**

Date Report Requested: **09/10/2018**

Time Report Requested: **18:03:44**

**NTP Study Number:**

064475

**Study Result:**

Positive

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## G06: Ames Summary Data

Test Compound: Hydrazine sulfate

CAS Number: 10034-93-2

Date Report Requested: 09/10/2018

Time Report Requested: 18:03:44

## 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>	141 ± 2.9	112 ± 14.8	164 ± 12.7	136 ± 16.5	163 ± 5.7
3.3	125 ± 3.0		160 ± 2.0		142 ± 2.4
10.0	140 ± 5.5		150 ± 5.5		156 ± 5.5
33.0	170 ± 1.2		160 ± 3.7		150 ± 1.5
100.0	160 ± 4.2		153 ± 1.5		148 ± 3.3
167.0	152 ± 3.5	116 ± 5.9	190 ± 9.2	180 ± 12.7	171 ± 5.0
333.0		99 ± 6.1		177 ± 9.7	
667.0		188 ± 10.7		122 ± 7.1	
1000.0		138 ± 8.1		Toxic	
1670.0		Toxic		Toxic	
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control <sup>2</sup>			1117 ± 48.9	874 ± 33.5	1515 ± 14.5
Positive Control <sup>3</sup>	601 ± 76.6	501 ± 26.9			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	162 ± 1.8
3.3	
10.0	
33.0	
100.0	
167.0	192 ± 11.2
333.0	197 ± 2.0
667.0	190 ± 3.3
1000.0	Toxic
1670.0	Toxic
Trial Summary	Negative
Positive Control <sup>2</sup>	618 ± 21.9
Positive Control <sup>3</sup>	

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## G06: Ames Summary Data

Test Compound: Hydrazine sulfate

CAS Number: 10034-93-2

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	8 ± 1.8	4 ± 2.2	4 ± 1.5	10 ± 1.2	7 ± 1.7
3.3	11 ± 1.0			11 ± 0.3	
10.0	11 ± 2.4			16 ± 1.0	
16.7		5 ± 2.7			8 ± 1.2
33.0	16 ± 0.9	6 ± 1.9		10 ± 2.0	8 ± 0.6
66.7		14 ± 1.8			15 ± 0.9
100.0	28 ± 1.8	15 ± 4.4		19 ± 3.5	12 ± 2.1
167.0	28 ± 2.4	20 ± 4.7	24 ± 4.9	26 ± 4.4	20 ± 2.0
333.0			29 ± 1.7		
667.0			40 ± 7.3		
1000.0			33 ± 0.9		
1670.0			33 ± 4.2		
Trial Summary	Positive	Positive	Positive	Positive	Equivocal
Positive Control <sup>2</sup>				320 ± 6.2	79 ± 3.1
Positive Control <sup>3</sup>	567 ± 12.0	421 ± 16.2	376 ± 26.7		

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## Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	4 ± 1.5	8 ± 1.3	5 ± 1.7	4 ± 0.6
3.3		13 ± 1.2		
10.0		10 ± 0.9		
16.7			8 ± 1.9	
33.0		18 ± 2.3	8 ± 2.0	
66.7			14 ± 2.9	
100.0		21 ± 1.9	18 ± 3.1	
167.0	54 ± 31.8	31 ± 2.7	17 ± 0.9	39 ± 7.9
333.0	40 ± 5.9			38 ± 2.9
667.0	33 ± 8.7			47 ± 4.1
1000.0	42 ± 6.9			42 ± 3.0
1670.0	8 ± 1.2			11 ± 3.5
Trial Summary	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>	108 ± 22.5	136 ± 4.7	68 ± 8.8	62 ± 4.8
Positive Control <sup>3</sup>				

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## G06: Ames Summary Data

Test Compound: Hydrazine sulfate

CAS Number: 10034-93-2

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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>	4 ± 0.9	3 ± 0.3	7 ± 2.0	5 ± 1.2	6 ± 1.2
3.3	6 ± 0.9		13 ± 1.5		7 ± 1.8
10.0	3 ± 0.9		9 ± 0.6		10 ± 1.5
33.0	8 ± 1.2		17 ± 3.6		12 ± 0.9
100.0	5 ± 0.3		6 ± 1.0		9 ± 1.0
167.0	6 ± 1.5	5 ± 0.0	11 ± 0.7	4 ± 1.5	9 ± 0.7
333.0		3 ± 0.3		1 ± 0.3	
667.0		3 ± 0.6		5 ± 1.0	
1000.0		Toxic		1 ± 0.0	
1670.0		0 ± 0.0		Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			111 ± 8.0	83 ± 8.6	84 ± 4.5
Positive Control <sup>4</sup>	1336 ± 291.0	968 ± 123.0			

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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>	6 ± 0.9
3.3	
10.0	
33.0	
100.0	
167.0	8 ± 1.2
333.0	4 ± 0.3
667.0	2 ± 0.3
1000.0	2 ± 0.3
1670.0	Toxic
Trial Summary	Negative
Positive Control <sup>2</sup>	201 ± 2.8
Positive Control <sup>4</sup>	

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## G06: Ames Summary Data

Test Compound: Hydrazine sulfate

CAS Number: 10034-93-2

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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>	24 ± 5.0	19 ± 2.7	33 ± 0.7	26 ± 3.8	28 ± 1.0
3.3	22 ± 1.3		24 ± 1.2		26 ± 0.3
10.0	29 ± 7.6		39 ± 8.4		29 ± 0.7
33.0	19 ± 1.3		23 ± 1.7		22 ± 1.7
100.0	21 ± 2.7		31 ± 2.6		24 ± 1.7
167.0	19 ± 1.3	14 ± 2.6	18 ± 0.3	22 ± 4.3	30 ± 0.3
333.0		13 ± 0.9		26 ± 1.5	
667.0		15 ± 2.4		28 ± 2.7	
1000.0		Toxic		14 ± 2.4	
1670.0		0 ± 0.0		Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			938 ± 19.5	361 ± 71.3	744 ± 79.6
Positive Control <sup>5</sup>	323 ± 5.9	189 ± 11.3			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	22 ± 3.2
3.3	
10.0	
33.0	
100.0	
167.0	21 ± 1.3
333.0	26 ± 2.7
667.0	25 ± 1.3
1000.0	Toxic
1670.0	Toxic
Trial Summary	Negative
Positive Control <sup>2</sup>	649 ± 37.8
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: Water

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 \*\***