

Experiment Number: 027614

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Halazone

CAS Number: 80-13-7

Date Report Requested: 09/14/2018

Time Report Requested: 13:46:30

**NTP Study Number:**

027614

**Study Result:**

Positive

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Date Report Requested: 09/14/2018

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

Test Compound: Halazone

Time Report Requested: 13:46:30

**Strain: TA100**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>
Vehicle Control <sup>1</sup>	101 ± 7.3	96 ± 2.8	118 ± 10.7	102 ± 4.5	110 ± 7.3
100.0	92 ± 4.6	122 ± 5.2	117 ± 13.5	125 ± 5.2	
333.0	144 ± 3.0	141 ± 16.8	96 ± 4.7	137 ± 7.8	125 ± 1.2
666.0		166 ± 21.3	131 ± 2.9		
1000.0	180 ± 4.3	231 ± 12.2	151 ± 7.8	143 ± 15.2	161 ± 6.0
1666.0		220 ± 3.5	191 ± 8.0		176 ± 4.9
3333.0	Toxic			170 ± 0.3	211 ± 18.1
6666.0					254 ± 19.2
10000.0	Toxic			1 ± 1.3 <sup>s</sup>	
Trial Summary	Equivocal	Positive	Weakly Positive	Equivocal	Positive
Positive Control <sup>2</sup>				482 ± 16.1	464 ± 5.2
Positive Control <sup>3</sup>	288 ± 6.7	348 ± 10.4	297 ± 18.2		

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	124 ± 5.5	103 ± 10.7	120 ± 7.0	114 ± 4.1
100.0		108 ± 10.8		
333.0	106 ± 10.1	111 ± 6.7	105 ± 10.1	105 ± 2.1
666.0				
1000.0	130 ± 10.3	144 ± 1.2	129 ± 10.6	127 ± 6.1
1666.0	160 ± 5.8		176 ± 19.0	136 ± 11.3
3333.0	172 ± 0.6	193 ± 12.7	232 ± 22.3	191 ± 12.1
6666.0	211 ± 6.0		249 ± 20.0	252 ± 15.2
10000.0		Toxic		
Trial Summary	Positive	Equivocal	Positive	Positive
Positive Control <sup>2</sup>	664 ± 19.7	1216 ± 32.9	1067 ± 33.1	1641 ± 35.6
Positive Control <sup>3</sup>				

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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>	19 ± 2.6	23 ± 4.0	7 ± 0.7	9 ± 1.5	7 ± 1.2
100.0	7 ± 0.7	26 ± 0.9	8 ± 1.2		8 ± 0.6
333.0	10 ± 1.7	25 ± 3.0	7 ± 0.6	7 ± 1.0	8 ± 2.2
666.0		21 ± 6.2			
1000.0	11 ± 2.4	25 ± 2.6	8 ± 0.9	10 ± 1.2	6 ± 0.9
1666.0		22 ± 2.7		7 ± 0.6	
3333.0	Toxic		4 ± 0.6	9 ± 2.6	3 ± 2.7 <sup>s</sup>
6666.0				8 ± 2.4	
10000.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>	224 ± 7.2	366 ± 31.1			
Positive Control <sup>4</sup>			153 ± 16.9	257 ± 29.8	267 ± 3.0

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	7 ± 0.3
100.0	
333.0	6 ± 0.6
666.0	
1000.0	8 ± 2.2
1666.0	9 ± 3.2
3333.0	12 ± 1.9
6666.0	12 ± 2.4
10000.0	
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	452 ± 6.0

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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 ± 1.2	3 ± 0.7	5 ± 0.6	6 ± 1.5	6 ± 0.7
100.0	3 ± 0.6	4 ± 0.7	6 ± 1.8		4 ± 0.3
333.0	3 ± 0.9	5 ± 0.3	6 ± 1.5	7 ± 1.7	8 ± 1.0
666.0		5 ± 0.9			
1000.0	5 ± 1.7	8 ± 2.7	6 ± 1.5	6 ± 0.6	5 ± 1.2
1666.0		9 ± 5.2		5 ± 1.2	
3333.0	Toxic		0 ± 0.0 <sup>s</sup>	7 ± 0.9	4 ± 0.7
6666.0				5 ± 0.3	
10000.0	Toxic		0 ± 0.0 <sup>s</sup>		0 ± 0.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			151 ± 15.4	160 ± 22.2	476 ± 8.8
Positive Control <sup>5</sup>	129 ± 9.8	241 ± 23.8			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	5 ± 1.0
100.0	
333.0	4 ± 0.9
666.0	
1000.0	8 ± 2.3
1666.0	5 ± 0.7
3333.0	5 ± 1.2
6666.0	5 ± 0.6
10000.0	
Trial Summary	Negative
Positive Control <sup>4</sup>	422 ± 28.3
Positive Control <sup>5</sup>	

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	15 ± 1.5	14 ± 1.2	17 ± 0.9	23 ± 2.9	22 ± 2.0
100.0	15 ± 0.9	15 ± 0.7	11 ± 2.5	21 ± 4.5	
333.0	16 ± 1.0	14 ± 2.5	14 ± 1.2	22 ± 1.9	21 ± 4.9
666.0		31 ± 2.9	20 ± 2.9		
1000.0	10 ± 1.2	22 ± 1.9	15 ± 1.2	33 ± 6.6	36 ± 7.4
1666.0		34 ± 4.3	16 ± 0.9		34 ± 2.7
3333.0	Toxic			14 ± 1.9 <sup>s</sup>	42 ± 1.2
6666.0					32 ± 1.3
10000.0	Toxic			0 ± 0.0 <sup>s</sup>	
Trial Summary	Negative	Equivocal	Negative	Negative	Equivocal
Positive Control <sup>2</sup>				496 ± 76.4	411 ± 13.7
Positive Control <sup>6</sup>	381 ± 2.4	480 ± 38.2	282 ± 21.4		



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Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	32 ± 8.4	22 ± 3.2	24 ± 2.0	31 ± 5.7
100.0		29 ± 4.3		
333.0	29 ± 3.8	26 ± 3.2	25 ± 2.6	33 ± 2.7
666.0				
1000.0	27 ± 5.5	32 ± 0.7	24 ± 2.1	30 ± 1.0
1666.0	25 ± 2.0		25 ± 2.6	35 ± 4.0
3333.0	27 ± 1.9	24 ± 5.6	41 ± 8.0	42 ± 4.8
6666.0	30 ± 0.6		30 ± 1.5	38 ± 3.5
10000.0		Toxic		
Trial Summary	Negative	Negative	Equivocal	Negative
Positive Control <sup>2</sup>	479 ± 43.6	1026 ± 43.8	1012 ± 54.6	1300 ± 95.3
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: Dimethyl Sulfoxide

2: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

\*\* END OF REPORT \*\*