

Experiment Number: A25847

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

**G06: Ames Summary Data**

Test Compound: **Formaldehyde**

CAS Number: **50-00-0**

Date Report Requested: **09/16/2018**

Time Report Requested: **14:19:58**

**NTP Study Number:**

A25847

**Study Result:**

Positive

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**Strain: TA100**

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	153 ± 6.1	154 ± 11.4	192 ± 5.0	174 ± 8.1	172 ± 7.0
10.0	199 ± 8.1	207 ± 16.1	177 ± 8.5		164 ± 5.8
33.0	558 ± 31.9	540 ± 2.5	248 ± 11.1	233 ± 8.2	191 ± 20.7
66.0	632 ± 9.7	603 ± 16.4	468 ± 34.1	469 ± 17.2	225 ± 19.5
100.0	570 ± 11.8	467 ± 5.1	808 ± 38.4	667 ± 4.9	303 ± 5.7
333.0	Toxic	Toxic	434 ± 8.5	379 ± 20.2	725 ± 3.9
666.0				Toxic	
1000.0					
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>					661 ± 63.5
Positive Control <sup>3</sup>	627 ± 7.1	641 ± 12.3			
Positive Control <sup>4</sup>			633 ± 7.4	640 ± 33.4	

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	148 ± 6.8
10.0	
33.0	
66.0	273 ± 15.6
100.0	341 ± 2.6
333.0	726 ± 7.0
666.0	268 ± 8.7
1000.0	Toxic
Trial Summary	Positive
Positive Control <sup>2</sup>	780 ± 60.3
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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**Strain: TA98**

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	20 ± 0.6	22 ± 2.3	35 ± 1.0	34 ± 3.8	39 ± 6.9
10.0	32 ± 3.7	39 ± 2.0			
33.0	72 ± 3.3	79 ± 0.6	57 ± 4.5	55 ± 3.8	
66.0	109 ± 10.3	102 ± 0.0	69 ± 5.2	90 ± 0.9	52 ± 2.3
100.0	102 ± 4.8	95 ± 2.3	107 ± 3.9	108 ± 2.1	69 ± 1.5
333.0	Toxic	Toxic	96 ± 2.3	97 ± 4.5	125 ± 6.5
666.0			Toxic	Toxic	74 ± 6.3
1000.0					Toxic
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>			209 ± 13.5	172 ± 1.7	630 ± 7.2
Positive Control <sup>5</sup>	222 ± 19.4	192 ± 5.3			

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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	37 ± 6.0
10.0	
33.0	
66.0	55 ± 2.5
100.0	71 ± 5.6
333.0	105 ± 11.1
666.0	70 ± 5.5
1000.0	Toxic
Trial Summary	Positive
Positive Control <sup>2</sup>	664 ± 21.4
Positive Control <sup>5</sup>	

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**Strain: TA102**

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	330 ± 3.2	332 ± 166.6	367 ± 18.3
10.0	315 ± 3.8		
33.0	574 ± 13.2	577 ± 46.7	
66.0	998 ± 16.5	331 ± 330.7 <sup>x</sup>	453 ± 40.6
100.0	682 ± 344.2	536 ± 270.0	991 ± 3.5
333.0	463 ± 231.7	932 ± 15.5	1695 ± 121.5
666.0		758 ± 42.3	1540 ± 50.0
1000.0			Toxic
Trial Summary	Positive	Positive	Positive
Positive Control <sup>6</sup>	1150 ± 136.7		
Positive Control <sup>7</sup>		1474 ± 70.0	600 ± 23.1

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**Strain: TA104**

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<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 30% Rat S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	392 ± 19.0	596 ± 38.8	549 ± 22.6
10.0	582 ± 20.8		
33.0	1093 ± 16.3	930 ± 8.4	
66.0	1151 ± 19.1	1137 ± 17.7	831 ± 9.3
100.0	1088 ± 14.8	1299 ± 7.4	746 ± 48.2
333.0	Toxic	1377 ± 11.2	1191 ± 8.3
666.0		Toxic	971 ± 31.2
1000.0			Toxic
Trial Summary	Positive	Positive	Positive
Positive Control <sup>2</sup>			1005 ± 19.5
Positive Control <sup>4</sup>		1063 ± 10.1	
Positive Control <sup>8</sup>	1035 ± 10.4		

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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: 1.0 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

6: 5.0 ug/Plate Mitomycin-C

7: 100.0 ug/Plate Other Positive Control

8: 100.0 ug/Plate Methyl Methane Sulfonate

x: Slight Toxicity and Precipitate

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