

Experiment Number: A83562

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

**G06: Ames Summary Data**

Test Compound: **Formaldehyde**

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

Date Report Requested: **09/18/2018**

Time Report Requested: **03:50:10**

**NTP Study Number:**

A83562

**Study Result:**

Positive

Experiment Number: A83562  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: Formaldehyde  
CAS Number: 50-00-0

Date Report Requested: 09/18/2018  
Time Report Requested: 03:50:10

Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Mouse S9
Vehicle Control <sup>1</sup>	112 ± 8.0	108 ± 5.4	125 ± 0.3
6.25	120 ± 7.6	134 ± 8.5	142 ± 3.3
12.5	186 ± 11.9	173 ± 1.8	163 ± 1.0
15.0	234 ± 10.9	204 ± 5.0	162 ± 5.8
20.0	292 ± 4.6	245 ± 12.9	182 ± 2.6
25.0	328 ± 12.7	283 ± 8.7	211 ± 4.4
50.0	406 ± 8.2	486 ± 30.2	291 ± 9.0
Trial Summary	Positive	Positive	Positive
Positive Control <sup>2</sup>		813 ± 7.4	997 ± 34.1
Positive Control <sup>3</sup>	352 ± 2.6		

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## G06: Ames Summary Data

Test Compound: Formaldehyde

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## Strain: TA102

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Mouse S9
Vehicle Control <sup>1</sup>	233 ± 8.4	251 ± 5.5	286 ± 13.7	316 ± 17.3	248 ± 15.3
6.25	296 ± 9.0	307 ± 0.3	333 ± 7.5	360 ± 8.2	275 ± 13.0
12.5	340 ± 22.4	323 ± 4.6	324 ± 3.0	425 ± 6.6	299 ± 13.0
15.0	447 ± 8.6	349 ± 7.5	338 ± 3.8	497 ± 11.9	327 ± 4.2
20.0	423 ± 9.0	379 ± 7.3	307 ± 22.9	526 ± 4.6	271 ± 23.5
25.0	368 ± 18.2 <sup>s</sup>	332 ± 14.6	304 ± 9.5 <sup>s</sup>	469 ± 18.4	273 ± 16.7
50.0	473 ± 19.1 <sup>s</sup>	486 ± 8.6	263 ± 15.7 <sup>s</sup>	492 ± 5.0	264 ± 0.6
Trial Summary	Positive	Positive	Equivocal	Positive	Equivocal
Positive Control <sup>4</sup>	1959 ± 54.0	1230 ± 8.7			
Positive Control <sup>2</sup>			665 ± 52.2	605 ± 38.9	550 ± 4.1

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**G06: Ames Summary Data**  
 Test Compound: Formaldehyde  
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**Strain: TA104**

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Mouse S9
Vehicle Control <sup>1</sup>	266 ± 7.2	393 ± 6.4	514 ± 42.8	545 ± 6.6
6.25	536 ± 12.4	495 ± 5.9	643 ± 9.9	613 ± 9.0
12.5	842 ± 7.9	559 ± 13.2	823 ± 27.8	654 ± 14.2
15.0		646 ± 21.8	842 ± 12.5	704 ± 19.2
20.0		706 ± 18.2	909 ± 14.1	849 ± 15.7
25.0	977 ± 44.4	793 ± 16.3	934 ± 1.5	895 ± 53.0
50.0	923 ± 56.6	857 ± 26.2	1046 ± 0.9	1042 ± 5.9
100.0	592 ± 32.6 <sup>s</sup>			
200.0	Toxic			
Trial Summary	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>			907 ± 6.5	954 ± 3.0
Positive Control <sup>5</sup>	388 ± 16.5			
Positive Control <sup>6</sup>		650 ± 19.0		

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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: 100.0 ug/Plate Methyl Methane Sulfonate

4: 0.5 ug/Plate Mitomycin-C

5: 3.125 ug/Plate Other Positive Control

6: 200.0 ug/Plate Other Positive Control

s: Slight Toxicity

\*\* END OF REPORT \*\*