

Experiment Number: 502523

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

**G06: Ames Summary Data**

Test Compound: **Glutaraldehyde**

CAS Number: **111-30-8**

Date Report Requested: **09/12/2018**

Time Report Requested: **05:22:52**

**NTP Study Number:**

502523

**Study Result:**

Positive

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**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>	65 ± 5.5 <sup>x</sup>	82 ± 9.0	91 ± 3.6	83 ± 1.7	94 ± 5.7
25.0	106 ± 6.5	116 ± 4.9	108 ± 6.4	119 ± 4.9	121 ± 4.2
50.0	84 ± 7.4 <sup>x</sup>	135 ± 2.2	159 ± 5.4	163 ± 3.5	180 ± 3.1
100.0	131 ± 1.2 <sup>x</sup>	197 ± 27.4	330 ± 14.7	255 ± 3.8	259 ± 16.7
200.0	149 ± 13.0 <sup>x</sup>	356 ± 18.1	355 ± 35.7	96 ± 9.0	177 ± 11.1
300.0	89 ± 3.8 <sup>s</sup>	152 ± 4.4 <sup>s</sup>	117 ± 9.1 <sup>s</sup>	85 ± 4.3 <sup>s</sup>	133 ± 10.7 <sup>s</sup>
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>				408 ± 17.6	829 ± 38.0
Positive Control <sup>3</sup>		338 ± 12.5			
Positive Control <sup>4</sup>	182 ± 5.3 <sup>x</sup>		455 ± 4.4		

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**Strain: TA100**

<b>Dose (ug/Plate)</b>	<b>With 10% Mouse S9</b>	<b>With 10% Mouse S9</b>	<b>With 10% Mouse S9</b>
Vehicle Control <sup>1</sup>	84 ± 2.0	112 ± 3.6	90 ± 2.7
25.0	116 ± 6.2	122 ± 2.9	114 ± 4.3
50.0	139 ± 9.7	151 ± 1.7	146 ± 14.0
100.0	146 ± 19.5	224 ± 18.2	261 ± 8.2
200.0	151 ± 11.0	256 ± 19.6	296 ± 6.5
300.0	90 ± 3.5 <sup>s</sup>	158 ± 13.2 <sup>s</sup>	86 ± 6.8 <sup>s</sup>
Trial Summary	Weakly Positive	Positive	Positive
Positive Control <sup>2</sup>	512 ± 15.5	1308 ± 105.9	1253 ± 78.9
Positive Control <sup>3</sup>			
Positive Control <sup>4</sup>			

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## G06: Ames Summary Data

Test Compound: Glutaraldehyde

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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>	257 ± 9.2	138 ± 10.4	279 ± 19.4	274 ± 9.0	305 ± 21.0
25.0	259 ± 5.0	187 ± 6.5	346 ± 10.3	309 ± 53.3	353 ± 24.8
50.0	297 ± 25.9	214 ± 4.7	394 ± 41.4	389 ± 34.3	333 ± 6.5
100.0	275 ± 7.3	278 ± 21.3	485 ± 34.7	535 ± 15.2	417 ± 5.0
200.0	232 ± 11.3	192 ± 13.8	379 ± 57.0	481 ± 39.8	570 ± 19.7
300.0	46 ± 29.7 <sup>s</sup>	27 ± 1.8 <sup>s</sup>	608 ± 8.7 <sup>s</sup>	268 ± 68.4 <sup>s</sup>	352 ± 17.3 <sup>s</sup>
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control <sup>5</sup>	634 ± 95.3	898 ± 38.0			
Positive Control <sup>2</sup>			454 ± 3.0		443 ± 14.0
Positive Control <sup>6</sup>				497 ± 15.3	

Experiment Number: 502523

Test Type: Genetic Toxicology - Bacterial  
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**G06: Ames Summary Data**

Test Compound: Glutaraldehyde

CAS Number: 111-30-8

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**Strain: TA102**

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<b>Dose (ug/Plate)</b>	<b>With 10% Mouse S9</b>	<b>With 10% Mouse S9</b>
Vehicle Control <sup>1</sup>	327 ± 4.5	226 ± 27.0
25.0	322 ± 15.9	267 ± 21.6
50.0	364 ± 13.3	365 ± 5.9
100.0	441 ± 38.4	473 ± 27.0
200.0	741 ± 35.8	504 ± 58.2
300.0	743 ± 23.2 <sup>s</sup>	250 ± 24.5 <sup>s</sup>
Trial Summary	Positive	Positive
Positive Control <sup>5</sup>		
Positive Control <sup>2</sup>		
Positive Control <sup>6</sup>	562 ± 25.8	478 ± 28.4

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**Strain: TA104**

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	453 ± 13.3	338 ± 12.5	338 ± 8.7	417 ± 21.7	495 ± 15.7
25.0	632 ± 10.8	321 ± 3.8	464 ± 36.1	506 ± 15.4	689 ± 50.0
50.0	732 ± 13.5	452 ± 17.0	602 ± 6.6	543 ± 14.6	1003 ± 40.8
100.0	1018 ± 21.1	600 ± 16.2	715 ± 22.2	1185 ± 121.4	1174 ± 31.8
200.0	807 ± 44.3	815 ± 33.5	783 ± 28.9	667 ± 15.7	861 ± 51.0
300.0	296 ± 68.7 <sup>s</sup>	861 ± 14.4 <sup>s</sup>	522 ± 110.3 <sup>s</sup>	173 ± 23.2 <sup>s</sup>	541 ± 107.8 <sup>s</sup>
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>5</sup>	232 ± 4.7 <sup>s</sup>				
Positive Control <sup>2</sup>				1133 ± 60.4	976 ± 42.8
Positive Control <sup>7</sup>		653 ± 43.5	818 ± 50.4		

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**Strain: TA104**

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<b>Dose (ug/Plate)</b>	<b>With 10% Mouse S9</b>	<b>With 10% Mouse S9</b>
Vehicle Control <sup>1</sup>	482 ± 21.2	406 ± 7.5
25.0	726 ± 40.3	605 ± 36.6
50.0	893 ± 25.5	771 ± 19.9
100.0	1074 ± 56.5	1020 ± 21.0
200.0	754 ± 20.2	654 ± 123.9
300.0	477 ± 55.0 <sup>s</sup>	620 ± 65.0 <sup>s</sup>
Trial Summary	Positive	Positive
Positive Control <sup>5</sup>		
Positive Control <sup>2</sup>	1371 ± 21.4	1052 ± 14.9
Positive Control <sup>7</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: 100.0 ug/Plate Other Positive Control

4: 100.0 ug/Plate Methyl Methane Sulfonate

5: 0.5 ug/Plate Mitomycin-C

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate Formaldehyde

s: Slight Toxicity

x: Slight Toxicity and Precipitate

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