

Experiment Number: A80646

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: s-Trioxane

CAS Number: 110-88-3

Date Report Requested: 09/17/2018

Time Report Requested: 23:54:09

**NTP Study Number:**

A80646

**Study Result:**

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	203 ± 5.9	142 ± 8.4	144 ± 9.8	180 ± 7.1	128 ± 8.2
100.0	226 ± 4.9	132 ± 1.9	134 ± 6.4	186 ± 8.7	130 ± 11.8
333.0	200 ± 6.0	134 ± 6.7	128 ± 5.0	173 ± 18.1	128 ± 3.8
1000.0	175 ± 15.4	144 ± 6.1	119 ± 3.8	180 ± 3.7	138 ± 7.8
3333.0	198 ± 15.5	148 ± 6.3	136 ± 4.7	180 ± 5.9	138 ± 7.9
10000.0	187 ± 8.8	130 ± 14.8	139 ± 6.1	160 ± 25.2	135 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					361 ± 19.5
Positive Control <sup>3</sup>	408 ± 7.3	396 ± 5.7			
Positive Control <sup>4</sup>			454 ± 41.9		
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>				364 ± 31.5	

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	202 ± 10.5
100.0	179 ± 7.5
333.0	185 ± 12.7
1000.0	189 ± 7.4
3333.0	167 ± 19.6
10000.0	200 ± 13.6
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	840 ± 40.3
Positive Control <sup>6</sup>	

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	13 ± 2.6	15 ± 1.2	14 ± 2.0	13 ± 2.1	8 ± 3.8
100.0	13 ± 1.8	14 ± 3.2	14 ± 1.2	13 ± 2.3	12 ± 1.3
333.0	13 ± 1.3	13 ± 1.5	15 ± 1.2	10 ± 1.5	14 ± 1.2
1000.0	14 ± 3.8	16 ± 0.6	13 ± 2.1	8 ± 0.3	11 ± 0.9
3333.0	10 ± 1.2	13 ± 2.1	15 ± 2.6	10 ± 2.3	11 ± 3.3
10000.0	12 ± 0.7	12 ± 3.8	13 ± 3.5	13 ± 3.0	14 ± 2.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					83 ± 13.4
Positive Control <sup>3</sup>	185 ± 11.3	235 ± 6.7			
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>			155 ± 10.9	44 ± 4.1	

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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	9 ± 0.9
100.0	9 ± 0.6
333.0	8 ± 3.8
1000.0	9 ± 0.9
3333.0	11 ± 0.9
10000.0	10 ± 1.7
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	190 ± 21.2
Positive Control <sup>6</sup>	

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	91 ± 8.7	137 ± 1.5	138 ± 15.9	138 ± 8.3	123 ± 8.5
100.0	97 ± 2.1	146 ± 16.9	156 ± 7.0	143 ± 9.5	123 ± 1.7
333.0	94 ± 6.1	139 ± 6.0	152 ± 7.8	154 ± 9.0	132 ± 8.9
1000.0	94 ± 3.8	131 ± 6.4	155 ± 3.8	142 ± 14.5	134 ± 6.2
3333.0	96 ± 10.4	161 ± 2.7	150 ± 5.2	134 ± 8.6	134 ± 11.6
10000.0	84 ± 9.0	141 ± 6.0	164 ± 4.5	111 ± 6.1	148 ± 4.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>					521 ± 33.0
Positive Control <sup>6</sup>			806 ± 72.3	296 ± 42.2	
Positive Control <sup>7</sup>	275 ± 33.6	575 ± 80.0			

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	87 ± 6.1	151 ± 14.8
100.0	116 ± 21.7	142 ± 6.1
333.0	123 ± 12.3	122 ± 6.3
1000.0	125 ± 17.6	140 ± 5.2
3333.0	119 ± 3.6	125 ± 3.0
10000.0	127 ± 13.7	132 ± 6.5
Trial Summary	Equivocal	Negative
Positive Control <sup>4</sup>		
Positive Control <sup>6</sup>	465 ± 80.0	480 ± 108.1
Positive Control <sup>7</sup>		

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	16 ± 0.7	19 ± 0.6	20 ± 1.5	23 ± 2.5	22 ± 2.6
100.0	14 ± 1.2	17 ± 2.0	17 ± 2.4	25 ± 8.4	21 ± 2.7
333.0	15 ± 0.6	15 ± 1.5	22 ± 3.5	31 ± 1.9	20 ± 1.5
1000.0	13 ± 1.2	12 ± 1.5	21 ± 0.9	21 ± 2.9	20 ± 2.3
3333.0	18 ± 0.9	12 ± 1.2	17 ± 2.5	29 ± 2.5	22 ± 3.1
10000.0	17 ± 2.9	14 ± 0.3	16 ± 2.6	20 ± 3.2	26 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			271 ± 13.1		375 ± 2.3
Positive Control <sup>8</sup>	290 ± 4.1	242 ± 14.7			
Positive Control <sup>5</sup>				344 ± 73.1	



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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	23 ± 1.7
100.0	23 ± 1.3
333.0	22 ± 2.7
1000.0	22 ± 2.6
3333.0	26 ± 1.5
10000.0	26 ± 2.6
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>8</sup>	
Positive Control <sup>5</sup>	574 ± 10.6

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## Strain: TA102

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	323 ± 13.4	251 ± 10.7	260 ± 9.0	274 ± 17.5	322 ± 21.2
100.0	359 ± 11.8	212 ± 14.6	314 ± 20.4	270 ± 17.0	251 ± 20.4
333.0	263 ± 18.1	224 ± 6.5	306 ± 15.8	224 ± 15.8	332 ± 16.0
1000.0	260 ± 19.6	242 ± 9.2	298 ± 9.2	280 ± 40.3	311 ± 31.9
3333.0	287 ± 22.2	230 ± 9.2	303 ± 8.0	217 ± 33.5	314 ± 21.8
10000.0	321 ± 7.8	206 ± 9.6	287 ± 8.6	174 ± 6.7	333 ± 13.0
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control <sup>9</sup>				711 ± 49.1	884 ± 25.2
Positive Control <sup>10</sup>			1594 ± 63.6		
Positive Control <sup>11</sup>	1326 ± 10.7	835 ± 9.4			

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Strain: TA102

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Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	292 ± 20.1	383 ± 11.5
100.0	239 ± 2.1	374 ± 19.1
333.0	257 ± 5.2	349 ± 3.8
1000.0	258 ± 24.6	388 ± 29.3
3333.0	278 ± 16.5	364 ± 21.9
10000.0	257 ± 20.2	386 ± 13.7
Trial Summary	Negative	Negative
Positive Control <sup>9</sup>		1455 ± 159.3
Positive Control <sup>10</sup>	1214 ± 15.2	
Positive Control <sup>11</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: 0.4 ug/Plate 2-Aminoanthracene
- 3: 0.5 ug/Plate Sodium Azide
- 4: 0.75 ug/Plate 2-Aminoanthracene
- 5: 1.0 ug/Plate 2-Aminoanthracene
- 6: 2.0 ug/Plate 2-Aminoanthracene
- 7: 24.0 ug/Plate 9-Aminoacridine
- 8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine
- 9: 5.0 ug/Plate Sterigmatocystin
- 10: 10.0 ug/Plate Sterigmatocystin
- 11: 75.0 ug/Plate Solvent

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