

Experiment Number: 165454

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

**G06: Ames Summary Data**

Test Compound: **Copper acetoarsenite**

CAS Number: 12002-03-8

Date Report Requested: 09/12/2018

Time Report Requested: 21:41:03

**NTP Study Number:**

165454

**Study Result:**

Equivocal

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Mutagenicity**G06: Ames Summary Data**Test Compound: Copper acetoarsenite  
CAS Number: 12002-03-8

Date Report Requested: 09/12/2018

Time Report Requested: 21:41:03

**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>	110 ± 4.5	106 ± 7.0	115 ± 1.2	140 ± 3.0	101 ± 6.1
0.3		89 ± 5.8			
1.0	109 ± 4.9	119 ± 5.0	109 ± 6.7	142 ± 12.7	103 ± 3.4
3.0	97 ± 6.3	91 ± 4.1	118 ± 8.5	127 ± 6.3	113 ± 6.1
10.0	91 ± 4.2	125 ± 9.5	107 ± 4.9	135 ± 6.2	126 ± 9.2
33.0	95 ± 3.6	113 ± 8.3	98 ± 3.5	127 ± 5.9	111 ± 2.3
66.0	64 ± 7.5				
100.0			103 ± 16.2	92 ± 5.5	89 ± 13.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					782 ± 40.0
Positive Control <sup>3</sup>			471 ± 11.9		
Positive Control <sup>4</sup>				373 ± 1.2	
Positive Control <sup>5</sup>	734 ± 20.6	687 ± 93.9			

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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>	117 ± 5.2
0.3	
1.0	134 ± 6.9
3.0	123 ± 3.4
10.0	98 ± 12.3
33.0	93 ± 11.3
66.0	
100.0	91 ± 10.5
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	542 ± 22.7
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	

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## G06: Ames Summary Data

Test Compound: Copper acetoarsenite  
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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 ± 1.7	11 ± 1.2	13 ± 0.6	13 ± 1.9	11 ± 2.9
0.3	10 ± 1.5	11 ± 3.2			
1.0	11 ± 1.5	10 ± 1.8	15 ± 3.4	14 ± 2.7	8 ± 1.7
3.0	6 ± 0.9	13 ± 2.3	10 ± 2.3	11 ± 1.7	13 ± 1.2
10.0	10 ± 1.8	8 ± 2.3	14 ± 1.9	12 ± 0.9	11 ± 1.9
33.0	7 ± 0.3	11 ± 0.9	10 ± 2.1	12 ± 2.1	15 ± 3.2
100.0			10 ± 2.0	11 ± 2.4	7 ± 2.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					135 ± 15.6
Positive Control <sup>4</sup>			91 ± 11.4		
Positive Control <sup>5</sup>	447 ± 24.0	364 ± 61.9			
Positive Control <sup>6</sup>				98 ± 7.8	

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**G06: Ames Summary Data**  
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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	11 ± 0.9
0.3	
1.0	10 ± 1.7
3.0	10 ± 0.9
10.0	12 ± 2.7
33.0	8 ± 0.7
100.0	8 ± 1.8
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	260 ± 7.9
Positive Control <sup>5</sup>	
Positive Control <sup>6</sup>	

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## G06: Ames Summary Data

Test Compound: Copper acetoarsenite  
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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>	167 ± 15.1	197 ± 5.5	193 ± 4.4	197 ± 6.4	173 ± 9.3
0.3	182 ± 3.3	201 ± 6.4			
1.0	183 ± 9.8	222 ± 7.2	211 ± 11.9	196 ± 8.8	164 ± 12.5
3.0	197 ± 9.0	212 ± 7.9	206 ± 3.5	218 ± 8.4	161 ± 13.6
10.0	197 ± 8.4	206 ± 9.8	209 ± 6.4	207 ± 13.7	156 ± 8.1
33.0	191 ± 8.0	182 ± 8.6	205 ± 4.4	207 ± 7.5	156 ± 11.1
100.0			120 ± 19.1	196 ± 4.1	120 ± 8.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					514 ± 31.8
Positive Control <sup>3</sup>			412 ± 6.8		
Positive Control <sup>4</sup>				438 ± 12.3	
Positive Control <sup>7</sup>	445 ± 9.9	445 ± 13.8			

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	173 ± 1.2
0.3	
1.0	195 ± 7.4
3.0	187 ± 7.5
10.0	184 ± 6.5
33.0	183 ± 8.7
100.0	123 ± 15.4
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	431 ± 15.9
Positive Control <sup>4</sup>	
Positive Control <sup>7</sup>	

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Test Type: Genetic Toxicology - Bacterial  
Mutagenicity**G06: Ames Summary Data**Test Compound: Copper acetoarsenite  
CAS Number: 12002-03-8

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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>	25 ± 3.6	22 ± 4.2	18 ± 1.5	20 ± 2.9	17 ± 1.5
0.3		19 ± 0.7			
1.0	25 ± 2.9	21 ± 3.7	16 ± 1.0	19 ± 0.6	16 ± 2.6
3.0	18 ± 1.3	18 ± 1.2	20 ± 2.2	21 ± 3.5	16 ± 1.8
10.0	18 ± 3.0	15 ± 2.2	19 ± 0.9	20 ± 2.1	20 ± 3.5
33.0	24 ± 4.1	25 ± 3.5	15 ± 3.8	13 ± 0.7	13 ± 2.2
66.0	15 ± 3.3				
100.0			14 ± 1.8	17 ± 0.7	12 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					571 ± 25.8
Positive Control <sup>3</sup>			329 ± 4.9	121 ± 7.4	
Positive Control <sup>8</sup>	527 ± 18.6	454 ± 14.9			



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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>	23 ± 5.2
0.3	
1.0	17 ± 1.2
3.0	16 ± 2.2
10.0	24 ± 4.4
33.0	13 ± 0.9
66.0	
100.0	14 ± 2.7
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	486 ± 11.4
Positive Control <sup>8</sup>	

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## Strain: TA102

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	194 ± 5.2	198 ± 2.6	325 ± 15.3	231 ± 11.8	354 ± 10.7
0.001			338 ± 12.7		
0.003			312 ± 15.7		377 ± 4.6
0.01			319 ± 1.8		405 ± 6.2
0.03		221 ± 7.3	283 ± 6.7		396 ± 14.9
0.1		239 ± 3.0	288 ± 26.6	334 ± 1.8	435 ± 28.4
0.3	230 ± 24.3	218 ± 4.9	302 ± 22.7	335 ± 13.9	403 ± 42.1
1.0	242 ± 22.3	205 ± 12.8	318 ± 16.8	302 ± 10.5	383 ± 27.6
3.0	192 ± 15.7	211 ± 2.3		304 ± 17.5	
10.0	160 ± 3.8			287 ± 13.8	
33.0	89 ± 3.3			188 ± 25.8	
100.0					
Trial Summary	Negative	Negative	Negative	Equivocal	Equivocal
Positive Control <sup>9</sup>	808 ± 14.7	672 ± 72.5			
Positive Control <sup>6</sup>					
Positive Control <sup>10</sup>			662 ± 22.9	428 ± 24.1	671 ± 47.7

Experiment Number: 165454

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Copper acetoarsenite  
CAS Number: 12002-03-8

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## Strain: TA102

Dose (ug/Plate)	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	289 ± 8.2	318 ± 12.0	281 ± 37.0	310 ± 8.4
0.001	278 ± 21.9			
0.003	277 ± 14.1			
0.01	271 ± 7.2			
0.03	305 ± 8.5			
0.1	309 ± 13.0		285 ± 13.7	
0.3	354 ± 6.8		311 ± 13.9	
1.0	316 ± 7.2	333 ± 14.9	325 ± 16.2	335 ± 9.7
3.0		334 ± 7.8	289 ± 16.3	305 ± 21.0
10.0		326 ± 3.6	303 ± 8.8	326 ± 7.5
33.0		273 ± 12.3	219 ± 9.5	245 ± 8.7
100.0		121 ± 10.9		124 ± 13.1
Trial Summary	Equivocal	Negative	Negative	Negative
Positive Control <sup>9</sup>				
Positive Control <sup>6</sup>			395 ± 27.7	615 ± 24.6
Positive Control <sup>10</sup>	663 ± 7.5	452 ± 6.4		

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## Strain: TA104

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	327 ± 13.9	287 ± 21.2	493 ± 25.6	522 ± 8.5	435 ± 16.0
0.03		276 ± 10.5			
0.1		292 ± 5.4	421 ± 23.8		386 ± 25.3
0.3	349 ± 3.5	301 ± 14.7	477 ± 15.6		467 ± 15.2
1.0	385 ± 1.2	298 ± 11.3	528 ± 26.6	525 ± 5.5	471 ± 5.2
3.0	342 ± 9.1	297 ± 1.2	503 ± 15.3	536 ± 8.6	445 ± 13.1
10.0	319 ± 1.5		453 ± 7.1	564 ± 15.9	426 ± 22.3
33.0	247 ± 6.4		446 ± 59.0	534 ± 19.7	369 ± 10.9
100.0				322 ± 25.7	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>					823 ± 32.3
Positive Control <sup>6</sup>			905 ± 42.5	912 ± 3.6	
Positive Control <sup>11</sup>	637 ± 24.4	765 ± 48.6			

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Strain: TA104

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	510 ± 17.0
0.03	
0.1	
0.3	
1.0	499 ± 14.7
3.0	499 ± 19.7
10.0	485 ± 15.4
33.0	440 ± 9.0
100.0	302 ± 2.9
Trial Summary	Negative
Positive Control <sup>4</sup>	936 ± 15.3
Positive Control <sup>6</sup>	
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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 5.0 ug/Plate Sodium Azide

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

9: 0.5 ug/Plate Mitomycin-C

10: 10.0 ug/Plate 2-Aminoanthracene

11: 250.0 ug/Plate Methyl Methane Sulfonate

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