

Experiment Number: 255190

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

**G06: Ames Summary Data**

Test Compound: **Trisodium ethylenediaminetetraacetate trihydrate (EDTA)**

CAS Number: 150-38-9

Date Report Requested: 09/11/2018

Time Report Requested: 02:15:20

**NTP Study Number:**

255190

**Study Result:**

Negative

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Time Report Requested: 02:15:20

CAS Number: 150-38-9

**Strain: TA100**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 30% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	119 ± 7.9	147 ± 6.6	123 ± 3.8	145 ± 10.0	157 ± 7.0
100.0	108 ± 11.1	140 ± 10.4	122 ± 5.9	172 ± 5.5	152 ± 4.5
333.0	111 ± 4.2	152 ± 8.9	117 ± 4.4	150 ± 4.4	147 ± 4.1
1000.0	119 ± 1.8	146 ± 14.5	118 ± 10.3	160 ± 3.6	148 ± 5.0
3333.0	104 ± 8.5	173 ± 3.1	111 ± 5.8	139 ± 4.4	154 ± 6.8
6666.0		91 ± 4.3		49 ± 18.2	
10000.0	4 ± 4.0		26 ± 3.2		58 ± 11.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					762 ± 28.6
Positive Control <sup>3</sup>	317 ± 12.4	475 ± 31.0			
Positive Control <sup>4</sup>			452 ± 20.5	397 ± 29.3	

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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>	154 ± 12.8
100.0	171 ± 4.7
333.0	164 ± 3.5
1000.0	168 ± 2.8
3333.0	173 ± 1.5
6666.0	89 ± 36.0
10000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	494 ± 42.0

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Time Report Requested: 02:15:20

CAS Number: 150-38-9

**Strain: TA1535**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 30% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	16 ± 2.3	20 ± 1.2	9 ± 0.9	12 ± 0.6	9 ± 2.4
100.0	14 ± 0.3	19 ± 1.3	8 ± 1.9	14 ± 2.9	6 ± 0.3
333.0	14 ± 1.9	23 ± 0.7	7 ± 0.3	12 ± 1.7	5 ± 1.2
1000.0	13 ± 0.3	20 ± 2.2	7 ± 1.7	15 ± 2.6	4 ± 0.7
3333.0	11 ± 1.5	16 ± 0.0	6 ± 0.9	9 ± 2.3	4 ± 1.3
6666.0		6 ± 1.5		6 ± 2.7	
10000.0	4 ± 0.7		2 ± 1.2		2 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>	324 ± 8.5	473 ± 24.0			
Positive Control <sup>4</sup>					245 ± 15.8
Positive Control <sup>5</sup>			120 ± 5.5	94 ± 4.4	

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Test Compound: **Trisodium ethylenediaminetetraacetate trihydrate (EDTA)**

CAS Number: 150-38-9

Date Report Requested: 09/11/2018

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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>	9 ± 0.6
100.0	14 ± 3.1
333.0	9 ± 2.4
1000.0	6 ± 2.1
3333.0	7 ± 1.2
6666.0	4 ± 1.0
10000.0	
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	201 ± 24.1

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Test Type: **Genetic Toxicology - Bacterial Mutagenicity**Test Compound: **Trisodium ethylenediaminetetraacetate trihydrate (EDTA)**

Time Report Requested: 02:15:20

CAS Number: 150-38-9

**Strain: TA97**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 30% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	121 ± 2.7	178 ± 13.1	162 ± 8.8	196 ± 4.9	137 ± 1.9
100.0	118 ± 3.8	194 ± 2.7	170 ± 7.9	196 ± 4.9	146 ± 7.5
333.0	121 ± 1.9	195 ± 3.1	151 ± 10.5	173 ± 19.5	138 ± 1.7
1000.0	137 ± 7.8	197 ± 2.7	146 ± 8.7	189 ± 12.5	147 ± 6.1
3333.0	126 ± 7.3	191 ± 0.7	153 ± 6.8	190 ± 12.4	154 ± 8.1
6666.0		13 ± 2.4		33 ± 5.2 <sup>s</sup>	
10000.0	0 ± 0.0 <sup>s</sup>		5 ± 5.0		7 ± 6.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					472 ± 11.8
Positive Control <sup>4</sup>			329 ± 15.3		
Positive Control <sup>5</sup>				281 ± 11.8	
Positive Control <sup>6</sup>	351 ± 12.8	320 ± 8.9			

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Test Compound: **Trisodium ethylenediaminetetraacetate trihydrate (EDTA)**

Time Report Requested: 02:15:20

CAS Number: 150-38-9

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	173 ± 12.4
100.0	195 ± 6.7
333.0	194 ± 4.1
1000.0	191 ± 10.0
3333.0	195 ± 9.4
6666.0	44 ± 14.7
10000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	346 ± 13.6
Positive Control <sup>5</sup>	
Positive Control <sup>6</sup>	

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Test Type: **Genetic Toxicology - Bacterial Mutagenicity**Test Compound: **Trisodium ethylenediaminetetraacetate trihydrate (EDTA)**

Time Report Requested: 02:15:20

CAS Number: 150-38-9

**Strain: TA98**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 30% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	22 ± 1.2	31 ± 2.7	25 ± 2.9	38 ± 5.5	25 ± 4.0
100.0	17 ± 0.6	32 ± 0.6	23 ± 1.7	40 ± 3.6	26 ± 2.7
333.0	19 ± 0.7	32 ± 3.5	20 ± 1.2	30 ± 4.4	30 ± 4.2
1000.0	15 ± 1.9	32 ± 2.9	19 ± 1.7	36 ± 4.7	32 ± 1.3
3333.0	17 ± 1.5	29 ± 1.8	20 ± 3.1	32 ± 2.3	29 ± 4.8
6666.0		18 ± 0.6		22 ± 4.4	
10000.0	7 ± 2.7		9 ± 1.9		13 ± 5.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					413 ± 3.2
Positive Control <sup>4</sup>			171 ± 1.5	106 ± 4.5	
Positive Control <sup>7</sup>	636 ± 25.0	1050 ± 74.5			



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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>	43 ± 3.2
100.0	39 ± 9.8
333.0	38 ± 2.9
1000.0	35 ± 2.7
3333.0	40 ± 6.3
6666.0	28 ± 1.9
10000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	198 ± 17.1
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: Water

2: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 1.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate 2-Aminoanthracene

6: 25.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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