

Experiment Number: A36196

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

**G06: Ames Summary Data**

Test Compound: **2,4,5-Triethoxyacetophenone**

CAS Number: **63213-29-6**

Date Report Requested: **09/16/2018**

Time Report Requested: **18:27:16**

**NTP Study Number:**

A36196

**Study Result:**

Equivocal

Experiment Number: A36196

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: 2,4,5-Triethoxyacetophenone  
CAS Number: 63213-29-6

Date Report Requested: 09/16/2018

Time Report Requested: 18:27:16

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	111 ± 4.4	111 ± 1.9	93 ± 5.2	129 ± 10.3	102 ± 7.5
10.0			93 ± 3.3	110 ± 5.0	
33.0	107 ± 8.1	111 ± 2.3	101 ± 2.3	110 ± 1.0	111 ± 5.4
100.0	119 ± 2.5	112 ± 2.0	102 ± 4.2	101 ± 1.7	107 ± 7.8
166.0			101 ± 3.3	135 ± 10.4	
333.0	121 ± 7.2	118 ± 1.7	98 ± 1.5	198 ± 1.8	125 ± 2.3
666.0			73 ± 4.3 <sup>s</sup>	65 ± 9.0 <sup>s</sup>	
1000.0	118 ± 5.7	106 ± 3.5			128 ± 3.8
3333.0	119 ± 2.7 <sup>s</sup>	73 ± 9.3			70 ± 6.2 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>			704 ± 37.1	476 ± 14.0	
Positive Control <sup>4</sup>	975 ± 19.2	841 ± 28.9			
Positive Control <sup>5</sup>					329 ± 2.3

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## Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	135 ± 16.7	132 ± 3.0	109 ± 6.7	113 ± 6.2	177 ± 10.3
10.0		108 ± 0.9	96 ± 2.6		
33.0	178 ± 5.2	114 ± 5.8	96 ± 8.0	101 ± 6.7	207 ± 11.9
100.0	173 ± 3.1	102 ± 3.3	99 ± 4.6	127 ± 12.3	223 ± 12.9
166.0	202 ± 11.0	100 ± 1.0	131 ± 12.7		221 ± 5.2
333.0	210 ± 18.6	103 ± 2.2	203 ± 2.0	154 ± 7.5	260 ± 2.0
666.0	130 ± 14.5	77 ± 7.3 <sup>s</sup>	47 ± 11.0 <sup>s</sup>		201 ± 11.0
1000.0				110 ± 11.0	
3333.0				103 ± 5.8 <sup>s</sup>	
Trial Summary	Equivocal	Negative	Equivocal	Equivocal	Weakly Positive
Positive Control <sup>2</sup>		567 ± 35.3	503 ± 36.3		795 ± 21.7
Positive Control <sup>3</sup>	769 ± 16.6			438 ± 21.0	
Positive Control <sup>4</sup>					
Positive Control <sup>5</sup>					

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	10 ± 1.8	11 ± 0.9	12 ± 2.1	15 ± 1.7	15 ± 1.5
10.0			10 ± 1.2		16 ± 0.7
33.0	11 ± 1.9	10 ± 0.3	11 ± 2.2	11 ± 2.3	17 ± 3.4
100.0	9 ± 1.3	10 ± 0.9	16 ± 1.0	9 ± 4.4	12 ± 2.3
166.0			11 ± 1.2		14 ± 2.6
333.0	9 ± 0.9	9 ± 1.5	10 ± 2.7	11 ± 1.7	15 ± 0.9
666.0			5 ± 1.2 <sup>s</sup>		11 ± 1.0
1000.0	7 ± 0.3	9 ± 0.7		10 ± 1.5	
3333.0	6 ± 0.9 <sup>s</sup>	7 ± 1.2		8 ± 0.7 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					
Positive Control <sup>5</sup>			207 ± 10.7		
Positive Control <sup>4</sup>	776 ± 8.9	861 ± 6.8			
Positive Control <sup>6</sup>				150 ± 2.2	145 ± 7.4

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## Strain: TA1535

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	11 ± 1.3	14 ± 1.3	9 ± 1.3	8 ± 0.3
10.0	9 ± 1.7	12 ± 2.9		12 ± 2.0
33.0	11 ± 2.2	12 ± 1.5	12 ± 1.7	15 ± 1.2
100.0	14 ± 1.7	10 ± 1.5	12 ± 1.5	16 ± 2.0
166.0	13 ± 3.2	11 ± 1.3		16 ± 0.9
333.0	16 ± 1.5	8 ± 0.3	11 ± 2.0	16 ± 3.6
666.0	6 ± 1.5 <sup>s</sup>	4 ± 1.5 <sup>s</sup>		13 ± 1.9
1000.0			10 ± 1.7	
3333.0			5 ± 1.5 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>	279 ± 16.9	134 ± 14.3		
Positive Control <sup>5</sup>			293 ± 7.3	162 ± 17.7
Positive Control <sup>4</sup>				
Positive Control <sup>6</sup>				

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	9 ± 0.6
33.0	9 ± 0.6
66.0	9 ± 0.7
100.0	6 ± 0.0
166.0	8 ± 0.0
333.0	9 ± 0.0
1000.0	4 ± 0.3
Trial Summary	Negative
Positive Control <sup>3</sup>	133 ± 9.3

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 5% Hamster S9
Vehicle Control <sup>1</sup>	104 ± 5.7	105 ± 0.9	128 ± 11.8	173 ± 10.3	147 ± 9.6
33.0	103 ± 6.8	129 ± 8.9	140 ± 17.7	159 ± 5.5	157 ± 4.4
66.0					137 ± 3.5
100.0	115 ± 9.2	125 ± 1.2	152 ± 13.7	157 ± 8.5	162 ± 5.8
166.0					146 ± 17.0
333.0	91 ± 2.9	93 ± 5.5	133 ± 3.2	162 ± 8.4	137 ± 5.8
1000.0	99 ± 1.2	108 ± 1.5	127 ± 10.7	127 ± 9.5	89 ± 6.1 <sup>s</sup>
3333.0	75 ± 7.0 <sup>s</sup>	58 ± 8.1	54 ± 6.2 <sup>s</sup>	133 ± 17.3 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					701 ± 7.6
Positive Control <sup>3</sup>			654 ± 45.3		
Positive Control <sup>5</sup>				675 ± 14.5	
Positive Control <sup>7</sup>	508 ± 31.3	635 ± 30.6			

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## Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	118 ± 5.8	121 ± 4.1	154 ± 2.6	144 ± 10.7
33.0	132 ± 4.8	113 ± 7.9	152 ± 7.9	149 ± 2.1
66.0	129 ± 1.3	105 ± 13.0		166 ± 5.9
100.0	137 ± 1.5	153 ± 4.9	198 ± 5.5	171 ± 4.7
166.0	147 ± 16.9	147 ± 9.8		177 ± 7.4
333.0	175 ± 7.6	158 ± 11.1	244 ± 4.6	196 ± 4.4
1000.0	136 ± 6.0	57 ± 16.5 <sup>s</sup>	163 ± 12.5	145 ± 6.4
3333.0			163 ± 1.9	
Trial Summary	Equivocal	Equivocal	Equivocal	Equivocal
Positive Control <sup>2</sup>	655 ± 10.8	791 ± 41.4		
Positive Control <sup>3</sup>			574 ± 23.5	589 ± 22.5
Positive Control <sup>5</sup>				
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>	23 ± 2.6	14 ± 1.8	14 ± 2.2	21 ± 1.2	16 ± 1.3
33.0	26 ± 3.7	13 ± 3.0	16 ± 3.0	29 ± 7.3	14 ± 1.9
100.0	27 ± 0.9	12 ± 2.8	18 ± 4.8	24 ± 3.8	13 ± 2.0
333.0	28 ± 6.8	11 ± 1.5	14 ± 2.1	26 ± 4.2	16 ± 0.7
1000.0	30 ± 1.7	12 ± 1.5	18 ± 0.9	20 ± 0.6	15 ± 2.7
3333.0	19 ± 3.5 <sup>s</sup>	8 ± 1.5	6 ± 1.0	21 ± 4.0 <sup>s</sup>	6 ± 0.6 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					593 ± 27.6
Positive Control <sup>3</sup>			535 ± 13.7		
Positive Control <sup>8</sup>	460 ± 8.2	452 ± 15.2			
Positive Control <sup>5</sup>				580 ± 19.8	

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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	27 ± 2.7
33.0	26 ± 0.7
100.0	28 ± 0.3
333.0	29 ± 3.9
1000.0	25 ± 0.7
3333.0	23 ± 2.7 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	474 ± 11.5
Positive Control <sup>8</sup>	
Positive Control <sup>5</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: 2.0 ug/Plate 2-Aminoanthracene
- 4: 5.0 ug/Plate Sodium Azide
- 5: 5.0 ug/Plate 2-Aminoanthracene
- 6: 10.0 ug/Plate 2-Aminoanthracene
- 7: 50.0 ug/Plate 9-Aminoacridine
- 8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

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