

Experiment Number: 606184

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Ethyl ether

CAS Number: 60-29-7

Date Report Requested: 09/15/2018

Time Report Requested: 01:00:38

**NTP Study Number:**

606184

**Study Result:**

Equivocal

Experiment Number: 606184

## G06: Ames Summary Data

Date Report Requested: 09/15/2018

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

Test Compound: Ethyl ether

Time Report Requested: 01:00:38

## Strain: TA100

Dose (mL/Chamber)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	85 ± 2.9	122 ± 3.8	122 ± 6.7	126 ± 10.3	89 ± 0.7
0.01	80 ± 8.4				95 ± 1.5
0.05	85 ± 8.7				87 ± 3.7
0.1	54 ± 3.1				55 ± 12.9
0.5	81 ± 9.3	93 ± 5.9	129 ± 5.6	126 ± 8.8	80 ± 10.1
1.0	81 ± 6.2	126 ± 6.6	128 ± 2.9	132 ± 10.4	80 ± 9.1
2.0		155 ± 7.8	136 ± 0.9	123 ± 2.6	
3.0		123 ± 3.0	121 ± 4.4	111 ± 2.2	
5.0		147 ± 1.5	110 ± 9.7	109 ± 5.5	
7.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>	384 ± 17.5	463 ± 7.5	466 ± 30.4		
Positive Control <sup>4</sup>				1718 ± 71.5	296 ± 14.5
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>					

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## G06: Ames Summary Data

Test Compound: Ethyl ether

CAS Number: 60-29-7

Date Report Requested: 09/15/2018

Time Report Requested: 01:00:38

## Strain: TA100

Dose (mL/Chamber)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	157 ± 11.0	130 ± 4.3	94 ± 3.8	129 ± 2.1	100 ± 6.6
0.01			101 ± 13.3		
0.05			108 ± 5.2		
0.1			78 ± 12.5		
0.5	102 ± 4.4	136 ± 5.7	95 ± 9.9	91 ± 2.8	
1.0	122 ± 4.9	136 ± 3.8	87 ± 4.3	120 ± 12.1	90 ± 2.8
2.0	146 ± 7.0	136 ± 3.5		150 ± 6.4	89 ± 1.5
3.0	149 ± 5.9	118 ± 2.3		145 ± 9.0	93 ± 4.6
5.0	164 ± 7.2	109 ± 1.5		175 ± 4.3	70 ± 2.1
7.0					49 ± 2.9 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control <sup>2</sup>		961 ± 48.1	353 ± 8.7		
Positive Control <sup>3</sup>					
Positive Control <sup>4</sup>					
Positive Control <sup>5</sup>				1361 ± 52.4	760 ± 20.5
Positive Control <sup>6</sup>	1882 ± 126.5				

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**G06: Ames Summary Data**

Date Report Requested: 09/15/2018

Test Type: **Genetic Toxicology - Bacterial Mutagenicity**Test Compound: **Ethyl ether**

Time Report Requested: 01:00:38

CAS Number: 60-29-7

**Strain: TA1535**

<b>Dose (mL/Chamber)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>
Vehicle Control <sup>1</sup>	16 ± 3.0	7 ± 1.3	8 ± 2.3	10 ± 0.7	11 ± 1.7
0.2				12 ± 1.3	
0.5	20 ± 1.5	13 ± 1.3			12 ± 2.1
1.0	14 ± 2.0	13 ± 0.7	13 ± 2.7		12 ± 1.5
2.0	13 ± 2.1	10 ± 1.8	13 ± 1.2	12 ± 1.2	12 ± 2.7
3.0	16 ± 1.2	20 ± 2.6	10 ± 2.3	14 ± 1.2	19 ± 3.5
5.0	16 ± 1.3	8 ± 1.2	9 ± 0.6	7 ± 0.7	7 ± 1.9
7.0			7 ± 1.0		
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control <sup>2</sup>					139 ± 7.6
Positive Control <sup>3</sup>	252 ± 2.6	423 ± 7.8	304 ± 15.9	456 ± 20.5	
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>					

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Mutagenicity

**G06: Ames Summary Data**

Test Compound: Ethyl ether

CAS Number: 60-29-7

Date Report Requested: 09/15/2018

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**Strain: TA1535**

Dose (mL/Chamber)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	12 ± 1.5	12 ± 1.9	12 ± 2.2
0.2			
0.5	14 ± 0.6	14 ± 3.0	17 ± 0.6
1.0	13 ± 2.4	15 ± 0.9	12 ± 3.8
2.0	12 ± 0.9	20 ± 2.0	12 ± 2.1
3.0	11 ± 1.2	17 ± 0.3	8 ± 2.3
5.0	13 ± 1.3	21 ± 2.9	9 ± 0.6
7.0			
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>		47 ± 3.7	
Positive Control <sup>3</sup>			
Positive Control <sup>5</sup>			479 ± 13.8
Positive Control <sup>6</sup>	90 ± 3.2		

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Strain: TA1537

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Dose (mL/Chamber)	Without S9
Vehicle Control <sup>1</sup>	6 ± 2.3
0.5	6 ± 1.2
1.0	7 ± 1.7
2.0	8 ± 0.6
3.0	4 ± 0.3
5.0	4 ± 0.6
Trial Summary	Negative
Positive Control <sup>7</sup>	25 ± 3.2

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## G06: Ames Summary Data

Test Compound: Ethyl ether

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## Strain: TA97

Dose (mL/Chamber)	Without S9	Without S9	Without S9	Without S9	Without S9
Vehicle Control <sup>1</sup>	124 ± 9.6	111 ± 4.6	107 ± 8.7	152 ± 6.7	118 ± 1.0
0.2				179 ± 6.9	
0.5	114 ± 0.3	123 ± 2.2			104 ± 0.9
1.0	116 ± 3.8	150 ± 18.5	107 ± 5.5		118 ± 8.7
2.0	134 ± 22.2	167 ± 38.2	170 ± 14.2	185 ± 57.7	132 ± 17.1
3.0	125 ± 9.8	165 ± 26.6	156 ± 21.2	232 ± 34.0	126 ± 23.7
5.0	88 ± 8.0	145 ± 17.6	264 ± 65.5 <sup>s</sup>	230 ± 34.5	48 ± 15.3
7.0			94 ± 10.5 <sup>s</sup>		
Trial Summary	Negative	Equivocal	Positive	Weakly Positive	Negative
Positive Control <sup>4</sup>					
Positive Control <sup>6</sup>					
Positive Control <sup>8</sup>	306 ± 13.3	3421 ± 67.6	824 ± 36.4	454 ± 25.3	268 ± 11.9

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**G06: Ames Summary Data**

Date Report Requested: 09/15/2018

Test Type: **Genetic Toxicology - Bacterial Mutagenicity**Test Compound: **Ethyl ether**

Time Report Requested: 01:00:38

CAS Number: 60-29-7

**Strain: TA97**

<b>Dose (mL/Chamber)</b>	<b>With 10% Rat S9</b>	<b>With 30% Rat S9</b>	<b>With 10% Hamster S9</b>	<b>With 10% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	141 ± 6.5	174 ± 3.8	130 ± 6.4	116 ± 9.9	135 ± 1.9
0.2					
0.5	141 ± 4.1	141 ± 5.5	148 ± 7.3		137 ± 1.0
1.0	160 ± 23.7	155 ± 4.1	134 ± 5.9	134 ± 8.3	137 ± 9.4
2.0	123 ± 7.8	161 ± 10.6	118 ± 8.3	128 ± 6.9	133 ± 3.8
3.0	134 ± 12.2	122 ± 15.0	143 ± 8.0	143 ± 13.4	122 ± 1.9
5.0	195 ± 59.5	89 ± 4.7	183 ± 34.7	97 ± 7.0	120 ± 5.4
7.0				105 ± 8.7	
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control <sup>4</sup>			750 ± 36.9	1181 ± 51.9	
Positive Control <sup>6</sup>	2207 ± 59.2	632 ± 31.3			1555 ± 55.6
Positive Control <sup>8</sup>					



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Test Compound: Ethyl ether

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## Strain: TA98

Dose (mL/Chamber)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	20 ± 6.5	25 ± 2.3	21 ± 4.9	29 ± 3.2	25 ± 3.0
0.01	17 ± 2.1				27 ± 2.4
0.05	15 ± 0.6				22 ± 0.3
0.1	8 ± 3.7				17 ± 4.3
0.5	22 ± 3.4	21 ± 1.5	22 ± 2.5	30 ± 1.9	28 ± 5.6
1.0	19 ± 1.8	24 ± 3.2	24 ± 3.5	29 ± 3.4	21 ± 3.2
2.0		23 ± 4.7	26 ± 3.9	42 ± 3.7	
3.0		23 ± 1.0	28 ± 5.0	34 ± 2.6	
5.0		24 ± 2.7	25 ± 4.5	32 ± 1.7	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>				467 ± 24.6	92 ± 11.5
Positive Control <sup>5</sup>					
Positive Control <sup>9</sup>	194 ± 8.7	164 ± 1.7	224 ± 7.8		

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## Strain: TA98

Dose (mL/Chamber)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	32 ± 7.6	24 ± 1.2	30 ± 0.6	41 ± 4.7
0.01			33 ± 3.9	
0.05			32 ± 6.0	
0.1			13 ± 4.4	
0.5	24 ± 3.4	36 ± 3.0	25 ± 5.5	40 ± 8.1
1.0	33 ± 3.4	25 ± 5.4	30 ± 5.4	33 ± 2.6
2.0	31 ± 3.0	32 ± 2.6		33 ± 5.5
3.0	34 ± 0.9	35 ± 0.7		34 ± 4.7
5.0	35 ± 3.8	33 ± 3.0		38 ± 3.2
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>		510 ± 55.4	200 ± 14.0	
Positive Control <sup>5</sup>	706 ± 27.9			1022 ± 10.4
Positive Control <sup>9</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: Air

2: 0.4 mL/Chamber 2-Aminoanthracene

3: 0.5 mL/Chamber Sodium Azide

4: 0.75 mL/Chamber 2-Aminoanthracene

5: 1.0 mL/Chamber 2-Aminoanthracene

6: 2.0 mL/Chamber 2-Aminoanthracene

7: 4.0 mL/Chamber 9-Aminoacridine

8: 24.0 mL/Chamber 9-Aminoacridine

9: 1.0 mL/Chamber 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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