

Experiment Number: 427021

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

G06: Ames Summary Data

Test Compound: **Ethanol**

CAS Number: **64-17-5**

Date Report Requested: **09/15/2018**

Time Report Requested: **06:23:04**

NTP Study Number:

427021

Study Result:

Negative

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G06: Ames Summary Data

Test Compound: Ethanol

CAS Number: 64-17-5

Date Report Requested: 09/15/2018

Time Report Requested: 06:23:04

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	116 ± 8.4	91 ± 3.7	106 ± 6.7	116 ± 3.7	96 ± 4.0
100.0	105 ± 7.4	94 ± 1.9	109 ± 2.3	123 ± 7.0	112 ± 5.7
333.0	124 ± 1.2	95 ± 7.5	107 ± 9.3	120 ± 4.5	103 ± 9.5
1000.0	124 ± 8.3	89 ± 7.0	90 ± 7.2	132 ± 15.2	97 ± 2.8
3333.0	105 ± 3.5	94 ± 7.4	92 ± 10.1	119 ± 1.0	102 ± 2.3
10000.0	110 ± 4.7	96 ± 2.3	104 ± 6.7	112 ± 10.4	86 ± 2.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					920 ± 125.0
Positive Control ³	458 ± 22.4	370 ± 3.8			
Positive Control ⁴			1549 ± 28.8		
Positive Control ⁵					
Positive Control ⁶				985 ± 74.8	

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Test Compound: Ethanol

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Date Report Requested: 09/15/2018

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	130 ± 2.0
100.0	125 ± 4.7
333.0	126 ± 6.3
1000.0	130 ± 4.0
3333.0	135 ± 12.1
10000.0	128 ± 4.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	499 ± 11.4
Positive Control ⁶	

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CAS Number: 64-17-5

Date Report Requested: 09/15/2018

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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 ¹	19 ± 2.4	13 ± 3.5	9 ± 1.5	13 ± 3.2	11 ± 0.3
100.0	17 ± 2.4	13 ± 0.3	15 ± 0.7	13 ± 2.0	12 ± 0.9
333.0	18 ± 3.8	14 ± 1.2	11 ± 3.0	16 ± 2.6	17 ± 2.2
1000.0	17 ± 1.2	14 ± 2.8	13 ± 1.2	19 ± 2.3	10 ± 3.3
3333.0	17 ± 1.5	11 ± 1.7	13 ± 2.7	11 ± 0.0	10 ± 2.0
10000.0	13 ± 4.3	14 ± 2.3	14 ± 1.5	18 ± 2.7	10 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					81 ± 2.4
Positive Control ³	322 ± 9.3	217 ± 5.3			
Positive Control ⁵					
Positive Control ⁶			234 ± 8.4	268 ± 16.0	

Experiment Number: 427021

Test Type: Genetic Toxicology - Bacterial
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G06: Ames Summary Data

Test Compound: Ethanol

CAS Number: 64-17-5

Date Report Requested: 09/15/2018

Time Report Requested: 06:23:04

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	13 ± 4.1
100.0	13 ± 3.0
333.0	10 ± 2.7
1000.0	12 ± 2.6
3333.0	12 ± 2.6
10000.0	15 ± 1.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	184 ± 3.3
Positive Control ⁶	

Experiment Number: 427021

G06: Ames Summary Data

Date Report Requested: 09/15/2018

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

Test Compound: Ethanol

Time Report Requested: 06:23:04

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	156 ± 18.8	103 ± 6.8	111 ± 10.9	170 ± 12.5	98 ± 0.9
1.0					99 ± 8.1
3.3					103 ± 3.4
10.0					94 ± 5.8
33.0					100 ± 4.7
100.0	127 ± 4.9	94 ± 2.1	127 ± 0.9	214 ± 14.0	85 ± 10.4
333.0	127 ± 4.4	94 ± 6.4	104 ± 1.7	189 ± 6.0	101 ± 7.5
1000.0	133 ± 15.8	105 ± 2.0	121 ± 7.5	220 ± 4.0	92 ± 1.5
3333.0	118 ± 6.2	90 ± 3.8	111 ± 8.1	212 ± 10.6	89 ± 11.7
10000.0	165 ± 3.1	112 ± 1.5	104 ± 7.9	192 ± 3.5	92 ± 6.7
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ⁷	435 ± 9.8	301 ± 17.3			
Positive Control ⁴					
Positive Control ⁶			2236 ± 42.4		311 ± 7.1
Positive Control ⁸				1258 ± 16.7	

Experiment Number: 427021

G06: Ames Summary Data

Date Report Requested: 09/15/2018

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**Test Compound: **Ethanol**Time Report Requested: **06:23:04****Strain: TA97**

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	101 ± 7.0	138 ± 3.9	123 ± 9.0
1.0			118 ± 4.7
3.3			120 ± 0.6
10.0			122 ± 3.2
33.0			106 ± 10.7
100.0	97 ± 5.1	180 ± 17.3	150 ± 9.0
333.0	91 ± 8.7	174 ± 8.4	117 ± 5.2
1000.0	98 ± 3.5	175 ± 10.8	127 ± 2.8
3333.0	103 ± 7.4	160 ± 2.7	153 ± 1.5
10000.0	101 ± 1.9	158 ± 3.2	136 ± 5.3
Trial Summary	Negative	Equivocal	Negative
Positive Control ⁷			
Positive Control ⁴	292 ± 2.2		
Positive Control ⁶			850 ± 26.7
Positive Control ⁸		999 ± 41.8	

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Test Type: Genetic Toxicology - Bacterial
Mutagenicity

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Test Compound: Ethanol

CAS Number: 64-17-5

Date Report Requested: 09/15/2018

Time Report Requested: 06:23:04

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	18 ± 2.9	14 ± 1.5	27 ± 1.8	32 ± 4.5	28 ± 4.6
100.0	18 ± 1.2	15 ± 3.7	29 ± 0.6	22 ± 3.7	31 ± 1.7
333.0	19 ± 0.3	19 ± 3.0	32 ± 5.5	31 ± 1.0	27 ± 1.2
1000.0	17 ± 1.8	20 ± 3.3	37 ± 1.5	23 ± 3.0	19 ± 3.0
3333.0	20 ± 3.2	17 ± 2.9	34 ± 1.5	24 ± 2.9	26 ± 4.0
10000.0	18 ± 1.3	18 ± 1.8	26 ± 1.8	26 ± 2.2	33 ± 5.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			258 ± 6.5		1947 ± 428.4
Positive Control ⁹	314 ± 13.6	391 ± 10.9			
Positive Control ⁵				342 ± 20.5	

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Test Type: Genetic Toxicology - Bacterial
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G06: Ames Summary Data

Test Compound: Ethanol

CAS Number: 64-17-5

Date Report Requested: 09/15/2018

Time Report Requested: 06:23:04

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	22 ± 0.9
100.0	21 ± 3.5
333.0	19 ± 2.0
1000.0	26 ± 2.3
3333.0	31 ± 2.4
10000.0	28 ± 0.9
Trial Summary	Negative
Positive Control ²	
Positive Control ⁹	
Positive Control ⁵	294 ± 21.4

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G06: Ames Summary Data

Test Compound: Ethanol

CAS Number: 64-17-5

Date Report Requested: 09/15/2018

Time Report Requested: 06:23:04

Strain: TA104

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	372 ± 8.2	304 ± 3.3	393 ± 9.5	403 ± 15.2	408 ± 8.1
100.0	391 ± 14.1	321 ± 9.4	371 ± 8.4	441 ± 6.1	368 ± 29.8
333.0	376 ± 27.7	260 ± 7.5	363 ± 20.7	450 ± 20.4	360 ± 20.1
1000.0	375 ± 9.0	283 ± 16.5	392 ± 7.2	446 ± 11.8	388 ± 1.2
3333.0	358 ± 29.5	275 ± 10.5	386 ± 6.9	414 ± 22.6	324 ± 7.5
10000.0	321 ± 8.5	277 ± 8.8	376 ± 21.3	417 ± 2.6	379 ± 5.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹⁰			3483 ± 75.1	1623 ± 34.5	3450 ± 37.4
Positive Control ¹¹	998 ± 16.9	1036 ± 37.7			

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Test Compound: Ethanol

CAS Number: 64-17-5

Date Report Requested: 09/15/2018

Time Report Requested: 06:23:04

Strain: TA104

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	405 ± 14.6
100.0	387 ± 13.5
333.0	419 ± 36.2
1000.0	405 ± 10.8
3333.0	413 ± 9.1
10000.0	395 ± 4.8
Trial Summary	Negative
Positive Control ¹⁰	2202 ± 51.6
Positive Control ¹¹	

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LEGEND

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: 0.4 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: 0.05 ug/Plate Icr-191

8: 2.5 ug/Plate 2-Aminoanthracene

9: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

10: 4.0 ug/Plate 2-Aminoanthracene

11: 75.0 ug/Plate Methyl Methane Sulfonate

**** END OF REPORT ****