

Experiment Number: 735832

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

G06: Ames Summary Data

Test Compound: **Hydroxyacetonitrile**

CAS Number: **107-16-4**

Date Report Requested: **09/17/2018**

Time Report Requested: **05:17:16**

NTP Study Number:

735832

Study Result:

Negative

Experiment Number: 735832

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Hydroxyacetoneitrile

CAS Number: 107-16-4

Date Report Requested: 09/17/2018

Time Report Requested: 05:17:16

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	141 ± 2.3	134 ± 6.4	149 ± 10.2	148 ± 13.1	123 ± 13.7
1.0	138 ± 1.3		151 ± 8.4		112 ± 7.3
3.0	135 ± 6.7	113 ± 5.5	146 ± 15.2	146 ± 3.0	110 ± 5.7
10.0	142 ± 4.2	117 ± 8.2	126 ± 1.5	162 ± 4.4	110 ± 9.0
33.0	137 ± 1.0	108 ± 4.3	139 ± 6.1	148 ± 5.3	109 ± 7.2
66.0	89 ± 44.6	94 ± 15.1	148 ± 1.5	73 ± 5.8	100 ± 6.1
100.0		67 ± 11.0 ^s		42 ± 7.7 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1139 ± 37.1	364 ± 23.5	1711 ± 7.8
Positive Control ³	405 ± 5.5	311 ± 20.6			

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Date Report Requested: **09/17/2018**
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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	148 ± 14.9
1.0	
3.0	154 ± 2.3
10.0	150 ± 12.0
33.0	150 ± 2.6
66.0	68 ± 9.3
100.0	32 ± 8.6 ^s
Trial Summary	Negative
Positive Control ²	805 ± 14.3
Positive Control ³	

Experiment Number: 735832

Test Type: **Genetic Toxicology - Bacterial Mutagenicity****G06: Ames Summary Data**Test Compound: **Hydroxyacetoneitrile**CAS Number: **107-16-4**Date Report Requested: **09/17/2018**Time Report Requested: **05:17:16****Strain: TA1535**

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	45 ± 5.8	26 ± 0.7	14 ± 2.2	10 ± 0.9	8 ± 0.7
1.0	47 ± 5.2		8 ± 0.7		12 ± 2.0
3.0	41 ± 0.0	20 ± 3.8	11 ± 1.0	7 ± 0.9	8 ± 2.6
10.0	47 ± 6.6	18 ± 1.8	13 ± 2.1	8 ± 2.0	7 ± 0.3
33.0	42 ± 8.9	17 ± 3.0	13 ± 3.4	11 ± 1.2	12 ± 2.6
66.0	38 ± 10.3	10 ± 2.0	14 ± 2.2	7 ± 0.6	12 ± 1.2
100.0		10 ± 2.3 ^s		5 ± 0.6 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	629 ± 4.5	220 ± 6.1			
Positive Control ⁴			315 ± 56.3	206 ± 19.1	704 ± 35.4

Experiment Number: 735832

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

G06: Ames Summary Data

Test Compound: **Hydroxyacetonitrile**

CAS Number: **107-16-4**

Date Report Requested: **09/17/2018**

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 2.1
1.0	
3.0	9 ± 0.3
10.0	7 ± 0.6
33.0	8 ± 1.2
66.0	6 ± 0.9
100.0	4 ± 0.7 ^s
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	500 ± 58.0

Experiment Number: 735832

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

Test Compound: Hydroxyacetoneitrile

CAS Number: 107-16-4

Date Report Requested: 09/17/2018

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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 ¹	191 ± 10.4	158 ± 3.7	192 ± 4.4	191 ± 3.5	193 ± 5.8
1.0	182 ± 8.2		188 ± 15.6	204 ± 2.6	194 ± 7.3
3.0	177 ± 5.5	173 ± 5.4	172 ± 13.0	202 ± 2.6	193 ± 2.3
10.0	165 ± 7.0	165 ± 6.1	170 ± 10.4	194 ± 10.8	204 ± 7.2
33.0	201 ± 12.2	163 ± 7.9	164 ± 5.4	182 ± 11.6	210 ± 2.9
66.0	167 ± 12.5	164 ± 8.8	45 ± 14.6 ^s	169 ± 7.0 ^s	200 ± 6.4
100.0		135 ± 15.0 ^s			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			1220 ± 25.3	514 ± 5.5	464 ± 19.2
Positive Control ⁵	1049 ± 70.4	1226 ± 66.3			

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G06: Ames Summary Data
Test Compound: **Hydroxyacetonitrile**
CAS Number: **107-16-4**

Date Report Requested: **09/17/2018**
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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	161 ± 17.5
1.0	
3.0	151 ± 20.9
10.0	136 ± 14.3
33.0	139 ± 12.0
66.0	179 ± 6.1
100.0	85 ± 24.8 ^s
Trial Summary	Negative
Positive Control ⁴	1146 ± 32.8
Positive Control ⁵	

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

Test Compound: Hydroxyacetoneitrile

CAS Number: 107-16-4

Date Report Requested: 09/17/2018

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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 ¹	20 ± 3.0	18 ± 1.2	27 ± 4.4	24 ± 3.6	28 ± 1.5
1.0	29 ± 2.9		25 ± 1.3		30 ± 1.9
3.0	26 ± 0.9	18 ± 1.2	25 ± 1.9	22 ± 4.6	30 ± 1.5
10.0	20 ± 2.8	13 ± 1.5	28 ± 1.0	24 ± 3.5	25 ± 2.3
33.0	23 ± 2.5	16 ± 4.7	22 ± 1.2	18 ± 3.2	26 ± 4.5
66.0	19 ± 2.4	14 ± 0.7	14 ± 1.2	18 ± 0.9	24 ± 2.8
100.0		11 ± 0.9 ^s		6 ± 2.6 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			573 ± 14.4	168 ± 16.7	1432 ± 28.0
Positive Control ⁶	597 ± 93.2	1178 ± 63.3			

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Test Compound: **Hydroxyacetonitrile**

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	28 ± 2.5
1.0	
3.0	20 ± 2.3
10.0	22 ± 1.9
33.0	19 ± 0.9
66.0	16 ± 2.7
100.0	7 ± 1.5 ^s
Trial Summary	Negative
Positive Control ²	620 ± 21.2
Positive Control ⁶	

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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: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****