

Experiment Number: 663190

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Acetaldehyde

CAS Number: 75-07-0

Date Report Requested: 09/11/2018

Time Report Requested: 11:41:53

NTP Study Number:

663190

Study Result:

Negative

Experiment Number: 663190

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Acetaldehyde

CAS Number: 75-07-0

Date Report Requested: 09/11/2018

Time Report Requested: 11:41:53

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	159 ± 8.9	124 ± 6.3	158 ± 18.2	143 ± 9.1	197 ± 3.0
33.0			146 ± 5.5		200 ± 1.0
100.0	133 ± 2.3	107 ± 9.2	150 ± 7.2	133 ± 9.8	189 ± 10.7
333.0	126 ± 11.1	101 ± 1.9	166 ± 9.4	145 ± 4.6	187 ± 5.1
1000.0	137 ± 6.9	106 ± 6.8	153 ± 9.7	125 ± 12.0	179 ± 5.2
3333.0	104 ± 2.8	83 ± 5.0	165 ± 8.6	122 ± 11.2	184 ± 1.5
10000.0	Toxic	Toxic		128 ± 2.5	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1857 ± 81.2	2068 ± 97.0	2057 ± 10.8
Positive Control ³	1350 ± 9.9	1745 ± 10.0			

Experiment Number: 663190
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Acetaldehyde
CAS Number: 75-07-0

Date Report Requested: 09/11/2018
Time Report Requested: 11:41:53

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	145 ± 5.8
33.0	
100.0	134 ± 7.5
333.0	133 ± 13.5
1000.0	129 ± 2.4
3333.0	127 ± 5.2
10000.0	54 ± 1.2
Trial Summary	Negative
Positive Control ²	2334 ± 42.7
Positive Control ³	

Experiment Number: 663190

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Acetaldehyde

CAS Number: 75-07-0

Date Report Requested: 09/11/2018

Time Report Requested: 11:41:53

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	18 ± 1.8	5 ± 2.4	24 ± 2.4	10 ± 1.0	23 ± 0.7
33.0			25 ± 0.0		21 ± 3.4
100.0	23 ± 4.4	8 ± 1.5	25 ± 1.0	11 ± 0.3	21 ± 2.8
333.0	21 ± 1.7	9 ± 2.1	22 ± 4.4	11 ± 0.9	20 ± 0.7
1000.0	23 ± 0.0	6 ± 0.3	27 ± 0.5	6 ± 2.1	18 ± 1.0
3333.0	23 ± 2.6	8 ± 1.0	24 ± 2.2	8 ± 1.9	13 ± 1.9
10000.0	18 ± 5.0	Toxic		7 ± 1.0	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			459 ± 29.5	310 ± 13.7	457 ± 45.6
Positive Control ³	1107 ± 19.2	1591 ± 14.9			

Experiment Number: 663190
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Acetaldehyde
CAS Number: 75-07-0

Date Report Requested: 09/11/2018
Time Report Requested: 11:41:53

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 1.2
33.0	
100.0	10 ± 0.9
333.0	5 ± 1.5
1000.0	8 ± 1.5
3333.0	5 ± 2.0
10000.0	11 ± 1.0
Trial Summary	Negative
Positive Control ⁴	392 ± 20.7
Positive Control ³	

Experiment Number: 663190
 Test Type: Genetic Toxicology - Bacterial
 Mutagenicity

G06: Ames Summary Data
 Test Compound: Acetaldehyde
 CAS Number: 75-07-0

Date Report Requested: 09/11/2018
 Time Report Requested: 11:41:53

Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	4 ± 1.2	9 ± 1.0	5 ± 1.3	14 ± 1.2	9 ± 0.9
33.0		8 ± 1.0	6 ± 2.3	11 ± 2.6	
100.0	7 ± 0.3	1 ± 0.6	4 ± 0.3	14 ± 3.2	10 ± 2.3
333.0	6 ± 0.9	4 ± 0.3	5 ± 0.9	19 ± 2.0	9 ± 1.5
1000.0	5 ± 1.0	5 ± 0.9	4 ± 1.5	11 ± 2.9	6 ± 2.0
3333.0	Toxic	3 ± 0.3	Toxic	13 ± 2.2	3 ± 0.9
10000.0	Toxic				2 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴				291 ± 7.9	293 ± 26.2
Positive Control ⁵	126 ± 8.5	595 ± 59.9	671 ± 91.8		

Experiment Number: 663190
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Acetaldehyde
CAS Number: 75-07-0

Date Report Requested: 09/11/2018
Time Report Requested: 11:41:53

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	14 ± 3.2	9 ± 1.2
33.0	17 ± 1.0	
100.0	16 ± 1.2	10 ± 0.6
333.0	14 ± 2.0	8 ± 2.7
1000.0	15 ± 1.2	6 ± 1.2
3333.0	13 ± 2.1	5 ± 0.6
10000.0		3 ± 0.9
Trial Summary	Negative	Negative
Positive Control ⁴	97 ± 14.7	158 ± 19.2
Positive Control ⁵		

Experiment Number: 663190
 Test Type: Genetic Toxicology - Bacterial
 Mutagenicity

G06: Ames Summary Data
 Test Compound: Acetaldehyde
 CAS Number: 75-07-0

Date Report Requested: 09/11/2018
 Time Report Requested: 11:41:53

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	28 ± 5.9	16 ± 1.5	32 ± 3.9	24 ± 1.2	25 ± 3.8
33.0			30 ± 1.8		32 ± 1.8
100.0	24 ± 3.0	14 ± 1.2	40 ± 7.8	14 ± 1.9	35 ± 2.6
333.0	32 ± 2.3	12 ± 0.9	35 ± 3.1	16 ± 2.0	35 ± 3.2
1000.0	32 ± 4.0	19 ± 1.2	37 ± 2.2	17 ± 1.8	35 ± 6.0
3333.0	26 ± 6.7	20 ± 1.5	40 ± 6.5	20 ± 1.5	37 ± 4.7
10000.0	27 ± 1.0	16 ± 0.6		13 ± 2.2	
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²			868 ± 107.6	1410 ± 247.8	1448 ± 120.1
Positive Control ⁶	183 ± 5.1	229 ± 29.9			

Experiment Number: 663190
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Acetaldehyde
CAS Number: 75-07-0

Date Report Requested: 09/11/2018
Time Report Requested: 11:41:53

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	21 ± 2.9
33.0	
100.0	21 ± 1.5
333.0	22 ± 2.0
1000.0	20 ± 4.6
3333.0	21 ± 1.8
10000.0	15 ± 0.6
Trial Summary	Negative
Positive Control ²	1604 ± 132.3
Positive Control ⁶	

Experiment Number: 663190

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

G06: Ames Summary Data

Test Compound: **Acetaldehyde**

CAS Number: **75-07-0**

Date Report Requested: **09/11/2018**

Time Report Requested: **11:41:53**

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: 95% Ethanol

2: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****