

Experiment Number: A17696

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

G06: Ames Summary Data

Test Compound: **Acetoin**

CAS Number: **513-86-0**

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

Time Report Requested: **02:12:49**

NTP Study Number:

A17696

Study Result:

Negative

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G06: Ames Summary Data

Date Report Requested: 09/16/2018

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

Test Compound: Acetoin

Time Report Requested: 02:12:49

CAS Number: 513-86-0

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	184 ± 8.8	156 ± 2.5	183 ± 14.0	191 ± 15.0	161 ± 5.6
100.0	187 ± 13.0	159 ± 10.7	171 ± 4.4	196 ± 25.6	160 ± 6.9
333.0	165 ± 9.5	155 ± 13.7	182 ± 15.2	193 ± 11.3	158 ± 14.4
1000.0	165 ± 7.2	151 ± 6.3	198 ± 1.5	211 ± 12.7	165 ± 13.5
3333.0	189 ± 9.5	147 ± 7.7	178 ± 1.2	215 ± 15.5	171 ± 5.8
10000.0	168 ± 5.8	153 ± 1.7	165 ± 10.5	228 ± 17.3	192 ± 12.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					520 ± 40.1
Positive Control ³	398 ± 45.0	343 ± 10.7			
Positive Control ⁴			469 ± 6.8		
Positive Control ⁵					
Positive Control ⁶				704 ± 58.2	

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Date Report Requested: 09/16/2018
Time Report Requested: 02:12:49

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	137 ± 10.9
100.0	143 ± 1.9
333.0	139 ± 6.0
1000.0	127 ± 8.4
3333.0	151 ± 6.0
10000.0	138 ± 9.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	806 ± 20.5
Positive Control ⁶	

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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	10 ± 1.2	10 ± 1.9	13 ± 1.2	10 ± 1.2	17 ± 3.2
100.0	7 ± 1.9	9 ± 1.2	13 ± 3.1	8 ± 2.1	14 ± 2.0
333.0	7 ± 1.7	8 ± 0.3	10 ± 1.5	10 ± 1.7	9 ± 1.2
1000.0	9 ± 1.3	9 ± 1.5	10 ± 1.7	10 ± 0.0	9 ± 2.4
3333.0	9 ± 1.2	9 ± 2.3	11 ± 4.5	11 ± 3.0	12 ± 0.3
10000.0	5 ± 1.2	10 ± 0.6	15 ± 0.7	12 ± 0.9	15 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					45 ± 4.5
Positive Control ³	233 ± 5.2	219 ± 13.3			
Positive Control ⁵					
Positive Control ⁶			202 ± 5.5	205 ± 4.4	

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Test Compound: Acetoin
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Date Report Requested: 09/16/2018
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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	9 ± 2.7
100.0	12 ± 0.9
333.0	6 ± 0.0
1000.0	8 ± 2.5
3333.0	9 ± 1.5
10000.0	11 ± 3.4
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	78 ± 4.8
Positive Control ⁶	

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Date Report Requested: 09/16/2018

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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	127 ± 4.4	118 ± 5.2	164 ± 3.5	216 ± 11.0	145 ± 11.2
100.0	129 ± 10.6	104 ± 4.8	167 ± 5.2	197 ± 12.7	135 ± 8.2
333.0	145 ± 5.7	117 ± 3.8	160 ± 13.9	222 ± 12.8	136 ± 4.6
1000.0	136 ± 1.9	104 ± 4.0	159 ± 14.2	210 ± 9.2	160 ± 10.1
3333.0	143 ± 2.5	126 ± 7.5	162 ± 12.0	222 ± 9.8	126 ± 7.0
10000.0	129 ± 5.9	122 ± 2.3	167 ± 1.7	216 ± 10.1	162 ± 4.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					551 ± 7.8
Positive Control ⁶			1432 ± 27.6	524 ± 25.1	
Positive Control ⁷	306 ± 36.4	242 ± 15.9			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	152 ± 10.9
100.0	178 ± 3.5
333.0	173 ± 0.9
1000.0	175 ± 7.6
3333.0	180 ± 13.7
10000.0	158 ± 7.7
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	808 ± 10.2
Positive Control ⁷	

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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	13 ± 1.5	17 ± 3.2	20 ± 4.5	17 ± 2.3	19 ± 2.2
100.0	11 ± 0.3	16 ± 2.7	30 ± 1.8	18 ± 1.5	28 ± 3.8
333.0	11 ± 2.7	14 ± 1.0	20 ± 1.2	18 ± 2.8	20 ± 0.9
1000.0	10 ± 1.2	12 ± 1.0	19 ± 2.0	16 ± 4.2	19 ± 3.8
3333.0	9 ± 3.2	11 ± 1.5	17 ± 2.3	14 ± 1.9	20 ± 3.1
10000.0	9 ± 1.2	17 ± 2.7	23 ± 3.4	17 ± 1.2	22 ± 1.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			227 ± 37.9		527 ± 20.9
Positive Control ⁸	80 ± 9.6	74 ± 5.5			
Positive Control ⁵				124 ± 5.2	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	20 ± 3.0
100.0	15 ± 2.6
333.0	20 ± 0.9
1000.0	18 ± 0.9
3333.0	19 ± 2.3
10000.0	18 ± 1.5
Trial Summary	Negative
Positive Control ²	
Positive Control ⁸	
Positive Control ⁵	151 ± 6.8

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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: 24.0 ug/Plate 9-Aminoacridine
- 8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **