

Experiment Number: A37671

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

G06: Ames Summary Data

Test Compound: **Acetal**

CAS Number: **105-57-7**

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

Time Report Requested: **20:43:28**

NTP Study Number:

A37671

Study Result:

Positive

Experiment Number: A37671

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Mutagenicity

G06: Ames Summary Data

Test Compound: Acetal
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Strain: TA100				
Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	146 ± 1.9	124 ± 11.2	188 ± 6.8	178 ± 11.1
100.0	131 ± 3.9	150 ± 9.8	178 ± 6.2	175 ± 4.9
333.0	304 ± 20.3	373 ± 34.8	153 ± 14.0	178 ± 11.5
667.0		203 ± 53.4		
1000.0	550 ± 21.8	124 ± 31.2 ^s	174 ± 8.4	165 ± 3.6
2000.0		77 ± 5.6 ^s		
3333.0	349 ± 40.1		178 ± 8.4	187 ± 14.0
5000.0	329 ± 88.2 ^s			
10000.0			204 ± 13.1	162 ± 9.5
Trial Summary	Positive	Positive	Negative	Negative
Positive Control ²	612 ± 117.1	304 ± 21.6		
Positive Control ³				672 ± 65.7
Positive Control ⁴			1435 ± 108.9	

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Mutagenicity**Test Compound: **Acetal**

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CAS Number: 105-57-7

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	46 ± 4.0	12 ± 3.0	20 ± 4.1	50 ± 2.3	44 ± 5.0
100.0	47 ± 9.9	11 ± 3.0	24 ± 2.4	52 ± 3.2	51 ± 0.9
333.0	56 ± 3.5	16 ± 4.5	74 ± 4.4	44 ± 3.5	44 ± 1.2
667.0		18 ± 2.6	64 ± 3.2		
1000.0	123 ± 30.2	17 ± 3.3	37 ± 8.7 ^s	46 ± 1.7	44 ± 1.5
1500.0			13 ± 2.8 ^s		
2000.0		2 ± 2.3 ^s	8 ± 1.9 ^s		
3333.0	64 ± 23.0 ^s			44 ± 3.7	46 ± 1.3
5000.0	51 ± 18.6 ^s				
10000.0				45 ± 6.0	50 ± 2.1
Trial Summary	Equivocal	Negative	Positive	Negative	Negative
Positive Control ⁵	155 ± 14.3	62 ± 3.5	78 ± 2.3		
Positive Control ³				234 ± 23.1	583 ± 88.7

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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: 0.5 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****