

Experiment Number: A51589

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Acetal

CAS Number: 105-57-7

Date Report Requested: 09/17/2018

Time Report Requested: 04:10:33

NTP Study Number:

A51589

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	116 ± 7.6	131 ± 5.5	119 ± 4.1	105 ± 7.4
1000.0	157 ± 4.7	141 ± 8.1	121 ± 1.0	103 ± 4.4
2500.0	154 ± 1.5	154 ± 6.0	119 ± 1.5	94 ± 6.2
5000.0	174 ± 9.2	196 ± 10.5	113 ± 4.0	88 ± 3.1
7500.0	137 ± 13.4	182 ± 8.1	85 ± 1.8	103 ± 5.8
10000.0	56 ± 12.1	127 ± 10.1	90 ± 5.0	131 ± 3.5
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	452 ± 14.2	653 ± 30.3		
Positive Control ³			692 ± 34.0	1223 ± 25.1

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	23 ± 0.9	24 ± 1.2	41 ± 2.4	46 ± 1.2
1000.0	24 ± 1.2	30 ± 2.0	33 ± 0.6	37 ± 4.1
2500.0	23 ± 2.6	29 ± 1.8	35 ± 2.7	29 ± 2.6
5000.0	21 ± 2.0	33 ± 6.5	32 ± 1.0	36 ± 1.5
7500.0	28 ± 4.2	45 ± 1.7	31 ± 1.0	33 ± 1.5
10000.0	0 ± 0.3 ^x	26 ± 2.2	22 ± 2.2	24 ± 2.3
Trial Summary	Negative	Equivocal	Negative	Negative
Positive Control ³			246 ± 7.5	1167 ± 99.1
Positive Control ⁴	205 ± 7.6	743 ± 17.4		

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Strain: E. coli WP2 uvrA pKM101

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	193 ± 6.8	198 ± 4.9	180 ± 6.0	215 ± 13.8
1000.0	207 ± 2.4	207 ± 11.2	200 ± 8.4	235 ± 10.7
2500.0	180 ± 3.2	227 ± 20.3	159 ± 3.5	251 ± 20.7
5000.0	176 ± 5.8	238 ± 3.2	191 ± 6.4	209 ± 2.9
7500.0	156 ± 6.9	247 ± 6.4	189 ± 1.8	204 ± 8.4
10000.0	144 ± 3.8	264 ± 27.3	161 ± 2.4	235 ± 17.8
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁵			717 ± 32.7	662 ± 50.8
Positive Control ⁶	1100 ± 27.4	1587 ± 135.5		

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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: Dimethyl Formamide

2: 1.0 ug/Plate Sodium Azide

3: 2.5 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate 2-Nitrofluorene

5: 20.0 ug/Plate 2-Aminoanthracene

6: 4000.0 ug/Plate Methyl Methane Sulfonate

x: Slight Toxicity and Precipitate

** END OF REPORT **