

Experiment Number: A59571

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

G06: Ames Summary Data

Test Compound: **Phenylglyoxal**

CAS Number: **1074-12-0**

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

Time Report Requested: **08:44:35**

NTP Study Number:

A59571

Study Result:

Positive

Experiment Number: A59571

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Mutagenicity

G06: Ames Summary Data

Test Compound: Phenylglyoxal

CAS Number: 1074-12-0

Date Report Requested: 09/17/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	154 ± 6.6	111 ± 3.5	151 ± 8.3	105 ± 2.6	134 ± 11.9
3.0	125 ± 16.4	118 ± 13.7			
10.0	157 ± 16.0	134 ± 11.7	150 ± 7.7		137 ± 3.2
33.0	223 ± 27.9	152 ± 9.2	162 ± 6.8	108 ± 6.4	155 ± 4.7
66.0				123 ± 3.5	
100.0	308 ± 20.0	273 ± 18.1	217 ± 17.5	199 ± 13.3	185 ± 17.3
333.0	408 ± 9.9	386 ± 7.5	286 ± 10.5	316 ± 55.6	191 ± 3.4
666.0			181 ± 7.0	236 ± 30.0	184 ± 6.0
Trial Summary	Positive	Positive	Weakly Positive	Positive	Weakly Positive
Positive Control ²					463 ± 26.0
Positive Control ³	908 ± 23.4	888 ± 23.3			
Positive Control ⁴			460 ± 11.7	492 ± 8.0	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	115 ± 5.7
3.0	
10.0	
33.0	122 ± 3.2
66.0	126 ± 5.7
100.0	148 ± 9.0
333.0	174 ± 3.6
666.0	327 ± 22.8
Trial Summary	Positive
Positive Control ²	543 ± 11.6
Positive Control ³	
Positive Control ⁴	

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CAS Number: 1074-12-0

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	19 ± 2.7	12 ± 1.5	20 ± 2.6	15 ± 1.2	19 ± 2.4
3.0	16 ± 1.2	13 ± 0.6			
10.0	16 ± 1.5	15 ± 0.6	20 ± 3.5		24 ± 3.5
33.0	16 ± 2.0	5 ± 5.0 ^x	19 ± 1.2	14 ± 0.6	31 ± 4.0
66.0				20 ± 2.3	
100.0	31 ± 2.3	29 ± 0.9	29 ± 5.0	32 ± 3.5	37 ± 2.0
333.0	7 ± 1.3 ^s	5 ± 2.9 ^s	50 ± 6.6	45 ± 5.9	53 ± 4.7
666.0			57 ± 8.3	60 ± 2.3	101 ± 12.3
Trial Summary	Equivocal	Equivocal	Positive	Positive	Positive
Positive Control ²					445 ± 24.3
Positive Control ⁵	380 ± 9.9				
Positive Control ⁶		334 ± 22.1			
Positive Control ⁴			384 ± 15.3	329 ± 14.0	

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Test Compound: Phenylglyoxal
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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	17 ± 0.6
3.0	
10.0	
33.0	22 ± 3.3
66.0	35 ± 5.6
100.0	58 ± 0.3
333.0	82 ± 5.6
666.0	113 ± 3.2
Trial Summary	Positive
Positive Control ²	440 ± 15.4
Positive Control ⁵	
Positive Control ⁶	
Positive Control ⁴	

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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 Sulfoxide

2: 2.0 ug/Plate 2-Aminoanthracene

3: 5.0 ug/Plate Sodium Azide

4: 5.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

6: 2.5 ug/Plate 2-Aminoanthracene

s: Slight Toxicity

x: Slight Toxicity and Precipitate

**** END OF REPORT ****