

Experiment Number: 768375

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

G06: Ames Summary Data

Test Compound: **Formaldehyde**

CAS Number: **50-00-0**

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

Time Report Requested: **20:33:15**

NTP Study Number:

768375

Study Result:

Positive

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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	108 ± 5.6	90 ± 10.3	102 ± 2.4	105 ± 5.5	105 ± 3.2
3.3	101 ± 10.7	117 ± 5.5	125 ± 5.8	140 ± 5.7	84 ± 8.2
10.0	93 ± 5.4	135 ± 10.2	145 ± 4.9	225 ± 7.0	103 ± 6.3
33.3	136 ± 6.2	118 ± 8.5	207 ± 28.1	293 ± 9.3	159 ± 17.8
100.0	138 ± 7.1	135 ± 4.1	291 ± 8.4	189 ± 15.2	258 ± 69.4
333.3	Toxic	9 ± 3.2 ^s	Toxic	15 ± 6.8 ^s	Toxic
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control ²			684 ± 44.0	1066 ± 12.2	1492 ± 34.2
Positive Control ³	394 ± 5.7	500 ± 10.5			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	90 ± 10.3
3.3	130 ± 13.0
10.0	221 ± 28.6
33.3	327 ± 9.6
100.0	247 ± 6.4
333.3	5 ± 0.6 ^s
Trial Summary	Positive
Positive Control ²	290 ± 21.3
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	11 ± 3.5	11 ± 1.5	7 ± 1.2
3.3	10 ± 2.5	10 ± 2.5	7 ± 2.5
10.0	9 ± 3.5	6 ± 0.6	6 ± 0.6
33.3	9 ± 1.5	12 ± 2.5	6 ± 0.7
100.0	7 ± 0.9	7 ± 1.2	7 ± 2.3
333.3	Toxic	Toxic	Toxic
Trial Summary	Negative	Negative	Negative
Positive Control ³	244 ± 5.8		
Positive Control ⁴		189 ± 7.5	274 ± 6.9

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	6 ± 0.3	8 ± 3.2	6 ± 1.0
3.3	5 ± 1.2	6 ± 3.0	7 ± 0.9
10.0	5 ± 0.6	5 ± 1.0	5 ± 0.6
33.3	5 ± 0.9	5 ± 0.7	4 ± 1.2
100.0	4 ± 0.3	5 ± 0.0	5 ± 0.9
333.3	Toxic	Toxic	Toxic
Trial Summary	Negative	Negative	Negative
Positive Control ⁴		251 ± 18.4	464 ± 28.0
Positive Control ⁵	107 ± 41.0		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	14 ± 0.3	16 ± 8.1	21 ± 3.6
3.3	18 ± 1.0	23 ± 3.1	25 ± 4.3
10.0	16 ± 2.3	35 ± 8.2	24 ± 4.4
33.3	28 ± 3.5	34 ± 2.0	33 ± 2.1
100.0	12 ± 6.3	29 ± 4.3	37 ± 2.3
333.3	Toxic	Toxic	Toxic
Trial Summary	Negative	Negative	Negative
Positive Control ²		180 ± 10.4	638 ± 104.1
Positive Control ⁶	684 ± 9.8		

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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: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****