

Experiment Number: 830333

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

G06: Ames Summary Data

Test Compound: **Formaldehyde**

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

Date Report Requested: **09/15/2018**

Time Report Requested: **19:16:07**

NTP Study Number:

830333

Study Result:

Weakly Positive

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Formaldehyde

CAS Number: 50-00-0

Date Report Requested: 09/15/2018

Time Report Requested: 19:16:07

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	103 ± 5.2	107 ± 16.5	120 ± 11.7	129 ± 14.7	104 ± 8.0
1.0	117 ± 4.6	111 ± 16.0			
3.3	104 ± 3.0	110 ± 14.8	95 ± 6.1	138 ± 7.4	102 ± 4.4
10.0	122 ± 2.9	152 ± 6.9	107 ± 5.5	126 ± 3.2	122 ± 3.8
33.0	141 ± 10.8	163 ± 3.9	172 ± 10.1	221 ± 22.0	123 ± 13.7
100.0	176 ± 6.6 ^s	176 ± 5.5 ^s	284 ± 7.9	300 ± 19.1	239 ± 10.7
200.0			249 ± 7.6 ^s	277 ± 4.2 ^s	255 ± 22.1 ^s
Trial Summary	Equivocal	Equivocal	Positive	Weakly Positive	Weakly Positive
Positive Control ²	106 ± 9.2				
Positive Control ³					99 ± 10.6
Positive Control ⁴		482 ± 46.4			
Positive Control ⁵			811 ± 18.5	616 ± 42.1	

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	139 ± 10.4
1.0	
3.3	134 ± 14.8
10.0	130 ± 5.8
33.0	163 ± 14.5
100.0	312 ± 14.2
200.0	305 ± 9.8 ^s
Trial Summary	Weakly Positive
Positive Control ²	
Positive Control ³	328 ± 20.0
Positive Control ⁴	
Positive Control ⁵	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	28 ± 1.7	8 ± 2.7	11 ± 1.2	11 ± 1.0
1.0	32 ± 4.0			
3.3	32 ± 4.0	9 ± 2.3	14 ± 0.6	9 ± 2.5
10.0	27 ± 2.3	12 ± 1.5	15 ± 1.3	12 ± 2.3
33.0	23 ± 1.0	10 ± 0.3	13 ± 2.7	11 ± 2.7
100.0	16 ± 3.0 ^s	11 ± 2.3	11 ± 2.6	13 ± 2.6
200.0		8 ± 1.5 ^s	11 ± 1.3 ^s	12 ± 1.5 ^s
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²				
Positive Control ³				51 ± 2.2
Positive Control ⁴	285 ± 16.9			
Positive Control ⁶		167 ± 5.5	131 ± 3.2	

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Formaldehyde

CAS Number: 50-00-0

Date Report Requested: 09/15/2018

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	89 ± 2.0	86 ± 3.8	115 ± 5.8	143 ± 1.0	116 ± 1.5
1.0	92 ± 5.0	102 ± 11.0			
3.3	102 ± 11.0	115 ± 8.4	118 ± 6.7	158 ± 5.6	117 ± 8.0
10.0	113 ± 10.1	109 ± 11.0	151 ± 6.7	158 ± 2.2	105 ± 1.5
33.0	164 ± 8.4	159 ± 7.6	214 ± 11.8	204 ± 2.0	185 ± 7.0
100.0	197 ± 17.0 ^s	176 ± 12.4 ^s	294 ± 3.2	289 ± 11.0	262 ± 7.9
200.0			278 ± 3.1 ^s	226 ± 13.2 ^s	249 ± 7.5 ^s
Trial Summary	Weakly Positive	Weakly Positive	Positive	Weakly Positive	Weakly Positive
Positive Control ³					107 ± 4.7
Positive Control ⁶			1497 ± 95.0	1342 ± 60.0	
Positive Control ⁷	678 ± 13.9	448 ± 22.7			

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Test Compound: **Formaldehyde**

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	179 ± 5.5
1.0	
3.3	165 ± 12.4
10.0	193 ± 6.4
33.0	204 ± 15.6
100.0	295 ± 11.7
200.0	259 ± 10.2 ^s
Trial Summary	Equivocal
Positive Control ³	258 ± 5.6
Positive Control ⁶	
Positive Control ⁷	

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Test Compound: Formaldehyde

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	15 ± 3.2	15 ± 2.1	30 ± 3.0	34 ± 3.2	23 ± 2.0
1.0	17 ± 3.9	14 ± 2.1			
3.3	17 ± 2.2	22 ± 0.0	30 ± 5.8	31 ± 3.5	21 ± 4.2
10.0	19 ± 1.5	21 ± 0.9	25 ± 2.9	35 ± 8.7	25 ± 2.0
33.0	30 ± 3.7	22 ± 2.4	39 ± 6.1	45 ± 10.5	29 ± 2.0
100.0	26 ± 2.4 ^s	33 ± 3.5 ^s	43 ± 1.9	47 ± 0.6	44 ± 2.2
200.0			43 ± 2.5 ^s	38 ± 3.8 ^s	41 ± 2.4 ^s
Trial Summary	Equivocal	Equivocal	Negative	Negative	Equivocal
Positive Control ⁸					23 ± 1.7
Positive Control ³			267 ± 4.0	221 ± 10.2	
Positive Control ⁹	158 ± 4.8	137 ± 8.5			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	28 ± 5.5
1.0	
3.3	31 ± 2.7
10.0	27 ± 4.9
33.0	38 ± 1.2
100.0	45 ± 6.7
200.0	44 ± 3.3 ^s
Trial Summary	Equivocal
Positive Control ⁸	152 ± 7.0
Positive Control ³	
Positive Control ⁹	

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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: 0.25 ug/Plate Sodium Azide

3: 0.4 ug/Plate 2-Aminoanthracene

4: 0.5 ug/Plate Sodium Azide

5: 0.75 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 3.5 ug/Plate 9-Aminoacridine

8: 0.2 ug/Plate 2-Aminoanthracene

9: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****