

Experiment Number: 000304

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Formaldehyde

CAS Number: 50-00-0

Date Report Requested: 09/13/2018

Time Report Requested: 23:21:18

NTP Study Number:

000304

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	104 ± 1.8	160 ± 3.8	137 ± 8.7	173 ± 4.6	131 ± 1.9
1.0				170 ± 6.2	
3.0	112 ± 8.8	166 ± 7.6	143 ± 12.5	187 ± 0.7	146 ± 10.4
10.0	117 ± 5.2	176 ± 9.6	168 ± 13.7	220 ± 9.3	162 ± 1.9
33.0	126 ± 13.4	256 ± 8.9	214 ± 7.5	263 ± 9.6	190 ± 15.6
66.0		263 ± 6.1		257 ± 12.0	
100.0	141 ± 2.3	257 ± 13.7	169 ± 3.5		177 ± 13.1
333.0	28 ± 5.4 ^s		71 ± 7.8 ^s		77 ± 3.2 ^s
Trial Summary	Equivocal	Weakly Positive	Weakly Positive	Weakly Positive	Weakly Positive
Positive Control ²					760 ± 50.1
Positive Control ³			434 ± 19.1	1277 ± 76.0	
Positive Control ⁴	330 ± 7.7	773 ± 27.1			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	163 ± 10.6
1.0	169 ± 9.2
3.0	173 ± 8.4
10.0	218 ± 19.5
33.0	285 ± 7.9
66.0	248 ± 1.3
100.0	
333.0	
Trial Summary	Weakly Positive
Positive Control ²	2344 ± 25.3
Positive Control ³	
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	23 ± 3.1	11 ± 1.5	10 ± 2.2
3.0	20 ± 2.6	9 ± 0.3	7 ± 1.0
10.0	22 ± 1.8	10 ± 0.9	9 ± 0.3
33.0	19 ± 0.7	11 ± 1.2	7 ± 0.9
100.0	19 ± 3.0	8 ± 2.0	7 ± 0.6
333.0	2 ± 1.2 ^s	2 ± 2.0 ^s	5 ± 1.2 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ³			286 ± 10.9
Positive Control ⁴	281 ± 19.0		
Positive Control ⁵		129 ± 2.5	

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	9 ± 3.0	11 ± 2.7	9 ± 2.1
1.0		8 ± 2.2	
3.0	8 ± 1.9	10 ± 0.7	12 ± 2.9
10.0	5 ± 0.7	9 ± 1.7	10 ± 1.2
16.0	10 ± 1.8		8 ± 0.0
33.0	5 ± 0.9	10 ± 2.0	13 ± 3.0
66.0		11 ± 1.3	
100.0	6 ± 1.5		8 ± 2.9
Trial Summary	Negative	Negative	Negative
Positive Control ⁵		382 ± 2.2	139 ± 0.9
Positive Control ⁶	385 ± 15.1		

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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	109 ± 5.9	123 ± 18.2	157 ± 5.6	187 ± 1.0	145 ± 4.5
1.0				247 ± 7.5	
3.0	133 ± 5.8	196 ± 6.6	186 ± 10.8	268 ± 9.9	159 ± 8.7
10.0	142 ± 7.3	216 ± 15.7	207 ± 9.5	276 ± 22.3	151 ± 10.1
16.0		236 ± 7.9			
33.0	174 ± 6.7	245 ± 11.0	248 ± 10.0	288 ± 13.8	206 ± 10.8
66.0				264 ± 2.3	
100.0	172 ± 4.5	253 ± 13.8	175 ± 10.2		204 ± 4.6
333.0	7 ± 2.3 ^s		47 ± 11.5 ^s		98 ± 14.0 ^s
Trial Summary	Weakly Positive	Positive	Weakly Positive	Weakly Positive	Weakly Positive
Positive Control ²					517 ± 17.1
Positive Control ³			354 ± 8.7	861 ± 26.1	
Positive Control ⁷	340 ± 16.5	306 ± 12.1			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	202 ± 3.6
1.0	
3.0	228 ± 3.5
10.0	260 ± 1.5
16.0	297 ± 11.9
33.0	316 ± 7.4
66.0	
100.0	253 ± 11.1
333.0	
Trial Summary	Weakly Positive
Positive Control ²	1274 ± 53.6
Positive Control ³	
Positive Control ⁷	

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	27 ± 4.5	40 ± 0.0	37 ± 3.5
3.0	23 ± 4.4	27 ± 4.9	30 ± 3.5
10.0	23 ± 0.9	28 ± 1.5	29 ± 1.0
33.0	30 ± 2.9	40 ± 5.4	42 ± 6.1
100.0	28 ± 2.9	35 ± 5.7	27 ± 3.0
333.0	2 ± 2.0 ^s	10 ± 0.9 ^s	19 ± 3.7 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			502 ± 27.0
Positive Control ³		258 ± 8.4	
Positive Control ⁸	784 ± 20.9		

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate 9-Aminoacridine

7: 25.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

** END OF REPORT **