

Experiment Number: 164784

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Formaldehyde

CAS Number: 50-00-0

Date Report Requested: 09/12/2018

Time Report Requested: 21:37:22

NTP Study Number:

164784

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	98 ± 1.5	137 ± 5.5	125 ± 5.3	114 ± 6.6	116 ± 0.6
3.0	97 ± 5.7	120 ± 5.3	155 ± 3.5	149 ± 2.5	128 ± 8.7
10.0	118 ± 9.2	190 ± 9.5	201 ± 8.8	189 ± 4.7	182 ± 5.3
33.0	209 ± 11.6	252 ± 2.8	304 ± 10.7	218 ± 33.2	332 ± 11.7
66.0		233 ± 8.1		187 ± 10.0	
100.0	171 ± 3.8	193 ± 12.7	227 ± 13.8	153 ± 23.1	196 ± 12.3
333.0	29 ± 1.3		0 ± 0.0 ^s		29 ± 14.3
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			437 ± 84.7	587 ± 8.2	784 ± 10.5
Positive Control ³	203 ± 11.8	475 ± 11.6			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	108 ± 13.9
3.0	136 ± 5.6
10.0	173 ± 6.7
33.0	242 ± 9.7
66.0	198 ± 12.0
100.0	168 ± 10.1
333.0	
Trial Summary	Positive
Positive Control ²	1287 ± 57.8
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 2.3	12 ± 2.2	7 ± 1.0
3.0	9 ± 3.2	10 ± 3.4	8 ± 1.9
10.0	12 ± 6.2	8 ± 0.9	7 ± 3.7
33.0	15 ± 4.4	8 ± 2.0	7 ± 2.3
100.0	9 ± 1.8	4 ± 1.8	6 ± 0.3
333.0	Toxic	0 ± 0.0 ^s	0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ³	193 ± 3.9		
Positive Control ⁴		160 ± 7.9	363 ± 33.9

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9
Vehicle Control ¹	143 ± 3.7	123 ± 6.2	199 ± 18.0	205 ± 9.2	200 ± 4.1
3.0	183 ± 5.5	133 ± 3.4	200 ± 12.5	231 ± 4.5	198 ± 5.3
10.0	197 ± 14.1	150 ± 9.4	207 ± 13.0	228 ± 7.1	227 ± 15.4
33.0	202 ± 24.8	197 ± 2.6	233 ± 16.6	229 ± 2.9	227 ± 7.9
66.0		181 ± 15.6	211 ± 14.7	177 ± 7.7	
100.0	207 ± 20.4	170 ± 10.6	147 ± 28.8	107 ± 15.4	224 ± 20.1
333.0	Toxic				37 ± 8.1
Trial Summary	Equivocal	Equivocal	Negative	Negative	Equivocal
Positive Control ³		1058 ± 81.4			
Positive Control ⁴				2161 ± 8.2	958 ± 59.2
Positive Control ⁵	617 ± 51.0		1622 ± 145.8		

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Test Type: Genetic Toxicology - Bacterial
Mutagenicity**G06: Ames Summary Data**

Test Compound: Formaldehyde

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Strain: TA97

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	112 ± 11.0	223 ± 1.5	208 ± 12.7	213 ± 1.5	173 ± 3.8
3.0	145 ± 15.6	244 ± 4.0	234 ± 18.5	203 ± 21.9	166 ± 1.3
10.0	153 ± 14.9	237 ± 4.3	226 ± 10.0	221 ± 9.8	185 ± 4.8
33.0	148 ± 14.0	197 ± 23.8	242 ± 0.7	194 ± 5.8	219 ± 19.6
66.0	122 ± 22.6	168 ± 13.9	201 ± 9.5	136 ± 13.0	
100.0	76 ± 30.7	121 ± 26.5	207 ± 5.5	80 ± 9.4	191 ± 22.3
333.0					82 ± 3.1
Trial Summary	Equivocal	Negative	Negative	Negative	Equivocal
Positive Control ³					
Positive Control ⁴	801 ± 32.5	1519 ± 46.3	720 ± 144.2	2225 ± 9.4	1423 ± 80.6
Positive Control ⁵					

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	158 ± 20.9	174 ± 7.2	196 ± 4.7
3.0	180 ± 9.8	180 ± 27.5	138 ± 7.3
10.0	188 ± 12.2	187 ± 26.6	146 ± 9.4
33.0	202 ± 6.7	169 ± 26.6	123 ± 0.6
66.0	168 ± 21.2	128 ± 24.0	87 ± 9.8
100.0	136 ± 21.2	92 ± 22.8	63 ± 5.8
333.0			
Trial Summary	Negative	Negative	Negative
Positive Control ³			
Positive Control ⁴	1098 ± 30.3	2038 ± 1.6	1723 ± 44.3
Positive Control ⁵			

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	22 ± 4.2	31 ± 3.8	33 ± 4.7
3.0	20 ± 4.5	34 ± 1.5	30 ± 1.7
10.0	19 ± 3.5	29 ± 1.2	37 ± 2.0
33.0	21 ± 5.4	29 ± 5.2	40 ± 4.3
100.0	14 ± 1.2	31 ± 0.9	26 ± 3.1
333.0	Toxic	Toxic	0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²		307 ± 24.6	702 ± 25.8
Positive Control ⁶	554 ± 24.5		

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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: 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 ****