

Experiment Number: 326240

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Iodoacetic acid

CAS Number: 64-69-7

Date Report Requested: 09/12/2018

Time Report Requested: 15:36:51

NTP Study Number:

326240

Study Result:

Equivocal

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Strain: TA100

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 5% Rat S9	With 5% Rat S9	With 10% Rat S9
Vehicle Control ¹	149 ± 17.9	166 ± 6.1	142 ± 5.0	166 ± 6.4	131 ± 3.5
1.0	143 ± 12.3				140 ± 0.9
3.0	126 ± 14.1		172 ± 6.2	188 ± 5.9	127 ± 4.3
10.0	127 ± 7.2	134 ± 4.1	157 ± 13.0	167 ± 19.2	119 ± 5.0
33.0	162 ± 7.1	154 ± 7.0	176 ± 15.2	175 ± 12.1	141 ± 6.1
45.0				181 ± 14.0	
66.0		203 ± 9.6	203 ± 43.6	210 ± 1.2	
100.0	77 ± 18.7 ^s	223 ± 9.7	0 ± 0.0 ^s		181 ± 17.7
166.0		53 ± 5.5 ^s			
Trial Summary	Negative	Equivocal	Equivocal	Equivocal	Equivocal
Positive Control ²					
Positive Control ³		1587 ± 44.4	1095 ± 31.0	2084 ± 73.0	616 ± 25.7
Positive Control ⁴	376 ± 17.9				

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	105 ± 3.1	141 ± 4.7	128 ± 1.7	143 ± 4.8	131 ± 4.5
1.0				141 ± 12.1	
3.0				133 ± 12.1	
10.0	148 ± 9.2	147 ± 4.1	148 ± 12.5	136 ± 19.8	147 ± 5.6
33.0	138 ± 8.8	156 ± 1.9	156 ± 4.9	135 ± 18.5	146 ± 14.7
45.0					
66.0	158 ± 2.5	155 ± 2.8	156 ± 11.7		160 ± 7.0
100.0	189 ± 7.5	166 ± 11.6	145 ± 9.7	162 ± 6.6	144 ± 4.9
166.0	109 ± 10.3 ^s	197 ± 12.7	50 ± 10.5 ^s		79 ± 3.5 ^s
Trial Summary	Equivocal	Equivocal	Negative	Negative	Negative
Positive Control ²			742 ± 63.1	776 ± 55.5	693 ± 31.5
Positive Control ³	705 ± 17.4	313 ± 22.0			
Positive Control ⁴					

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	147 ± 8.0	131 ± 5.9	148 ± 4.4
1.0			
3.0			
10.0	152 ± 3.2	151 ± 6.7	125 ± 6.7
33.0	170 ± 4.7	159 ± 9.7	139 ± 6.7
45.0			
66.0	176 ± 12.7	182 ± 11.1	148 ± 6.3
100.0	154 ± 5.2	194 ± 4.8	166 ± 11.1
166.0	228 ± 2.2	217 ± 11.5	201 ± 6.1
Trial Summary	Equivocal	Weakly Positive	Equivocal
Positive Control ²			
Positive Control ³	719 ± 20.0	630 ± 24.4	1191 ± 66.4
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	25 ± 3.8	15 ± 0.9	9 ± 3.2
1.0	28 ± 7.0	8 ± 0.6	9 ± 1.9
3.0	26 ± 5.8	7 ± 2.1	12 ± 1.5
10.0	32 ± 5.2	9 ± 1.5	13 ± 3.3
33.0	13 ± 2.3	12 ± 2.0	14 ± 1.7
100.0	3 ± 3.0 ^s	14 ± 1.7	9 ± 1.7
Trial Summary	Negative	Negative	Negative
Positive Control ³			264 ± 5.8
Positive Control ⁴	438 ± 22.3		
Positive Control ⁵		219 ± 14.6	

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

Test Compound: Iodoacetic acid

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Strain: TA97

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	158 ± 9.7	139 ± 15.0	190 ± 4.5	163 ± 12.1	169 ± 11.5
1.0	160 ± 16.2		219 ± 9.2		
3.0	159 ± 12.5		203 ± 11.9		
10.0	160 ± 5.4	139 ± 14.2	218 ± 5.8	173 ± 1.5	195 ± 6.7
33.0	152 ± 6.0	148 ± 16.3	210 ± 6.6	173 ± 5.3	190 ± 14.2
66.0		155 ± 20.9		179 ± 2.9	215 ± 17.3
100.0	40 ± 19.3 ^s	136 ± 23.9	242 ± 0.9	173 ± 3.3	195 ± 4.4
166.0		26 ± 6.8 ^s		75 ± 30.8 ^s	155 ± 11.3
Trial Summary	Negative	Negative	Equivocal	Negative	Equivocal
Positive Control ²					
Positive Control ³		971 ± 17.6	483 ± 21.5	488 ± 21.3	
Positive Control ⁵					441 ± 25.2
Positive Control ⁶	935 ± 14.2				

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Strain: TA97

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	155 ± 12.3	143 ± 5.7	157 ± 18.1	183 ± 13.4
1.0		162 ± 17.1		
3.0		164 ± 11.3		
10.0	159 ± 11.2	179 ± 1.5	178 ± 1.2	196 ± 8.3
33.0	158 ± 11.5	184 ± 12.7	181 ± 6.4	189 ± 10.5
66.0	179 ± 13.1		177 ± 5.0	194 ± 3.2
100.0	159 ± 12.7	193 ± 19.4	171 ± 3.5	193 ± 3.5
166.0	77 ± 11.7 ^s		117 ± 15.2 ^s	179 ± 3.0
Trial Summary	Negative	Equivocal	Negative	Negative
Positive Control ²	294 ± 14.1	556 ± 27.1	306 ± 2.4	
Positive Control ³				318 ± 21.9
Positive Control ⁵				
Positive Control ⁶				

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	22 ± 1.5	40 ± 6.1	44 ± 3.2
1.0	27 ± 1.2	39 ± 0.9	43 ± 9.0
3.0	25 ± 2.7	36 ± 5.5	36 ± 2.1
10.0	24 ± 1.8	37 ± 2.3	35 ± 4.6
33.0	22 ± 2.0	35 ± 3.1	38 ± 6.8
100.0	5 ± 0.9 ^s	27 ± 3.5	34 ± 3.2
Trial Summary	Negative	Negative	Negative
Positive Control ²			444 ± 12.1
Positive Control ³		451 ± 17.9	
Positive Control ⁷	749 ± 19.9		

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

s: Slight Toxicity

**** END OF REPORT ****