

Experiment Number: A17768

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

G06: Ames Summary Data

Test Compound: **3,3',4,4'-Tetrachloroazobenzene**

CAS Number: **14047-09-7**

Date Report Requested: **09/16/2018**

Time Report Requested: **02:20:36**

NTP Study Number:

A17768

Study Result:

Negative

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Test Compound: 3,3',4,4'-Tetrachloroazobenzene

CAS Number: 14047-09-7

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	137 ± 4.3	128 ± 7.2	135 ± 6.5	161 ± 3.9	167 ± 7.7
100.0	136 ± 7.3	97 ± 6.1	153 ± 1.5	171 ± 5.7	161 ± 3.5
333.0	129 ± 16.8 ^P	88 ± 3.8 ^P	92 ± 47.7 ^P	176 ± 10.2 ^P	164 ± 17.9 ^P
1000.0	130 ± 13.0 ^P	94 ± 8.0 ^P	118 ± 3.7 ^P	175 ± 9.3 ^P	165 ± 10.7 ^P
3333.0	125 ± 5.0 ^X	92 ± 14.0 ^P	93 ± 1.2 ^P	167 ± 12.2 ^X	163 ± 11.6 ^P
10000.0	117 ± 9.0 ^X	110 ± 7.3 ^X	108 ± 11.7 ^X	170 ± 9.3 ^X	123 ± 3.8 ^X
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					334 ± 24.1
Positive Control ³	277 ± 29.0	353 ± 3.6			
Positive Control ⁴			492 ± 32.0		
Positive Control ⁵					
Positive Control ⁶				333 ± 24.7	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	141 ± 7.4
100.0	144 ± 13.7
333.0	151 ± 5.2 ^p
1000.0	119 ± 4.5 ^p
3333.0	135 ± 7.5 ^x
10000.0	131 ± 8.7 ^x
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	522 ± 17.1
Positive Control ⁶	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 0.9	7 ± 1.5	6 ± 1.2	9 ± 1.5	5 ± 0.0
100.0	7 ± 2.0 ^P	6 ± 0.3 ^P	10 ± 2.4	9 ± 2.6 ^P	5 ± 0.3
333.0	6 ± 1.5 ^P	7 ± 1.2 ^P	9 ± 0.9 ^P	8 ± 2.6 ^P	8 ± 0.9 ^P
1000.0	7 ± 0.3 ^P	9 ± 0.3 ^P	9 ± 1.5 ^P	10 ± 2.1 ^P	7 ± 2.1 ^P
3333.0	5 ± 1.3 ^X	5 ± 2.5 ^P	7 ± 2.3 ^P	13 ± 2.0 ^X	10 ± 1.9 ^X
10000.0	6 ± 2.1 ^X	7 ± 1.0 ^X	8 ± 1.2 ^X	9 ± 2.0 ^X	7 ± 1.8 ^X
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					33 ± 3.4
Positive Control ³	166 ± 5.8	203 ± 12.5			
Positive Control ⁵					
Positive Control ⁶			169 ± 18.0	231 ± 19.2	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 2.3
100.0	11 ± 0.7 ^P
333.0	14 ± 1.7 ^P
1000.0	11 ± 1.5 ^P
3333.0	8 ± 2.8 ^P
10000.0	8 ± 0.3 ^X
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	92 ± 9.3
Positive Control ⁶	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	111 ± 5.5	87 ± 10.2	96 ± 4.3	187 ± 5.4	99 ± 10.3
100.0	95 ± 5.8	93 ± 6.0	158 ± 39.3 ^P	173 ± 3.2	141 ± 21.0
333.0	105 ± 8.4 ^P	92 ± 6.4 ^P	113 ± 12.5 ^P	144 ± 10.4 ^P	132 ± 16.9 ^P
1000.0	104 ± 10.2 ^P	91 ± 6.6 ^P	134 ± 10.1 ^P	153 ± 3.3 ^P	113 ± 11.6 ^P
3333.0	99 ± 12.3 ^X	86 ± 9.0 ^P	131 ± 3.5 ^P	161 ± 5.8 ^X	126 ± 9.0 ^P
10000.0	94 ± 11.1 ^X	86 ± 3.5 ^X	116 ± 12.3 ^X	150 ± 1.5 ^X	120 ± 9.5 ^X
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					577 ± 32.4
Positive Control ⁶			1159 ± 201.5	532 ± 25.5	
Positive Control ⁷	409 ± 22.7	1338 ± 37.4			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	121 ± 12.7
100.0	172 ± 8.6
333.0	136 ± 5.8 ^p
1000.0	164 ± 7.4 ^p
3333.0	141 ± 11.3 ^p
10000.0	138 ± 13.0 ^x
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	638 ± 10.8
Positive Control ⁷	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	12 ± 0.3	11 ± 1.2	12 ± 2.8	19 ± 0.3	16 ± 0.9
100.0	7 ± 1.5	8 ± 1.2 ^P	14 ± 0.9 ^P	22 ± 2.6 ^P	13 ± 2.7 ^P
333.0	9 ± 3.5 ^P	11 ± 1.3 ^P	13 ± 3.5 ^P	17 ± 0.6 ^P	12 ± 1.2 ^P
1000.0	9 ± 2.2 ^P	7 ± 0.6 ^P	12 ± 1.5 ^P	20 ± 2.0 ^P	8 ± 0.9 ^P
3333.0	7 ± 1.2 ^X	12 ± 1.9 ^X	10 ± 0.9 ^P	21 ± 1.9 ^X	12 ± 0.6 ^P
10000.0	9 ± 2.4 ^X	10 ± 2.8 ^X	12 ± 1.5 ^X	15 ± 0.0 ^X	13 ± 2.5 ^X
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			128 ± 7.0		203 ± 3.7
Positive Control ⁸	57 ± 1.2	76 ± 3.0			
Positive Control ⁵				230 ± 18.7	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 1.0
100.0	18 ± 2.4 ^P
333.0	19 ± 3.9 ^P
1000.0	10 ± 2.7 ^P
3333.0	15 ± 1.5 ^P
10000.0	14 ± 2.7 ^X
Trial Summary	Negative
Positive Control ²	
Positive Control ⁸	
Positive Control ⁵	450 ± 56.7

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Strain: TA102

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	320 ± 8.4	372 ± 22.2	360 ± 13.5	352 ± 24.0	360 ± 15.9
100.0	323 ± 21.4 ^P	280 ± 58.8 ^P	375 ± 19.5 ^P	342 ± 11.3 ^P	370 ± 27.4 ^P
333.0	353 ± 23.8 ^P	254 ± 12.9 ^P	279 ± 27.4 ^P	329 ± 16.2 ^P	305 ± 17.8 ^P
1000.0	285 ± 36.9 ^P	278 ± 11.3 ^P	315 ± 16.9 ^P	294 ± 23.7 ^P	331 ± 31.6 ^P
3333.0	282 ± 20.8 ^P	241 ± 44.9 ^X	297 ± 19.2 ^X	300 ± 11.7 ^X	297 ± 19.1 ^X
10000.0	209 ± 27.7 ^X	207 ± 20.4 ^X	231 ± 9.1 ^X	235 ± 13.1 ^X	267 ± 9.5 ^X
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁹		1936 ± 71.5	2353 ± 45.7	2367 ± 41.3	2113 ± 407.8
Positive Control ¹⁰	1184 ± 26.9				

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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: Dimethyl Sulfoxide
- 2: 0.4 ug/Plate 2-Aminoanthracene
- 3: 0.5 ug/Plate Sodium Azide
- 4: 0.75 ug/Plate 2-Aminoanthracene
- 5: 1.0 ug/Plate 2-Aminoanthracene
- 6: 2.0 ug/Plate 2-Aminoanthracene
- 7: 24.0 ug/Plate 9-Aminoacridine
- 8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine
- 9: 10.0 ug/Plate Sterigmatocystin
- 10: 75.0 ug/Plate Other Positive Control
- p: Precipitate
- x: Slight Toxicity and Precipitate

**** END OF REPORT ****