

Experiment Number: 660256

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 3,4,5,6-Tetrabromo-o-xylene

CAS Number: 36059-21-9

Date Report Requested: 09/11/2018

Time Report Requested: 11:30:52

NTP Study Number:

660256

Study Result:

Negative

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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	131 ± 2.1	123 ± 3.8	156 ± 9.0	127 ± 7.2	137 ± 14.4
100.0	137 ± 8.4	121 ± 11.9	145 ± 12.7	118 ± 8.6	133 ± 8.8
333.0	128 ± 6.2	115 ± 1.5	147 ± 2.5	131 ± 2.9	132 ± 11.9
1000.0	139 ± 12.5 ^P	125 ± 7.2 ^P	156 ± 13.4 ^P	123 ± 4.1 ^P	149 ± 6.9 ^P
3333.0	138 ± 11.9 ^P	104 ± 4.4 ^P	149 ± 6.7 ^P	135 ± 2.6 ^P	139 ± 5.5 ^P
10000.0	140 ± 5.2 ^P	113 ± 6.5 ^P	157 ± 5.7 ^P	136 ± 4.9 ^P	139 ± 17.8 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	325 ± 12.3	327 ± 2.2			
Positive Control ³			839 ± 41.0	591 ± 30.6	2147 ± 92.9

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	121 ± 11.3
100.0	103 ± 7.5
333.0	108 ± 10.1
1000.0	112 ± 1.3 ^P
3333.0	114 ± 5.5 ^P
10000.0	117 ± 4.9 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	1639 ± 24.4

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	23 ± 4.0	18 ± 4.4	6 ± 0.7	6 ± 0.9	7 ± 1.2
100.0	27 ± 4.6	33 ± 2.2	10 ± 2.3	5 ± 3.3	9 ± 2.0
333.0	37 ± 4.3	32 ± 1.5	8 ± 0.3	6 ± 1.0	6 ± 0.3
1000.0	29 ± 2.4 ^P	31 ± 5.6 ^P	12 ± 2.6 ^P	13 ± 2.7 ^P	9 ± 2.4 ^P
3333.0	29 ± 3.0 ^P	29 ± 1.5 ^P	10 ± 1.3 ^P	9 ± 0.6 ^P	13 ± 1.5 ^P
10000.0	30 ± 4.4 ^P	28 ± 2.7 ^P	10 ± 0.3 ^P	9 ± 1.2 ^P	8 ± 1.5 ^P
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control ²	288 ± 13.0	305 ± 14.2			
Positive Control ⁴			183 ± 6.4	146 ± 7.5	530 ± 28.3

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 3.1
100.0	11 ± 3.0
333.0	13 ± 2.3
1000.0	12 ± 1.9 ^P
3333.0	9 ± 1.5 ^P
10000.0	11 ± 2.7 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	342 ± 28.3

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	4 ± 0.3	9 ± 1.8	8 ± 1.7	9 ± 0.9	6 ± 1.5
100.0	6 ± 3.1	5 ± 1.2	10 ± 1.8	11 ± 1.2	10 ± 0.9
333.0	7 ± 1.5	10 ± 2.7	11 ± 1.2	9 ± 2.1	11 ± 1.3
1000.0	7 ± 0.0 ^P	9 ± 1.2 ^P	9 ± 2.1 ^P	10 ± 0.9 ^P	10 ± 1.2 ^P
3333.0	9 ± 0.7 ^P	9 ± 0.6 ^P	9 ± 0.9 ^P	11 ± 1.2 ^P	11 ± 2.0 ^P
10000.0	8 ± 0.6 ^P	8 ± 0.9 ^P	7 ± 0.7 ^P	9 ± 1.2 ^P	12 ± 2.8 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			158 ± 27.3	133 ± 3.6	316 ± 36.2
Positive Control ⁵	114 ± 13.6	150 ± 10.6			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 0.9
100.0	8 ± 0.3
333.0	13 ± 1.0
1000.0	10 ± 2.5 ^p
3333.0	12 ± 1.2 ^p
10000.0	11 ± 2.3 ^p
Trial Summary	Negative
Positive Control ⁴	546 ± 26.3
Positive Control ⁵	

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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	22 ± 2.5	23 ± 1.3	30 ± 5.5	26 ± 5.2	31 ± 3.5
100.0	18 ± 1.0	21 ± 2.1	33 ± 2.7	32 ± 2.3	28 ± 4.8
333.0	19 ± 1.2	21 ± 1.7	27 ± 3.5	25 ± 3.2	35 ± 1.2
1000.0	19 ± 1.0 ^p	19 ± 1.2 ^p	28 ± 4.4 ^p	28 ± 0.6 ^p	31 ± 6.0 ^p
3333.0	17 ± 2.0 ^p	19 ± 2.5 ^p	27 ± 4.1 ^p	25 ± 3.5 ^p	31 ± 4.7 ^p
10000.0	24 ± 2.0 ^p	20 ± 3.8 ^p	27 ± 5.0 ^p	28 ± 3.2 ^p	34 ± 2.5 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			585 ± 43.1	437 ± 19.6	1919 ± 26.9
Positive Control ⁶	809 ± 12.7	989 ± 15.5			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	30 ± 2.0
100.0	31 ± 4.4
333.0	37 ± 0.9
1000.0	26 ± 6.4 ^P
3333.0	34 ± 2.3 ^P
10000.0	29 ± 1.5 ^P
Trial Summary	Negative
Positive Control ³	1466 ± 63.4
Positive Control ⁶	

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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: 1.0 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****