

Experiment Number: 963496

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

G06: Ames Summary Data

Test Compound: **Ethylenebis(tetrabromophthalimide)**

CAS Number: 32588-76-4

Date Report Requested: 09/17/2018

Time Report Requested: 21:50:14

NTP Study Number:

963496

Study Result:

Negative

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Test Compound: Ethylenebis(tetrabromophthalimide)

CAS Number: 32588-76-4

Date Report Requested: 09/17/2018

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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	109 ± 12.7	136 ± 7.7	104 ± 5.6	128 ± 7.0	103 ± 13.2
100.0	121 ± 10.0	123 ± 7.8	128 ± 4.7	130 ± 11.9	111 ± 3.5
333.0	112 ± 3.6	136 ± 2.9	109 ± 6.5	126 ± 12.8	126 ± 2.7
1000.0	109 ± 4.1 ^p	141 ± 4.9 ^p	118 ± 4.7 ^p	129 ± 14.3 ^p	114 ± 16.5 ^p
3333.0	111 ± 9.6 ^p	120 ± 7.4 ^p	123 ± 4.4 ^p	139 ± 7.5 ^p	116 ± 9.9 ^p
10000.0	114 ± 1.5 ^p	104 ± 3.3 ^p	105 ± 5.6 ^p	130 ± 8.0 ^p	93 ± 5.1 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	373 ± 7.6	355 ± 21.4			
Positive Control ³			642 ± 37.1	585 ± 32.0	1335 ± 12.1

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	126 ± 12.2
100.0	131 ± 4.2
333.0	122 ± 3.8
1000.0	120 ± 9.2 ^P
3333.0	113 ± 5.5 ^P
10000.0	121 ± 5.9 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	1405 ± 37.0

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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	13 ± 2.9	24 ± 3.2	9 ± 2.6	7 ± 0.9	8 ± 3.0
100.0	20 ± 0.3	23 ± 2.2	7 ± 1.0	10 ± 1.9	10 ± 1.3
333.0	17 ± 2.2	25 ± 4.7	6 ± 0.3	9 ± 0.3	9 ± 2.1
1000.0	19 ± 1.8 ^P	26 ± 4.0 ^P	7 ± 1.5 ^P	7 ± 1.2 ^P	6 ± 1.5 ^P
3333.0	21 ± 3.1 ^P	25 ± 4.1 ^P	8 ± 0.0 ^P	12 ± 2.3 ^P	7 ± 0.7 ^P
10000.0	19 ± 2.0 ^P	21 ± 2.6 ^P	7 ± 1.7 ^P	10 ± 1.9 ^P	7 ± 0.6 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	157 ± 7.4	368 ± 16.4			
Positive Control ⁴			122 ± 6.5	137 ± 7.1	339 ± 13.5

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	6 ± 0.6
100.0	14 ± 2.5
333.0	7 ± 1.3
1000.0	7 ± 0.3 ^p
3333.0	8 ± 0.9 ^p
10000.0	9 ± 0.6 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	365 ± 11.0

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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	6 ± 2.2	6 ± 0.3	4 ± 1.0	7 ± 1.5	9 ± 2.0
100.0	5 ± 1.5	7 ± 0.3	5 ± 0.7	8 ± 2.7	7 ± 1.2
333.0	4 ± 0.6	7 ± 1.5	6 ± 0.9	6 ± 3.5	8 ± 1.9
1000.0	6 ± 1.0 ^P	6 ± 0.9 ^P	9 ± 0.3 ^P	11 ± 2.4 ^P	7 ± 0.6 ^P
3333.0	7 ± 0.7 ^P	7 ± 1.9 ^P	7 ± 1.5 ^P	12 ± 1.9 ^P	10 ± 1.2 ^P
10000.0	4 ± 1.5 ^P	6 ± 1.3 ^P	9 ± 0.7 ^P	8 ± 0.9 ^P	5 ± 0.9 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			140 ± 16.8	131 ± 10.4	369 ± 10.7
Positive Control ⁵	250 ± 33.6	196 ± 6.2			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.2
100.0	12 ± 1.9
333.0	7 ± 1.9
1000.0	11 ± 2.1 ^P
3333.0	10 ± 3.4 ^P
10000.0	6 ± 0.6 ^P
Trial Summary	Negative
Positive Control ⁴	300 ± 15.9
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	13 ± 0.7	18 ± 0.9	22 ± 2.2	27 ± 1.7	22 ± 3.2
100.0	17 ± 0.9	24 ± 2.8	21 ± 4.9	30 ± 1.5	29 ± 5.2
333.0	17 ± 0.7	20 ± 3.5	28 ± 1.5	35 ± 2.2	25 ± 4.0
1000.0	14 ± 1.2 ^P	13 ± 1.0 ^P	28 ± 5.3 ^P	24 ± 3.0 ^P	28 ± 0.6 ^P
3333.0	15 ± 1.2 ^P	16 ± 0.3 ^P	26 ± 4.0 ^P	25 ± 4.7 ^P	25 ± 3.2 ^P
10000.0	10 ± 2.6 ^P	13 ± 1.2 ^P	19 ± 3.5 ^P	22 ± 2.6 ^P	20 ± 3.8 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			324 ± 58.3	383 ± 30.3	1254 ± 53.9
Positive Control ⁶	390 ± 27.7	322 ± 1.5			

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CAS Number: 32588-76-4

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	29 ± 4.6
100.0	30 ± 1.8
333.0	25 ± 3.2
1000.0	24 ± 5.9 ^P
3333.0	30 ± 3.2 ^P
10000.0	24 ± 2.1 ^P
Trial Summary	Negative
Positive Control ³	1193 ± 16.2
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 ****