

Experiment Number: 636180

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Pentaerythritol triacrylate

CAS Number: 3524-68-3

Date Report Requested: 09/10/2018

Time Report Requested: 23:13:29

NTP Study Number:

636180

Study Result:

Negative

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Pentaerythritol triacrylate

CAS Number: 3524-68-3

Date Report Requested: 09/10/2018

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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	156 ± 8.7	76 ± 5.0	198 ± 20.5	150 ± 5.0	235 ± 12.5
100.0	170 ± 15.3	70 ± 4.7	203 ± 12.2	141 ± 10.7	218 ± 7.2
333.0	121 ± 23.8	67 ± 3.0	196 ± 3.1	140 ± 9.8	232 ± 7.4
1000.0	160 ± 5.8	58 ± 3.0	188 ± 5.0	123 ± 5.6	222 ± 10.7
3333.0	142 ± 22.9	57 ± 1.2	191 ± 1.7	106 ± 10.5	223 ± 1.3
10000.0	153 ± 7.9	53 ± 5.5	203 ± 7.8	97 ± 8.5	194 ± 14.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1858 ± 131.6	2719 ± 75.4	835 ± 146.6
Positive Control ³	479 ± 14.1	791 ± 38.1			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	174 ± 10.7
100.0	131 ± 2.3
333.0	124 ± 9.6
1000.0	118 ± 2.2
3333.0	110 ± 10.8
10000.0	93 ± 5.6
Trial Summary	Negative
Positive Control ²	1014 ± 63.5
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	22 ± 2.9	7 ± 0.6	25 ± 4.4	10 ± 1.7	9 ± 1.2
33.0					12 ± 1.7
100.0	20 ± 1.5	6 ± 1.2	31 ± 2.6	11 ± 1.2	10 ± 0.9
333.0	24 ± 3.0	9 ± 0.7	19 ± 3.6	12 ± 2.0	12 ± 0.6
1000.0	24 ± 0.6	7 ± 0.9	35 ± 1.5	14 ± 2.9	9 ± 1.5
3333.0	22 ± 1.2	7 ± 0.9	39 ± 4.0	7 ± 1.5	7 ± 1.0
10000.0	18 ± 1.3	6 ± 0.3	24 ± 6.3	6 ± 0.3	6 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			997 ± 51.3	704 ± 42.9	834 ± 41.4
Positive Control ³	1127 ± 2.1	821 ± 34.0			

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Test Compound: Pentaerythritol triacrylate
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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	24 ± 3.0	10 ± 0.9	9 ± 0.6
33.0			7 ± 0.3
100.0	42 ± 3.2	12 ± 2.5	11 ± 0.3
333.0	39 ± 3.4	13 ± 2.0	13 ± 0.3
1000.0	40 ± 3.1	9 ± 1.2	8 ± 2.4
3333.0	46 ± 2.6	9 ± 2.2	9 ± 0.0
10000.0	33 ± 5.8	10 ± 1.8	7 ± 1.5
Trial Summary	Equivocal	Negative	Negative
Positive Control ⁴	529 ± 56.4	772 ± 15.1	799 ± 16.3
Positive Control ³			

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Pentaerythritol triacrylate

CAS Number: 3524-68-3

Date Report Requested: 09/10/2018

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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 ± 1.5	7 ± 0.6	9 ± 1.2	8 ± 1.7	9 ± 1.5
100.0	6 ± 1.5	6 ± 1.8	11 ± 1.2	10 ± 0.7	10 ± 1.5
333.0	7 ± 1.5	6 ± 1.5	9 ± 3.2	7 ± 0.7	13 ± 1.5
1000.0	8 ± 1.5	5 ± 0.0	11 ± 3.4	7 ± 1.8	13 ± 3.8
3333.0	5 ± 0.7	3 ± 2.0	11 ± 0.7	4 ± 0.9	12 ± 2.7
10000.0	8 ± 3.8	1 ± 0.6	7 ± 0.7	7 ± 0.9	11 ± 3.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			114 ± 11.0	161 ± 8.0	380 ± 34.1
Positive Control ⁵	939 ± 81.5	784 ± 147.4			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 0.7
100.0	8 ± 1.3
333.0	9 ± 1.7
1000.0	6 ± 1.5
3333.0	6 ± 0.9
10000.0	7 ± 0.9
Trial Summary	Negative
Positive Control ⁴	141 ± 25.1
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	33 ± 5.6	18 ± 5.8	50 ± 4.0	32 ± 2.0	45 ± 3.5
100.0	23 ± 1.2	17 ± 1.2	41 ± 3.2	22 ± 2.6	49 ± 3.5
333.0	26 ± 2.5	15 ± 2.3	31 ± 1.3	19 ± 2.1	39 ± 1.8
1000.0	24 ± 3.6	14 ± 1.2	39 ± 4.4	23 ± 4.7	39 ± 4.5
3333.0	17 ± 2.3	17 ± 2.7	33 ± 2.9	18 ± 2.3	28 ± 5.2
10000.0	11 ± 3.9	15 ± 2.1	20 ± 2.0	18 ± 4.4	17 ± 4.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1410 ± 181.0	1790 ± 71.2	703 ± 68.6
Positive Control ⁶	362 ± 8.4	287 ± 9.1			

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Test Compound: Pentaerythritol triacrylate

CAS Number: 3524-68-3

Date Report Requested: 09/10/2018

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	36 ± 9.4
100.0	23 ± 0.7
333.0	29 ± 5.0
1000.0	23 ± 2.2
3333.0	19 ± 0.7
10000.0	15 ± 3.3
Trial Summary	Negative
Positive Control ²	768 ± 56.4
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 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****