

Experiment Number: **723479**

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

G06: Ames Summary Data

Test Compound: **1,2-Propylene oxide**

CAS Number: **75-56-9**

Date Report Requested: **09/12/2018**

Time Report Requested: **18:55:06**

NTP Study Number:

723479

Study Result:

Positive

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Test Compound: 1,2-Propylene oxide

CAS Number: 75-56-9

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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	100 ± 3.5	102 ± 1.5	132 ± 6.8	118 ± 8.4	190 ± 8.0
100.0	92 ± 3.2	94 ± 5.8	124 ± 4.6	111 ± 2.6	195 ± 5.0
333.0	95 ± 3.3	105 ± 5.6	131 ± 13.6	120 ± 6.5	240 ± 16.8
1000.0	108 ± 5.5	112 ± 1.2	156 ± 6.7	123 ± 12.0	255 ± 7.3
3333.0	151 ± 1.5	162 ± 4.3	263 ± 5.3	215 ± 11.6	437 ± 19.1
7660.0	315 ± 15.9	351 ± 21.3	482 ± 23.6	457 ± 12.5	842 ± 29.9
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			717 ± 101.0	599 ± 13.0	861 ± 22.7
Positive Control ³	676 ± 51.8	565 ± 21.6			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	148 ± 21.1
100.0	150 ± 1.5
333.0	164 ± 11.7
1000.0	185 ± 7.6
3333.0	272 ± 34.5
7660.0	563 ± 48.4
Trial Summary	Positive
Positive Control ²	711 ± 90.7
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% Hamster S9
Vehicle Control ¹	6 ± 0.0	6 ± 0.0	7 ± 0.7	7 ± 0.3	8 ± 1.0
100.0	6 ± 0.3	5 ± 0.3	6 ± 0.3	6 ± 0.0	7 ± 0.3
333.0	5 ± 0.3	6 ± 0.3	6 ± 0.0	5 ± 0.3	9 ± 0.3
1000.0	7 ± 0.3	7 ± 0.3	7 ± 0.3	6 ± 0.3	10 ± 0.3
3333.0	9 ± 0.7	11 ± 0.9	9 ± 0.3	11 ± 1.2	15 ± 0.9
7660.0	16 ± 0.6	21 ± 2.6	15 ± 0.6	17 ± 1.5	21 ± 2.1
Trial Summary	Equivocal	Equivocal	Equivocal	Equivocal	Weakly Positive
Positive Control ²			180 ± 31.0	208 ± 46.2	211 ± 35.8
Positive Control ³	779 ± 35.3	855 ± 72.9			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.3
100.0	7 ± 0.6
333.0	7 ± 0.3
1000.0	8 ± 0.6
3333.0	13 ± 0.7
7660.0	23 ± 4.2
Trial Summary	Weakly Positive
Positive Control ²	230 ± 32.2
Positive Control ³	

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Test Compound: 1,2-Propylene oxide

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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	4 ± 0.0	6 ± 0.0	6 ± 0.3	8 ± 0.6
100.0	4 ± 0.6	4 ± 0.0	9 ± 0.3	8 ± 0.9	8 ± 0.6
333.0	4 ± 0.3	5 ± 0.3	9 ± 0.6	9 ± 0.7	9 ± 1.5
1000.0	5 ± 0.3	5 ± 0.3	12 ± 0.9	10 ± 1.7	13 ± 0.3
3333.0	8 ± 0.6	7 ± 0.6	21 ± 2.0	14 ± 3.1	24 ± 0.3
7660.0	23 ± 2.0	14 ± 2.6	37 ± 2.2	23 ± 5.0	46 ± 4.1
Trial Summary	Equivocal	Equivocal	Positive	Positive	Positive
Positive Control ²			138 ± 23.4	190 ± 42.7	158 ± 1.0
Positive Control ⁴	114 ± 46.4	150 ± 34.9			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 0.3
100.0	9 ± 0.3
333.0	9 ± 0.0
1000.0	10 ± 1.0
3333.0	19 ± 2.5
7660.0	34 ± 4.8
Trial Summary	Positive
Positive Control ²	206 ± 58.8
Positive Control ⁴	

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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	12 ± 1.5	14 ± 1.2	19 ± 0.6	18 ± 1.5	20 ± 1.0
100.0	12 ± 0.7	17 ± 1.3	14 ± 2.6	12 ± 1.0	15 ± 0.3
333.0	12 ± 3.2	15 ± 2.6	17 ± 2.1	14 ± 1.2	19 ± 3.2
1000.0	11 ± 1.3	13 ± 0.9	18 ± 1.5	17 ± 0.9	18 ± 1.9
3333.0	13 ± 1.9	20 ± 3.9	20 ± 3.0	17 ± 1.7	17 ± 2.9
7660.0	23 ± 2.9	35 ± 4.4	22 ± 0.3	32 ± 9.5	17 ± 3.5
Trial Summary	Negative	Equivocal	Negative	Equivocal	Negative
Positive Control ²			899 ± 167.2	360 ± 56.4	1045 ± 37.6
Positive Control ⁵	590 ± 49.2	454 ± 84.2			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	17 ± 2.2
100.0	17 ± 2.0
333.0	18 ± 1.7
1000.0	21 ± 2.3
3333.0	26 ± 3.1
7660.0	41 ± 9.5
Trial Summary	Equivocal
Positive Control ²	659 ± 34.7
Positive Control ⁵	

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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: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****