

Experiment Number: 508505

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Isopropyl glycidyl ether

CAS Number: 4016-14-2

Date Report Requested: 09/12/2018

Time Report Requested: 10:55:02

NTP Study Number:

508505

Study Result:

Positive

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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	87 ± 4.7	85 ± 4.0	133 ± 4.7	130 ± 9.2	132 ± 5.5
100.0	116 ± 3.6	99 ± 6.1	177 ± 13.8	137 ± 2.6	160 ± 11.9
333.0	135 ± 12.1	119 ± 5.2	181 ± 11.9	183 ± 2.0	163 ± 15.2
1000.0	426 ± 28.9	359 ± 11.4	565 ± 31.9	557 ± 6.3	537 ± 27.6
3333.0	859 ± 115.9	636 ± 11.7	1031 ± 143.0	988 ± 30.3	805 ± 52.9
10000.0	Toxic	Toxic	650 ± 118.2	2134 ± 68.1	600 ± 153.6
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			951 ± 151.4	1539 ± 210.6	2510 ± 81.9
Positive Control ³	406 ± 62.6	395 ± 51.5			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	115 ± 10.7
100.0	161 ± 11.1
333.0	178 ± 14.2
1000.0	561 ± 41.0
3333.0	908 ± 54.7
10000.0	1788 ± 36.1
Trial Summary	Positive
Positive Control ²	1650 ± 39.4
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	15 ± 1.5	9 ± 1.3	23 ± 2.2	12 ± 2.6	17 ± 1.2
100.0	24 ± 0.3	13 ± 2.4	27 ± 1.0	15 ± 4.2	29 ± 2.2
333.0	21 ± 3.3	16 ± 4.2	28 ± 2.1	27 ± 2.5	28 ± 4.3
1000.0	41 ± 3.1	33 ± 3.2	64 ± 2.6	74 ± 10.4	66 ± 10.0
3333.0	55 ± 10.1	60 ± 8.7	103 ± 3.8	100 ± 4.8	95 ± 14.8
10000.0	56 ± 11.3	86 ± 7.5	107 ± 22.1	122 ± 13.9	134 ± 6.4
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			50 ± 10.0	73 ± 5.0	89 ± 15.6
Positive Control ³	335 ± 48.5	475 ± 35.7			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	13 ± 2.1
100.0	22 ± 2.4
333.0	26 ± 0.6
1000.0	70 ± 5.6
3333.0	90 ± 6.7
10000.0	134 ± 1.2
Trial Summary	Positive
Positive Control ²	84 ± 10.2
Positive Control ³	

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 1.2	13 ± 1.7	11 ± 0.3
100.0	6 ± 1.9	11 ± 0.6	11 ± 3.1
333.0	6 ± 1.5	12 ± 1.5	11 ± 3.5
1000.0	8 ± 0.3	15 ± 2.9	15 ± 0.6
3333.0	6 ± 0.5	16 ± 2.0	13 ± 2.1
10000.0	Toxic	11 ± 2.1	Toxic
Trial Summary	Negative	Negative	Negative
Positive Control ²		46 ± 8.3	59 ± 4.8
Positive Control ⁴	105 ± 62.8		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	13 ± 0.9	28 ± 2.2	18 ± 2.9
100.0	19 ± 0.3	21 ± 1.5	17 ± 1.9
333.0	14 ± 1.5	25 ± 1.2	13 ± 0.9
1000.0	18 ± 4.6	27 ± 2.3	29 ± 1.5
3333.0	Toxic	38 ± 2.6	28 ± 3.2
10000.0	Toxic	39 ± 3.5	Toxic
Trial Summary	Negative	Negative	Negative
Positive Control ²		534 ± 121.7	2084 ± 252.4
Positive Control ⁵	133 ± 25.9		

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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: 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 ****