

Experiment Number: A18107

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Cyclohexene oxide

CAS Number: 286-20-4

Date Report Requested: 09/16/2018

Time Report Requested: 02:28:21

NTP Study Number:

A18107

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	139 ± 2.3	128 ± 2.3	124 ± 3.5	147 ± 3.6	118 ± 5.7
10.0	138 ± 3.5	121 ± 4.1	124 ± 3.0	139 ± 0.6	125 ± 3.2
33.0	133 ± 4.1	129 ± 3.5	124 ± 2.3	151 ± 3.2	125 ± 1.7
100.0	135 ± 3.8	120 ± 1.9	128 ± 2.0	139 ± 3.8	118 ± 2.3
333.0	138 ± 4.1	110 ± 4.7	112 ± 2.0	131 ± 3.5	114 ± 2.2
1000.0	136 ± 3.8	102 ± 2.7	112 ± 3.8	127 ± 3.8	115 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	473 ± 33.5	625 ± 9.0			
Positive Control ³			616 ± 6.7	582 ± 10.7	1035 ± 13.6

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	142 ± 2.7
10.0	127 ± 4.0
33.0	130 ± 3.5
100.0	124 ± 3.0
333.0	125 ± 3.8
1000.0	122 ± 2.5
Trial Summary	Negative
Positive Control ²	
Positive Control ³	751 ± 19.8

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	21 ± 2.1	22 ± 2.3	19 ± 1.5	18 ± 1.7	20 ± 1.2
10.0	23 ± 2.4	23 ± 1.5	21 ± 3.2	19 ± 0.7	18 ± 1.7
33.0	21 ± 1.5	23 ± 1.2	20 ± 2.3	18 ± 1.0	16 ± 1.2
100.0	23 ± 1.7	19 ± 0.6	20 ± 2.0	20 ± 1.8	16 ± 2.0
333.0	24 ± 2.6	18 ± 0.7	18 ± 2.7	17 ± 2.2	18 ± 2.3
1000.0	19 ± 2.2	19 ± 1.5	17 ± 1.7	11 ± 1.5	20 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	325 ± 10.2	430 ± 13.5			
Positive Control ³			271 ± 7.9	240 ± 5.5	300 ± 10.7

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	22 ± 1.5
10.0	21 ± 1.8
33.0	19 ± 1.9
100.0	18 ± 1.3
333.0	19 ± 3.2
1000.0	18 ± 1.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	255 ± 4.7

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	94 ± 3.2	129 ± 1.9	132 ± 2.7	137 ± 3.0	137 ± 3.5
10.0	90 ± 3.2	129 ± 2.6	133 ± 3.2	129 ± 3.8	130 ± 4.0
33.0	84 ± 3.8	131 ± 3.5	133 ± 2.0	131 ± 3.2	138 ± 3.8
100.0	85 ± 6.2	128 ± 3.6	129 ± 3.3	134 ± 3.2	133 ± 4.1
333.0	85 ± 0.9	126 ± 2.7	132 ± 3.1	130 ± 2.6	137 ± 3.0
1000.0	76 ± 1.8	122 ± 2.3	136 ± 4.1	133 ± 2.9	129 ± 4.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			703 ± 26.2	318 ± 9.5	541 ± 6.1
Positive Control ⁴	509 ± 8.1	329 ± 5.6			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	126 ± 2.9
10.0	135 ± 3.2
33.0	136 ± 4.4
100.0	129 ± 2.7
333.0	134 ± 4.3
1000.0	129 ± 4.9
Trial Summary	Negative
Positive Control ³	816 ± 9.3
Positive Control ⁴	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	30 ± 1.7	37 ± 2.5	39 ± 2.3	35 ± 2.7	37 ± 2.0
10.0	30 ± 2.0	38 ± 1.8	36 ± 2.3	35 ± 2.6	40 ± 3.2
33.0	29 ± 3.2	40 ± 2.6	33 ± 2.6	36 ± 3.8	41 ± 2.6
100.0	30 ± 2.0	38 ± 2.2	35 ± 3.6	36 ± 3.6	35 ± 2.2
333.0	36 ± 3.7	40 ± 2.0	34 ± 2.0	33 ± 3.3	40 ± 2.3
1000.0	28 ± 2.0	31 ± 4.2	37 ± 1.8	29 ± 3.0	32 ± 2.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁵	242 ± 6.2	304 ± 5.2			
Positive Control ³			347 ± 6.2	261 ± 10.7	971 ± 16.3

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Strain: TA102

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	301 ± 2.3	228 ± 3.6	326 ± 3.2	289 ± 3.7	336 ± 3.5
10.0	309 ± 3.8	228 ± 3.8	332 ± 2.4	269 ± 2.6	335 ± 3.2
33.0	300 ± 4.7	232 ± 3.9	328 ± 3.8	256 ± 2.6	330 ± 4.6
100.0	298 ± 4.1	232 ± 4.4	324 ± 2.3	247 ± 3.8	331 ± 3.5
333.0	262 ± 29.2	207 ± 4.1	324 ± 2.9	254 ± 2.8	327 ± 4.4
1000.0	215 ± 8.6 ^s	173 ± 4.1 ^s	321 ± 4.3	256 ± 2.4	328 ± 4.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁶	1061 ± 27.3	1046 ± 22.4			
Positive Control ⁷			1057 ± 22.0	932 ± 6.8	1085 ± 6.7

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Strain: TA102

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	314 ± 2.6
10.0	316 ± 2.6
33.0	316 ± 2.0
100.0	307 ± 6.7
333.0	302 ± 3.2
1000.0	174 ± 2.0 ^s
Trial Summary	Negative
Positive Control ⁶	
Positive Control ⁷	991 ± 10.8

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Strain: TA104

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	238 ± 3.8	371 ± 3.5	367 ± 4.1	244 ± 3.5	354 ± 3.2
10.0	245 ± 3.5	363 ± 6.0	368 ± 2.3	250 ± 3.0	355 ± 5.0
33.0	237 ± 2.1	368 ± 2.6	359 ± 5.0	245 ± 4.0	355 ± 3.5
100.0	252 ± 2.6	369 ± 4.6	373 ± 2.6	240 ± 5.5	351 ± 4.3
333.0	250 ± 3.4	369 ± 3.8	365 ± 4.0	233 ± 1.5	362 ± 3.2
1000.0	230 ± 2.9	378 ± 3.8	368 ± 3.2	227 ± 2.0	356 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					1031 ± 9.6
Positive Control ⁸			1065 ± 11.3	936 ± 15.0	
Positive Control ⁷	922 ± 4.1	1074 ± 5.4			

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Strain: TA104

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	235 ± 2.1
10.0	229 ± 3.2
33.0	232 ± 2.6
100.0	231 ± 2.4
333.0	217 ± 3.6
1000.0	220 ± 3.4
Trial Summary	Negative
Positive Control ³	968 ± 13.6
Positive Control ⁸	
Positive Control ⁷	

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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: 50.0 ug/Plate 9-Aminoacridine
- 5: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine
- 6: 5.0 ug/Plate Mitomycin-C
- 7: 100.0 ug/Plate Other Positive Control
- 8: 2.0 ug/Plate 2-Aminoanthracene
- s: Slight Toxicity

** END OF REPORT **