

Experiment Number: 342826

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Dicumyl peroxide

CAS Number: 80-43-3

Date Report Requested: 09/12/2018

Time Report Requested: 23:15:46

NTP Study Number:

342826

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	124 ± 2.1	117 ± 4.7	84 ± 2.0	121 ± 11.5	120 ± 6.8
33.0	112 ± 3.1	125 ± 1.2	82 ± 4.4	121 ± 3.6	120 ± 5.5
100.0	103 ± 2.7	119 ± 7.5	83 ± 4.5	117 ± 4.2	128 ± 9.1
333.0	102 ± 3.5	113 ± 6.8	83 ± 1.7	134 ± 6.4	120 ± 5.0
1000.0	110 ± 2.5	119 ± 6.0	73 ± 1.2	131 ± 4.5	121 ± 8.0
3333.0	110 ± 5.5 ^s	107 ± 5.5 ^s	71 ± 8.4 ^s	117 ± 10.1	108 ± 2.1 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				1287 ± 18.3	757 ± 19.1
Positive Control ³	311 ± 18.0	413 ± 15.0	273 ± 22.4		

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 10% Mouse S9	With 10% Mouse S9	With 30% Mouse S9
Vehicle Control ¹	105 ± 8.2	111 ± 5.0	113 ± 6.3	101 ± 4.5
33.0	96 ± 4.0	122 ± 7.5	111 ± 4.2	98 ± 1.3
100.0	105 ± 2.1	121 ± 16.5	117 ± 2.3	89 ± 9.2
333.0	92 ± 4.7	120 ± 0.5	118 ± 4.2	90 ± 3.7
1000.0	92 ± 7.2	126 ± 5.5	109 ± 9.3	79 ± 2.3
3333.0	98 ± 2.5 ^s	125 ± 6.1	113 ± 2.0 ^s	102 ± 4.2 ^s
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	288 ± 39.3	1819 ± 17.7	1170 ± 46.6	179 ± 2.7
Positive Control ³				

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	112 ± 8.2	90 ± 3.5	91 ± 3.8	152 ± 2.1	134 ± 3.8
33.0	126 ± 5.4	115 ± 1.8	81 ± 2.0	125 ± 8.7	147 ± 13.1
100.0	155 ± 3.8	115 ± 5.8	78 ± 5.6	132 ± 2.0	123 ± 4.3
333.0	152 ± 13.2	93 ± 10.0	68 ± 1.9	124 ± 7.5	119 ± 5.8
1000.0	134 ± 5.3	112 ± 2.3	70 ± 3.8	117 ± 9.7	120 ± 3.8
3333.0	142 ± 11.8 ^s	107 ± 4.8 ^s	67 ± 0.3 ^s	130 ± 5.7	116 ± 7.2 ^s
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²				575 ± 22.5	373 ± 15.1
Positive Control ⁴					
Positive Control ⁵	1162 ± 41.8	423 ± 35.8	270 ± 21.2		

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Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 10% Mouse S9	With 10% Mouse S9	With 30% Mouse S9
Vehicle Control ¹	101 ± 5.0	107 ± 2.0	119 ± 4.2	92 ± 1.0
33.0	105 ± 1.5	132 ± 0.6	128 ± 3.2	96 ± 1.8
100.0	112 ± 4.7	135 ± 6.6	128 ± 4.7	83 ± 2.3
333.0	54 ± 7.0	105 ± 4.0	122 ± 2.6	101 ± 11.1
1000.0	68 ± 5.7	131 ± 6.2	100 ± 3.2	77 ± 1.8
3333.0	66 ± 2.6 ^s	105 ± 5.5	105 ± 6.8 ^s	72 ± 3.4 ^s
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	399 ± 9.8	734 ± 49.1	494 ± 24.6	198 ± 2.3
Positive Control ⁴				
Positive Control ⁵				

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Strain: TA102

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	225 ± 16.2	219 ± 4.2	219 ± 9.6	327 ± 21.7	243 ± 17.3
33.0	256 ± 8.7	256 ± 10.8	232 ± 7.3	317 ± 5.0	277 ± 36.9
100.0	255 ± 13.5	256 ± 8.0	230 ± 3.5	340 ± 11.0	278 ± 37.6
333.0	272 ± 11.5	295 ± 6.7	219 ± 2.4	309 ± 21.9	302 ± 12.9
1000.0	249 ± 5.3	261 ± 14.0	244 ± 4.0	291 ± 7.0	289 ± 14.6
3333.0	268 ± 4.4 ^s	333 ± 18.8 ^s	249 ± 5.2 ^s	292 ± 28.0	271 ± 9.8 ^s
Trial Summary	Negative	Weakly Positive	Negative	Negative	Negative
Positive Control ⁶	1797 ± 14.7	1107 ± 57.4	911 ± 25.5		
Positive Control ²				455 ± 22.5	
Positive Control ⁷					531 ± 15.9

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Strain: TA102

Dose (ug/Plate)	With 10% Rat S9	With 30% Rat S9	With 10% Mouse S9	With 10% Mouse S9	With 30% Mouse S9
Vehicle Control ¹	269 ± 26.4	281 ± 37.1	367 ± 9.5	269 ± 13.1	269 ± 6.7
33.0	276 ± 24.8	349 ± 22.7	418 ± 7.0	292 ± 5.1	321 ± 29.5
100.0	329 ± 15.3	319 ± 21.9	381 ± 3.0	322 ± 8.4	253 ± 7.0
333.0	339 ± 5.5	329 ± 23.5	425 ± 6.9	324 ± 6.7	282 ± 25.4
1000.0	372 ± 2.3	375 ± 31.0	380 ± 32.6	336 ± 18.2	341 ± 10.0
3333.0	405 ± 17.8 ^s	380 ± 9.2 ^s	433 ± 7.2	354 ± 33.9 ^s	339 ± 10.2 ^s
Trial Summary	Weakly Positive	Equivocal	Negative	Equivocal	Negative
Positive Control ⁶					
Positive Control ²			403 ± 7.5		
Positive Control ⁷	545 ± 20.6	487 ± 28.4		540 ± 31.4	557 ± 24.0

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Strain: TA104

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	449 ± 26.1	348 ± 8.7	302 ± 6.7	486 ± 29.0	462 ± 8.0
33.0	456 ± 61.8	376 ± 15.5	317 ± 3.5	495 ± 3.3	464 ± 16.5
100.0	520 ± 16.4	353 ± 4.5	287 ± 7.0	505 ± 15.2	448 ± 18.3
333.0	477 ± 6.2	333 ± 11.3	278 ± 35.7	490 ± 19.6	430 ± 10.3
1000.0	507 ± 10.2	332 ± 21.3	301 ± 9.6	528 ± 17.9	464 ± 24.1
3333.0	509 ± 35.4 ^s	342 ± 8.7 ^s	292 ± 17.5 ^s	484 ± 6.4	465 ± 31.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁸					
Positive Control ²				916 ± 13.0	873 ± 10.7
Positive Control ⁹	936 ± 42.0	648 ± 33.2	638 ± 8.4		

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Strain: TA104

Dose (ug/Plate)	With 30% Rat S9	With 10% Mouse S9	With 10% Mouse S9	With 30% Mouse S9
Vehicle Control ¹	328 ± 16.6	432 ± 25.9	424 ± 13.6	298 ± 5.8
33.0	363 ± 12.5	522 ± 18.6	462 ± 16.5	318 ± 19.9
100.0	327 ± 30.7	447 ± 28.7	478 ± 9.5	327 ± 6.2
333.0	342 ± 8.8	469 ± 26.5	427 ± 22.6	324 ± 12.2
1000.0	333 ± 10.3	495 ± 4.4	458 ± 9.5	292 ± 4.0
3333.0	300 ± 21.0 ^s	506 ± 4.8	462 ± 5.6 ^s	310 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁸				
Positive Control ²	677 ± 15.9	1055 ± 11.5	1180 ± 25.2	523 ± 12.4
Positive Control 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: Dimethyl Sulfoxide

2: 1.0 ug/Plate 2-Aminoanthracene

3: 100.0 ug/Plate Methyl Methane Sulfonate

4: 20.0 ug/Plate 9-Aminoacridine

5: 50.0 ug/Plate 9-Aminoacridine

6: 0.5 ug/Plate Mitomycin-C

7: 5.0 ug/Plate 2-Aminoanthracene

8: 0.125 ug/Plate Mitomycin-C

9: 50.0 ug/Plate Formaldehyde

s: Slight Toxicity

**** END OF REPORT ****