

Experiment Number: 255600

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Benzoyl peroxide

CAS Number: 94-36-0

Date Report Requested: 09/11/2018

Time Report Requested: 02:18:58

NTP Study Number:

255600

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Mouse S9
Vehicle Control ¹	117 ± 6.7	90 ± 4.6	127 ± 3.5	98 ± 2.8	113 ± 7.5
1.0	112 ± 9.8	91 ± 1.8	120 ± 9.0	100 ± 4.0	109 ± 1.2
3.0	124 ± 4.0	91 ± 4.0	126 ± 4.8	111 ± 4.1	112 ± 9.8
10.0	65 ± 6.4 ^s	88 ± 8.2 ^s	128 ± 10.4	112 ± 1.3	110 ± 9.6
33.0	3 ± 0.9 ^s	36 ± 4.0 ^s	129 ± 1.7	115 ± 3.7	112 ± 3.7
100.0	Toxic	0 ± 0.0 ^s	110 ± 5.5	97 ± 10.3	112 ± 10.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			633 ± 7.9	242 ± 7.1	437 ± 10.1
Positive Control ³	320 ± 14.5	348 ± 20.2			

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Strain: TA100

Dose (ug/Plate)	With 10% Mouse S9	With 10% Mouse S9
Vehicle Control ¹	90 ± 2.9	96 ± 4.2
1.0	87 ± 5.2	103 ± 10.6
3.0	90 ± 1.7	100 ± 6.5
10.0	83 ± 7.0 ^s	104 ± 6.4
33.0	68 ± 3.5 ^s	87 ± 5.2
100.0	93 ± 4.1 ^s	94 ± 4.2
Trial Summary	Negative	Negative
Positive Control ²	1080 ± 39.0	254 ± 11.0
Positive Control ³		

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Mouse S9
Vehicle Control ¹	113 ± 5.4	102 ± 13.3	153 ± 9.2	161 ± 19.8	132 ± 6.4
1.0	121 ± 6.2	101 ± 1.5	171 ± 7.2	179 ± 5.5	140 ± 10.0
3.0	111 ± 13.0	100 ± 5.3	162 ± 14.8	174 ± 8.8	122 ± 3.3
10.0	71 ± 8.6 ^s	48 ± 5.0 ^s	173 ± 1.3	164 ± 11.9	108 ± 15.9
33.0	33 ± 1.7 ^s	26 ± 3.8 ^s	178 ± 14.4	170 ± 5.0	139 ± 6.7
100.0	35 ± 3.2 ^s	0 ± 0.0 ^s	180 ± 2.7	168 ± 9.0	127 ± 7.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			338 ± 27.0	318 ± 5.2	635 ± 49.5
Positive Control ⁴	1034 ± 17.3	360 ± 5.9			

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Strain: TA97

Dose (ug/Plate)	With 10% Mouse S9
Vehicle Control ¹	120 ± 6.2
1.0	119 ± 14.5
3.0	115 ± 7.5
10.0	86 ± 5.3
33.0	105 ± 7.5
100.0	95 ± 2.9
Trial Summary	Negative
Positive Control ²	247 ± 28.8
Positive Control ⁴	

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Strain: TA102

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Mouse S9
Vehicle Control ¹	263 ± 3.3	205 ± 14.0	322 ± 16.3	258 ± 10.7	310 ± 4.6
1.0	292 ± 10.0	193 ± 10.7	304 ± 35.8	282 ± 24.2	353 ± 9.4
3.0	297 ± 4.0	187 ± 9.5	305 ± 36.4	329 ± 15.1	346 ± 13.9
10.0	203 ± 2.3	72 ± 10.9 ^s	264 ± 23.2	313 ± 11.2	293 ± 34.4
33.0	201 ± 10.4 ^s	38 ± 2.2 ^s	316 ± 18.8	280 ± 20.0	352 ± 3.0
100.0	155 ± 18.8 ^s	3 ± 1.5 ^s	332 ± 17.9	255 ± 6.5	332 ± 15.5
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ⁵	995 ± 36.7	918 ± 39.6			
Positive Control ⁶			621 ± 22.0	440 ± 19.4	478 ± 17.2

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Strain: TA102

Dose (ug/Plate)	With 10% Mouse S9
Vehicle Control ¹	227 ± 14.2
1.0	261 ± 16.6
3.0	224 ± 35.5
10.0	185 ± 10.3
33.0	224 ± 18.8
100.0	193 ± 9.3
Trial Summary	Negative
Positive Control ⁵	
Positive Control ⁶	390 ± 10.7

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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	481 ± 5.2	390 ± 14.2	410 ± 14.7	436 ± 4.7	429 ± 15.2
1.0	470 ± 16.9	418 ± 11.4	398 ± 13.8	443 ± 17.7	448 ± 31.2
3.0	446 ± 15.8	417 ± 12.5	440 ± 39.4	385 ± 49.3	435 ± 20.8
10.0	471 ± 23.4	263 ± 30.9 ^s	391 ± 19.6 ^s	462 ± 5.0	499 ± 27.6
33.0	447 ± 13.0 ^s	150 ± 35.6 ^s	191 ± 27.4 ^s	416 ± 5.9	449 ± 9.8
100.0	383 ± 3.0 ^s	169 ± 33.2 ^s	149 ± 9.8 ^s	383 ± 24.8	447 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁷	410 ± 7.5				
Positive Control ²				779 ± 19.8	606 ± 7.2
Positive Control ⁸		879 ± 28.1	883 ± 49.8		

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Strain: TA104

Dose (ug/Plate)	With 10% Mouse S9	With 10% Mouse S9
Vehicle Control ¹	465 ± 6.3	392 ± 2.7
1.0	471 ± 17.3	409 ± 7.2
3.0	416 ± 4.4	313 ± 18.2
10.0	443 ± 7.2	382 ± 26.0
33.0	472 ± 20.1	371 ± 25.9
100.0	451 ± 19.5	394 ± 7.7
Trial Summary	Negative	Negative
Positive Control ⁷		
Positive Control ²	803 ± 13.0	553 ± 2.9
Positive Control ⁸		

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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: Acetone

2: 1.0 ug/Plate 2-Aminoanthracene

3: 100.0 ug/Plate Other Positive Control

4: 50.0 ug/Plate 9-Aminoacridine

5: 0.5 ug/Plate Mitomycin-C

6: 5.0 ug/Plate 2-Aminoanthracene

7: 0.05 ug/Plate Mitomycin-C

8: 50.0 ug/Plate Other Positive Control

s: Slight Toxicity

**** END OF REPORT ****