

Experiment Number: 847226

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Benzoyl peroxide

CAS Number: 94-36-0

Date Report Requested: 09/16/2018

Time Report Requested: 04:48:15

**NTP Study Number:**

847226

**Study Result:**

Negative

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Mutagenicity

## G06: Ames Summary Data

Test Compound: Benzoyl peroxide

CAS Number: 94-36-0

Date Report Requested: 09/16/2018

Time Report Requested: 04:48:15

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	127 ± 9.3	104 ± 4.5	122 ± 4.0	128 ± 2.7	109 ± 3.5
0.03		87 ± 0.6			
0.1	127 ± 10.1	94 ± 4.5			
0.3	120 ± 11.5 <sup>s</sup>	94 ± 2.3			
1.0	101 ± 7.8 <sup>s</sup>	94 ± 4.1			
3.3	Toxic	90 ± 7.0 <sup>s</sup>	114 ± 4.1	106 ± 2.7	110 ± 7.7
6.7	87 ± 15.5 <sup>s</sup>				
10.0			109 ± 2.9	96 ± 1.5	116 ± 2.6
33.0			105 ± 7.0	112 ± 3.4	102 ± 3.9
100.0			89 ± 6.7 <sup>s</sup>	117 ± 1.3	110 ± 3.8 <sup>s</sup>
200.0			85 ± 6.6 <sup>s</sup>	131 ± 7.2 <sup>s</sup>	110 ± 5.8 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					365 ± 4.7
Positive Control <sup>3</sup>			1000 ± 45.3		
Positive Control <sup>4</sup>				717 ± 11.3	
Positive Control <sup>5</sup>	1402 ± 21.4	1395 ± 80.8			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	106 ± 11.0
0.03	
0.1	
0.3	
1.0	
3.3	103 ± 7.7
6.7	
10.0	106 ± 9.0
33.0	105 ± 6.8
100.0	111 ± 3.9
200.0	104 ± 8.7 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	1184 ± 45.3
Positive Control <sup>5</sup>	

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Test Compound: Benzoyl peroxide

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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 <sup>1</sup>	26 ± 0.9	23 ± 3.7	11 ± 1.2	10 ± 2.2	14 ± 3.0
0.03		21 ± 3.1			
0.1	23 ± 1.2	23 ± 3.1			
0.3	25 ± 1.7	17 ± 1.5			
1.0	22 ± 1.2	17 ± 2.5			
3.3	12 ± 4.1 <sup>s</sup>	17 ± 2.0 <sup>s</sup>	13 ± 2.4	11 ± 0.7	12 ± 1.8
6.7	Toxic				
10.0			13 ± 2.2	10 ± 1.2	11 ± 0.7
33.0			7 ± 0.9	12 ± 1.2	8 ± 1.5
100.0			7 ± 2.0 <sup>s</sup>	7 ± 1.3	13 ± 0.3 <sup>s</sup>
200.0			7 ± 0.3 <sup>s</sup>	11 ± 0.9 <sup>s</sup>	13 ± 1.2 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					53 ± 10.5
Positive Control <sup>3</sup>			85 ± 2.1		
Positive Control <sup>4</sup>				68 ± 3.2	
Positive Control <sup>5</sup>	880 ± 4.3	710 ± 5.3			

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G06: Ames Summary Data  
Test Compound: Benzoyl peroxide  
CAS Number: 94-36-0

Date Report Requested: 09/16/2018  
Time Report Requested: 04:48:15

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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	12 ± 2.1
0.03	
0.1	
0.3	
1.0	
3.3	14 ± 2.2
6.7	
10.0	11 ± 3.8
33.0	14 ± 0.9
100.0	12 ± 1.2
200.0	10 ± 2.6 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	109 ± 8.7
Positive Control <sup>5</sup>	

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	112 ± 9.5	110 ± 12.3	178 ± 5.8	215 ± 11.3	157 ± 8.1
0.03		113 ± 6.8			
0.1	121 ± 10.2	98 ± 4.6			
0.3	135 ± 11.2	95 ± 6.0			
1.0	132 ± 5.5	103 ± 5.0			
3.3	120 ± 14.2 <sup>s</sup>	64 ± 1.9 <sup>s</sup>	182 ± 6.9	223 ± 11.7	144 ± 4.4
6.7	Toxic				
10.0			171 ± 14.2	194 ± 8.7	140 ± 2.4
33.0			167 ± 6.3	172 ± 13.4	155 ± 16.5
100.0			123 ± 11.2 <sup>s</sup>	222 ± 1.0	163 ± 9.8 <sup>s</sup>
200.0			114 ± 10.0 <sup>s</sup>	197 ± 6.5	127 ± 7.1 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>			959 ± 20.3		
Positive Control <sup>4</sup>				365 ± 17.2	326 ± 14.1
Positive Control <sup>6</sup>	1187 ± 16.5	404 ± 3.7			

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**G06: Ames Summary Data**

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	179 ± 3.7	189 ± 5.9
0.03		
0.1		
0.3		
1.0		
3.3	163 ± 4.6	216 ± 12.0
6.7		
10.0	194 ± 10.0	181 ± 9.2
33.0	181 ± 13.8	182 ± 9.5
100.0	128 ± 8.2 <sup>s</sup>	198 ± 4.7
200.0	95 ± 2.8 <sup>s</sup>	200 ± 2.9 <sup>s</sup>
Trial Summary	Negative	Negative
Positive Control <sup>2</sup>	409 ± 6.7	
Positive Control <sup>3</sup>		
Positive Control <sup>4</sup>		764 ± 83.6
Positive Control <sup>6</sup>		

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Test Compound: Benzoyl peroxide

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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 <sup>1</sup>	35 ± 2.7	16 ± 1.7	44 ± 2.9	28 ± 6.7	45 ± 4.7
0.03		21 ± 1.5			
0.1	33 ± 4.4	17 ± 0.3			
0.3	28 ± 0.9	18 ± 1.9			
1.0	31 ± 3.5	18 ± 1.5			
3.3	17 ± 3.0 <sup>s</sup>	21 ± 0.6 <sup>s</sup>	47 ± 0.6	36 ± 1.7	39 ± 5.5
6.7	19 ± 6.4 <sup>s</sup>				
10.0			39 ± 1.3	33 ± 3.4	42 ± 3.7
33.0			39 ± 3.6	34 ± 0.9	46 ± 1.9
100.0			25 ± 1.5 <sup>s</sup>	27 ± 2.5	31 ± 3.5 <sup>s</sup>
200.0			13 ± 1.2 <sup>s</sup>	22 ± 1.5	17 ± 3.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					718 ± 9.1
Positive Control <sup>3</sup>			1068 ± 70.6		
Positive Control <sup>4</sup>				252 ± 5.2	
Positive Control <sup>7</sup>	1839 ± 54.3	1574 ± 28.0			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	31 ± 0.3
0.03	
0.1	
0.3	
1.0	
3.3	30 ± 1.0
6.7	
10.0	27 ± 2.3
33.0	37 ± 4.1
100.0	34 ± 4.0
200.0	32 ± 1.9 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	682 ± 5.2
Positive Control <sup>7</sup>	

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#### **LEGEND**

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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: 0.75 ug/Plate 2-Aminoanthracene
- 3: 1.5 ug/Plate 2-Aminoanthracene
- 4: 2.0 ug/Plate 2-Aminoanthracene
- 5: 2.5 ug/Plate Sodium Azide
- 6: 4.0 ug/Plate 9-Aminoacridine
- 7: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

**\*\* END OF REPORT \*\***