

Experiment Number: 406795

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Benzoic acid

CAS Number: 65-85-0

Date Report Requested: 09/14/2018

Time Report Requested: 17:24:16

**NTP Study Number:**

406795

**Study Result:**

Negative

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## G06: Ames Summary Data

Test Compound: Benzoic acid

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Date Report Requested: 09/14/2018

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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 <sup>1</sup>	98 ± 6.2	144 ± 6.4	123 ± 5.8	122 ± 7.6	149 ± 0.3
100.0	92 ± 3.5	145 ± 13.0	128 ± 3.2	118 ± 9.0	145 ± 9.0
333.0	99 ± 6.9	144 ± 1.5	128 ± 3.5	114 ± 4.6	155 ± 7.8
1000.0	98 ± 5.0	135 ± 4.4	117 ± 7.1	102 ± 11.3	127 ± 3.1
3333.0	81 ± 3.8	130 ± 11.0	94 ± 7.5	98 ± 7.1	126 ± 4.4
6666.0	61 ± 6.0 <sup>s</sup>			82 ± 1.9 <sup>s</sup>	
10000.0		45 ± 8.5 <sup>s</sup>	64 ± 0.0 <sup>s</sup>		26 ± 1.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					735 ± 24.3
Positive Control <sup>3</sup>	239 ± 8.7	417 ± 44.5			
Positive Control <sup>4</sup>			342 ± 15.1		
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>				319 ± 9.9	

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	116 ± 8.4
100.0	111 ± 4.2
333.0	116 ± 4.8
1000.0	113 ± 2.5
3333.0	108 ± 9.5
6666.0	76 ± 14.7 <sup>s</sup>
10000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	465 ± 17.2
Positive Control <sup>6</sup>	

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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>	12 ± 0.3	16 ± 1.5	9 ± 1.2	12 ± 0.3	30 ± 1.2
100.0	15 ± 0.9	15 ± 1.2	7 ± 1.8	8 ± 1.3	21 ± 2.3
333.0	16 ± 2.1	11 ± 2.1	8 ± 1.2	12 ± 2.0	30 ± 3.3
1000.0	13 ± 1.0	9 ± 2.4	8 ± 0.9	8 ± 1.3	28 ± 1.8
3333.0	8 ± 1.2	11 ± 1.5	6 ± 1.7	10 ± 2.0	18 ± 4.3
6666.0	3 ± 0.3 <sup>s</sup>			2 ± 2.0 <sup>s</sup>	3 ± 1.8 <sup>s</sup>
10000.0		3 ± 2.0 <sup>s</sup>	1 ± 1.0 <sup>s</sup>		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					65 ± 4.7
Positive Control <sup>3</sup>	248 ± 9.8	291 ± 7.0			
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>			149 ± 21.5	57 ± 6.3	

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G06: Ames Summary Data  
Test Compound: Benzoic acid  
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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	8 ± 1.5
100.0	11 ± 2.3
333.0	9 ± 0.7
1000.0	6 ± 3.2
3333.0	7 ± 1.2
6666.0	6 ± 1.2 <sup>s</sup>
10000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	255 ± 37.3
Positive Control <sup>6</sup>	

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## Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	5 ± 0.6	5 ± 0.3	10 ± 2.2	7 ± 2.1	9 ± 3.1
100.0	5 ± 1.3	5 ± 1.8	6 ± 0.3	9 ± 0.7	6 ± 0.9
333.0	9 ± 2.8	6 ± 1.5	2 ± 0.6	10 ± 1.5	9 ± 3.3
1000.0	6 ± 1.2	3 ± 0.9	7 ± 1.5	9 ± 0.6	11 ± 1.5
3333.0	6 ± 0.3	4 ± 1.5	4 ± 1.2	8 ± 1.3 <sup>s</sup>	7 ± 0.7
6666.0	4 ± 0.9 <sup>s</sup>	2 ± 0.9 <sup>s</sup>		0 ± 0.0 <sup>s</sup>	5 ± 1.8
10000.0			1 ± 0.7 <sup>s</sup>		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>					160 ± 9.7
Positive Control <sup>6</sup>			108 ± 1.8		
Positive Control <sup>7</sup>				26 ± 5.4	
Positive Control <sup>8</sup>	921 ± 61.3	32 ± 1.8			

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Strain: TA1537

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	6 ± 0.6
100.0	7 ± 0.9
333.0	6 ± 1.0
1000.0	8 ± 1.5
3333.0	6 ± 2.0
6666.0	5 ± 0.9 <sup>s</sup>
10000.0	
Trial Summary	Negative
Positive Control <sup>4</sup>	
Positive Control <sup>6</sup>	
Positive Control <sup>7</sup>	78 ± 0.3
Positive Control <sup>8</sup>	

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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 <sup>1</sup>	88 ± 13.9	78 ± 5.5	127 ± 7.1	150 ± 5.0	124 ± 6.2
100.0	84 ± 5.5	95 ± 2.3	139 ± 4.4	159 ± 17.2	116 ± 6.4
333.0	82 ± 1.2	83 ± 8.2	135 ± 3.2	160 ± 8.3	118 ± 4.5
1000.0	80 ± 1.9	85 ± 9.1	118 ± 1.5	170 ± 6.9	116 ± 1.9
3333.0	60 ± 7.5 <sup>s</sup>	72 ± 3.9	106 ± 3.2	144 ± 8.0 <sup>s</sup>	106 ± 5.1
6666.0	1 ± 1.3 <sup>s</sup>	3 ± 1.8 <sup>s</sup>	15 ± 14.7 <sup>s</sup>	36 ± 3.8 <sup>s</sup>	23 ± 19.4 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>					755 ± 5.8
Positive Control <sup>6</sup>			558 ± 34.9		
Positive Control <sup>7</sup>				338 ± 5.0	
Positive Control <sup>9</sup>	2179 ± 69.7	457 ± 28.2			



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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	123 ± 6.6
100.0	110 ± 3.1
333.0	125 ± 6.6
1000.0	140 ± 9.2
3333.0	128 ± 1.5
6666.0	75 ± 2.7 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>4</sup>	
Positive Control <sup>6</sup>	
Positive Control <sup>7</sup>	839 ± 27.8
Positive Control <sup>9</sup>	

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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>	13 ± 1.2	20 ± 1.2	23 ± 1.0	24 ± 2.4	28 ± 4.9
100.0	13 ± 2.0	15 ± 2.0	24 ± 1.5	21 ± 2.2	23 ± 1.7
333.0	12 ± 1.0	15 ± 1.7	21 ± 3.8	21 ± 1.2	20 ± 1.5
1000.0	10 ± 2.0	12 ± 2.3	21 ± 2.7	22 ± 0.9	24 ± 0.9
3333.0	11 ± 3.1 <sup>s</sup>	12 ± 0.6	22 ± 3.0	18 ± 0.3 <sup>s</sup>	18 ± 5.3
6666.0	4 ± 0.0 <sup>s</sup>			10 ± 3.2 <sup>s</sup>	
10000.0		1 ± 1.3 <sup>s</sup>	3 ± 1.8 <sup>s</sup>		3 ± 0.9 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>10</sup>					253 ± 22.2
Positive Control <sup>2</sup>			143 ± 5.6		
Positive Control <sup>11</sup>	142 ± 6.1	171 ± 7.0			
Positive Control <sup>5</sup>				99 ± 2.9	

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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	21 ± 5.6
100.0	23 ± 2.7
333.0	23 ± 0.9
1000.0	26 ± 3.2
3333.0	23 ± 3.8 <sup>s</sup>
6666.0	14 ± 1.2 <sup>s</sup>
10000.0	
Trial Summary	Negative
Positive Control <sup>10</sup>	
Positive Control <sup>2</sup>	101 ± 15.3
Positive Control <sup>11</sup>	
Positive Control <sup>5</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: Dimethyl Sulfoxide

2: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 2.5 ug/Plate 2-Aminoanthracene

8: 4.0 ug/Plate 9-Aminoacridine

9: 8.0 ug/Plate 9-Aminoacridine

10: 0.2 ug/Plate 2-Aminoanthracene

11: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

\*\* END OF REPORT \*\*