

Experiment Number: 858945

Test Type: **Genetic Toxicology - Bacterial Mutagenicity**

**G06: Ames Summary Data**

Test Compound: **Butylated hydroxyanisole (BHA)**

CAS Number: 25013-16-5

Date Report Requested: 09/16/2018

Time Report Requested: 13:17:16

**NTP Study Number:**

858945

**Study Result:**

Negative

Experiment Number: 858945

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Butylated hydroxyanisole (BHA)

CAS Number: 25013-16-5

Date Report Requested: 09/16/2018

Time Report Requested: 13:17:16

## 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>	101 ± 8.5	132 ± 9.0	110 ± 0.9	124 ± 2.3	105 ± 6.2
1.0	103 ± 9.6	126 ± 6.4	98 ± 6.5		106 ± 7.5
3.3	94 ± 3.3	128 ± 7.6	109 ± 2.4	114 ± 5.7	102 ± 5.0
10.0	97 ± 7.9	129 ± 2.2	109 ± 3.8	114 ± 5.2	102 ± 2.3
33.0	97 ± 3.8	127 ± 13.1	117 ± 2.1	129 ± 3.3	102 ± 5.7
67.0		112 ± 2.7 <sup>s</sup>			
100.0	79 ± 8.1 <sup>s</sup>		108 ± 3.0	100 ± 3.2	100 ± 3.1
200.0				66 ± 6.9 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1022 ± 87.5
Positive Control <sup>3</sup>	348 ± 11.8	1198 ± 29.8			
Positive Control <sup>4</sup>			1436 ± 65.2		
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>				1094 ± 51.1	

Experiment Number: 858945

Test Type: Genetic Toxicology - Bacterial  
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**G06: Ames Summary Data**

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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>	128 ± 13.6
1.0	
3.3	123 ± 7.2
10.0	120 ± 8.0
33.0	116 ± 9.0
67.0	
100.0	116 ± 9.2
200.0	89 ± 4.8 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	502 ± 18.0
Positive Control <sup>6</sup>	

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Test Type: Genetic Toxicology - Bacterial  
Mutagenicity**G06: Ames Summary Data**

Test Compound: Butylated hydroxyanisole (BHA)

CAS Number: 25013-16-5

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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>	27 ± 1.2	37 ± 4.7	9 ± 1.2	13 ± 1.5	12 ± 2.3
0.3	28 ± 1.8				
1.0	24 ± 3.2	38 ± 4.7	12 ± 2.1	18 ± 2.1	10 ± 2.3
3.3	29 ± 2.0	42 ± 5.6	8 ± 0.9	16 ± 2.4	9 ± 0.0
10.0	27 ± 1.9	35 ± 2.6	9 ± 1.3	10 ± 1.2	12 ± 1.0
33.0	37 ± 3.3	35 ± 0.7	8 ± 2.0	13 ± 1.7	14 ± 1.8
67.0		35 ± 1.5			
100.0			8 ± 1.5	17 ± 2.9	10 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					96 ± 3.2
Positive Control <sup>3</sup>	319 ± 20.4	911 ± 26.8			
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>			340 ± 11.7	156 ± 4.8	

Experiment Number: 858945

Test Type: **Genetic Toxicology - Bacterial Mutagenicity**

**G06: Ames Summary Data**

Test Compound: **Butylated hydroxyanisole (BHA)**

CAS Number: 25013-16-5

Date Report Requested: 09/16/2018

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	12 ± 0.9
0.3	
1.0	15 ± 1.3
3.3	14 ± 1.5
10.0	15 ± 2.1
33.0	16 ± 3.2
67.0	
100.0	13 ± 0.7
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	156 ± 4.3
Positive Control <sup>6</sup>	

Experiment Number: 858945

Test Type: Genetic Toxicology - Bacterial  
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## G06: Ames Summary Data

Test Compound: Butylated hydroxyanisole (BHA)

CAS Number: 25013-16-5

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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>	87 ± 4.7	121 ± 3.2	136 ± 10.2	167 ± 9.5	112 ± 3.8
0.3	111 ± 7.8				
1.0	109 ± 2.0	121 ± 7.0	135 ± 6.3	152 ± 4.9	127 ± 2.3
3.3	109 ± 8.5	117 ± 8.5	131 ± 4.6	142 ± 8.4	121 ± 2.8
10.0	109 ± 7.0	109 ± 15.3	131 ± 0.9	141 ± 15.9	128 ± 6.0
33.0	115 ± 5.5	114 ± 8.4	124 ± 6.4	133 ± 9.0	109 ± 6.9
67.0		101 ± 5.5 <sup>s</sup>			
100.0			114 ± 2.2 <sup>s</sup>	147 ± 3.9	107 ± 1.8 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>7</sup>	470 ± 22.3	263 ± 7.6			
Positive Control <sup>4</sup>					1225 ± 55.7
Positive Control <sup>6</sup>			3178 ± 72.0	1341 ± 40.1	

Experiment Number: 858945

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Butylated hydroxyanisole (BHA)

CAS Number: 25013-16-5

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	129 ± 7.5
0.3	
1.0	130 ± 2.3
3.3	147 ± 8.0
10.0	131 ± 6.6
33.0	147 ± 0.9
67.0	
100.0	131 ± 5.5
Trial Summary	Negative
Positive Control <sup>7</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>6</sup>	1308 ± 3.5

Experiment Number: 858945

Test Type: Genetic Toxicology - Bacterial  
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## G06: Ames Summary Data

Test Compound: Butylated hydroxyanisole (BHA)

CAS Number: 25013-16-5

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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>	23 ± 3.3	21 ± 3.8	32 ± 1.5	40 ± 1.5	29 ± 4.4
1.0	18 ± 1.8	18 ± 3.2	29 ± 1.7		27 ± 2.6
3.3	21 ± 3.4	17 ± 0.6	30 ± 0.9	36 ± 7.2	28 ± 1.5
10.0	20 ± 1.2	20 ± 4.3	30 ± 5.9	36 ± 5.8	28 ± 3.9
33.0	22 ± 1.7	16 ± 4.9	27 ± 3.0	32 ± 1.3	24 ± 1.5
67.0		21 ± 4.7			
100.0	7 ± 3.0 <sup>s</sup>		25 ± 1.7	36 ± 2.2	31 ± 1.3
200.0				25 ± 2.1 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			450 ± 7.5		999 ± 42.3
Positive Control <sup>5</sup>				279 ± 10.4	
Positive Control <sup>8</sup>	302 ± 11.9	361 ± 17.0			



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**G06: Ames Summary Data**

Test Compound: **Butylated hydroxyanisole (BHA)**

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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>	34 ± 4.6
1.0	
3.3	36 ± 4.2
10.0	28 ± 2.8
33.0	40 ± 1.5
67.0	
100.0	41 ± 2.0
200.0	31 ± 2.2 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>5</sup>	332 ± 48.8
Positive Control <sup>8</sup>	

Experiment Number: 858945

Test Type: Genetic Toxicology - Bacterial  
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## G06: Ames Summary Data

Test Compound: Butylated hydroxyanisole (BHA)

CAS Number: 25013-16-5

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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 <sup>1</sup>	251 ± 29.0	270 ± 2.3	400 ± 24.4	274 ± 9.6	417 ± 7.9
1.0	292 ± 11.3	253 ± 17.9	380 ± 14.7	237 ± 9.4	398 ± 8.4
3.3	281 ± 6.1	201 ± 7.9	391 ± 7.9	280 ± 4.0	400 ± 6.4
10.0	270 ± 16.0	223 ± 12.7	405 ± 11.8	272 ± 11.2	391 ± 15.0
33.0	293 ± 2.0	233 ± 34.4	378 ± 4.4	180 ± 37.6	367 ± 4.4
67.0	292 ± 2.3	144 ± 30.9			
100.0			322 ± 7.5	149 ± 13.1	289 ± 11.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>9</sup>			2559 ± 127.2	2103 ± 30.3	2234 ± 20.5
Positive Control <sup>10</sup>	922 ± 9.2	1184 ± 35.8			

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Test Type: **Genetic Toxicology - Bacterial Mutagenicity**

**G06: Ames Summary Data**

Test Compound: **Butylated hydroxyanisole (BHA)**

CAS Number: 25013-16-5

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**Strain: TA104**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	340 ± 15.1
1.0	298 ± 14.6
3.3	313 ± 7.1
10.0	264 ± 26.1
33.0	287 ± 32.9
67.0	
100.0	295 ± 10.0
Trial Summary	Negative
Positive Control <sup>9</sup>	2687 ± 61.6
Positive Control <sup>10</sup>	

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**G06: Ames Summary Data**

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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: 0.05 ug/Plate Icr-191

8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

9: 4.0 ug/Plate 2-Aminoanthracene

10: 75.0 ug/Plate Methyl Methane Sulfonate

s: Slight Toxicity

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