

Experiment Number: 256166

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

**G06: Ames Summary Data**

Test Compound: **1,3-Butadiene**

CAS Number: **106-99-0**

Date Report Requested: **09/11/2018**

Time Report Requested: **02:33:29**

**NTP Study Number:**

256166

**Study Result:**

Positive

Experiment Number: 256166

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 1,3-Butadiene

CAS Number: 106-99-0

Date Report Requested: 09/11/2018

Time Report Requested: 02:33:29

**Strain: TA100**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 30% Rat S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	82 ± 2.4	101 ± 11.9	109 ± 12.2
0.014	85 ± 8.5	120 ± 12.6	109 ± 5.0
0.02	79 ± 5.0	72 ± 3.8	115 ± 6.2
0.026	79 ± 4.3	82 ± 3.1	78 ± 4.7
0.03	71 ± 6.9	107 ± 9.0	84 ± 14.2
0.033	66 ± 10.8	106 ± 5.2	114 ± 9.5
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>	391 ± 13.5		
Positive Control <sup>3</sup>			477 ± 1.5
Positive Control <sup>4</sup>		844 ± 25.7	

Experiment Number: 256166

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

Test Compound: 1,3-Butadiene

CAS Number: 106-99-0

Date Report Requested: 09/11/2018

Time Report Requested: 02:33:29

**Strain: TA1535**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 30% Rat S9</b>	<b>With 30% Rat S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	11 ± 2.1	11 ± 2.0	12 ± 1.8	26 ± 3.2	15 ± 3.7
0.002	49 ± 3.1	95 ± 4.3	70 ± 9.3	94 ± 3.3	82 ± 8.1
0.007	84 ± 8.7	125 ± 8.1	122 ± 8.8	149 ± 15.9	116 ± 4.0
0.014	108 ± 1.2	171 ± 13.2	134 ± 6.0	189 ± 13.9	165 ± 5.6
0.02	113 ± 2.6	148 ± 9.9	144 ± 2.7	171 ± 8.7	180 ± 4.7
0.03	117 ± 6.4	115 ± 1.5	158 ± 4.3	152 ± 1.5	176 ± 5.2
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>	189 ± 11.0	358 ± 14.5			
Positive Control <sup>3</sup>					95 ± 6.9
Positive Control <sup>4</sup>			130 ± 6.1	123 ± 25.5	

Experiment Number: 256166

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

**G06: Ames Summary Data**

Test Compound: 1,3-Butadiene

CAS Number: 106-99-0

Date Report Requested: 09/11/2018

Time Report Requested: 02:33:29

---

**Strain: TA1535**

---

<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	22 ± 0.7
0.002	142 ± 10.5
0.007	152 ± 13.4
0.014	224 ± 4.4
0.02	221 ± 9.7
0.03	226 ± 11.0
Trial Summary	Positive
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	161 ± 8.4
Positive Control <sup>4</sup>	

Experiment Number: 256166

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 1,3-Butadiene

CAS Number: 106-99-0

Date Report Requested: 09/11/2018

Time Report Requested: 02:33:29

---

**Strain: TA97**

---

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 30% Rat S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	163 ± 15.8	163 ± 6.2	188 ± 4.8
0.002	115 ± 4.7	216 ± 7.8	175 ± 5.4
0.007	152 ± 5.2	208 ± 2.6	194 ± 4.8
0.014	172 ± 3.4	216 ± 9.9	162 ± 4.1
0.02	128 ± 5.8	188 ± 12.3	154 ± 3.7
0.03	99 ± 5.7	197 ± 9.5	165 ± 4.9
Trial Summary	Negative	Equivocal	Negative
Positive Control <sup>4</sup>		489 ± 12.2	875 ± 19.2
Positive Control <sup>5</sup>	460 ± 19.2		

Experiment Number: 256166

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

Test Compound: 1,3-Butadiene

CAS Number: 106-99-0

Date Report Requested: 09/11/2018

Time Report Requested: 02:33:29

**Strain: TA98**

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	12 ± 2.0	11 ± 1.5	22 ± 2.3	23 ± 3.9	11 ± 1.5
0.004		15 ± 3.7		23 ± 2.0	
0.007		13 ± 3.7		14 ± 2.7	
0.009		9 ± 1.5		17 ± 2.0	
0.014	6 ± 1.5	11 ± 1.0	15 ± 0.9	19 ± 2.0	10 ± 1.2
0.02	7 ± 1.0	9 ± 0.9	13 ± 1.0	13 ± 2.4	12 ± 0.3
0.026	6 ± 1.5		9 ± 1.8		9 ± 1.7
0.03	3 ± 1.5		8 ± 1.8		10 ± 1.5
0.033	4 ± 0.3		13 ± 1.0		8 ± 1.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>			240 ± 9.9	183 ± 15.1	419 ± 8.4
Positive Control <sup>6</sup>	207 ± 26.7	170 ± 9.9			

Experiment Number: 256166

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

**G06: Ames Summary Data**

Test Compound: **1,3-Butadiene**

CAS Number: **106-99-0**

Date Report Requested: **09/11/2018**

Time Report Requested: **02:33:29**

### **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: Air

2: 0.5 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 24.0 ug/Plate 9-Aminoacridine

6: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

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