

Experiment Number: A97584

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Cumene hydroperoxide

CAS Number: 80-15-9

Date Report Requested: 09/15/2018

Time Report Requested: 17:14:34

**NTP Study Number:**

A97584

**Study Result:**

Positive

Experiment Number: A97584

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Cumene hydroperoxide

CAS Number: 80-15-9

Date Report Requested: 09/15/2018

Time Report Requested: 17:14:34

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	49 ± 4.8	0 ± 0.0	50 ± 2.7	54 ± 0.7	74 ± 3.5
5.0	53 ± 7.9	48 ± 7.2	47 ± 5.5	52 ± 0.7	76 ± 3.3
10.0	42 ± 4.5	24 ± 7.7	52 ± 3.5	65 ± 2.3	70 ± 6.9
50.0	65 ± 4.6	52 ± 4.7	44 ± 2.9	62 ± 0.9	69 ± 5.5
100.0	66 ± 2.6	42 ± 5.0	30 ± 2.9	76 ± 1.8	58 ± 14.0
150.0		7 ± 1.2	2 ± 0.3		
200.0	Toxic	2 ± 0.6		82 ± 6.5	78 ± 4.6
Trial Summary	Negative	No Call	Negative	Negative	Negative
Positive Control <sup>2</sup>	553 ± 13.8	741 ± 100.7	609 ± 28.8		
Positive Control <sup>3</sup>				644 ± 58.6	768 ± 36.1

Experiment Number: A97584  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: Cumene hydroperoxide  
CAS Number: 80-15-9

Date Report Requested: 09/15/2018  
Time Report Requested: 17:14:34

---

Strain: TA100

---

Dose (ug/Plate)	With 10% Mouse S9
Vehicle Control <sup>1</sup>	0 ± 0.0
5.0	21 ± 3.0
10.0	20 ± 3.4
50.0	32 ± 3.6
100.0	41 ± 9.7
150.0	
200.0	69 ± 2.0
Trial Summary	No Call
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	738 ± 30.5

Experiment Number: A97584

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Cumene hydroperoxide

CAS Number: 80-15-9

Date Report Requested: 09/15/2018

Time Report Requested: 17:14:34

## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	23 ± 3.5	21 ± 2.9	19 ± 2.6	31 ± 3.2	36 ± 0.9
5.0	18 ± 2.3	26 ± 1.2		27 ± 4.1	23 ± 2.3
10.0	31 ± 2.3	21 ± 3.3	22 ± 1.2	26 ± 1.2	29 ± 1.0
25.0			21 ± 2.7		
50.0	34 ± 4.8	20 ± 1.8	9 ± 3.1	25 ± 1.3	24 ± 4.7
75.0			9 ± 1.5		
100.0	17 ± 4.4	10 ± 1.2	10 ± 0.6	34 ± 2.1	33 ± 2.6
150.0		2 ± 1.0			
200.0	Toxic	1 ± 0.6		45 ± 4.3	53 ± 5.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>				752 ± 58.3	372 ± 38.1
Positive Control <sup>4</sup>	417 ± 14.8	417 ± 30.7	572 ± 8.4		

Experiment Number: A97584  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: Cumene hydroperoxide  
CAS Number: 80-15-9

Date Report Requested: 09/15/2018  
Time Report Requested: 17:14:34

---

Strain: TA98

---

Dose (ug/Plate)	With 10% Rat S9
Vehicle Control <sup>1</sup>	32 ± 1.9
5.0	27 ± 2.0
10.0	25 ± 2.0
25.0	
50.0	33 ± 3.5
75.0	
100.0	55 ± 4.5
150.0	
200.0	42 ± 17.7
Trial Summary	Negative
Positive Control <sup>3</sup>	1137 ± 18.8
Positive Control <sup>4</sup>	

Experiment Number: A97584

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Cumene hydroperoxide

CAS Number: 80-15-9

Date Report Requested: 09/15/2018

Time Report Requested: 17:14:34

## Strain: E. coli WP2 uvrA pKM101

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	111 ± 7.6	137 ± 12.5	115 ± 6.8	148 ± 4.5	
Vehicle Control <sup>5</sup>					205 ± 2.7
5.0	136 ± 10.0	159 ± 5.6	201 ± 4.4	172 ± 5.2	192 ± 17.0
10.0	174 ± 2.8	197 ± 5.0	201 ± 11.1	176 ± 7.4	167 ± 17.7
50.0	250 ± 10.7	290 ± 11.0	356 ± 21.4	174 ± 11.1	297 ± 7.9
100.0	371 ± 12.2	546 ± 21.7	459 ± 13.1	331 ± 17.6	436 ± 19.4
200.0	550 ± 11.2	209 ± 21.4	467 ± 20.4	495 ± 10.8	547 ± 102.2
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>6</sup>				711 ± 30.7	701 ± 40.4
Positive Control <sup>7</sup>	812 ± 14.4		1101 ± 54.8		
Positive Control <sup>8</sup>		1183 ± 140.0			

Experiment Number: **A97584**  
Test Type: **Genetic Toxicology - Bacterial Mutagenicity**

**G06: Ames Summary Data**  
Test Compound: **Cumene hydroperoxide**  
CAS Number: **80-15-9**

Date Report Requested: **09/15/2018**  
Time Report Requested: **17:14:34**

### **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: Dimethyl Sulfoxide
- 2: 1.0 ug/Plate Sodium Azide
- 3: 2.5 ug/Plate 2-Aminoanthracene
- 4: 5.0 ug/Plate 2-Nitrofluorene
- 5: Vehicle Control: Dimethyl Formamide
- 6: 20.0 ug/Plate 2-Aminoanthracene
- 7: 4000.0 ug/Plate Methyl Methane Sulfonate
- 8: 4000.0 ug/Plate 2-Aminoanthracene

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