

Experiment Number: 009474

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Cumene hydroperoxide

CAS Number: 80-15-9

Date Report Requested: 09/14/2018

Time Report Requested: 06:07:17

**NTP Study Number:**

009474

**Study Result:**

Positive

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CAS Number: 80-15-9

Date Report Requested: 09/14/2018

Time Report Requested: 06:07:17

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	76 ± 2.4	80 ± 4.4	106 ± 3.1	150 ± 12.2	117 ± 3.9
1.0	85 ± 5.2	69 ± 5.0	107 ± 10.5		
3.3	90 ± 11.2	75 ± 4.4	116 ± 5.9	123 ± 8.3	123 ± 6.2
10.0	81 ± 4.0	81 ± 4.2	120 ± 4.5	145 ± 3.0	131 ± 3.0
16.0					
33.0	93 ± 4.4	84 ± 4.4	135 ± 3.3	149 ± 14.1	162 ± 13.0
67.0					
100.0	Toxic	Toxic	123 ± 4.4	180 ± 13.3	295 ± 3.8
167.0					
333.0				Toxic	Toxic
Trial Summary	Negative	Negative	Weakly Positive	Negative	Positive
Positive Control <sup>2</sup>				2448 ± 33.3	2178 ± 14.3
Positive Control <sup>3</sup>	992 ± 3.3	799 ± 27.7	834 ± 27.2		

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## Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	202 ± 7.3	127 ± 5.8	117 ± 19.3	226 ± 29.5
1.0			116 ± 4.1	
3.3		138 ± 1.5	129 ± 12.9	
10.0		129 ± 9.0	131 ± 7.3	
16.0	214 ± 13.0			217 ± 7.9
33.0	297 ± 0.7	211 ± 35.4	141 ± 7.4	239 ± 20.5
67.0	344 ± 26.7			281 ± 12.2
100.0	122 ± 4.5	Toxic	237 ± 16.0	368 ± 16.2
167.0	Toxic			Toxic
333.0		Toxic		
Trial Summary	Weakly Positive	Equivocal	Positive	Weakly Positive
Positive Control <sup>2</sup>	1539 ± 143.6	1271 ± 29.5	2048 ± 71.3	2288 ± 2.7
Positive Control <sup>3</sup>				

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	6 ± 2.3	6 ± 0.6	9 ± 1.2	13 ± 2.6	11 ± 1.2
0.1		9 ± 2.3	12 ± 2.1		
0.3		6 ± 0.7	7 ± 0.3		
1.0	9 ± 1.8	9 ± 2.5	8 ± 1.8		9 ± 2.0
3.3	5 ± 1.7	8 ± 0.9	8 ± 1.7	12 ± 0.7	4 ± 0.3
10.0	3 ± 1.3	7 ± 1.2	8 ± 0.9	10 ± 2.3	7 ± 2.0
33.0	Toxic			9 ± 0.9	6 ± 1.5
100.0	Toxic			8 ± 0.9	8 ± 0.7
333.0				1 ± 1.0	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>				140 ± 12.3	140 ± 9.1
Positive Control <sup>3</sup>	393 ± 26.8	459 ± 14.0	771 ± 28.3		

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## Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	11 ± 0.9	7 ± 2.2	5 ± 1.5	10 ± 0.3
0.1				
0.3				
1.0	11 ± 1.5		2 ± 0.6	8 ± 1.5
3.3	10 ± 1.5	7 ± 1.9	3 ± 1.5	10 ± 2.0
10.0	7 ± 1.8	8 ± 3.1	2 ± 0.6	9 ± 0.9
33.0	12 ± 2.3	6 ± 1.2	4 ± 0.3	13 ± 0.3
100.0	8 ± 1.2	4 ± 1.5	8 ± 2.0	16 ± 0.0
333.0		0 ± 0.0		
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>	145 ± 21.3	40 ± 5.3	149 ± 6.8	339 ± 30.5
Positive Control <sup>3</sup>				

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## Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	5 ± 0.9	4 ± 0.3	5 ± 0.7	6 ± 2.2	7 ± 0.3
0.03		6 ± 0.3	6 ± 1.8		
0.1		5 ± 0.6	6 ± 0.3		
0.3		5 ± 2.0	2 ± 0.3		
1.0	4 ± 2.0	7 ± 0.9	4 ± 0.6		6 ± 1.8
3.3	4 ± 1.5	6 ± 1.7	5 ± 0.3	10 ± 0.3	9 ± 0.9
10.0	Toxic			10 ± 1.2	9 ± 0.9
33.0	Toxic			5 ± 1.3	10 ± 1.0
100.0	0 ± 0.0			10 ± 1.5	6 ± 0.7
333.0				0 ± 0.0	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>				57 ± 8.4	182 ± 9.3
Positive Control <sup>5</sup>	163 ± 24.6	195 ± 15.0	440 ± 42.9		

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## Strain: TA1537

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	9 ± 2.9	6 ± 0.3	6 ± 0.0	9 ± 0.9	11 ± 1.0
0.03					
0.1					
0.3			7 ± 1.5	12 ± 2.7	12 ± 1.7
1.0	9 ± 3.0		7 ± 3.3	15 ± 4.9	12 ± 0.6
3.3	7 ± 1.5	6 ± 1.2	8 ± 0.0	19 ± 0.6	12 ± 2.0
10.0	11 ± 1.2	8 ± 1.7	6 ± 0.3	20 ± 3.7	11 ± 1.2
33.0	3 ± 0.9	13 ± 3.0	8 ± 1.5	23 ± 1.2	11 ± 1.0
100.0	8 ± 0.3	Toxic			
333.0		0 ± 0.0			
Trial Summary	Negative	Equivocal	Negative	Positive	Negative
Positive Control <sup>4</sup>	261 ± 42.8	42 ± 3.5	190 ± 7.9	119 ± 9.7	308 ± 25.0
Positive Control <sup>5</sup>					

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	12 ± 2.1
0.03	
0.1	
0.3	7 ± 0.3
1.0	11 ± 0.6
3.3	13 ± 1.5
10.0	8 ± 0.3
33.0	11 ± 1.2
100.0	
333.0	
Trial Summary	Negative
Positive Control <sup>4</sup>	49 ± 7.7
Positive Control <sup>5</sup>	



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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	18 ± 2.7	15 ± 1.8	12 ± 0.6	25 ± 0.9	23 ± 4.0
1.0	20 ± 6.5	18 ± 0.9	6 ± 1.0		26 ± 2.5
3.3	28 ± 5.0	25 ± 5.7	8 ± 0.6	20 ± 3.1	24 ± 3.3
10.0	23 ± 6.1	15 ± 1.7	10 ± 1.8	26 ± 1.5	20 ± 2.1
16.0					
33.0	20 ± 5.3	19 ± 0.7	8 ± 0.3	20 ± 1.2	38 ± 4.8
67.0					
100.0	Toxic	Toxic	2 ± 0.7	36 ± 8.0	51 ± 7.6
167.0					
333.0				Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Positive
Positive Control <sup>2</sup>				1739 ± 107.9	1065 ± 120.8
Positive Control <sup>6</sup>	204 ± 13.6	226 ± 21.5	223 ± 15.3		

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## Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	17 ± 2.9	20 ± 2.5	26 ± 4.2	26 ± 0.3
1.0			19 ± 1.7	
3.3		26 ± 1.5	22 ± 1.3	
10.0		20 ± 0.0	26 ± 2.3	
16.0	29 ± 4.6			25 ± 2.1
33.0	52 ± 7.4	39 ± 3.9	20 ± 2.0	28 ± 2.5
67.0	50 ± 7.0			41 ± 5.9
100.0	34 ± 3.0	24 ± 1.2	42 ± 2.9	52 ± 3.2
167.0	Toxic			Toxic
333.0		0 ± 0.0		
Trial Summary	Positive	Equivocal	Equivocal	Positive
Positive Control <sup>2</sup>	737 ± 160.2	1367 ± 62.1	1911 ± 107.8	1632 ± 32.0
Positive Control <sup>6</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: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

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