

Experiment Number: A42965

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Cumene

CAS Number: 98-82-8

Date Report Requested: 09/17/2018

Time Report Requested: 00:28:31

NTP Study Number:

A42965

Study Result:

Negative

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G06: Ames Summary Data

Date Report Requested: 09/17/2018

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

Test Compound: Cumene

Time Report Requested: 00:28:31

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	99 ± 5.2	105 ± 0.9	125 ± 7.4	125 ± 10.9	121 ± 10.8
1.0		100 ± 7.5			
3.0	103 ± 2.9	104 ± 3.5	112 ± 7.6	137 ± 11.3	107 ± 4.4
10.0	93 ± 5.8	116 ± 7.1	116 ± 10.1	129 ± 2.9	112 ± 7.8
33.0	96 ± 4.9	93 ± 5.6	113 ± 4.5	122 ± 3.9	102 ± 7.2
100.0	100 ± 0.7	111 ± 7.8	105 ± 3.5	138 ± 5.2	102 ± 2.9
166.0	47 ± 13.6 ^s		95 ± 5.2		106 ± 6.3
333.0				91 ± 8.8	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1420 ± 121.3
Positive Control ³			1111 ± 30.3		
Positive Control ⁴	914 ± 8.0	875 ± 25.9			
Positive Control ⁵				792 ± 15.9	

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Date Report Requested: 09/17/2018

Time Report Requested: 00:28:31

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	126 ± 20.3
1.0	
3.0	119 ± 6.2
10.0	127 ± 8.4
33.0	105 ± 7.1
100.0	112 ± 6.7
166.0	
333.0	79 ± 4.1 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	603 ± 25.1
Positive Control ⁴	
Positive Control ⁵	

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

Time Report Requested: 00:28:31

CAS Number: 98-82-8

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	15 ± 0.7	14 ± 0.3	21 ± 2.1	13 ± 2.5	15 ± 2.2
1.0	10 ± 1.9	13 ± 2.3			
3.0	17 ± 0.3	13 ± 0.7	17 ± 1.9	14 ± 0.3	12 ± 1.9
10.0	14 ± 1.2	13 ± 2.8	17 ± 0.9	14 ± 1.7	17 ± 1.2
33.0	13 ± 0.7	12 ± 1.5	15 ± 1.7	12 ± 2.3	11 ± 0.7
100.0	11 ± 1.8	16 ± 5.0	12 ± 2.0	12 ± 2.0	10 ± 1.9
166.0			11 ± 1.3	11 ± 4.4	9 ± 1.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					198 ± 11.5
Positive Control ⁴	851 ± 7.9	399 ± 16.5			
Positive Control ⁵			140 ± 2.2		
Positive Control ⁶				222 ± 6.6	

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G06: Ames Summary Data
Test Compound: Cumene
CAS Number: 98-82-8

Date Report Requested: 09/17/2018
Time Report Requested: 00:28:31

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	14 ± 0.9
1.0	
3.0	12 ± 1.5
10.0	9 ± 2.0
33.0	14 ± 2.7
100.0	15 ± 1.2
166.0	10 ± 1.5
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	321 ± 15.1
Positive Control ⁶	

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G06: Ames Summary Data

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Test Type: Genetic Toxicology - Bacterial
Mutagenicity

Test Compound: Cumene

Time Report Requested: 00:28:31

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	133 ± 11.9	156 ± 7.4	192 ± 4.4	170 ± 10.8	188 ± 1.9
1.0	128 ± 1.3	177 ± 3.2			
3.0	144 ± 4.9	174 ± 1.8	172 ± 7.5	189 ± 4.7	181 ± 5.8
10.0	148 ± 11.5	172 ± 1.5	176 ± 6.5	191 ± 2.8	185 ± 3.4
33.0	136 ± 12.8	158 ± 3.8	190 ± 4.1	188 ± 1.9	195 ± 9.3
100.0	99 ± 7.9	53 ± 16.5 ^s	149 ± 14.5	168 ± 14.7	153 ± 1.5
166.0			115 ± 8.7 ^s	163 ± 2.1	125 ± 9.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			478 ± 12.3		545 ± 22.3
Positive Control ⁵				435 ± 23.4	
Positive Control ⁷	426 ± 13.0	515 ± 13.2			

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Date Report Requested: 09/17/2018

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	159 ± 1.0
1.0	
3.0	165 ± 5.9
10.0	171 ± 4.2
33.0	185 ± 4.0
100.0	186 ± 6.6
166.0	153 ± 3.5
Trial Summary	Negative
Positive Control ³	481 ± 18.2
Positive Control ⁵	
Positive Control ⁷	

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Test Compound: Cumene

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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 ¹	9 ± 1.2	20 ± 0.9	19 ± 0.9	19 ± 1.2	22 ± 3.3
0.0		0 ± 0.0			
1.0		22 ± 4.0			
3.0	9 ± 0.0	16 ± 3.0	25 ± 4.7	11 ± 1.7	22 ± 2.1
10.0	9 ± 0.7	20 ± 2.4	24 ± 2.6	14 ± 3.2	23 ± 1.2
33.0	14 ± 0.7	18 ± 4.8	16 ± 0.6	13 ± 0.7	22 ± 2.7
100.0	8 ± 0.3	16 ± 1.9	14 ± 1.5	11 ± 2.0	23 ± 1.5
166.0	4 ± 0.3 ^s		23 ± 1.0		21 ± 3.1
333.0				12 ± 2.9	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1227 ± 35.0
Positive Control ³			890 ± 63.5		
Positive Control ⁸	328 ± 28.1	414 ± 24.0			
Positive Control ⁵				669 ± 17.0	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	14 ± 3.2
0.0	0 ± 0.0
1.0	
3.0	14 ± 2.3
10.0	13 ± 3.2
33.0	13 ± 3.2
100.0	18 ± 1.5
166.0	
333.0	10 ± 1.2 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	291 ± 13.3
Positive Control ⁸	
Positive Control ⁵	

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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 2-Aminoanthracene

3: 2.0 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 5.0 ug/Plate 2-Aminoanthracene

6: 10.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

** END OF REPORT **