

Experiment Number: **G20043**

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

G06: Ames Summary Data

Test Compound: **alpha-Pinene oxide**

CAS Number: **1686-14-2**

Date Report Requested: **10/09/2020**

Time Report Requested: **10:11:04**

NTP Study Number:

G20043

Study Result:

Positive

Experiment Number: G20043

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: alpha-Pinene oxide

CAS Number: 1686-14-2

Date Report Requested: 10/09/2020

Time Report Requested: 10:11:04

Strain: TA100				
Dose (ug/plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	106.3 ± 9.4	129.7 ± 6.2	123 ± 7.9	103 ± 7.0
25	198 ± 4.7	192.3 ± 7.2		
50	259.3 ± 12.3	272.7 ± 4.7	131 ± 6.8	141.3 ± 5.2
100	344.3 ± 22.0	339.3 ± 5.8		
200	431 ± 16.5	372.3 ± 26.9	190 ± 9.5	243 ± 10.8
300	193.3 ± 15.6	95.7 ± 7.8	211.3 ± 3.7	201.7 ± 6.4
500	0 ± 0.0 ^s	0 ± 0.0 ^s	95.3 ± 2.7	69.7 ± 0.3
1000			0 ± 0.0 ^s	0 ± 0.0 ^s
1500			0 ± 0.0 ^s	0 ± 0.0 ^s
Trial Summary	Positive	Positive	Equivocal	Positive
Positive Control ²	437.3 ± 14.2	392.7 ± 13.9		
Positive Control ³			342 ± 15.6	406.7 ± 23.2

Experiment Number: G20043

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: alpha-Pinene oxide

CAS Number: 1686-14-2

Date Report Requested: 10/09/2020

Time Report Requested: 10:11:04

Strain: TA98				
Dose (ug/plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	16.3 ± 1.8	14.7 ± 2.3	21.7 ± 3.3	25.3 ± 0.7
25	14.3 ± 1.3	18.3 ± 2.6		
50	20.7 ± 2.9	20.3 ± 4.3	21.3 ± 5.4	24.3 ± 2.3
100	28.3 ± 4.7	21.3 ± 0.9		
200	33 ± 2.6	37 ± 1.7	25.7 ± 1.3	24.3 ± 2.7
300	23.3 ± 1.5	27 ± 4.0	23.3 ± 1.9	27.3 ± 3.5
500	0 ± 0.0 ^s	0 ± 0.0 ^s	24 ± 1.2	10.3 ± 3.0
1000			0 ± 0.0 ^s	0 ± 0.0 ^s
1500			0 ± 0.0 ^s	0 ± 0.0 ^s
Trial Summary	Weakly Positive	Weakly Positive	Negative	Negative
Positive Control ⁴			1680 ± 127.5	1140.3 ± 51.0
Positive Control ⁵	374 ± 28.5	462 ± 31.9		

Experiment Number: G20043
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: alpha-Pinene oxide
CAS Number: 1686-14-2

Date Report Requested: 10/09/2020
Time Report Requested: 10:11:04

Strain: E. coli WP2 uvrA pKM101

Dose (ug/plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	86 ± 2.9	158.3 ± 15.9	107.3 ± 3.5	126 ± 4.9
25	125 ± 3.0	116.3 ± 9.6		
50	139 ± 8.6	201 ± 20.0	148.3 ± 7.4	153.7 ± 2.4
100	230.3 ± 16.8	313.3 ± 18.9		
200	694 ± 29.1	749.7 ± 18.5	226.7 ± 12.4	236.7 ± 3.2
300	362.5 ± 30.5	449 ± 99.6	327.3 ± 22.4	334.3 ± 13.3
500	28 ± 28.0 ^s	0 ± 0.0 ^s	108 ± 5.0	108.3 ± 6.5
1000			0 ± 0.0 ^s	0 ± 0.0 ^s
1500			0 ± 0.0 ^s	0 ± 0.0 ^s
Trial Summary	Positive	Positive	Positive	Positive
Positive Control ⁶	1422 ± 30.9	1375 ± 35.9		
Positive Control ⁷			1050.3 ± 21.5	1231 ± 105.4

Experiment Number: **G20043**
Test Type: **Genetic Toxicology - Bacterial Mutagenicity**

G06: Ames Summary Data
Test Compound: **alpha-Pinene oxide**
CAS Number: **1686-14-2**

Date Report Requested: **10/09/2020**
Time Report Requested: **10:11:04**

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

The S9 fraction refers to the liver unless otherwise indicated

1: Vehicle Control: DMSO

2: 1 ug/plate Sodium Azide

3: 2 ug/plate Benzo[a]pyrene

4: 2 ug/plate 2-Aminoanthracene

5: 3 ug/plate 2-Nitrofluorene

6: 0.25 ug/plate 4-Nitroquinoline-N-oxide

7: 20 ug/plate 2-Aminoanthracene

s: Slight Toxicity

**** END OF REPORT ****