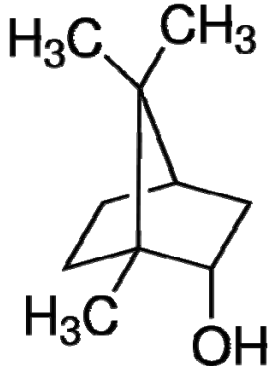


## Certificate of Analysis

Product Name	d-Borneol/ 右旋龍腦	
Catalog Number	11052	
Lot Number	110525	

Chemical Name	d-Borneol
Chemical Formula	C <sub>10</sub> H <sub>18</sub> O
Chemical Family	Terpenoid
Molecular Weight	154.25
CAS Number	464-43-7
Appearance (Color)	White
Appearance (Form)	Powder

### Analytical Test

Test	Result
Identity by GC/MS Analysis	Consistent with structure
Purity by GC/MS Analysis	≥ 98.0%

### Storage Conditions:

Storage:	Refer to label
Before use:	Keep container tightly closed

*TLCM certifies that this standard meets the specifications stated in this certificate and warrants this product to meet the stated criteria. Warranty does not apply after opening.*

Date of Certificate: 01/02/2013

## Product Analysis Report

### Analytical Test

Test	Results
Identity by GC/MS Analysis	Consistent with structure
Purity by GC/MS Analysis	≥ 98.0%

### Spectral and Physical Data

#### GC/MS

HPLC system : Agilent Technologies 7000 GC/MS Triple Quad

Injection volume : 1 µl

Detector : MS

Injection port temp. : 250°C

Detector temp. : 300°C

N<sub>2</sub> Flow rate : 1.0 mL/min

Oven Program :

Time (min)	Temp (°C)
0→1	60
1→9.33	60→160
9.33→14	160→300

Date File Name : GC D:\Data\roy tang\SH Borneol SIM.D

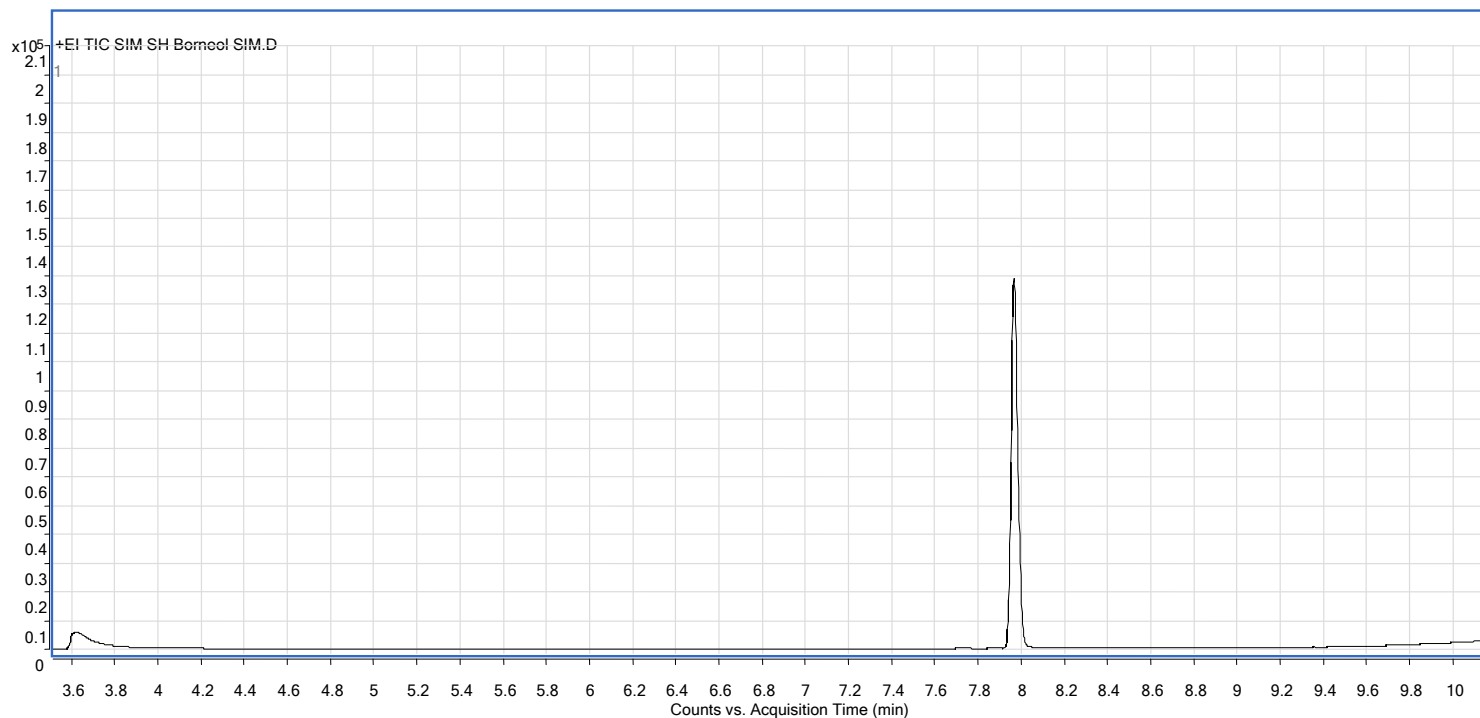
Operator : DUAN Ran

Sample Lot Number : 110525

Method File : ROY Tang\_Borneol2.M

Acquired : 2013-01-28

I. GC chromatogram



Product	RT (min)	Area (mAu*s)	Relative Area %
d-Borneol	7.970	256847	98.96