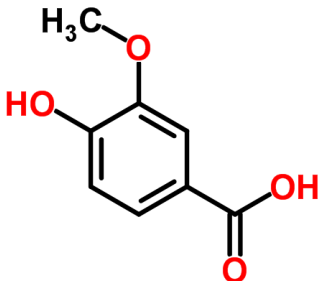


## Certificate of Analysis

Product Name	Vanillic acid/香草酸	
Catalog Number	9034	
Lot Number	90348	

Chemical Name	Vanillic acid
Chemical Formula	C <sub>8</sub> H <sub>8</sub> O <sub>4</sub>
Chemical Family	Phenol
Molecular Weight	168.2
CAS Number	121-34-6
Appearance (Color)	White
Appearance (Form)	Powder

### Analytical Test

Test	Result
Identity by LC/MS Analysis	Consistent with structure
Purity by HPLC/DAD 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: 31/10/2013

## Product Analysis Report

### Analytical Test

Test	Results
Identity by LC/MS Analysis	Consistent with structure
Purity by HPLC/DAD Analysis	≥ 98.0%

### Spectral and Physical Data

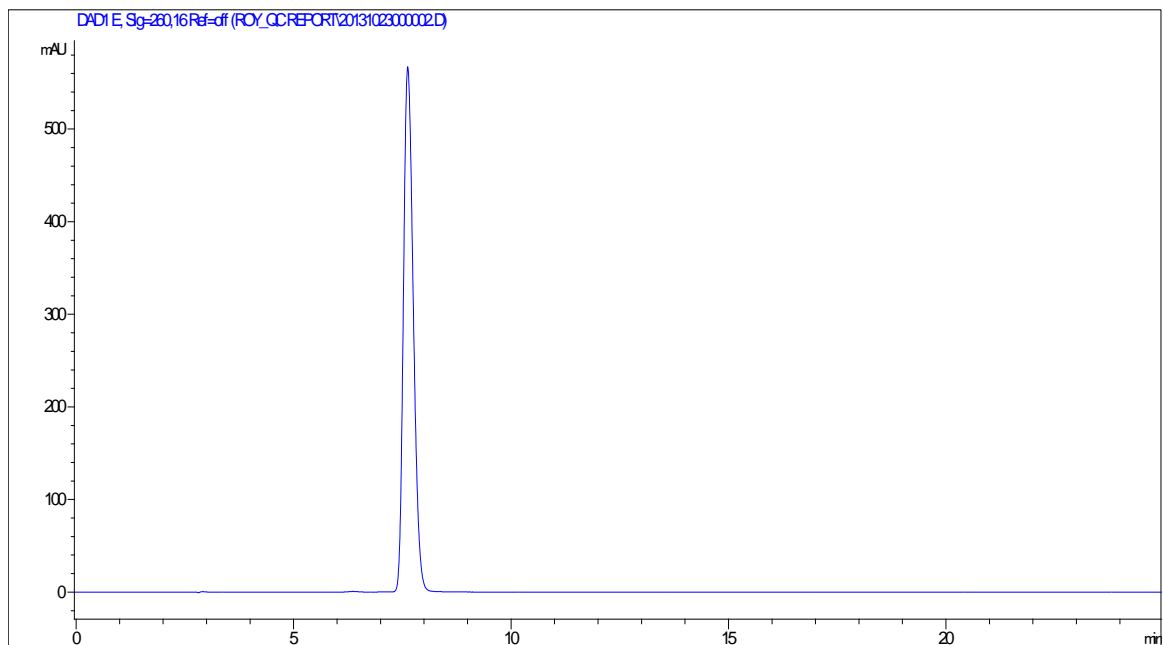
#### HPLC

HPLC system : Agilent Technologies 1200 Series  
Column : Inertsil ODS-4 column, 4.6 x 250 mm, 5 µm  
Injection volume : 10 µl  
Detector : DAD  
Detector wavelength : 260 nm  
Flow rate : 1.0 mL/min  
Mobile phase :

Time (min)	% 0.1% H <sub>3</sub> PO <sub>4</sub>	% MeOH	Flow rate (mL/min)
0 → 30	60	40	1.0

Date File Name : A4-C:\CHEM32\2\DATA\ROY\_QC  
REPORT\20131023000002.D  
Operator : DUAN Ran  
Sample Lot Number : 90348  
Method File : VA.M  
Acquired : 23/10/2013

## I. HPLC chromatogram



Product	RT (min)	Area (mAu*s)	Relative Area %
Vanillic acid	7.625	8930.3	100.000