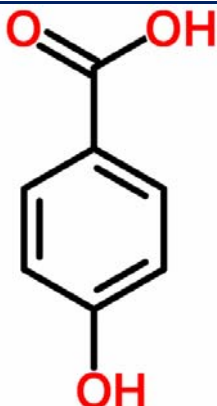


## Certificate of Analysis

Product Name	4-Hydroxybenzoic acid/ 4-羥基苯甲酸	
Catalog Number	9033	
Lot Number	90337	

Chemical Name	4-Hydroxybenzoic acid
Chemical Formula	C <sub>7</sub> H <sub>6</sub> O <sub>3</sub>
Chemical Family	Phenol
Molecular Weight	138.12
CAS Number	99-96-7
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: 11/06/2013

## 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

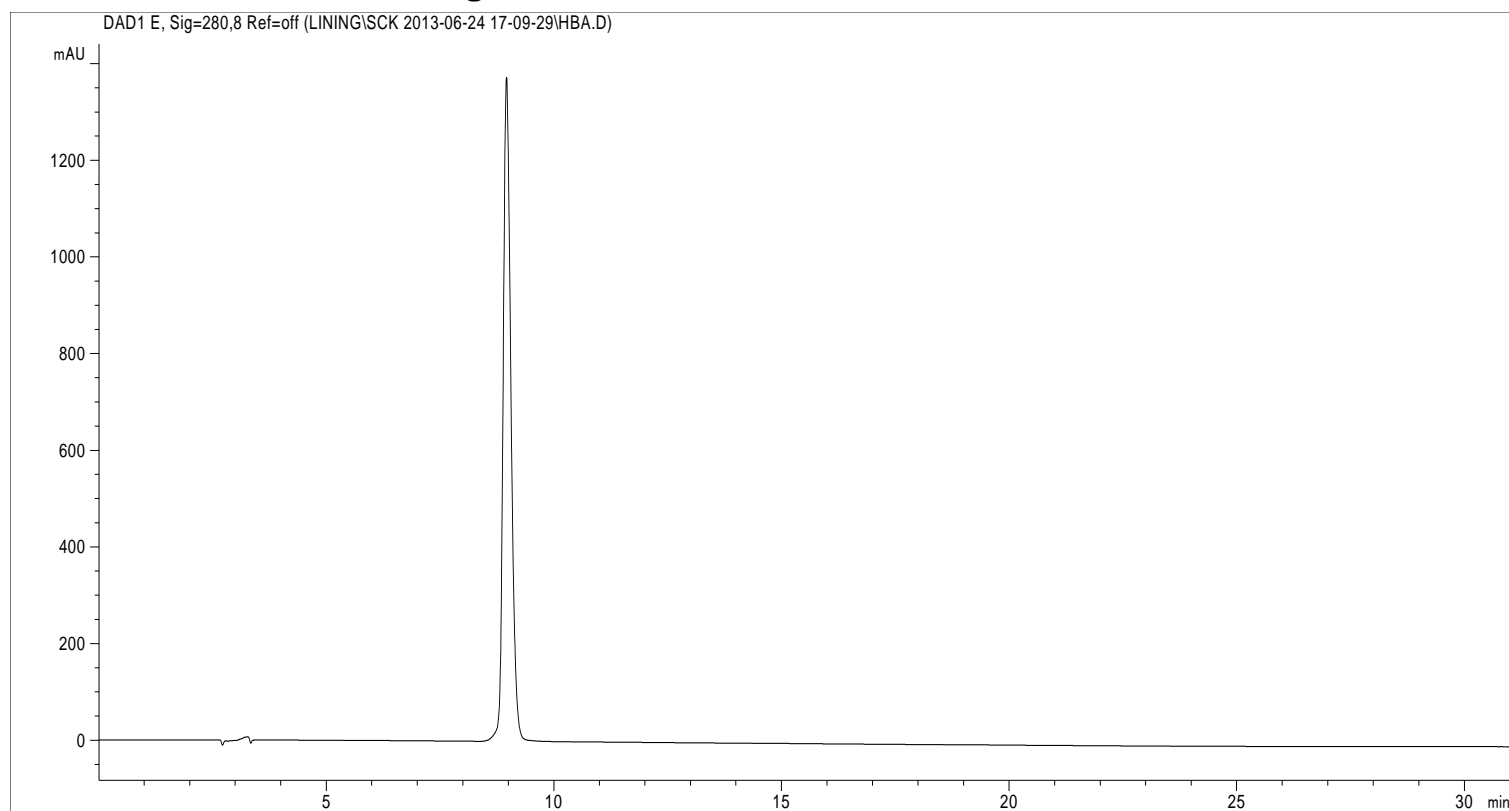
#### HPLC

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 : 280 nm  
Flow rate : 1.0 mL/min  
Mobile phase :

Time (min)	% 0.1% Formic Acid in H <sub>2</sub> O	% ACN	Flow rate (mL/min)
0 → 20	90 → 80	10 → 20	1.0
20 → 30	80	20	1.0

Date File Name : A1-D:\Chem32\2\purity test\data  
Operator : DUAN Ran  
Sample Lot Number : 90337  
Method File : D:\Chem32\2\method\4-HYDROXYBENZOIC ACID  
Acquired : 2013-06-11

### I. HPLC chromatogram



Product	RT (min)	Area (mAu*s)	Relative Area %
4-Hydroxybenzoic acid	8.96	16403.8	100