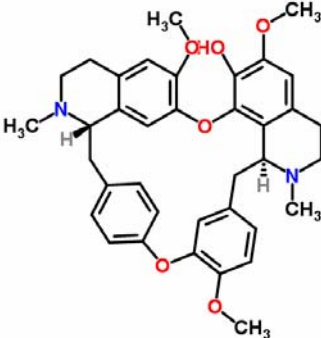


## Certificate of Analysis

Product Name	Fangchinoline 防己諾林鹼	
Catalog Number	1011	
Lot Number	10111	

Chemical Name	Fangchinoline
Chemical Formula	C <sub>37</sub> H <sub>40</sub> N <sub>2</sub> O <sub>6</sub>
Chemical Family	Alkaloid
Molecular Weight	608.72
CAS Number	436-77-1
Appearance (Color)	White
Appearance (Form)	Powder

### Analytical Test

Test	Result
Identity by LC/MS Analysis	Consistent with structure
Purity by HPLC/PDA 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: 23/01/2013

## Product Analysis Report

### Analytical Test

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

### Spectral and Physical Data

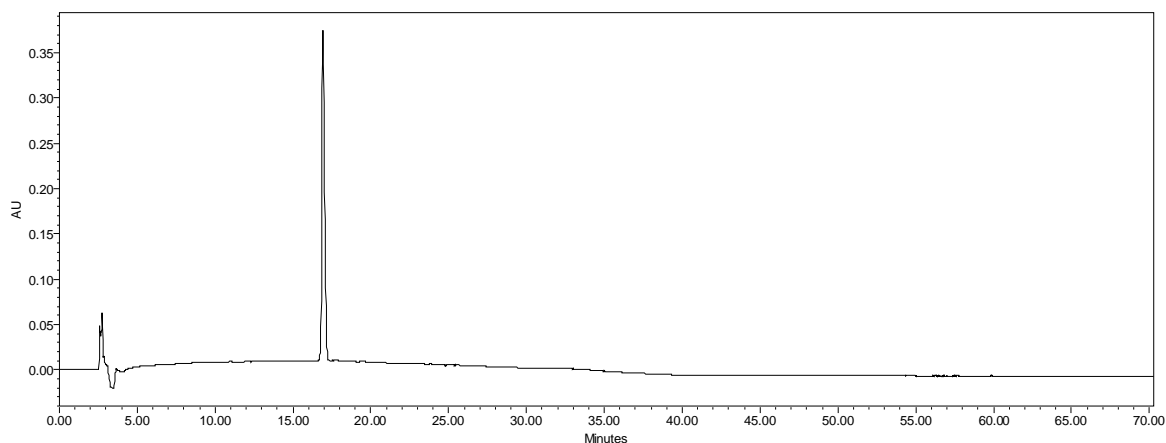
#### HPLC

HPLC system : Waters 2996  
Column : Alltima C<sub>18</sub>, 4.6 x 250 mm, 5 μm or equivalent  
Injection volume : 10 μl  
Detector : PDA  
Detector wavelength : 280 nm  
Flow rate : 1.0 mL/min  
Mobile phase :

Time (min)	% 0.3% Trifluoroacetic acid and 0.5% Triethylamine	% Acetonitrile	Flow rate (mL/min)
0→30	80→60	20→40	1.0
30→40	60→0	40→100	1.0
40→60	0	100	1.0

Date File Name : W1-BrowseProject-CHEMICALMARKERS-Injections-Fangchinoline  
Operator : Duan Ran  
Sample Lot Number : 10111  
Method File : W1-BrowseProject-CHEMICALMARKERS-Method-Fangchinoline  
Acquired : 08/11/2012

I. HPLC chromatogram



Product	RT (min)	Area (mAu*s)	Relative Area %
Fangchinoline	16.98	4206556	99.06