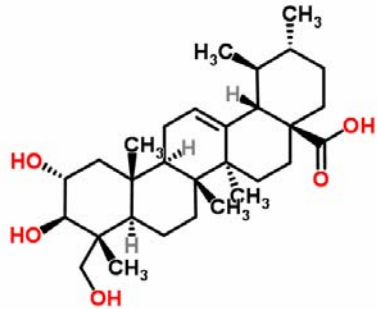


## Certificate of Analysis

Product Name	Asiatic acid/積雪草酸	
Catalog Number	11005	
Lot Number	110051	

Chemical Name	Asiatic acid
Chemical Formula	C <sub>30</sub> H <sub>48</sub> O <sub>5</sub>
Chemical Family	Terpenoids
Molecular Weight	488.7
CAS Number	464-92-6
Appearance (Color)	White
Appearance (Form)	Powder

### Analytical Test

Test	Result
Identity by LC/MS Analysis	Consistent with structure
Purity by HPLC/ELSD 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/ELSD Analysis	≥98.0%

### Spectral and Physical Data

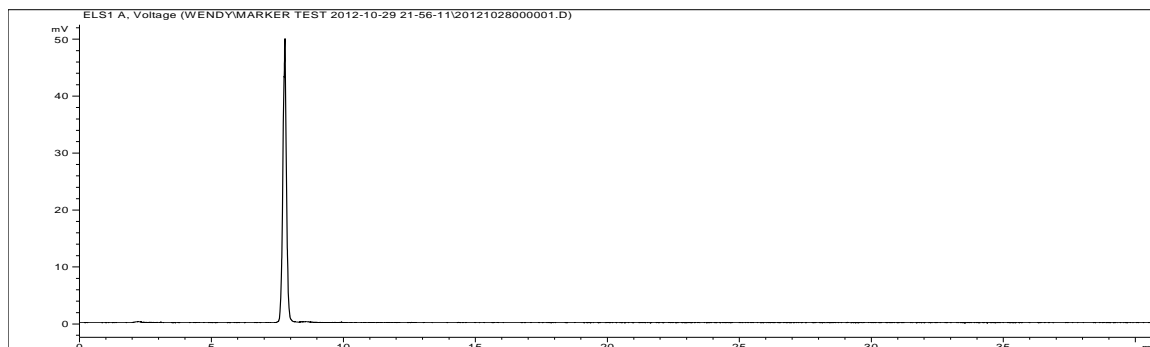
#### HPLC

**HPLC system** : Agilent Technologies 1200 Series  
**Column** : Inertsil, C18, 4.6 x 250 mm, 5 µm or equivalent  
**Injection volume** : 10 µl  
**Detector** : ELSD  
**tube temperature** : 60 °C  
**N2 Gas** : 3.5 bar  
**Mobile phase flow rate** : 1.0 mL/min  
**Mobile phase** :

Time (min)	% H <sub>2</sub> O	% ACN	Flow rate (mL/min)
0→40	40	60	1.0

**Date File Name** : A1-D:\CHEM32\1\DATA\WENDY\MarkerTest 2012-10-30  
**Operator** : DUAN Ran  
**Sample Lot Number** : 110051  
**Method File** : A1-D:\CHEM32\1\Methods\Wendy\ marker test 5  
**Acquired** : 29/10/2012

### I. HPLC chromatogram



<b>Product</b>	<b>RT (min)</b>	<b>Area (mAu*s)</b>	<b>Relative Area %</b>
<b>Asiatic acid</b>	<b>7.785</b>	<b>471.8</b>	<b>100.00</b>