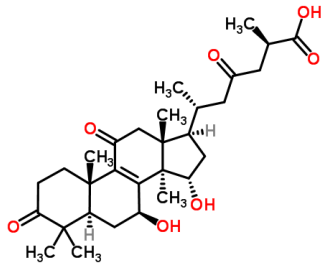


Certificate of Analysis

Product Name	Ganoderic acid A / 靈芝酸 A	
Catalog Number	11014	
Lot Number	110149	

Chemical Name	Ganoderic acid A
Chemical Formula	C ₃₀ H ₄₄ O ₇
Chemical Family	Triterpenoid
Molecular Weight	516.67
CAS Number	81907-62-2
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: 24/10/2014

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

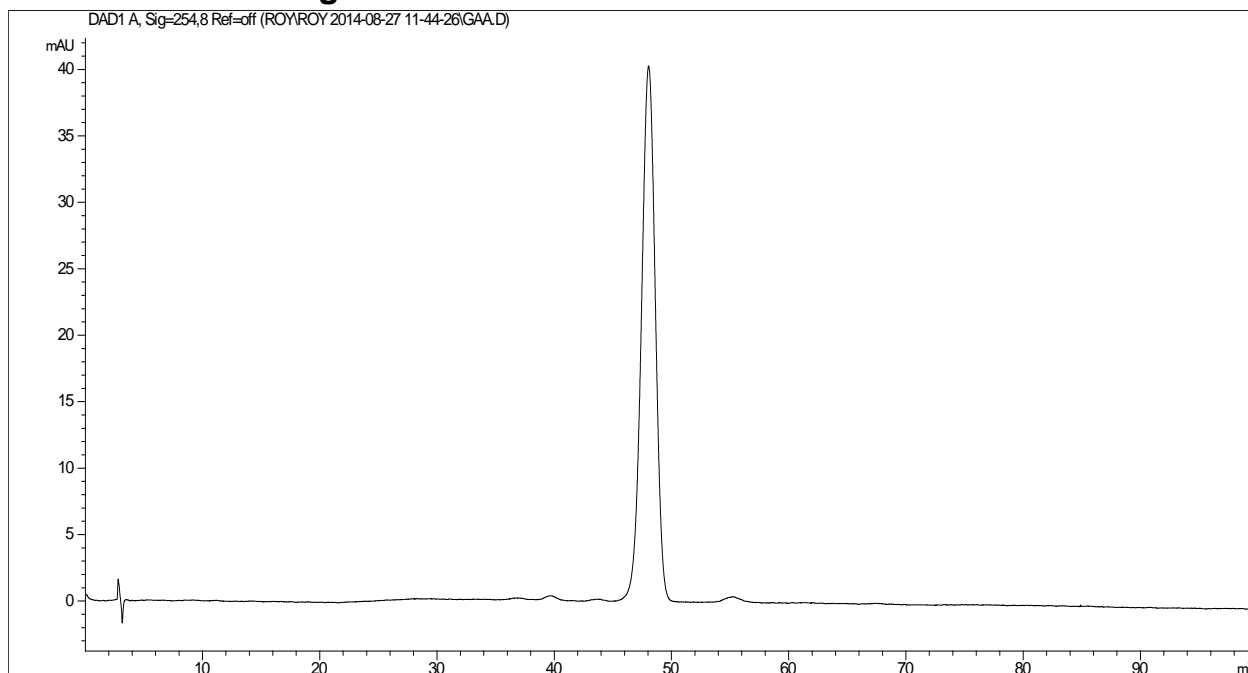
HPLC

HPLC system : Agilent Technologies 1200 Series
Column : ACE, C18, 4.6 x 250 mm, 5 µm or equivalent
Injection volume : 10 µl
Detector : DAD
Detector wavelength : 254 nm
Flow rate : 1.0 mL/min
Mobile phase :

Time (min)	% 0.1% Formic acid	% MeOH	Flow rate (mL/min)
0→100	50	50	1.0

Date File Name : A1-D:\CHEM32\1\DATA\ROY\ROY 2014-8-27 11-44-26
\GGA.D
Operator : DUAN Ran
Sample Lot Number : 110149
Method File : GGA.M
Acquired : 27/08/2014

I. HPLC chromatogram



Product	RT (min)	Area (mAu*s)	Relative Area %
Ganoderic acid A	48.051	3331.1	98.563