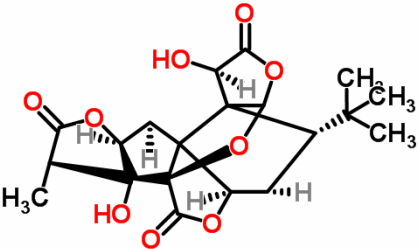


Certificate of Analysis

Product Name	Ginkgolide A/ 銀杏內酯 A	
Catalog Number	11049	
Lot Number	110494	

Chemical Name	Ginkgolide A
Chemical Formula	C ₂₀ H ₂₄ O ₉
Chemical Family	Terpenoid
Molecular Weight	408.40
CAS Number	15291-75-5
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

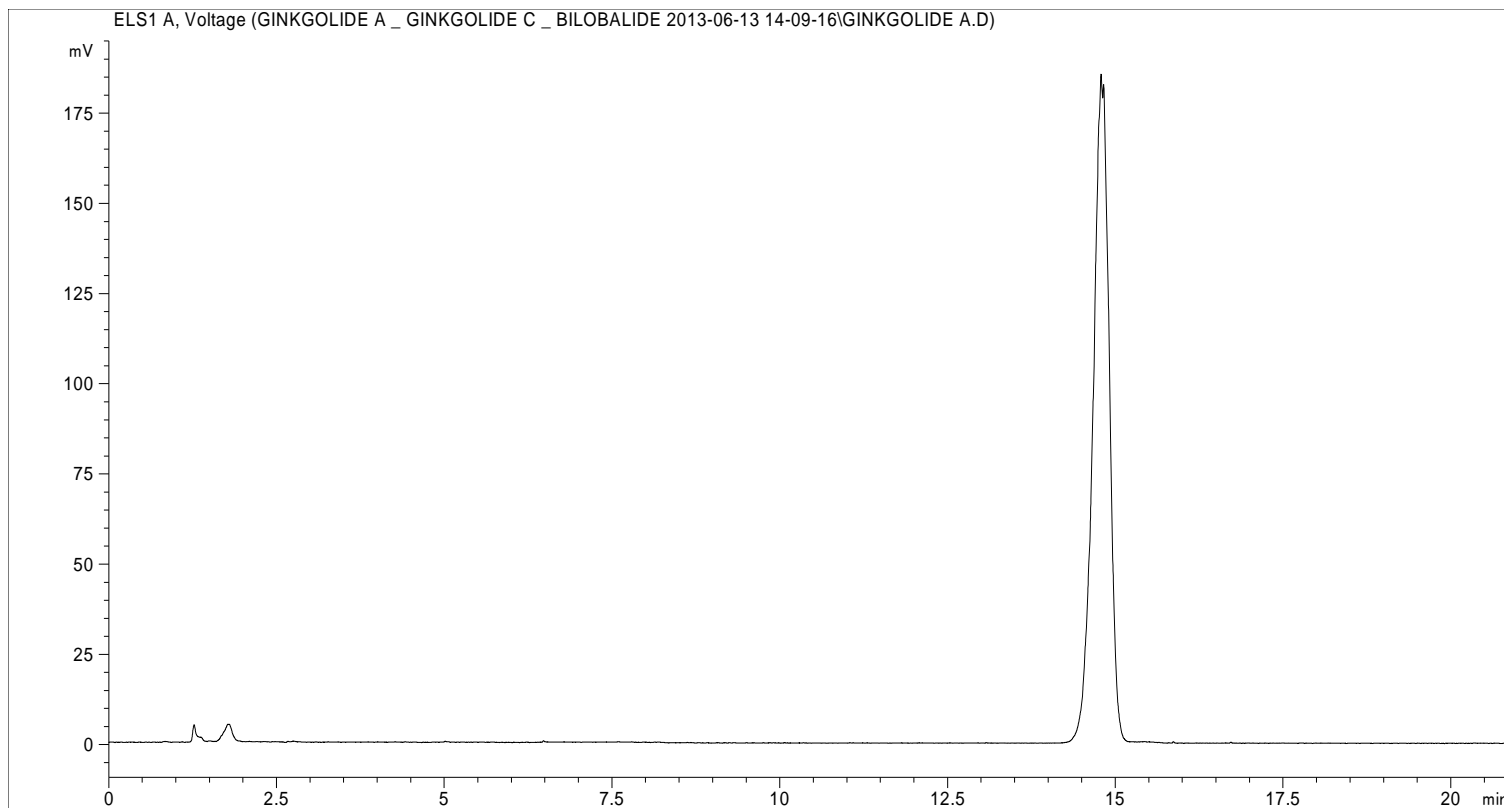
HPLC

HPLC system : Agilent Technologies 1200 Series
Column : Inertsil ODS-4 column, 4.6 x 250 mm, 5 µm
Injection volume : 10 µl
Detector : ELSD
Tube temperature : 102 °C
N₂ Gas : 3.5 bar
Mobile phase flow rate : 1.0 mL/min
Mobile phase :

Time (min)	% H ₂ O	% MeOH	Flow rate (mL/min)
0 → 45	75 → 52	25 → 48	1.0

Date File Name : A1-D:\Chem32\data\purity test
Operator : DUAN Ran
Sample Lot Number : 110494
Method File : D:\Chem32\1\method\GINKGOLIDE A+
GINKGOLIDE C+BILOBALIDE
Acquired : 2013-06-11

I. HPLC chromatogram



Product	RT (min)	Area (mAu*s)	Relative Area %
Ginkgolide A	14.79	3095.1	100