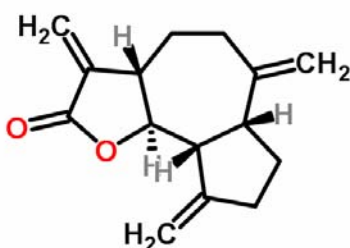


Certificate of Analysis

| | | |
|-----------------------|----------------------------------|--|
| Product Name | Dehydrocostuslactone / 去氫木香內酯 |  |
| Catalog Number | 11010 | |
| Lot Number | 110101 | |

| | |
|---------------------------|--|
| Chemical Name | Dehydrocostuslactone |
| Chemical Formula | C₁₅H₁₈O₂ |
| Chemical Family | Terpenoids |
| Molecular Weight | 230.30 |
| CAS Number | 477-43-0 |
| 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: 04/03/2013

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

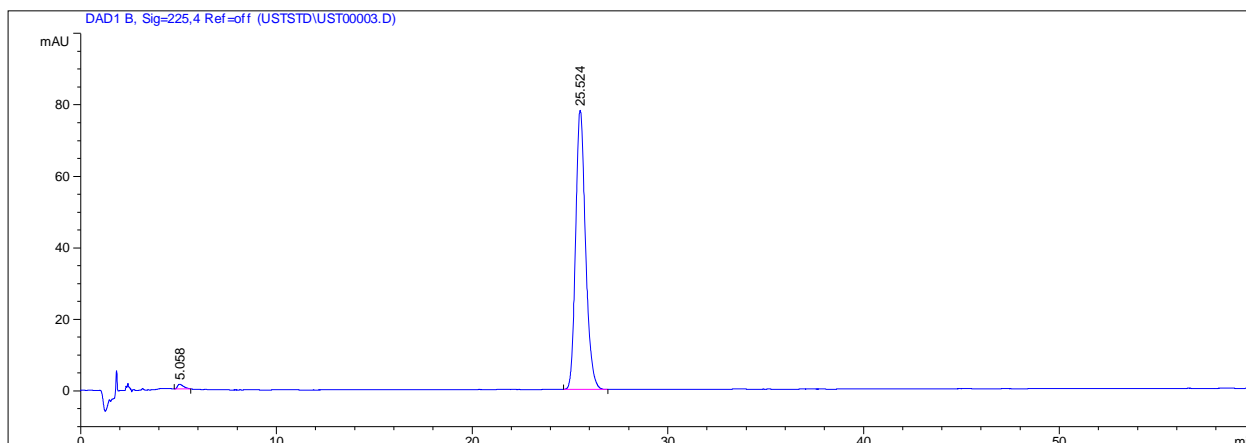
HPLC

HPLC system : Agilent 1100 series
Column : Grace Alltima C18 column, 4.6 mm × 250 mm, 5-μm
Injection volume : 10 μL
Detector : Diode array detector
Detector wavelength : 225 nm
Flow rate : 1.0 mL/min
Mobile phase :

| Time (min) | % MeOH | % Water | Flow rate (mL/min) |
|------------|--------|---------|--------------------|
| 0-60 | 65 | 35 | 1.0 |

Date File Name : C:\CHEM\1\DATA\USTSTD\UST000003.D
Operator : Kiki
Sample Lot Number : 110101
Method File : C:\CHEM\1\METHODS\C0079.M
Acquired : 10/12/2012

I. HPLC chromatogram



| Product | RT (min) | Area (mAu*s) | Relative Area % |
|----------------------|----------|--------------|-----------------|
| Dehydrocostuslactone | 25.524 | 2739 | 99.0 |