Testing Laboratory

for Chinese Medicine **TLCM**

Certificate of Analysis

| Product Name | Curcumol / 莪朮醇 | CH ₂ |
|----------------|-------------------|----------------------------------|
| Catalog Number | 11009 | H ₃ C OH |
| Lot Number | 110091 | H ₃ C CH ₃ |

Chemical Name
Curcumol
Chemical Formula
Chemical Formula
Chemical Family
Chemical Family
Molecular Weight
CAS Number
Appearance (Color)
Appearance (Form)
Curcumol
Curcumol
Asympanol
Cashana
Curcumol
Asympanol
Asympanol
Cashana
Curcumol
Asympanol
Asympanol
Cashana
Curcumol
Asympanol
Asympanol
Cashana
Curcumol
Asympanol
Cashana
Curcumol
Magnetic
Asympanol
Cashana
Curcumol
Cashana
Casha

Analytical Test

| Test | Result | |
|-----------------------------|---------------------------|--|
| Identity by LC/MS Analysis | Consistent with structure | |
| Purity by HPLC/DAD Analysis | ≥95% | |

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

TLCM Room 6145, The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong

www.hktlcm.com

Email:stds@ust.hk

Tel: 2358-7338

Fax: 2358-2551

Testing Laboratory

for Chinese Medicine **TLCM**

Product Analysis Report

Analytical Test

| Test | Results | |
|-----------------------------|---------------------------|--|
| Identity by LC/MS Analysis | Consistent with structure | |
| Purity by HPLC/DAD Analysis | ≥95% | |

Spectral and Physical Data

HPLC

HPLC system : Agilent 1100 series

Column : Grace Alltima C18 column, 4.6 mm \times 250 mm, 5- μ m

Injection volume : $10 \mu L$

Detector : Diode array detector

Detector wavelength : 203 nm Flow rate : 1.0 mL/min

Mobile phase : __.

| Time (min) | % ACN | % 0.1% (v/v) H ₃ PO ₄ | Flow rate (mL/min) |
|------------|-------|--|--------------------|
| 0-60 | 55 | 45 | 1.0 |

Date File Name : C:\CHEM\1\DATA\USTSTD\UST00018.D

Operator : Kiki **Sample Lot Number** : 110091

Method File : C:CHEM\1\METHODS\C0519.M

Acquired : 12/12/2012

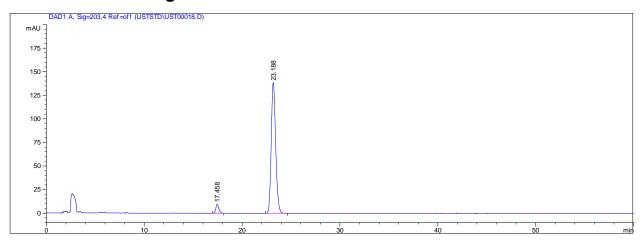
TLCM Room 6145, The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong

www.hktlcm.com Email:stds@ust.hk Tel: 2358-7338 Fax: 2358-2551

Testing Laboratory

for Chinese Medicine **TLCM**

I. HPLC chromatogram



| Product | RT (min) | Area (mAu*s) | Relative Area % |
|----------|----------|--------------|-----------------|
| Curcumol | 23.188 | 7339.7 | 95.5 |

TLCM Room 6145, The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong

www.hktlcm.com Email:stds@ust.hk Tel: 2358-7338 Fax: 2358-2551