## **Certificate of Analysis**

| Product Name   | Emodin /<br>大黃素 | HO, A CH <sub>3</sub> |
|----------------|-----------------|-----------------------|
| Catalog Number | 2005            |                       |
| Lot Number     | 20051           | он о он               |

Chemical Family Anthraquinone

Molecular Weight 270.24
CAS Number 518-82-1
Appearance (Color) Yellow
Appearance (Form) Powder

#### **Analytical Test**

| Test                        | Result                    |  |
|-----------------------------|---------------------------|--|
| Identity by LC/MS Analysis  | Consistent with structure |  |
| Purity by HPLC/DAD Analysis | ≥95.0%                    |  |

### **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

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

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## **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 | ≥95.0%                    |  |

#### **Spectral and Physical Data**

#### **HPLC**

**HPLC system** : Agilent 1100 series

**Column** : Grace Alltima C18 column, 4.6 mm  $\times$  250 mm, 5- $\mu$ m

Injection volume :  $10 \mu L$ 

**Detector** : Diode array detector

**Detector wavelength** : 254 nm **Flow rate** : 1 mL/min

Mobile phase

| Time (min)         | % MeOH | % 0.1%<br>(v/v)<br>H <sub>3</sub> PO <sub>4</sub> | Flow rate<br>(mL/min) |
|--------------------|--------|---------------------------------------------------|-----------------------|
| $0 \rightarrow 60$ | 85     | 15                                                | 1.0                   |

Date File Name : C:\CHEM\1\DATA\USTSTD\UST00036.D

**Operator** : Kiki **Sample Lot Number** : 20051

Method File : C:CHEM\1\METHODS\C0071.M

**Acquired** : 13/12/2012

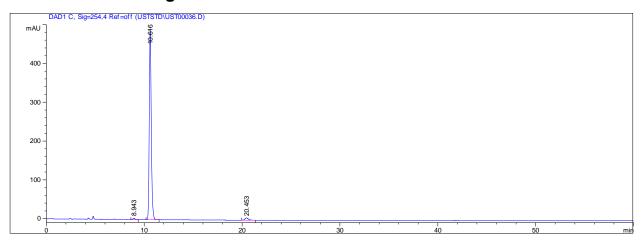
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### I. HPLC chromatogram



| Product | RT (min) | Area (mAu*s) | Relative Area % |
|---------|----------|--------------|-----------------|
| Emodin  | 10.616   | 6949.7       | 97.2            |

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