Testing Laboratory

for Chinese Medicine **TLCM**

Certificate of Analysis

Product Name	Glycyrrhizic acid /甘草酸	H ₃ C ₁₁
Catalog Number	10017	HO,,,,O CH
Lot Number	100171	HO H

Chemical Name Glycyrrhizic acid

Chemical Formula C₄₂H₆₂O₁₆
Chemical Family Saponin
Molecular Weight 822.93
CAS Number 1405-86-3
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: 23/01/2013

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

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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 1260 Series

Column : Agilent Eclipse XDB-C18, 4.6 x 250 mm, 5 μm

or equivalent

Mobile phase :

Time (min)	% ACN	% 0.03% Phosphoric acid	Flow rate (mL/min)
0 →10	5→25	95→75	1.0
10 → 20	25	75	1.0
20 → 36	25 → 50	75 → 50	1.0
36 → 40	50 → 45	50→55	1.0
40 →120	45	55	1.0

Date File Name : A5-D: \KELLYLAM\DATA\MARKER\GCS 2012-10-30

11-52-11\GCS.D

Operator : Kelly Lam
Sample Lot Number : 1001701

Method File : A5-D: \\KELLYLAM METHOD\GCS.M

Acquired : 30/10/2012

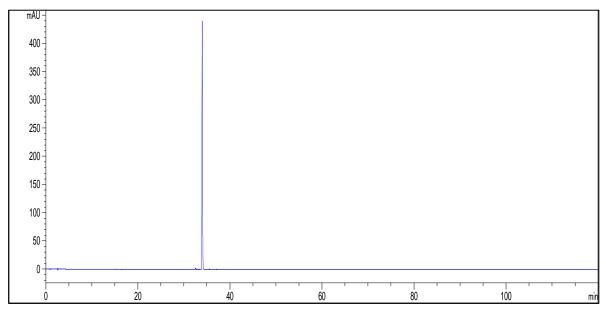
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I. HPLC chromatogram



Product	RT (min)	Area (mAu*s)	Relative Area %
Glycyrrhizic acid	33.983	3824.7	99.12

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