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Certificate of Analysis

Product Name: 1,3-Dicaffeoylquinic acid

Other Name: Cynarin

Catalogue No.: BP0005

Batch No.: 13061112

Report date: 2013-06-11

CAS Number: 19870-46-3

Mol. Formula: C₂₅H₂₄O₁₂

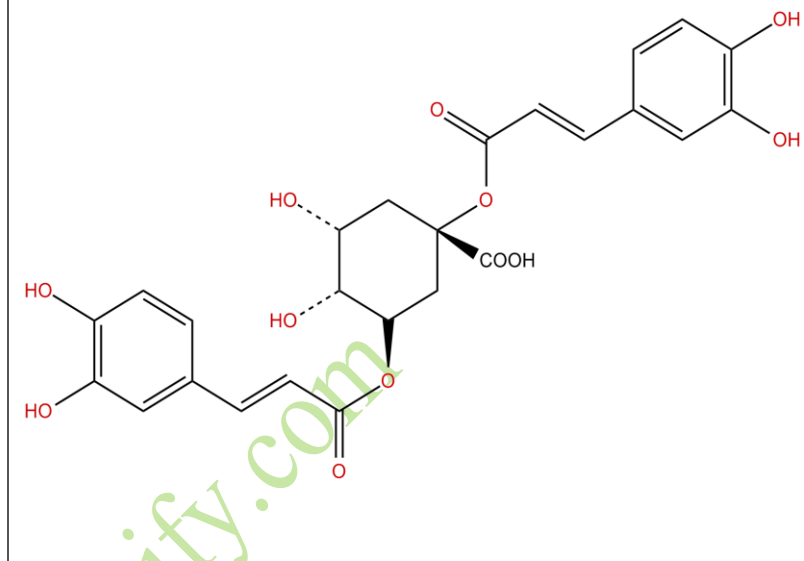
Mol. Weight: 516.45

Type of compound:

Identification Method: Mass, NMR

Analysis Method of Purity: HPLC-DAD

Structure:



Analytical result:

Test	Specification	Results
Appearance	Off-White powder	Off-White powder
Loss on drying	<3.0%	1.4 %
Purity (HPLC, 320nm)*	≥98.0%	99.27%

* Please find HPLC chromatography attached.

Package: Brown vial or HDPE Plastic Bottle

Storage: Cool and Dry place, protected from light, keep package airproofed when not in use.

Expiration: two years (2015-06-10) under conditions list above.

QC: *Meng Pan*

Date: 2013-06-11

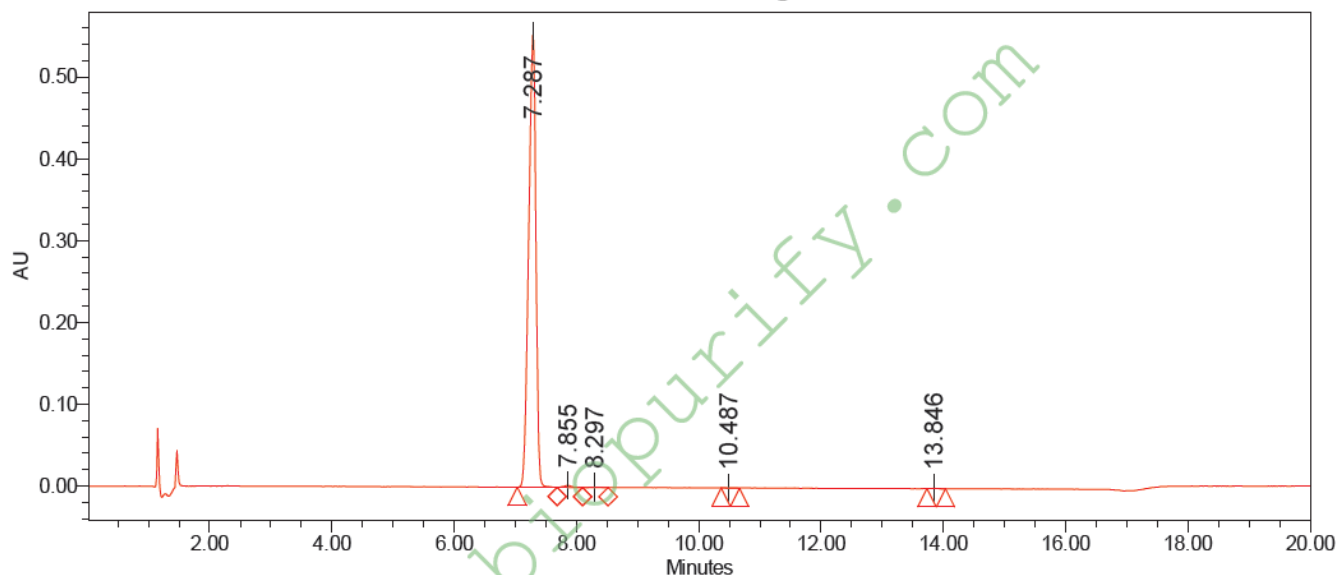
QA: *Lianglei Zhang*

Date: 2013-06-11

SAMPLE INFORMATION

Sample Name:	1 3 Dicafeoylquinic aci13061112	Acquired By:	panmeng
Sample Type:	Unknown	Sample Set Name:	
Vial:	1:A,6	Acq. Method Set:	1 3 Dicafeoylquinic acid
Injection #:	1	Processing Method:	Samples
Injection Volume:	10.00 ul	Channel Name:	320.0nm
Run Time:	20.0 Minutes	Proc. Chnl. Descr.:	PDA 320.0 nm
Date Acquired:	6/11/2013 2:02:17 PM CST		
Date Processed:	6/11/2013 2:26:07 PM CST		

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	% Area	USP Plate Count	USP Resolution
1	7.287	4511370	99.27	16207.98	
2	7.855	20436	0.45	21323.28	2.41
3	8.297	5880	0.13	20439.35	1.21
4	10.487	2724	0.06	22493.93	6.35
5	13.846	4175	0.09	98759.74	13.06