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Certificate of Analysis

Product Name: Madecassic acid

Other Name: Brahmic acid

Catalogue No.: BP0910

Batch No.: 14120311

Report date: 2014-12-03

CAS Number: 18449-41-7

Mol. Formula: C₃₀H₄₈O₆

Mol. Weight: 504.70

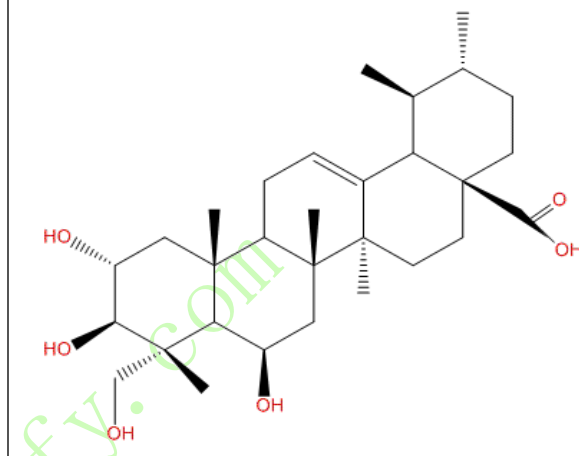
Botanical Source: Centella Asiatica

Type of compound:

Identification Method: Mass, NMR

Analysis Method of Purity: HPLC-ELSD/DAD

Structure:



Analytical result:

Test	Specification	Results
Appearance	White powder	White powder
Loss on drying	<3.0%	1.2%
Purity (HPLC-ELSD)*	≥98.0%	99.78%
Purity (HPLC-205nm)*	≥98.0%	98.47%

* 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 (2016-12-03) under conditions list above.

QC: Meng Pan

Date: 2014-12-03

QA: Lianglei Zhang

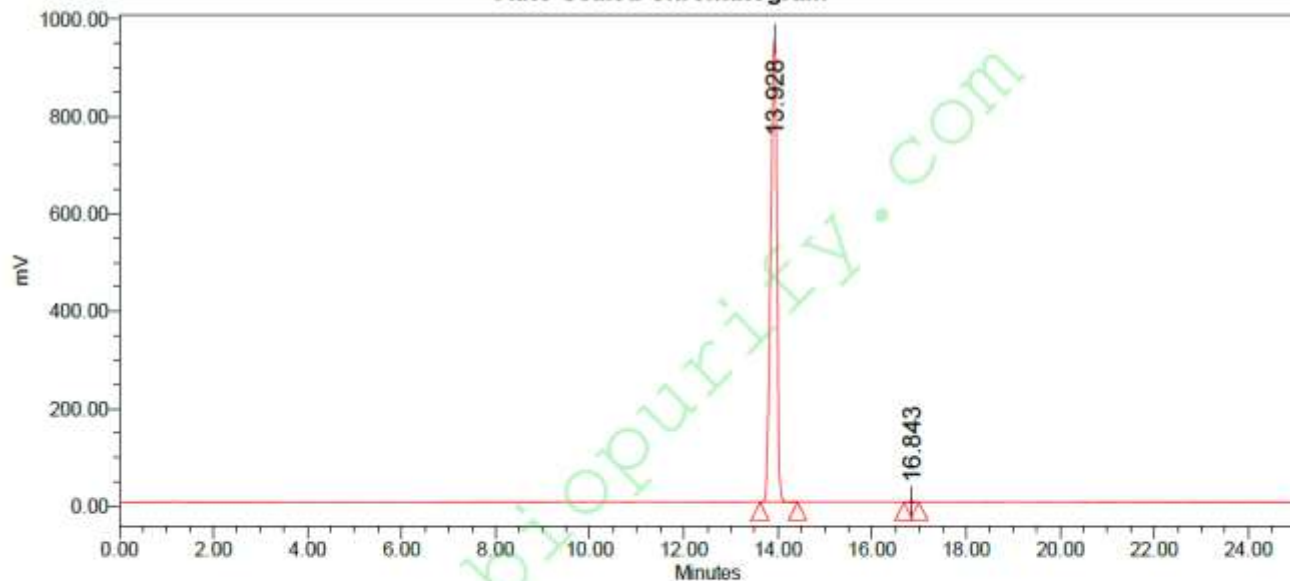
Date: 2014-12-03



SAMPLE INFORMATION

Sample Name:	Madecassic acid 14120311	Acquired By:	System
Sample Type:	Unknown	Sample Set Name:	
Vial:	1:D,2	Acq. Method Set:	Madecassic acid
Injection #:	1	Processing Method:	Samples
Injection Volume:	20.00 ul	Channel Name:	SATIN
Run Time:	25.0 Minutes	Proc. Chnl. Descr.:	
Date Acquired:	2014-12-3 15:49:26 CST		
Date Processed:	2014-12-4 8:55:30 CST		

Auto-Scaled Chromatogram



Peak Results

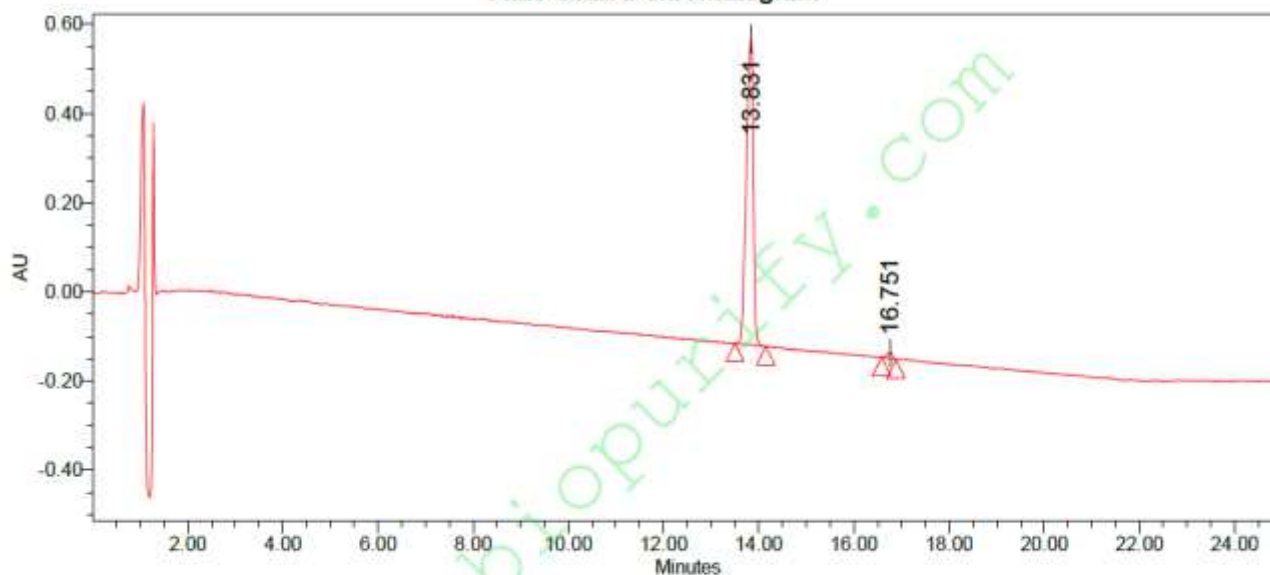
	Name	RT	Area	% Area	USP Plate Count	USP Resolution
1		13.928	8760366	99.78	51521.63	
2		16.843	19047	0.22	134863.14	12.95



SAMPLE INFORMATION

Sample Name:	Madecassic acid 14120311	Acquired By:	System
Sample Type:	Unknown	Sample Set Name:	
Vial:	1:D,2	Acq. Method Set:	Madecassic acid
Injection #:	1	Processing Method:	Samples
Injection Volume:	20.00 ul	Channel Name:	205.0nm
Run Time:	25.0 Minutes	Proc. Chnl. Descr.:	PDA 205.0 nm
Date Acquired:	2014-12-3 15:49:26 CST		
Date Processed:	2014-12-4 9:34:58 CST		

Auto-Scaled Chromatogram



Peak Results

	Name	RT	Area	% Area	USP Plate Count	USP Resolution
1		13.831	6949814	98.47	43078.53	
2		16.751	108279	1.53	121400.12	11.67