成都普瑞法科技开发有限公司
Chengdu Biopurify Phytochemicals Ltd.

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Certificate of Analysis

Product Name: Ginsenoside Rg5

Other Name: Ginsenoside Rg5E

Catalogue No.: BP1651

Batch No.: 14071105

Report date: 2014-07-11

CAS Number: 186763-78-0

Mol. Formula: $C_{42}H_{70}O_{12}$

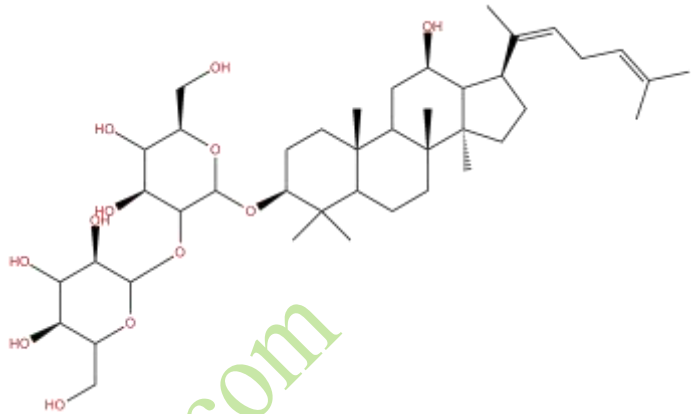
Mol. Weight: 766.998

Botanical Source: Euphorbia spp.

Identification Method: Mass, NMR

Analysis Method of Purity: HPLC-DAD/ELSD

Structure:



Analytical result:

Test	Specification	Results
Appearance	White powder	White powder
Loss on drying	＜3.0%	1.0 %
Purity (HPLC-ELSD)*	≥98.0%	99.58%
Purity (HPLC-205nm)*	≥98.0%	98.10%

***** 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 (2016-07-11) under conditions list above**.**

QC: Meng Pan **Date: 2014-07-11**

QA: Lianglei Zhang **Date: 2014-07-11**

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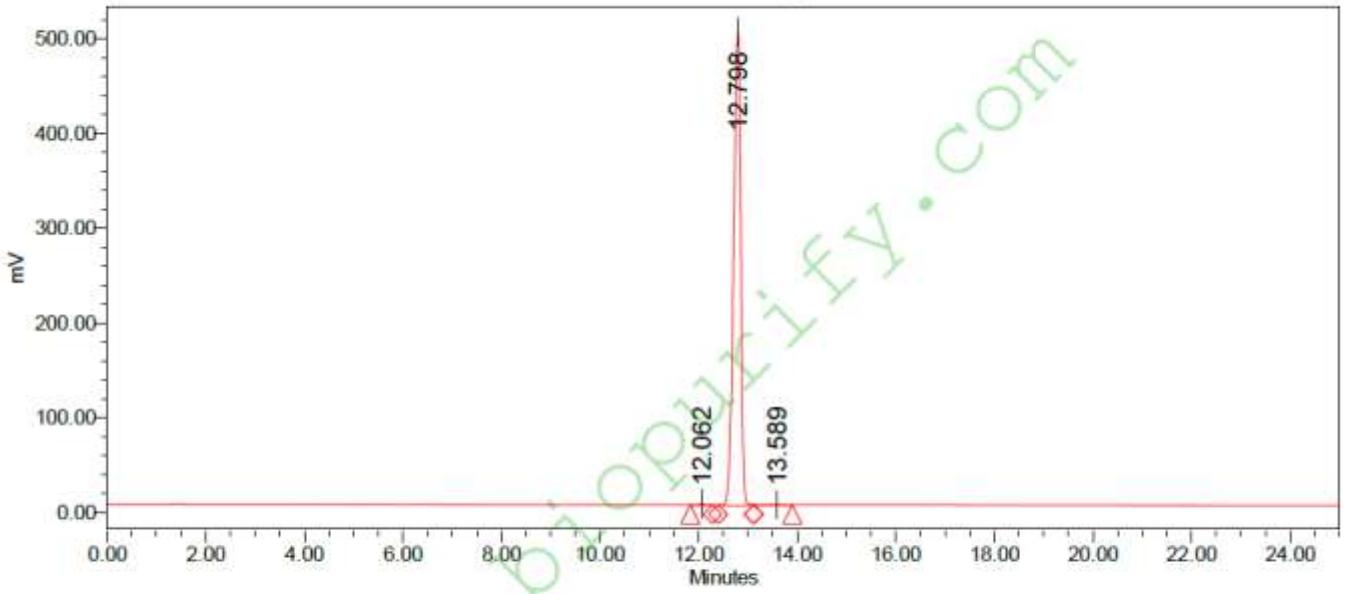
Empower 2 software

Chengdu Biopurify Phytochemicals Ltd

SAMPLE INFORMATION

Sample Name:	Ginsenoside Rg5 14071105	Acquired By:	System
Sample Type:	Unknown	Sample Set Name:	
Vial:	1:B,8	Acq. Method Set:	Ginsenoside Rg5
Injection #:	1	Processing Method:	Samples
Injection Volume:	10.00 ul	Channel Name:	SATIN
Run Time:	25.0 Minutes	Proc. Chnl. Descr.:	
Date Acquired:	2014-7-11 11:25:18 CST		
Date Processed:	2014-7-11 14:09:36 CST		

Auto-Scaled Chromatogram



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Peak Results

	Name	RT	Area	% Area	USP Plate Count	USP Resolution
1		12.062	9084	0.18	42694.60	
2		12.798	4944632	99.58	38751.54	2.80
3		13.589	11873	0.24		3.01

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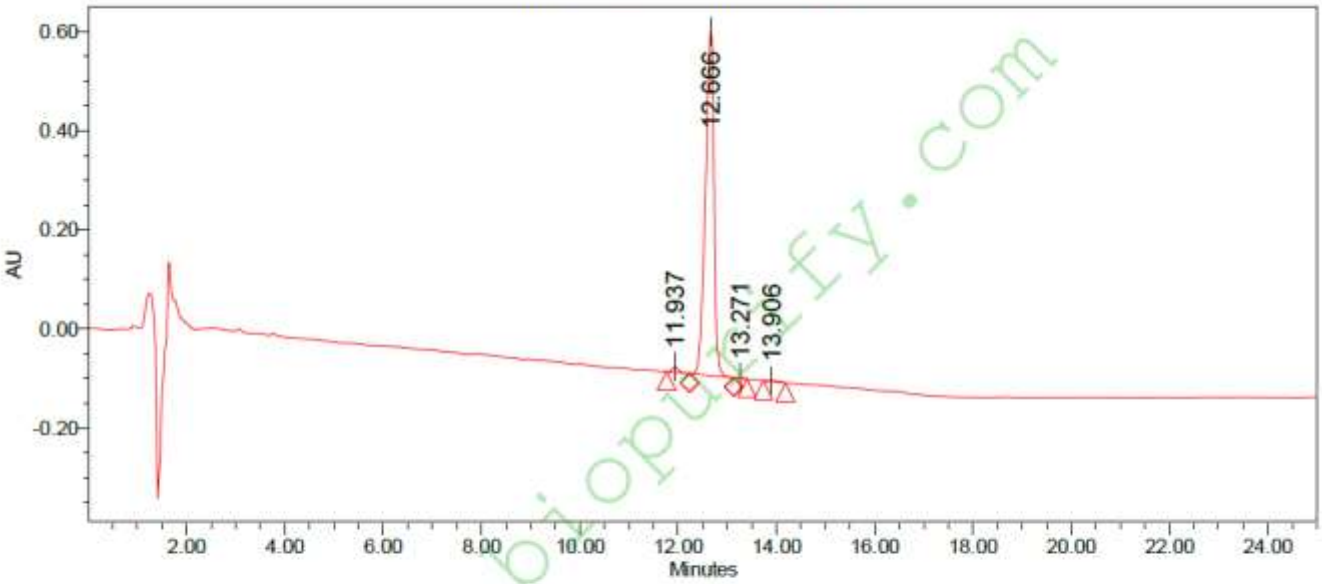
Empower 2 software

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SAMPLE INFORMATION

Sample Name:	Ginsenoside Rg5 14071105	Acquired By:	System
Sample Type:	Unknown	Sample Set Name:	
Vial:	1:B,8	Acq. Method Set:	Ginsenoside Rg5
Injection #:	1	Processing Method:	Samples
Injection Volume:	10.00 ul	Channel Name:	205.0nm
Run Time:	25.0 Minutes	Proc. Chnl. Descr.:	PDA 205.0 nm
Date Acquired:	2014-7-11 11:25:18 CST		
Date Processed:	2014-7-11 14:04:51 CST		

Auto-Scaled Chromatogram



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Peak Results

	Name	RT	Area	% Area	USP Plate Count	USP Resolution
1		11.937	103628	1.21	42287.39	
2		12.666	8373795	98.10	26103.50	2.63
3		13.271	14236	0.17	61401.46	2.29
4		13.906	44147	0.52	14168.42	1.81