





Certificate of Analysis

For Laboratory Use Only

PRODUCT NAME Ginsenoside Rb2

PART NUMBER 00007196

STANDARD TYPE Analytical Standard (AS)

LOT NUMBER 00007196-301

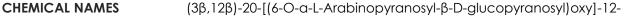
REPORT NUMBER CDXA-RSS-4934-02

SAMPLE NUMBER CDXA-12-2055

DATE OF SAMPLE 04/04/2012

DATE OF RE-EVALUATION 07/01/2016 (1st); 04/13/2020 (2nd)

DATE OF REPORT 06/01/2020



hydroxydammar-24-en-3-yl 2-O-β-D-glucopyranosyl-β-D-glucopyranoside;

Ginsenoside C

CHEMICAL FORMULA C₅₃H₉₀O₂₂

MOLECULAR WEIGHT (MW) 1079.27

CHEMICAL FAMILY Saponins

CAS NUMBER [11021-13-9]

EC#(EINECS) 234-251-4

RTECS LZ5779240

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT	
HPLC	0.700.10.2.METH102	NA	96.2%	
Mass Spectrum	Direct Infusion, ESI (+)	Conforms	Conforms	
Appearance	NA	NA	White powder	

STORAGE CONDITIONS

STORAGE Room Temperature in a dry place.

EXPIRATION DATE 04/2025 under the above conditions.







Certificate of Analysis

For Laboratory Use Only

ANALYTICAL CONDITIONS

INSTRUMENT AGILENT 1260 HPLC UV-VIS (DAD) CONNECTED TO DIONEX CORONA VEO

CHARGED AEROSOL DETECTOR (CAD); AGILENT 6510 QTOF

COLUMN Phenomenex Kinetex 2.6 µm particle size; 150 x 4.6 mm

MOBILE PHASE A - Ultrapure water, B - Acetonitrile;

Start at 15% B then increasing to 30% B over 15 minutes, then increasing to 32% B over one minute, then increasing to 38% B over 3 minutes, then increasing to 43% B over 5 minutes, then increasing to 55% B over 3 minutes, then increasing to

65% B over 4 minutes, then increasing to 70% B over 4 minutes and then increasing to 90% B over 3 minutes. Decrease to 15% B over one minute and

then hold for 4 minutes.

COLUMN TEMP. 40 °C

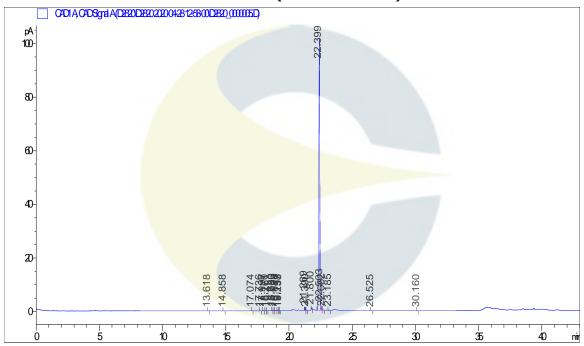
FLOW RATE 1.0 mL/minute

INJECTION VOL. 5.0 μL

INJECTION CONC. 1.2 mg/mL in Methanol

DETECTION CAD

HPLC CHROMATOGRAM OF GINSENOSIDE RB2 (CDXA-12-2055)





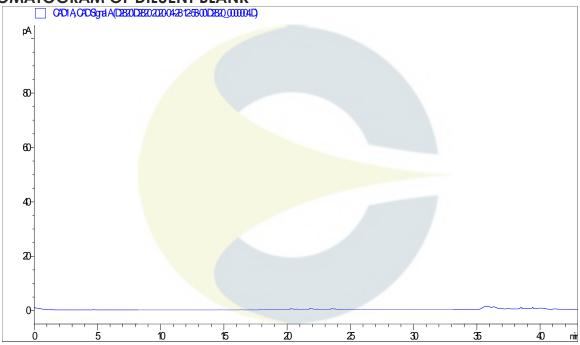




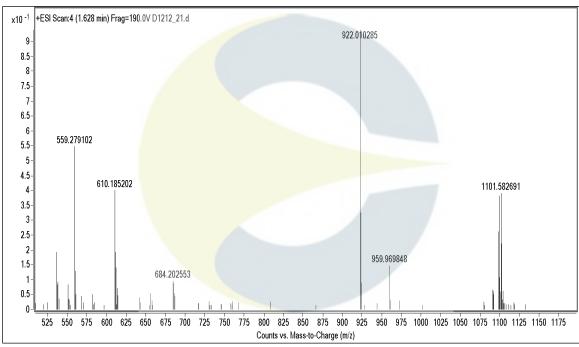
Certificate of Analysis

For Laboratory Use Only

HPLC CHROMATOGRAM OF DILUENT BLANK



MASS SPECTRUM OF GINSENOSIDE RB2 (CDXA-12-2055)









Certificate of Analysis

For Laboratory Use Only

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	04/23/2012	New report
01	07/01/2016	Updated expiration date, updated standard type
02	06/01/2020	Passed second re-evaluation by HPLC. Updated the structure, chemical names, expiration date, analytical results, analytical conditions, and chromatograms. Removed the melting point.