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PRODUCT NAME Ginsenoside Rf

PART NUMBER 00007215

STANDARD TYPE Primary (P)

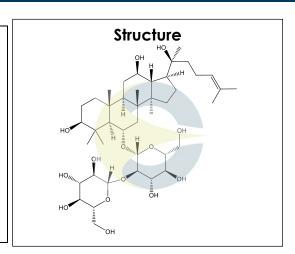
LOT NUMBER 00007215-101

REPORT NUMBER CDXA-RSS-8516-00

SAMPLE NUMBER CDXP-19-00091

DATE OF SAMPLE 02/04/2019

DATE OF REPORT 02/28/2019



(3β,6a,12β)-3,12,20-Trihydroxydammar-24-en-6-yl-2-O-β-D-glucopyranosyl-β-D-**CHEMICAL NAMES**

glucopyranoside; Panaxoside Rf

CHEMICAL FORMULA C42H72O14

MOLECULAR WEIGHT (MW) 801.01

CHEMICAL FAMILY Saponins

CAS NUMBER [52286-58-5]

EC#(EINECS) 634-870-3

RTECS LY9536900

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	NA	86.8%
HPLC	99.1-04-5.0-000190	NA	92.0%
NMR	30.1-04-1.0-000733	Conforms to structure	Conforms to structure
Mass Spectrum	99.1-04-3.0-000126	Conforms	Conforms
Residual Solvent	99.1-CDXA-3.0-000621	NA	MeOH - 0.1%; Acetone < 0.1%; MeOAc < 0.1%; EtOAc < 0.1%
Water	99.1-04-10.0-000094	NA	5.6%
Appearance	NA	NA	White powder

ADJUSTED PURITY: 86.8% IS BASED ON (100 - 0.1 SOLVENTS - 5.6 WATER) X 92.0% HPLC

STORAGE CONDITIONS

STORAGE Room Temperature in a dry place.

EXPIRATION DATE 02/2024 under the above conditions.







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ANALYTICAL CONDITIONS

INSTRUMENT AGILENT 1260 HPLC CONNECTED TO DIONEX CORONA VEO CHARGED AEROSOL

DETECTOR (CAD); AB-SCIEX 6600 TRIPLE TOF

COLUMN Phenomenex Kinetex C18 150 x 4.6 mm, 2.6 µm particle size

MOBILE PHASE A – High-purity water, B - Acetonitrile

> 15% B increasing to 30% B over 15 minutes, then increasing to 32% B over 1 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, then increasing to 90% B over 3 minutes. Re-equilibrate to 15% B over 1 minute and hold at 15% B for 4 minutes.

COLUMN TEMP. 40 °C

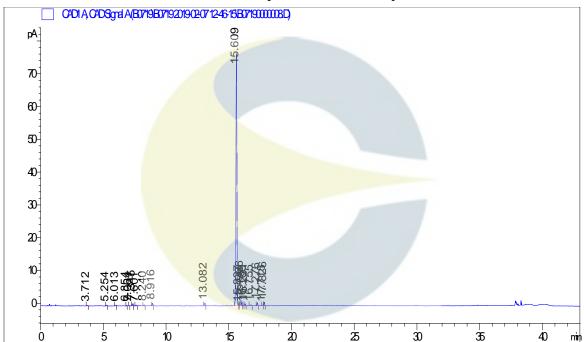
2.0 mL/minute **FLOW RATE**

INJECTION VOL. 5.0 µL

INJECTION CONC. 1.2 mg/mL in Methanol

DETECTION CAD

HPLC CHROMATOGRAM OF GINSENOSIDE RF (CDXP-19-00091)



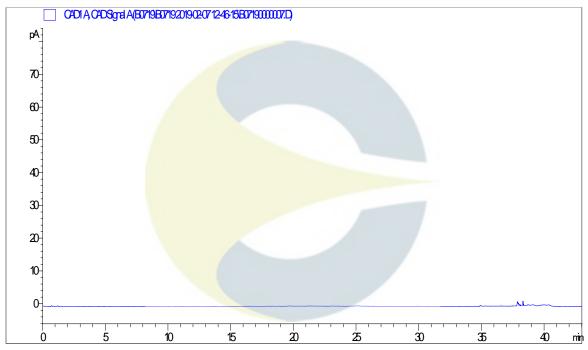




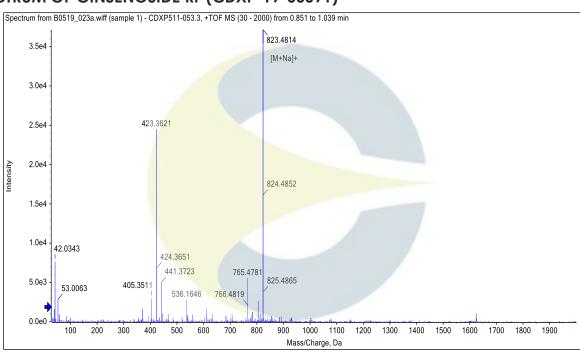


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HPLC CHROMATOGRAM OF DILUENT BLANK



MASS SPECTRUM OF GINSENOSIDE RF (CDXP-19-00091)



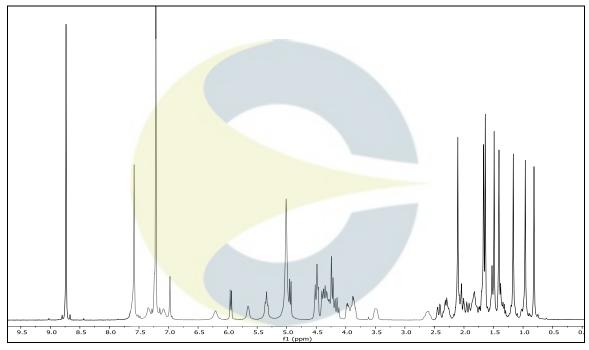




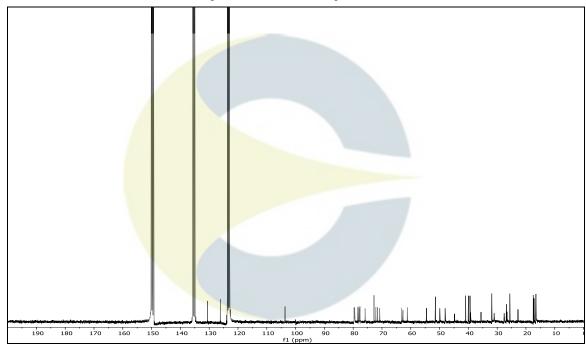


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¹H-NMR SPECTRUM OF GINSENOSIDE RF (CDXP-19-00091) IN PYRIDINE-d₅



¹³C-NMR SPECTRUM GINSENOSIDE RF (CDXP-19-00091) IN PYRIDINE-d₅



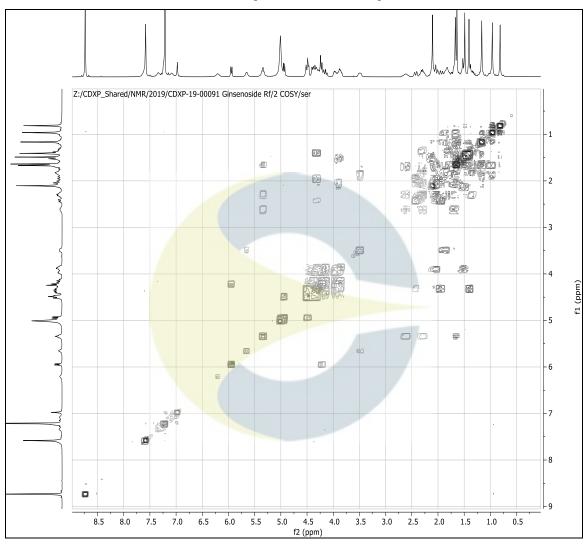






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COSY-NMR SPECTRUM OF GINSENOSIDE RF (CDXP-19-00091) IN PYRIDINE-d5



REVISION HISTORY

Revision History	<u>Date of Revision</u>	Document/Changes
00	02/28/2019	New report