





# Certificate of Analysis

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**PRODUCT NAME** Ganoderic acid A

PART NUMBER 00007057

**STANDARD TYPE** Primary (P)

**LOT NUMBER** 00007057-915

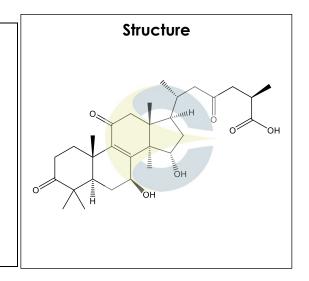
**REPORT NUMBER** CDXA-RSS-6818-01

SAMPLE NUMBER CDXA-15-007823

**DATE OF SAMPLE** 09/29/2015

**DATE OF RE-EVALUATION** 12/12/2019

**DATE OF REPORT** 01/07/2020



**CHEMICAL NAMES**  $(7\beta,15\alpha,25R)$ -7,15-Dihydroxy-3,11,23-trioxo-lanost-8-en-26-oic acid

CHEMICAL FORMULA C<sub>30</sub>H<sub>44</sub>O<sub>7</sub>

MOLECULAR WEIGHT (MW) 516.67

CHEMICAL FAMILY Triterpenes

CAS NUMBER [81907-62-2]

EC#(EINECS) NA

RTECS NA

### **ANALYTICAL RESULTS**

TEST	METHOD	SPECIFICATION	RESULT	
Adjusted Purity	NA	NA	95.9%	
HPLC	0.700.10.2.METH22	NA	96.0%	
NMR	99.1-CD-1.0-000122	Conforms to structure	Conforms to structure	
Mass Spectrum	DIRECT INFUSION: ESI (-)	Conforms	Conforms	
Residual Solvent	99.1-CD-8.0-000115	NA	MeOH: 0.1 %	
Water	0.700.12.37	NA	ND	
Appearance	NA	NA	White powder	

ADJUSTED PURITY: 95.9% IS BASED ON (100 - 0.1 SOLVENTS - 0.0 WATER) X 96.0% HPLC

#### STORAGE CONDITIONS

**STORAGE** -20°C in a dry place.

**EXPIRATION DATE** 12/2024 under the above conditions.







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#### **ANALYTICAL CONDITIONS**

INSTRUMENT AGILENT 1260 HPLC UV-VIS (DAD); AGILENT 6510 QTOF

**COLUMN** Phenomenex Luna C18(2) 150 x 2.00 mm, 5 μm particle size

MOBILE PHASE A - 0.1% Trifluoroacetic acid in Ultrapure water, B - Acetonitrile;

Isocratic 5% B for 5 minutes, then increasing to 95% B over 20 minutes. Hold at

95% B for 15 minutes.

COLUMN TEMP. 60 °C

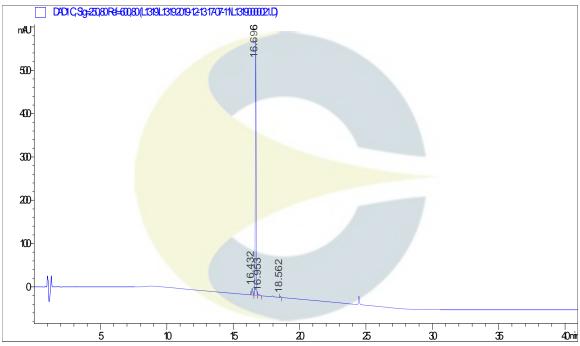
**FLOW RATE** 0.4 mL/minute

INJECTION VOL. 2.0 μL

**INJECTION CONC.** 1.1 mg/mL in Methanol

**DETECTION**  $250 \pm 40 \text{ nm}$ 

## HPLC CHROMATOGRAM OF GANODERIC ACID A (CDXA-15-007823)





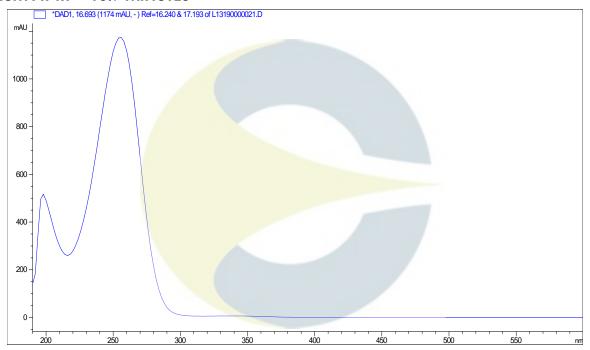




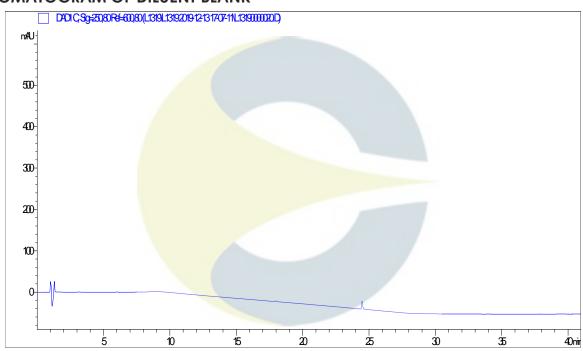
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#### **UV SPECTRUM AT RT = 16.7 MINUTES**



#### HPLC CHROMATOGRAM OF DILUENT BLANK





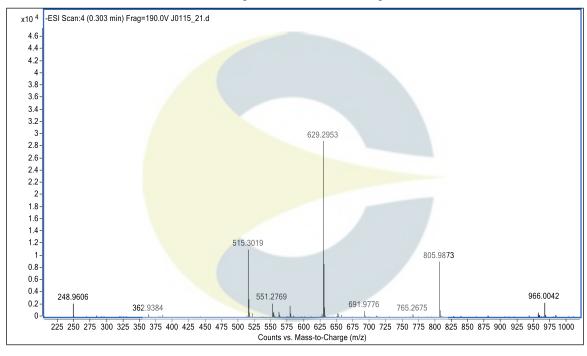




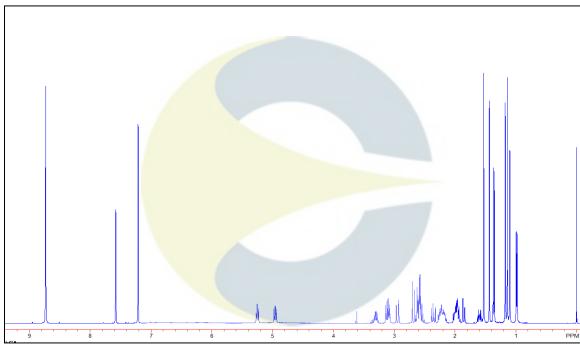
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### MASS SPECTRUM OF GANODERIC ACID A (CDXA-15-007823)



# <sup>1</sup>H-NMR SPECTRUM OF GANODERIC ACID A (CDXA-15-007823) in PYRIDINE-d₅





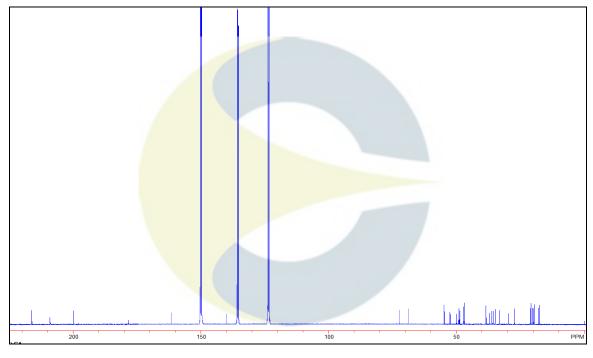




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# <sup>13</sup>C-NMR SPECTRUM OF GANODERIC ACID A (CDXA-15-007823) IN PYRIDINE-d₅



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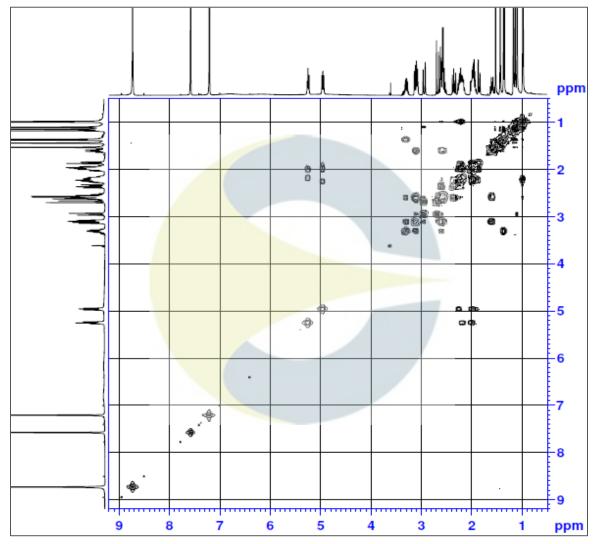




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# COSY-NMR SPECTRUM OF GANODERIC ACID A (CDXA-15-007823) IN PYRIDINE-d5



#### **REVISION HISTORY**

Revision History	<u>Date of Revision</u>	<u>Document/Changes</u>
00	10/20/2015	New report
01	01/07/2020	Updated analytical results, expiration date, analytical conditions, chromatograms, and removed melting point