





Certificate of Analysis

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PRODUCT NAME beta-Sitosterol

PART NUMBER 00019285

STANDARD TYPE Primary (P)

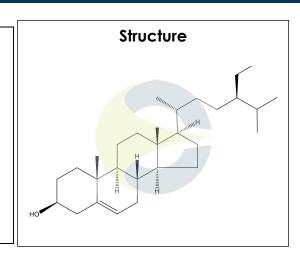
LOT NUMBER 00019285-312

REPORT NUMBER CDXA-RSS-8886-00

SAMPLE NUMBER CDXP-20-00181

DATE OF SAMPLE 03/24/2020

DATE OF REPORT 04/30/2020



CHEMICAL NAMES (3β)-Stigmast-5-en-3-ol; 22,23-Dihydrostigmasterol; Cinchol; Cupreol; Nimbosterol;

Prostasal; Quebrachol; Rhamnol; Sobatum, α -Phytosterol

CHEMICAL FORMULA C₂₉H₅₀O

MOLECULAR WEIGHT (MW) 414.71

CHEMICAL FAMILY Steroids

CAS NUMBER [83-46-5]

EC#(EINECS) 201-480-6

RTECS WJ2600000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	NA	96.5%
GC	0.700.10.2.METH140	NA	98.9%
NMR	0.700.12.4	Conforms to structure	Conforms to structure
Mass Spectrum	0.700.12.27	Conforms	Conforms
Residual Solvent*	USP <467>	NA	ND
Water	0.700.12.37	NA	2.4%
Appearance	NA	NA	White powder

*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 96.5% IS BASED ON (100 - 0.0 SOLVENTS - 2.4 WATER) X 98.9% GC

STORAGE CONDITIONS

STORAGE +4 °C in a dry place.

EXPIRATION DATE 03/2025 under the above conditions.







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ANALYTICAL CONDITIONS

INSTRUMENT AGILENT 6890N WITH FLAME IONIZATION DETECTOR (FID) AND

AGILENT 5973N MASS SELECTIVE DETECTOR (MSD)

COLUMN Phenomenex Zebron ZB-5HT Inferno, 30 m x 0.32 mm x 0.25 μm; connected to an

MXT Y-union, connected to a Restek Siltek deactivated guard column: 10 m x

0.25 mm to FID; and a 5 m x 100 μm transfer line to MSD.

CARRIER GAS Helium

COLUMN TEMP. Isothermic 40 °C for 5.0 minutes, then increasing at 10.0 °C/minute to 340 °C.

Hold at 340 °C for 5.0 minutes.

FLOW RATE 2.0 mL/minute

INJECTOR TEMP. 300 °C

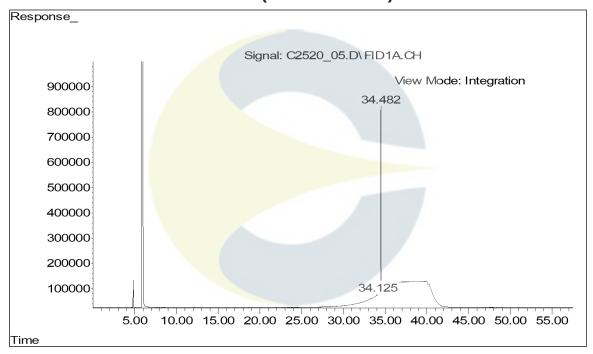
INJECTOR SPLIT RATIO 20:1

INJECTION VOL. 1.0 μ L

INJECTION CONC. 1.7 mg/mL in Chloroform

DETECTION FID (300 °C) & MSD (Transfer line 300 °C, Source 250 °C, Quad 200 °C)

GC CHROMATOGRAM OF BETA-SITOSTEROL (CDXP-20-00181)





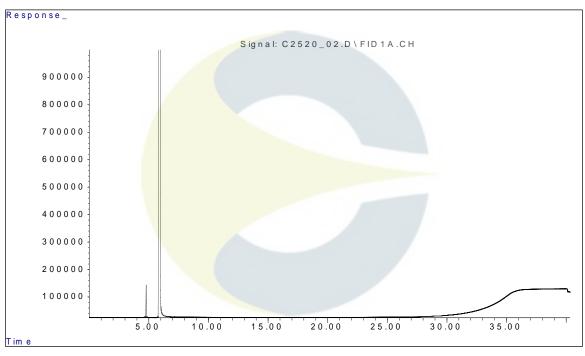




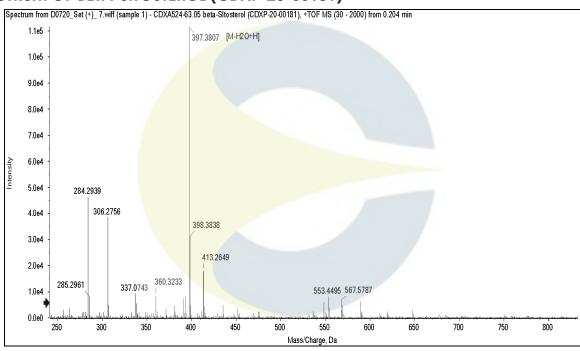
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GC CHROMATOGRAM OF DILUENT BLANK



MASS SPECTRUM OF BETA-SITOSTEROL (CDXP-20-00181)





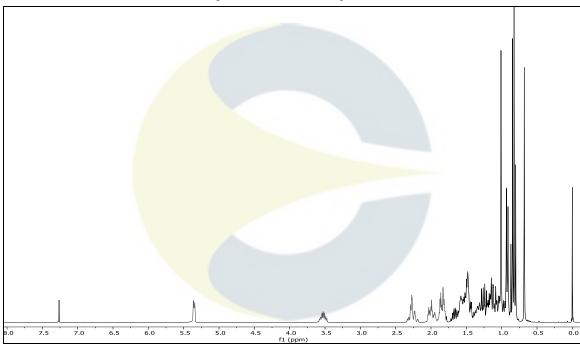




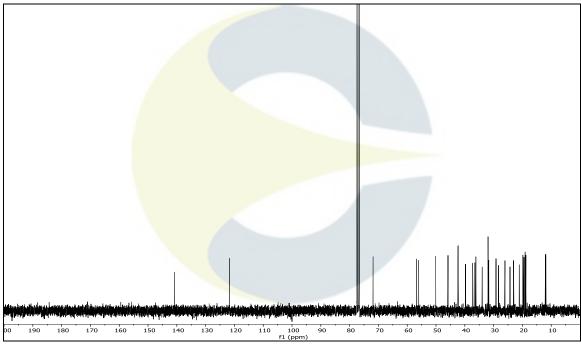
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¹H-NMR SPECTRUM OF BETA-SITOSTEROL (CDXP-20-00181) IN CDCl₃ + TMS



¹³C-NMR SPECTRUM OF BETA-SITOSTEROL (CDXP-20-00181) IN CDCI₃ + TMS





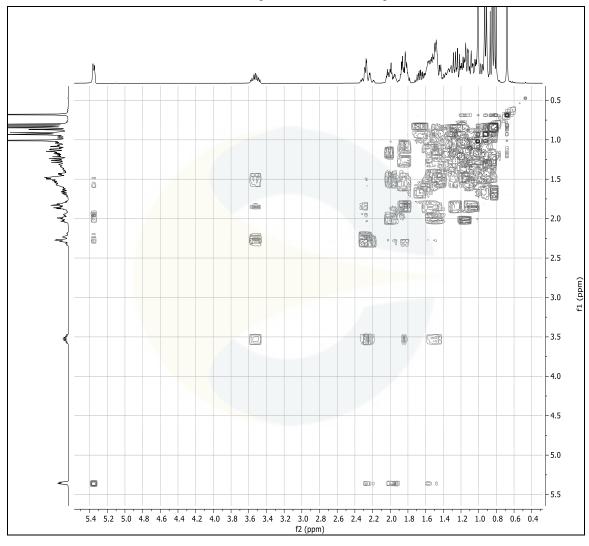




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COSY-NMR SPECTRUM OF BETA-SITOSTEROL (CDXP-20-00181) IN CDCI₃ + TMS



REVISION HISTORY

Revision History	<u>Date of Revision</u>	Document/Changes
00	04/30/2020	New report