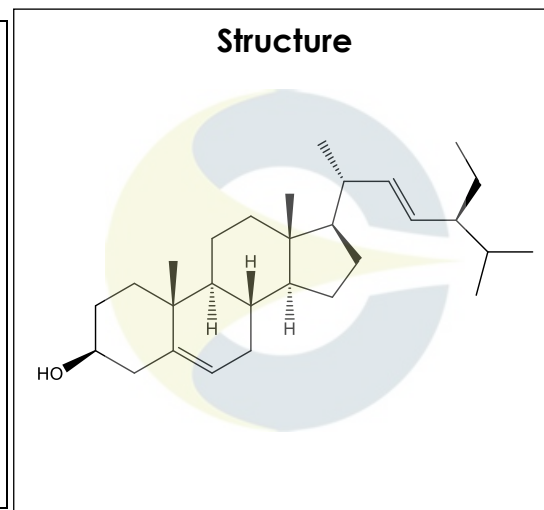


Certificate of Analysis

For Laboratory Use Only

PRODUCT NAME	Stigmasterol
PART NUMBER	00019357
STANDARD TYPE	Primary (P)
LOT NUMBER	00019357-ZDO
REPORT NUMBER	CDXA-RSS-7239-01
SAMPLE NUMBER	CDXA-16-010081
DATE OF SAMPLE	08/05/2016
DATE OF RE-EVALUATION	12/18/2020
DATE OF REPORT	01/11/2021



CHEMICAL NAMES	(24S)-5,22-Stigmastadien-3 β -ol; (3 β ,22E)-Stigmasta-5,22-dien-3-ol; Stigmasterin
CHEMICAL FORMULA	C ₂₉ H ₄₈ O
MOLECULAR WEIGHT (MW)	412.69
CHEMICAL FAMILY	Steroids
CAS NUMBER	[83-48-7]
EC#(EINECS)	201-482-7
RTECS	WJ2447500

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	94.0%
HPLC	0.700.10.2.METH22	≥ 90%	94.0%
NMR	4.5.3-CD-4.0-000338	Conforms to structure	Conforms to structure
Mass Spectrum	99.1-CDXA-2.0-000126	Conforms	Conforms
Residual Solvent	99.1-CD-9.0-000115	NA	Acetone < 0.1%
Water	0.700.12.37	NA	ND
Appearance	NA	NA	White powder

ADJUSTED PURITY: 94.0% IS BASED ON (100 - 0.0 SOLVENTS - 0.0 WATER) X 94.0% HPLC

STORAGE CONDITIONS

STORAGE	Room Temperature in a dry place.
EXPIRATION DATE	12/2025 under the above conditions.

This document is the property of ChromaDex, Inc. and/or its relevant affiliates and contains confidential and proprietary material for the sole use of the intended recipient(s). Any review, use, distribution or disclosure by or to others is strictly prohibited.

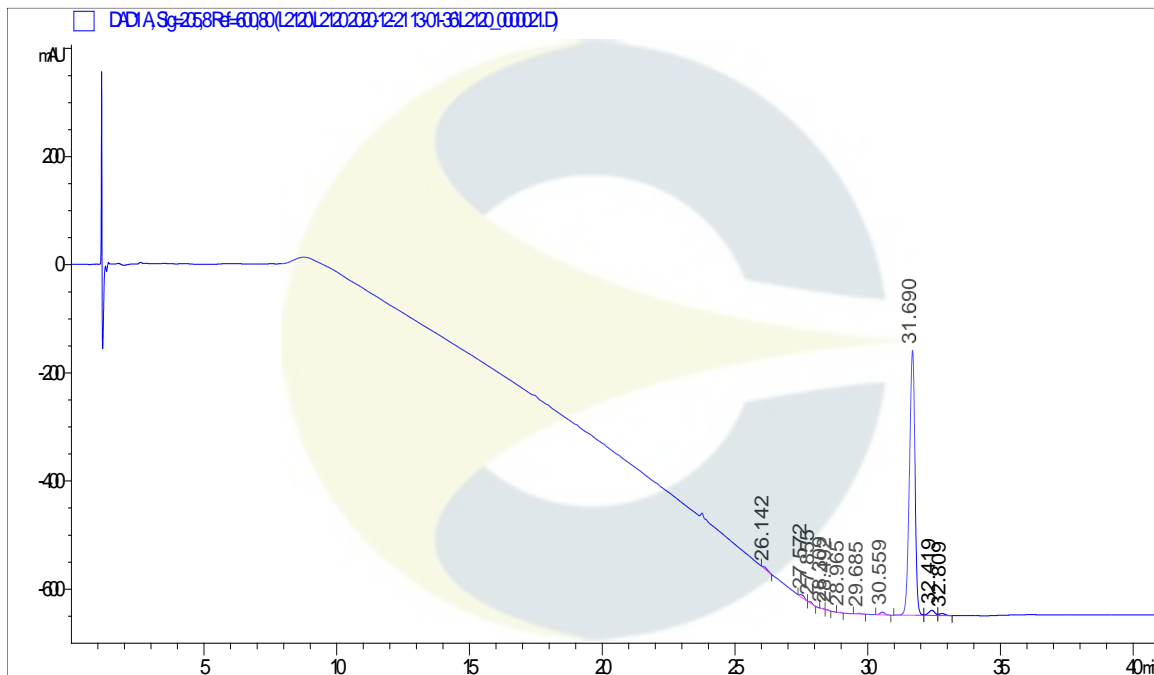
Certificate of Analysis

For Laboratory Use Only

ANALYTICAL CONDITIONS

INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD); AGILENT 1100 ION TRAP
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.	1.0 µL
INJECTION CONC.	4.1 mg/mL in Ethanol
DETECTION	205 ± 4 nm

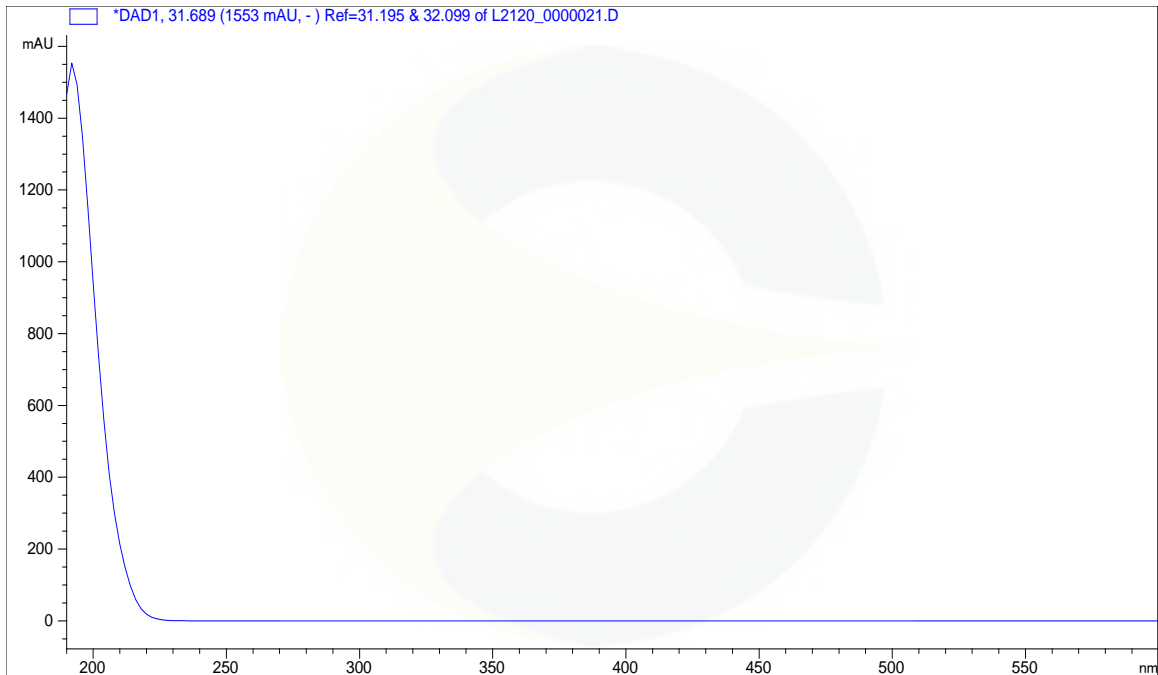
HPLC CHROMATOGRAM OF STIGMASTEROL (CDXA-16-010081)



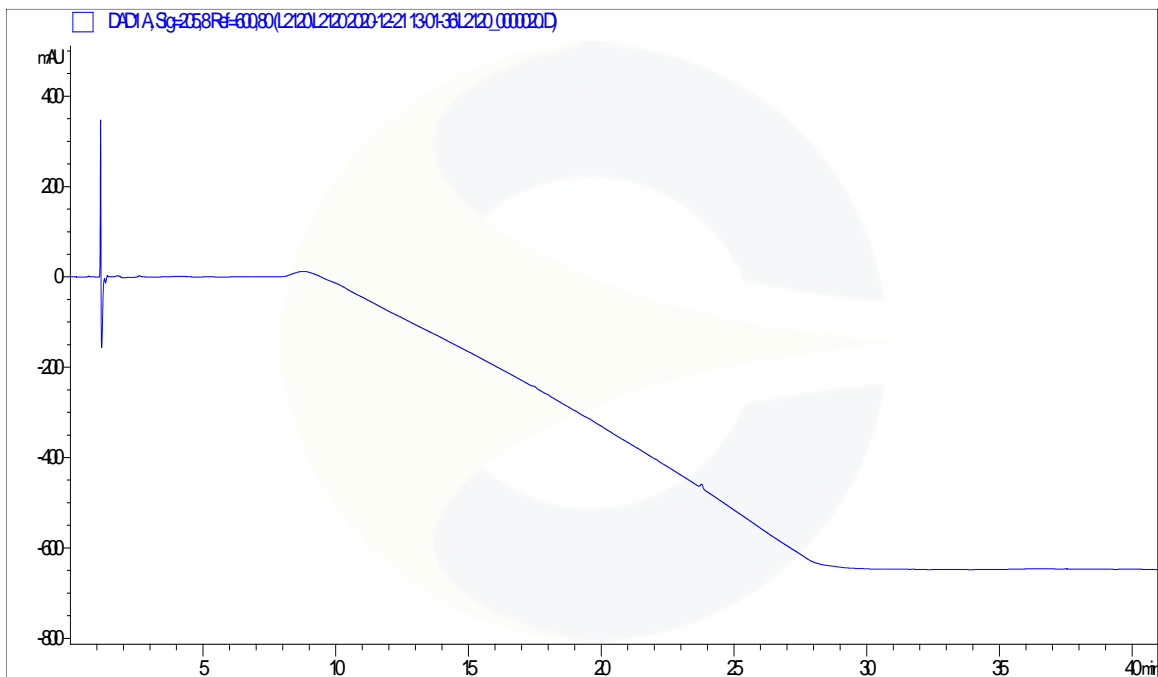
This document is the property of ChromaDex, Inc. and/or its relevant affiliates and contains confidential and proprietary material for the sole use of the intended recipient(s). Any review, use, distribution or disclosure by or to others is strictly prohibited.

Certificate of Analysis For Laboratory Use Only

UV SPECTRUM AT 31.7 MINUTES

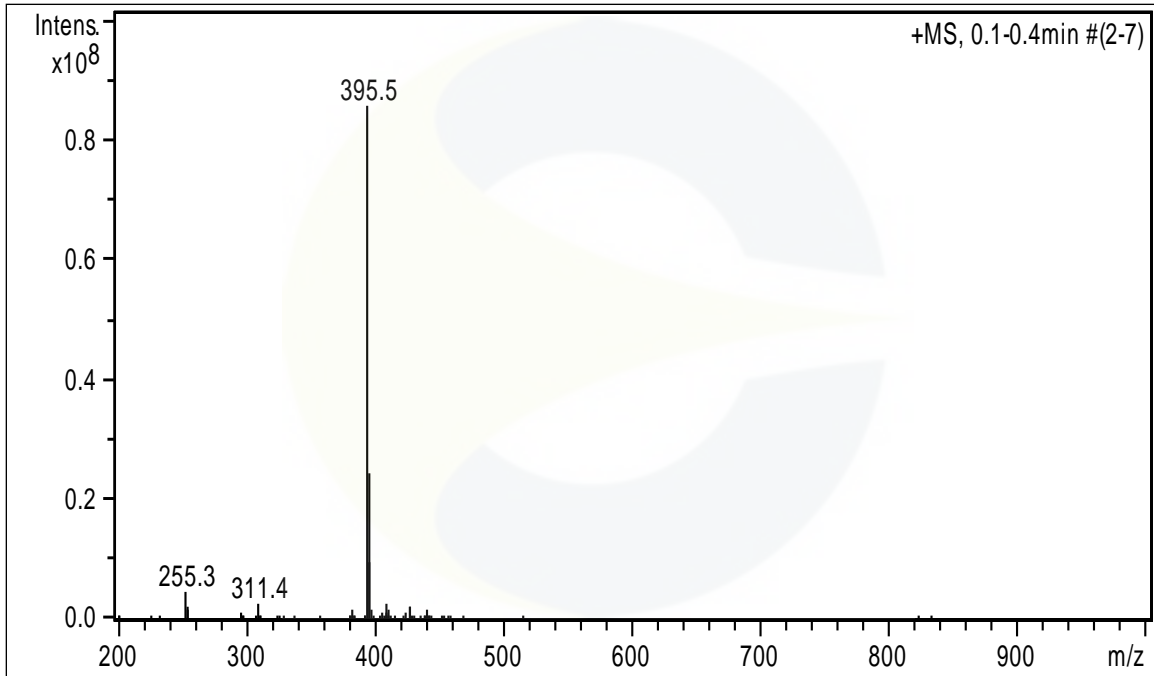


HPLC CHROMATOGRAM OF DILUENT BLANK

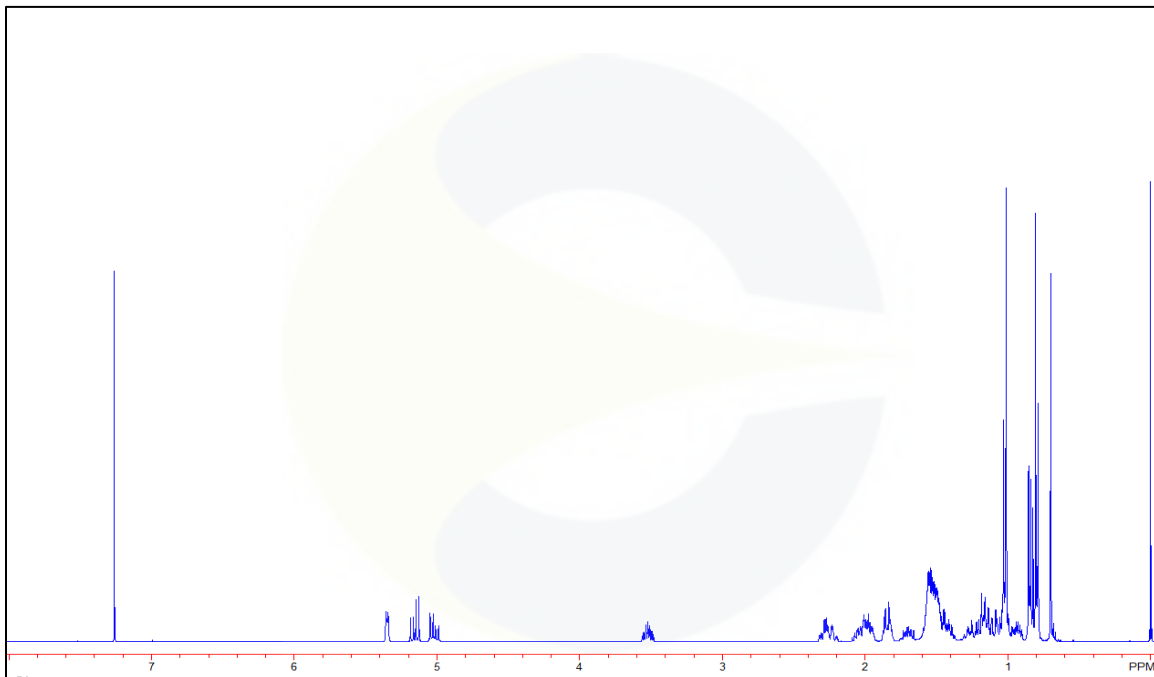


This document is the property of ChromaDex, Inc. and/or its relevant affiliates and contains confidential and proprietary material for the sole use of the intended recipient(s). Any review, use, distribution or disclosure by or to others is strictly prohibited.

MASS SPECTRUM OF STIGMASTEROL (CDXA-16-010081)

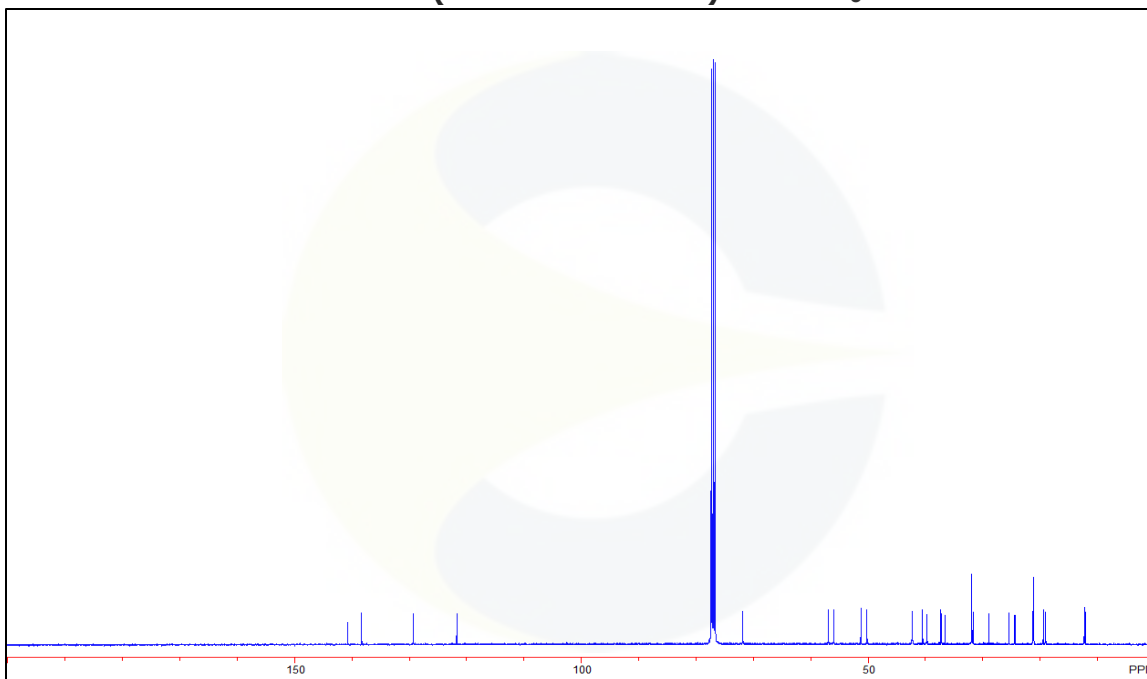


¹H-NMR SPECTRUM OF STIGMASTEROL (CDXA-16-010081) IN CDCl₃

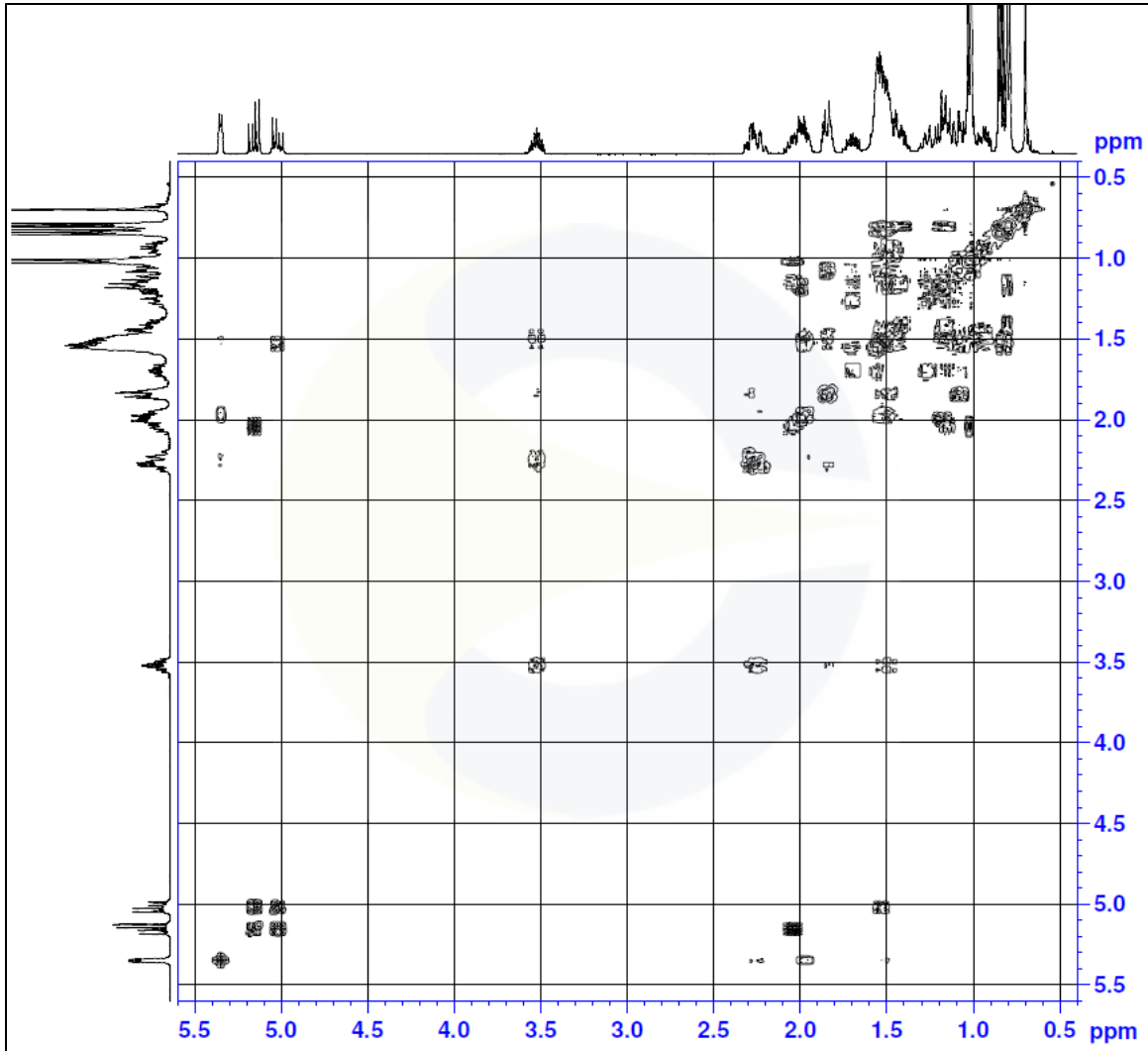


This document is the property of ChromaDex, Inc. and/or its relevant affiliates and contains confidential and proprietary material for the sole use of the intended recipient(s). Any review, use, distribution or disclosure by or to others is strictly prohibited.

¹³C-NMR SPECTRUM OF STIGMASTEROL (CDXA-16-010081) IN CDCl₃



This document is the property of ChromaDex, Inc. and/or its relevant affiliates and contains confidential and proprietary material for the sole use of the intended recipient(s). Any review, use, distribution or disclosure by or to others is strictly prohibited.

Certificate of Analysis
For Laboratory Use Only
COSY-NMR SPECTRUM OF STIGMASTEROL (CDXA-16-010081) IN CDCl₃

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	08/29/2016	New report
01	01/11/2021	Removed melting point. Updated expiration date, analytical results, analytical conditions, and chromatograms.

This document is the property of ChromaDex, Inc. and/or its relevant affiliates and contains confidential and proprietary material for the sole use of the intended recipient(s). Any review, use, distribution or disclosure by or to others is strictly prohibited.