



American Herbal Pharmacopoeia®

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PRODUCT NAME	beta-Sitosterol-3-O-glucoside	Structure	
PART NUMBER	00019291		
STANDARD TYPE	Primary (P) – AHP Verified*		
LOT NUMBER	00019291-0001		
REPORT NUMBER	CDXA-RSS-4815-03	OH H	
SAMPLE NUMBER	CDXA-12-0001		
DATE OF SAMPLE	01/02/2012	НО ОН	
DATE OF RE-EVALUATION	07/21/2016 (1st); 07/08/2020 (2nd)		
DATE OF REPORT	08/17/2020		
CHEMICAL NAMES	(3β)-Stigmast-5-en-3-yl β-D-glucopyran	oside; Daucosterol	
CHEMICAL FORMULA	$C_{35}H_{60}O_{6}$		
MOLECULAR WEIGHT (MW)	576.85		
CHEMICAL FAMILY	Phytosterols		
CAS NUMBER	[474-58-8]		

EC#(EINECS) N/A RTECS WJ2508000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	NA	97.1%
HPLC	0.700.10.2.METH22	NA	99.9%
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-5.0-000115	NA	Methanol – 0.4%
Water	0.700.12.37	NA	2.4%
Appearance	NA	NA	White to off-white powder

97.1% IS BASED ON (100 - 2.4 WATER - 0.4 SOLVENTS) X 99.9% HPLC ADJUSTED PURITY:

STORAGE CONDITIONS

+4 °C in a dry place. **STORAGE**

EXPIRATION DATE

07/2025 under the above conditions.







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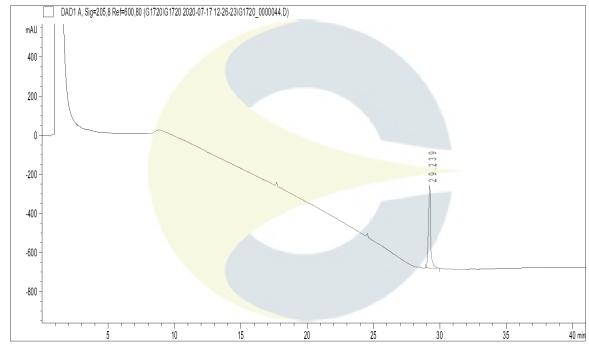
*AMERICAN HERBAL PHARMACOPOEIATM BOTANICAL AND CHEMICAL REFERENCE STANDARD VERIFICATION PROGRAM AVAILABLE THROUGH CHROMADEX

American Herbal PharmacopoeiaTM botanical reference standards are now available. Each American Herbal Pharmacopoeia VerifiedTM chemical reference is subjected to independent verification for identity and level of purity by American Herbal Pharmacopoeia VerifiedTM collaborating laboratories. The corresponding data package is similarly archived at the American Herbal Pharmacopoeia VerifiedTM. Corresponding certificates of analyses are available through the authorized licensees of American Herbal Pharmacopoeia VerifiedTM standards.

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 Milli-Q 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.	5.0 µL	
INJECTION CONC.	1.1 mg/mL in Dimethyl sulfoxide : Methanol (1:1)	
DETECTION	205 ± 4 nm	

HPLC CHROMATOGRAM OF BETA-SITOSTEROL-3-O-GLUCOSIDE (CDXA-12-0001)







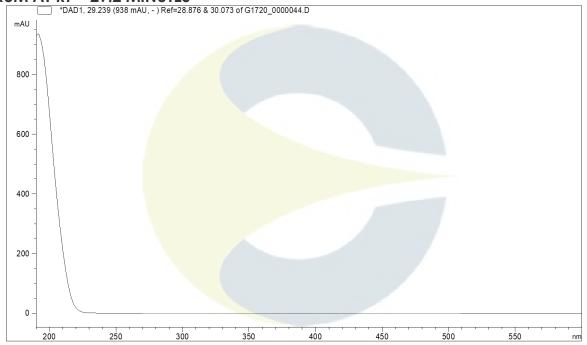
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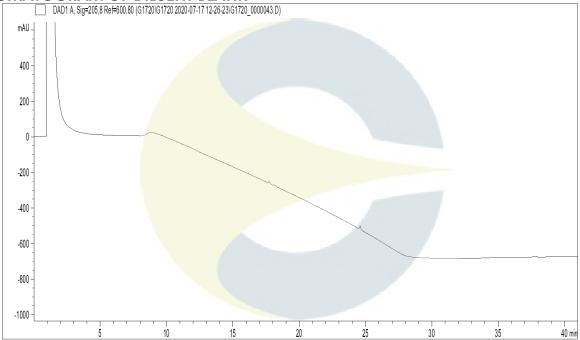
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UV SPECTRUM AT RT = 29.2 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK





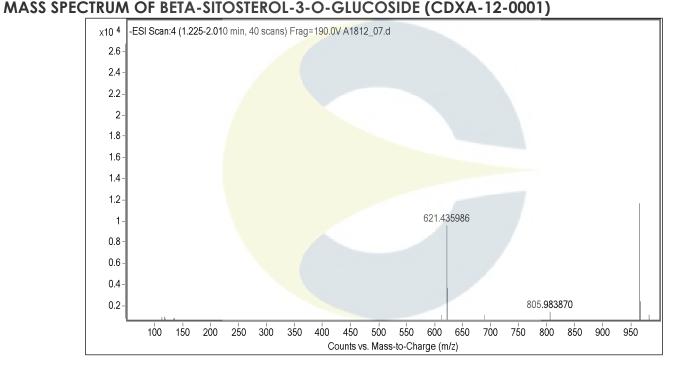


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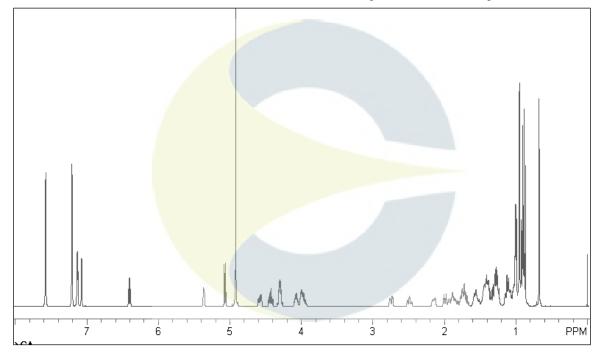


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¹H-NMR SPECTRUM OF BETA-SITOSTEROL-3-O-GLUCOSIDE (CDXA-12-0001) IN PYRIDINE-d₅





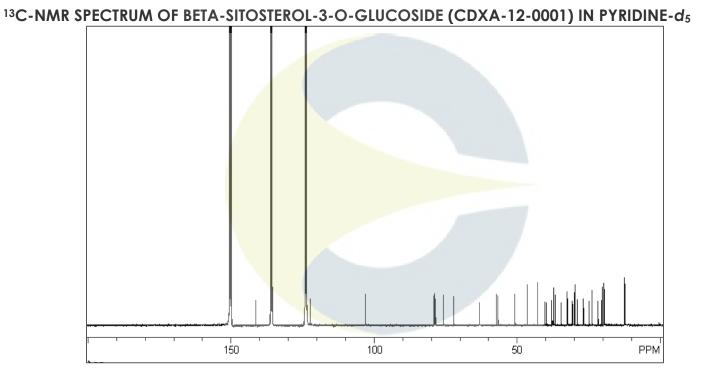




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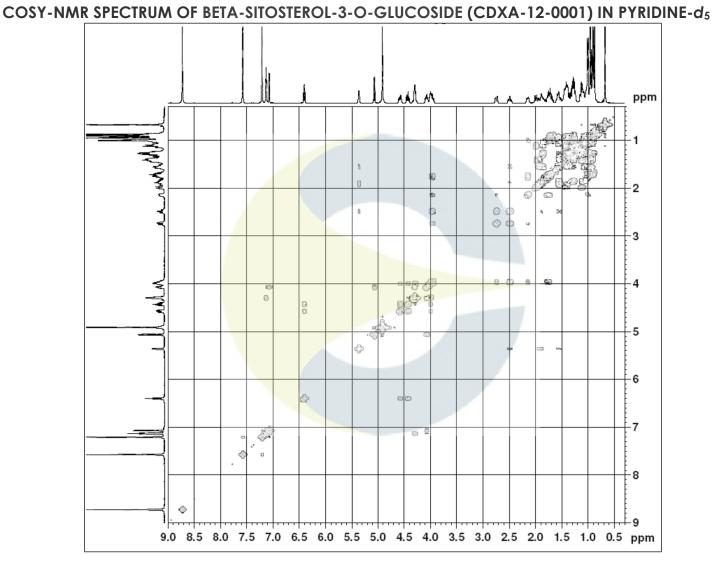


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REVISION HISTORY

<u>Revision History</u>	Date of Revision	Document/Changes
00	01/18/2012	New report
01	08/19/2014	Updated product grade to AHP
02	08/30/2016	Passed re-evaluation by HPLC, KF. Updated expiration date, chemical structure, and RTECS number.
03	08/17/2020	Passed second re-evaluation by HPLC, KF. Updated expiration date, chromatograms, structure, analytical results, conditions. Removed melting point.

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