





Certificate of Analysis

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PRODUCT NAME Soyasapogenol B

PART NUMBER 00019340

STANDARD TYPE Primary (P)

LOT NUMBER 00019340-34B

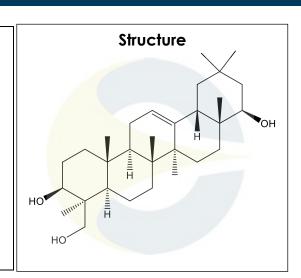
REPORT NUMBER CDXA-RSS-3319-02

SAMPLE NUMBER CDXA-09-0381

DATE OF SAMPLE 01/26/2009

DATE OF RE-EVALUATION 07/16/2013 (1st); 08/15/2018(2nd)

DATE OF REPORT 09/21/2018



CHEMICAL NAMES (3β,4β,22β)-Olean-12-ene-3,22,23-triol; Soyasapogenol I

CHEMICAL FORMULA C₃₀H₅₀O₃

MOLECULAR WEIGHT (MW) 458.72

CHEMICAL FAMILY Saponins

CAS NUMBER [595-15-3]

EC#(EINECS) NA

RTECS RK0177569

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	NA	94.1%
HPLC	99.1-04-1.0-000684	NA	96.1%
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-2.0-000115	NA	MeOH - 1.0%
Water	99.1-04-9.0-000094	NA	1.1%
Appearance	NA	NA	White powder

ADJUSTED PURITY: 94.1% IS BASED ON (100 - 1.1 WATER - 1.0 SOLVENTS) X 96.1% HPLC

STORAGE CONDITIONS

STORAGE +4 °C in a dry place.

EXPIRATION DATE 08/2023 under the above conditions.







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ANALYTICAL CONDITIONS

INSTRUMENT AGILENT 1260 HPLC UV-VIS (DAD); FINNIGAN LCQ-DECA

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

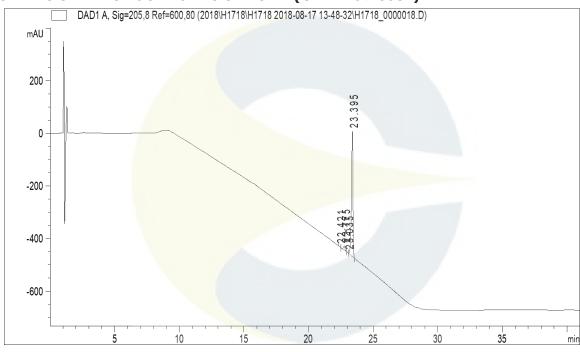
FLOW RATE 0.4 mL/minute

INJECTION VOL. 2.0 µL

INJECTION CONC. 1.0 mg/mL in Methanol

DETECTION $205 \pm 4 \text{ nm}$

HPLC CHROMATOGRAM OF SOYASAPOGENOL B (CDXA-09-0381)





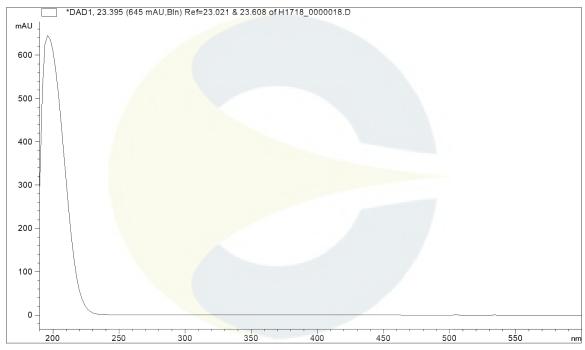




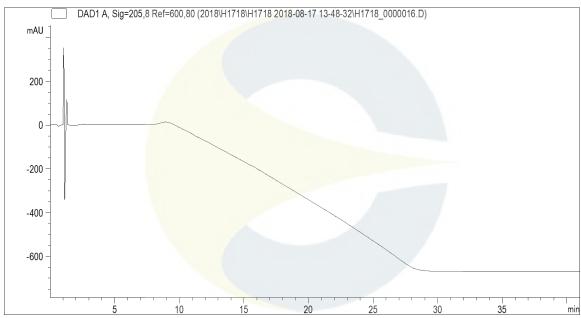
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UV SPECTRUM AT RT = 23.4 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK





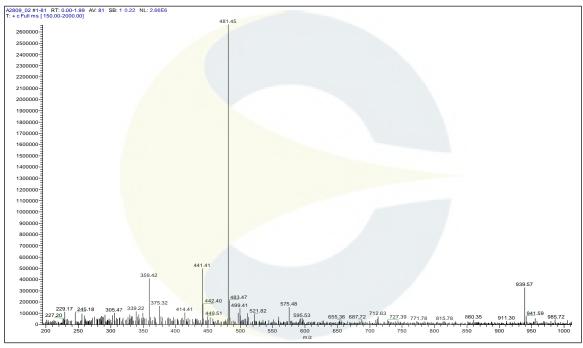




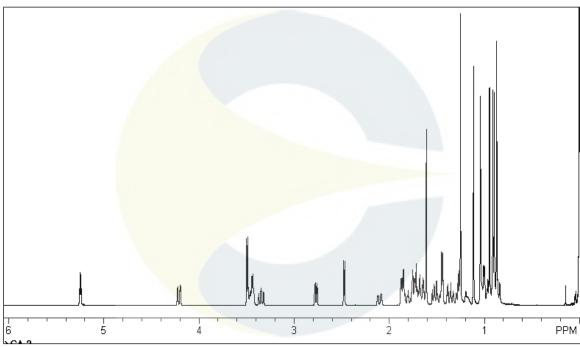
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MASS SPECTRUM OF SOYASAPOGENOL B (CDXA-09-0381)



¹H-NMR SPECTRUM OF SOYASAPOGENOL B (CDXA-09-0381) IN CDCl₃









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REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	02/09/2009	New report
01	08/01/2013	Material passed re-evaluation. Updated expiration and melting point
02	09/21/2018	Material passed reevaluation by HPLC and KF. Updated Analytical conditions, analytical results, chromatograms, and expiration date. Added RTECS. Removed melting point.