





Certificate of Analysis

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PRODUCT NAME Rubusoside

PART NUMBER 00018412

STANDARD TYPE Primary (P)

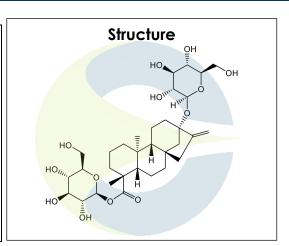
LOT NUMBER 00018412-01B

REPORT NUMBER CDXA-RSS-9742-00

SAMPLE NUMBER CDXP-22-00236

DATE OF SAMPLE 03/15/2022

DATE OF REPORT 04/21/2022



CHEMICAL NAMES (4α) - β -D-glucopyranosyl ester 13- $(\beta$ -D-Glucopyranosyloxy)-kaur-16-en-18-oic-

acid

CHEMICAL FORMULA C32H50O13

MOLECULAR WEIGHT (MW) 642.73

CHEMICAL FAMILY Diterpene glycosides

CAS NUMBER [64849-39-4]

EC#(EINECS) NA

RTECS NZ8175400

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	98.0%
HPLC	0.700.10.2.METH86	≥ 90%	99.5%
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	1.5%
Appearance	NA	NA	White powder

*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 98.0% IS BASED ON (100 - 0.0 SOLVENTS - 1.5 WATER) X 99.5% HPLC

STORAGE CONDITIONS

STORAGE -20 °C in a dry place.

EXPIRATION DATE 03/2027 under the above conditions.







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ANALYTICAL CONDITIONS

INSTRUMENT AGILENT 1260 HPLC UV-VIS (DAD); AB-SCIEX 6600 TRIPLE TOF

COLUMN Phenomenex Synergi Hydro-RP 250 x 4.6 mm, 4 µm particle size

MOBILE PHASE A - Milli-Q water, B - Acetonitrile;

Isocratic 20% B for 5 minutes, then increasing to 30% B over 10 minutes, then increasing to 35% B over 15 minutes, then increasing to 80% B over 10 minutes,

then increasing to 90% B over 5 minutes. Hold at 90% B for 5 minutes.

COLUMN TEMP. 60 °C

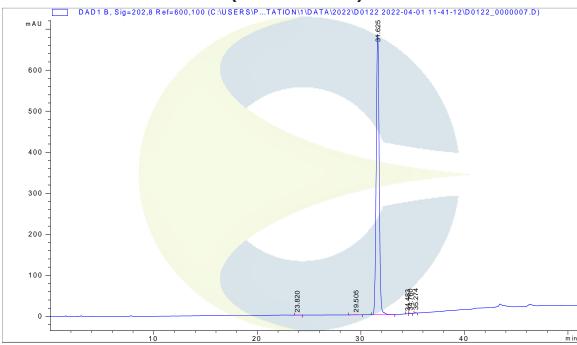
FLOW RATE 1.0 mL/minute

INJECTION VOL. 20.0 μL

INJECTION CONC. 1.0 mg/mL in Ultrapure Water:Acetonitrile (7:3)

DETECTION $202 \pm 4 \text{ nm}$

HPLC CHROMATOGRAM OF RUBUSOSIDE (CDXP-22-00236)





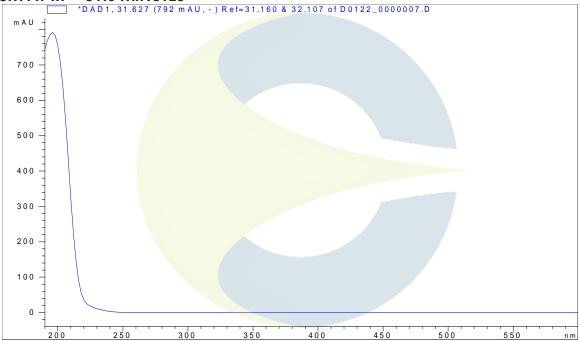




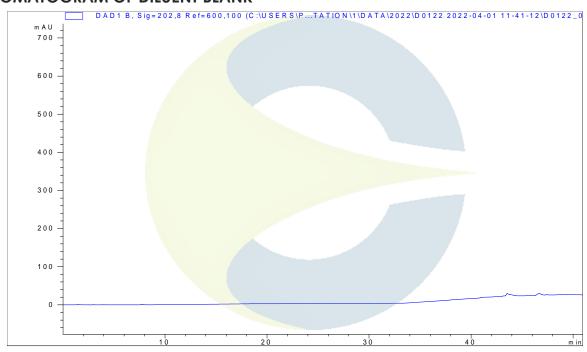
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UV SPECTRUM AT RT = 31.6 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK



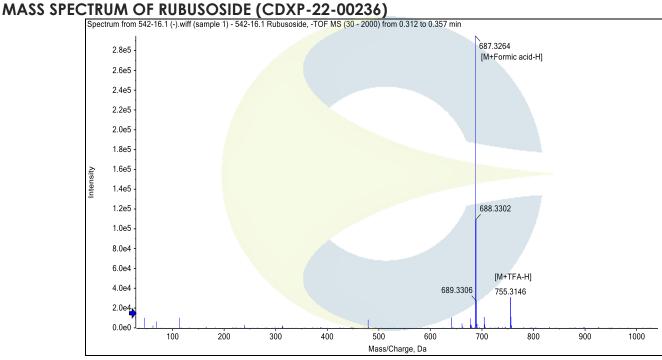




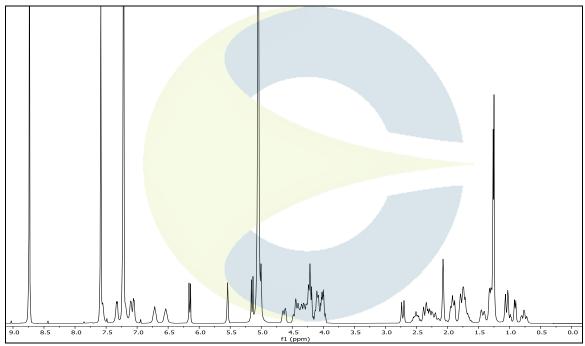


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¹H-NMR SPECTRUM OF RUBUSOSIDE (CDXP-22-00236) IN PYRIDINE-d₅



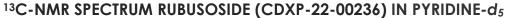


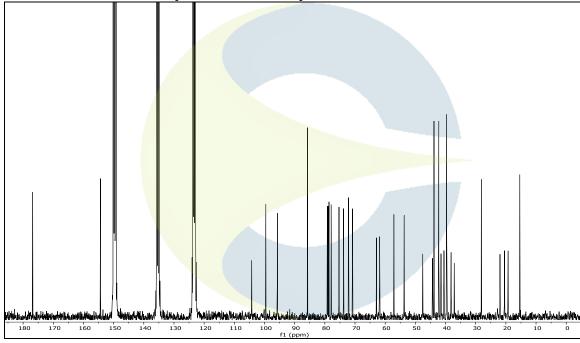




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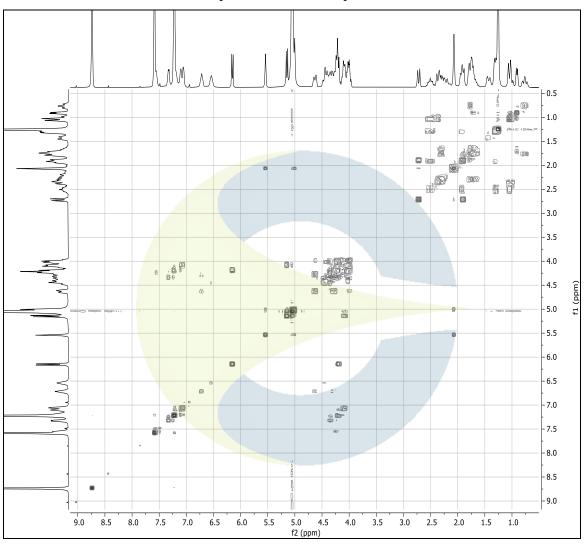




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COSY-NMR SPECTRUM OF RUBUSOSIDE (CDXP-22-00236) IN PYRIDINE-d5



REVISION HISTORY

Revision History <u>Date of Revision</u> <u>Document/Changes</u>

00 04/21/2022 New report