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PRODUCT NAME	Saikosaponin A	Structure	
PART NUMBER	00019010		
STANDARD TYPE	Primary (P)	\sim	
LOT NUMBER	00019010-123	ОН	
REPORT NUMBER	CDXA-RSS-6211-01	HO(IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	
SAMPLE NUMBER	CDXA-14-5196		
DATE OF SAMPLE	08/19/2014		
DATE OF RE-EVALUATION	03/05/2019		
DATE OF REPORT	03/28/2019		
CHEMICAL NAMES	(3β,4α,16β)-13,28-Epoxy-16,23-dihydrox glucopyranosyl-β-D-galactopyranoside		
CHEMICAL FORMULA	C ₄₂ H ₆₈ O ₁₃		
MOLECULAR WEIGHT (MW)	780.99		
CHEMICAL FAMILY	Saponins		
CAS NUMBER	[20736-09-8]		
EC#(EINECS)	NA		
RTECS	LW5440153		

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	NA	93.6%
HPLC	99.1-04-1.0-00684	NA	98.9%
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-7.0-000115	NA	MeOH – 0.6%
Water	99.1-04-10.0-000094	NA	4.8%
Appearance	NA	NA	White powder

93.6% IS BASED ON (100 - 0.6 SOLVENTS - 4.8 WATER) X 98.9% HPLC ADJUSTED PURITY:

STORAGE CONDITIONS

STORAGE +4 °C in a dry place.

EXPIRATION DATE

03/2024 under the above conditions.

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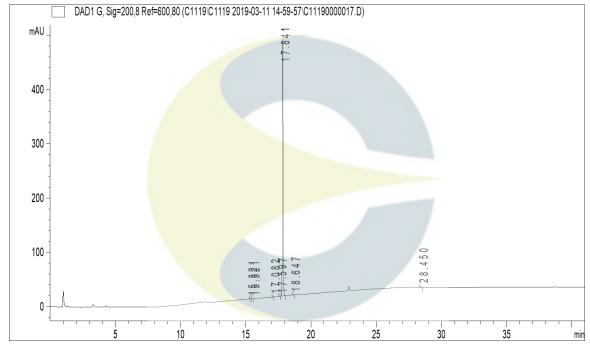
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ANALYTICAL CONDITIONS

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 - 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.	0° C0	
FLOW RATE	0.4 mL/minute	
INJECTION VOL.	1.0 μL	
INJECTION CONC.	1.4 mg/mL in Methanol	
DETECTION	200 ± 4 nm	

HPLC CHROMATOGRAM OF SAIKOSAPONIN A (CDXA-14-5196)



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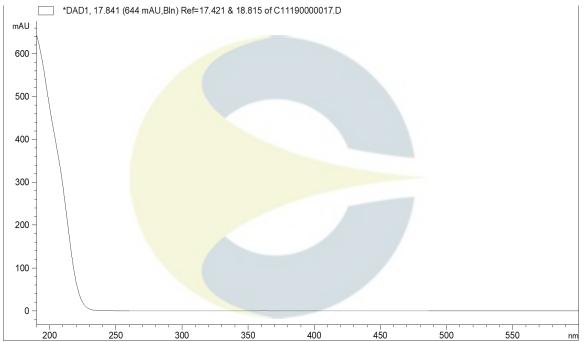




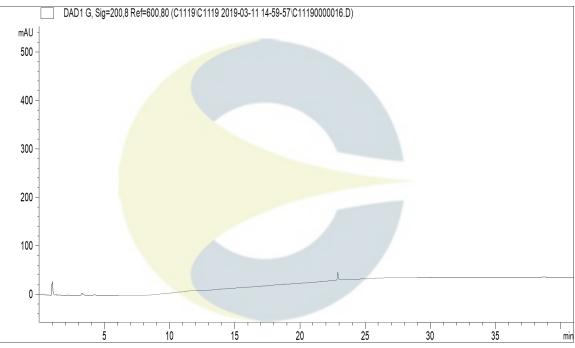
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UV SPECTRUM AT RT = 17.8 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK



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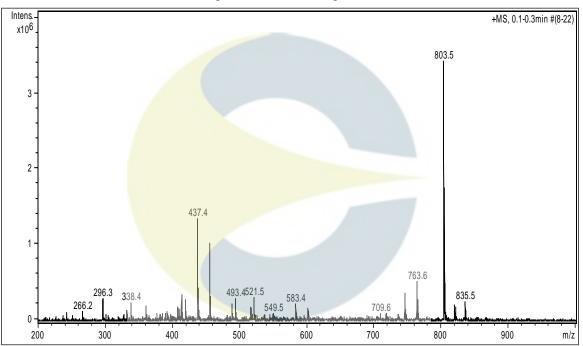




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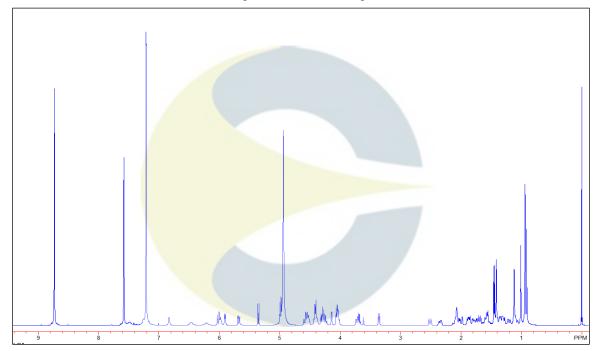
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MASS SPECTRUM OF SAIKOSAPONIN A (CDXA-14-5196)

¹H-NMR SPECTRUM OF SAIKOSAPONIN A (CDXA-14-5196) IN PYRIDINE-d₅



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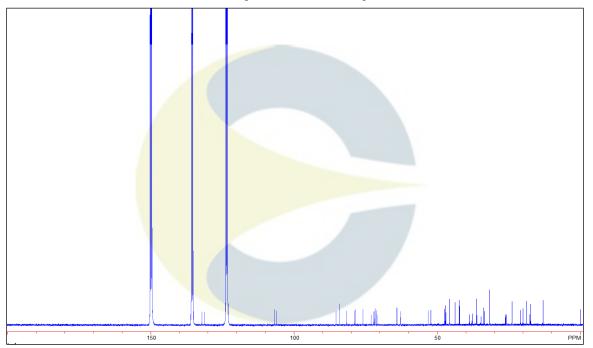


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¹³C-NMR SPECTRUM OF SAIKOSAPONIN A (CDXA-14-5196) IN PYRIDINE-d₅



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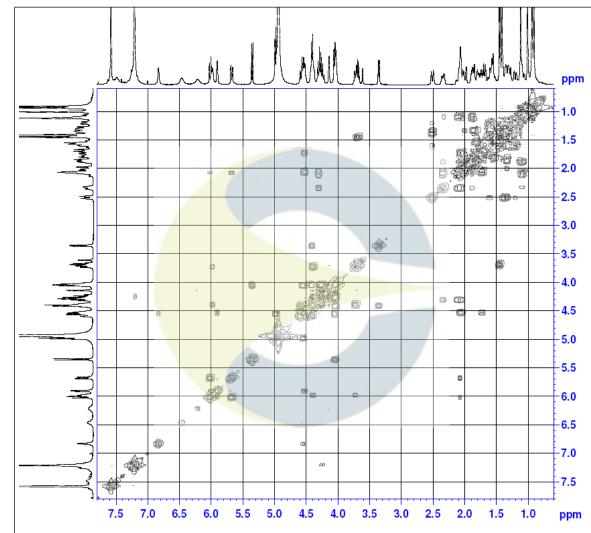




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COSY-NMR SPECTRUM OF SAIKOSAPONIN A (CDXA-14-5196) IN PYRIDINE-d5

REVISION HISTORY

<u>Revision History</u>	Date of Revision	Document/Changes
00	08/28/2014	New report
01	03/28/2019	Passed re-evaluation by HPLC, KF. Updated expiration date analytical method, conditions, chromatograms, and results. Removed melting point and added RTECS number.

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