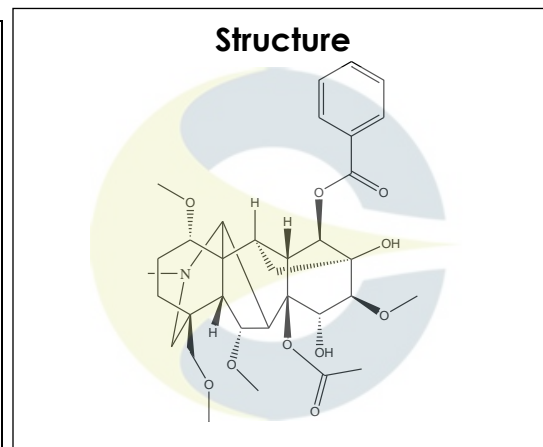


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PRODUCT NAME	Hypaconitine
PART NUMBER	00008900
STANDARD TYPE	Primary (P)
LOT NUMBER	0008900-00855
REPORT NUMBER	CDXA-RSS-9612-00
SAMPLE NUMBER	CDXP-21-00855
DATE OF SAMPLE	12/7/2021
DATE OF REPORT	01/04/2022



CHEMICAL NAMES	(1 α ,6 α ,14 α ,15 α ,16 β)-1,6,16-Trimethoxy-4-(methoxymethyl)-20-methyl-8-acetate 14-benzoate aconitane-8,13,14,15-tetrol
CHEMICAL FORMULA	C ₃₃ H ₄₅ NO ₁₀
MOLECULAR WEIGHT (MW)	615.71
CHEMICAL FAMILY	Alkaloids
CAS NUMBER	[6900-87-4]
EC#(EINECS)	683-141-6
RTECS	AR5565000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	NA	86.2%
HPLC	0.700.10.2.METH22	NA	86.2%
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-10.0-000115	NA	ND
Water	0.700.12.37	NA	ND
Appearance	NA	NA	White powder

ADJUSTED PURITY: 86.2% IS BASED ON (100 - 0.0 SOLVENTS - 0.0 WATER) X 86.2% HPLC

STORAGE CONDITIONS

STORAGE	+4 °C in a dry place.
EXPIRATION DATE	12/2026 under the above conditions.

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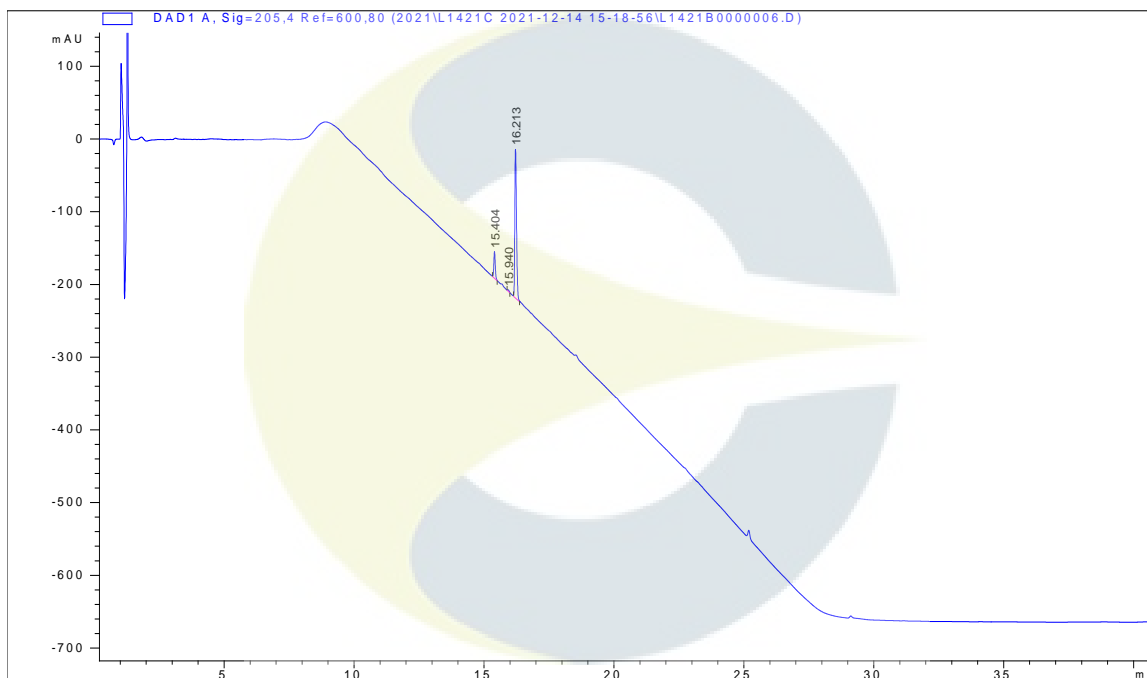
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ANALYTICAL CONDITIONS

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 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, then decreasing to 5% B over 1 minute.
COLUMN TEMP.	60 °C
FLOW RATE	0.4 mL/minute
INJECTION VOL.	0.5 µL
INJECTION CONC.	1.0 mg/mL in Methanol
DETECTION	205 ± 4 nm

HPLC CHROMATOGRAM OF HYPACONITINE (CDXP-21-00855)

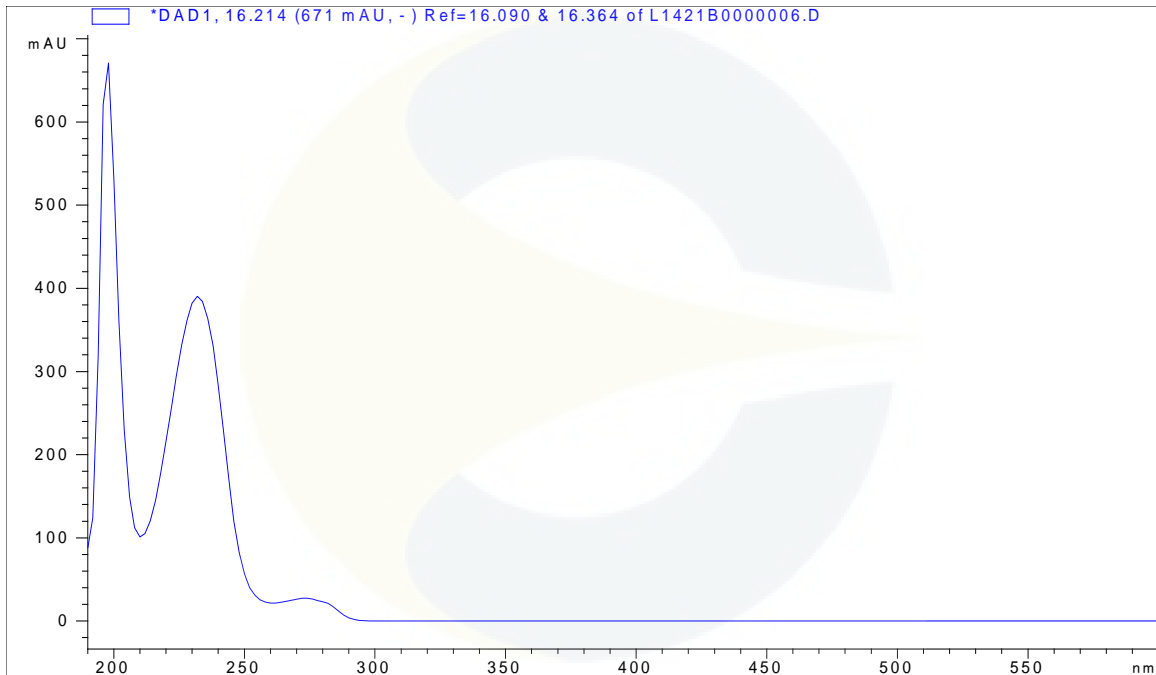


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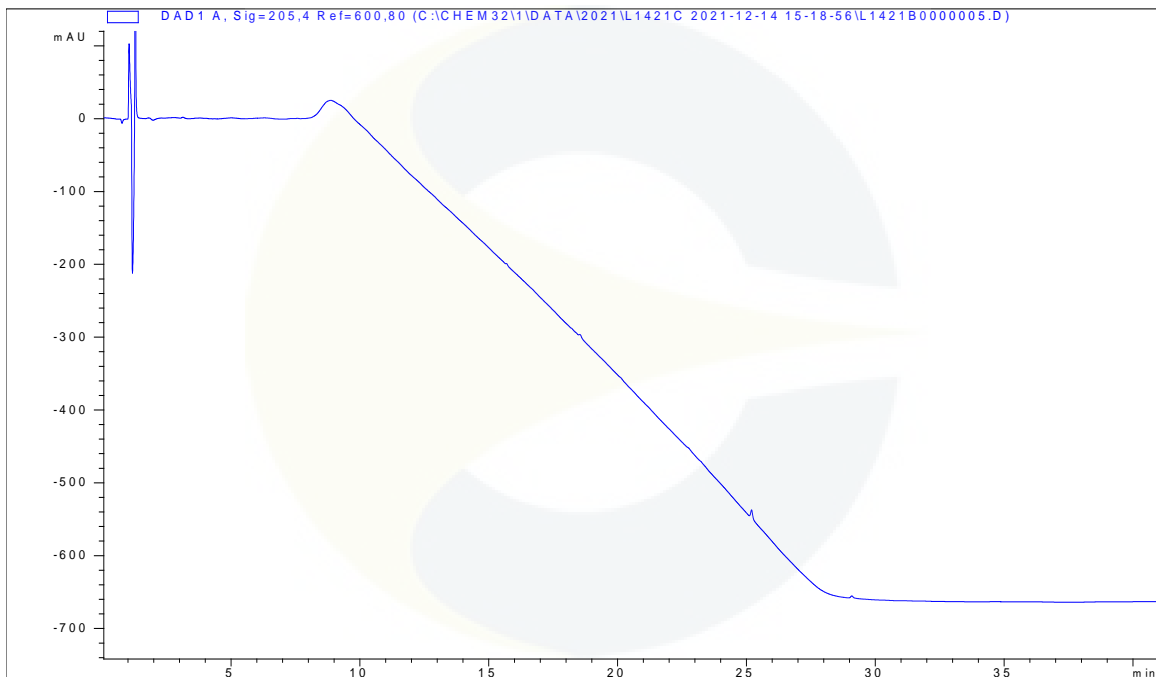
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UV SPECTRUM AT RT = 16.2 MINUTES



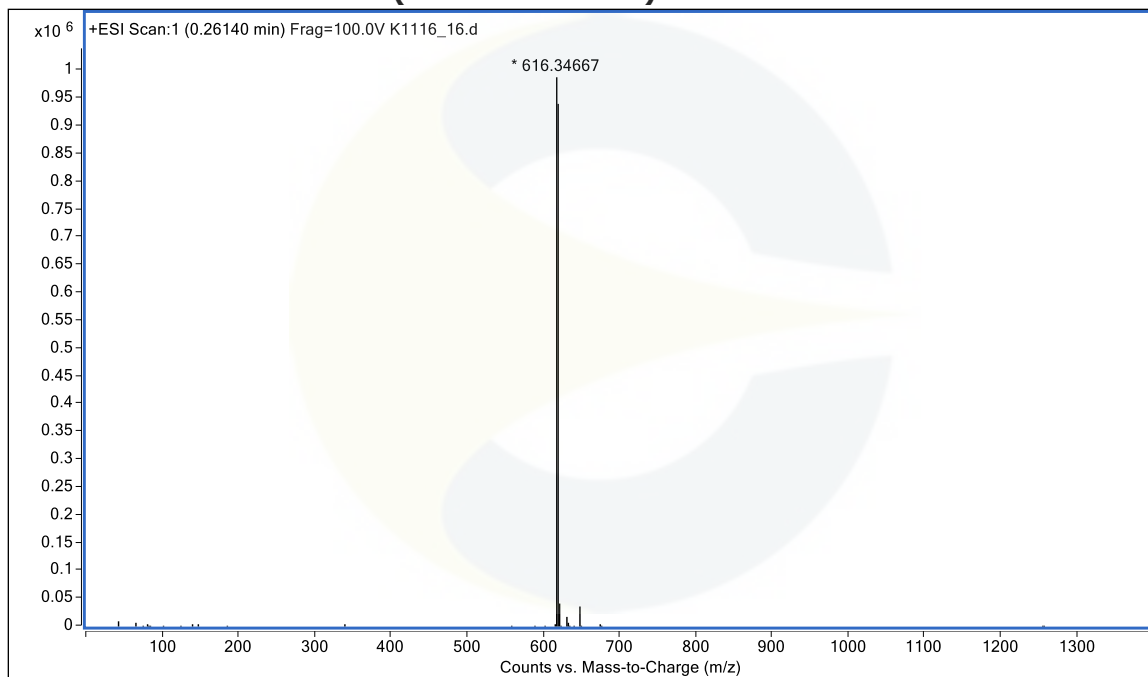
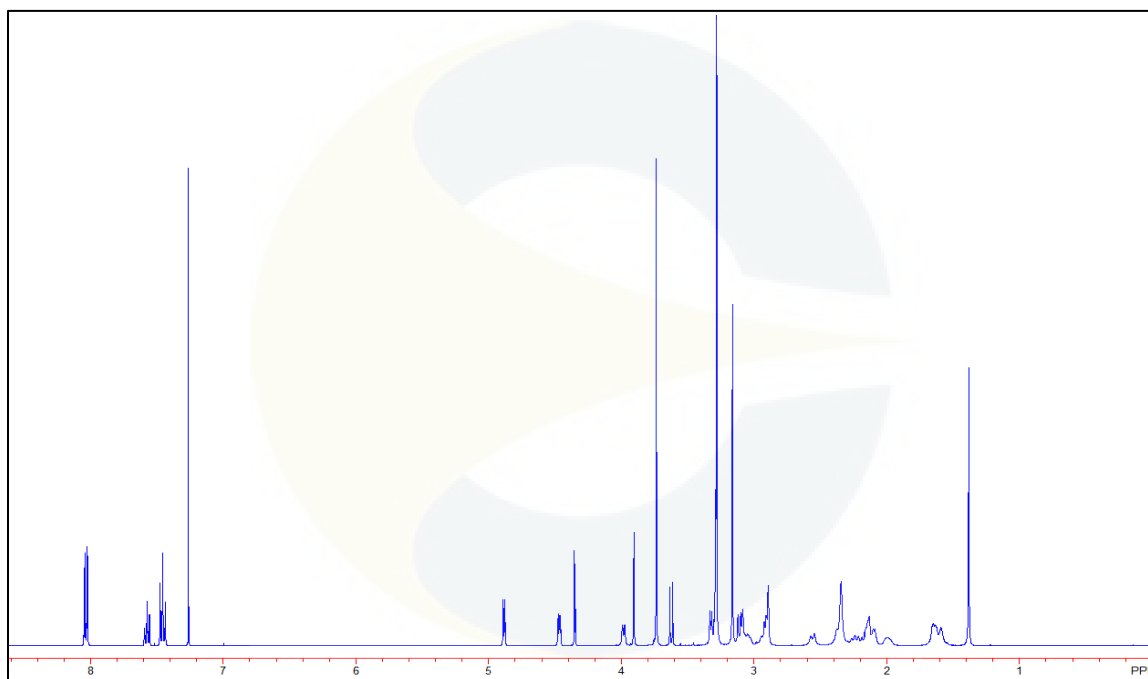
HPLC CHROMATOGRAM OF DILUENT BLANK



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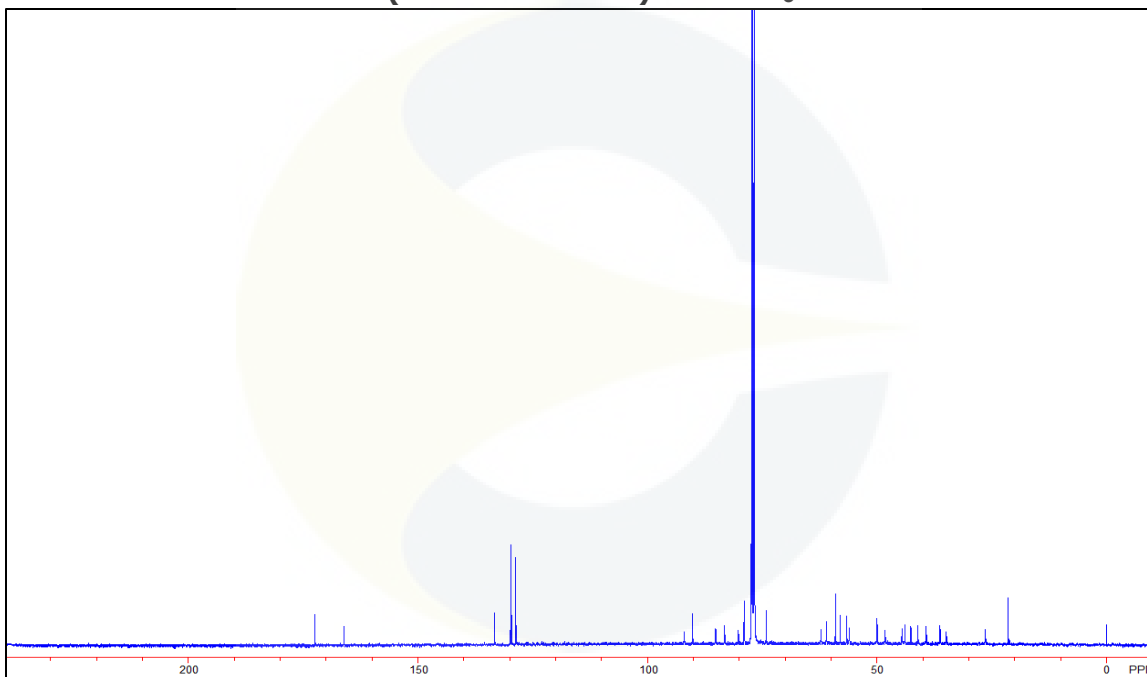
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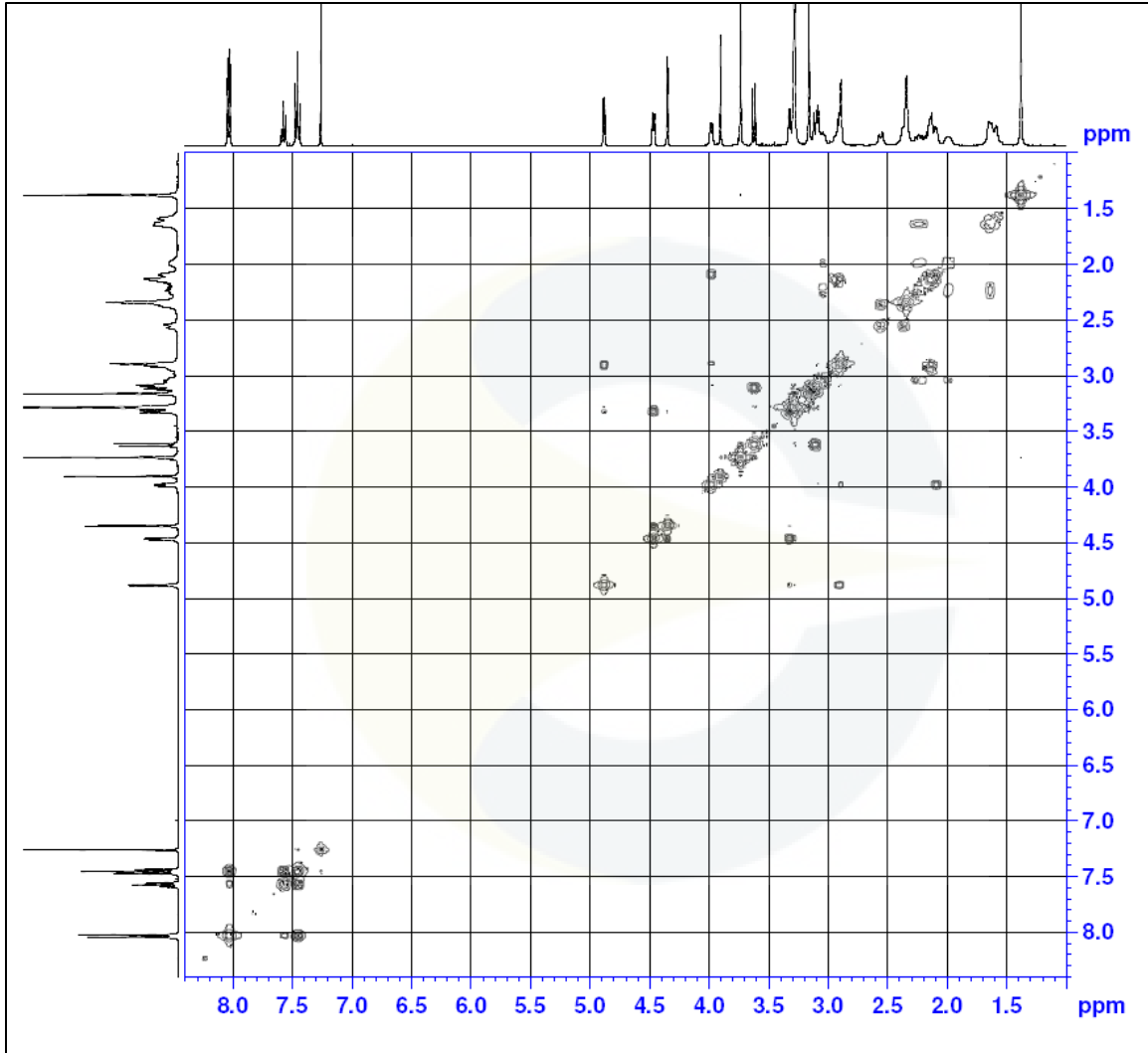
MASS SPECTRUM OF HYPACONITINE (CDXP-21-00855)**¹H-NMR SPECTRUM OF HYPACONITINE (CDXP-21-00855) IN CDCl₃**

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¹³C-NMR SPECTRUM HYPACONITINE (CDXP-21-00855) IN CDCl₃



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COSY-NMR SPECTRUM OF HYPACONITINE (CDXP-21-00855) IN CDCl₃

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	01/04/2022	New report

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