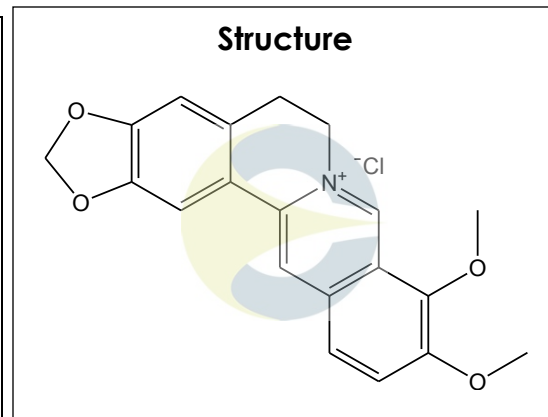


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PRODUCT NAME	Berberine Chloride
PART NUMBER	00002200
STANDARD TYPE	Analytical Standard (AS)
LOT NUMBER	00002200-7PI
REPORT NUMBER	CDXA-RSS-8787-00
SAMPLE NUMBER	CDXP-19-00786
DATE OF SAMPLE	01/03/2020
DATE OF REPORT	02/11/2020



CHEMICAL NAMES	7,8,13,13a-Tetrahydro-9,10-dimethoxy-2,3-(methylenedioxy)-berbinium chloride; Berberinium chloride; Berberine hydrochloride
CHEMICAL FORMULA	C ₂₀ H ₁₈ NO ₄ Cl
MOLECULAR WEIGHT (MW)	371.81
CHEMICAL FAMILY	Alkaloids
CAS NUMBER	[633-65-8]
EC#(EINECS)	211-195-9
RTECS	DR9866400

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
HPLC	0.700.10.2.METH22	NA	98.5%
Mass Spectrum	0.700.12.27	Conforms	Conforms
Appearance	NA	NA	Yellow powder

STORAGE CONDITIONS

STORAGE	Room Temperature in a dry place.
EXPIRATION DATE	01/2025 under the above conditions.

Matthew Thibault Digitally signed by
 Quality Assurance Product Safety Specialist I
 Designee of QA Management
 Date: 2020.02.11 15:37:23 -07'00'

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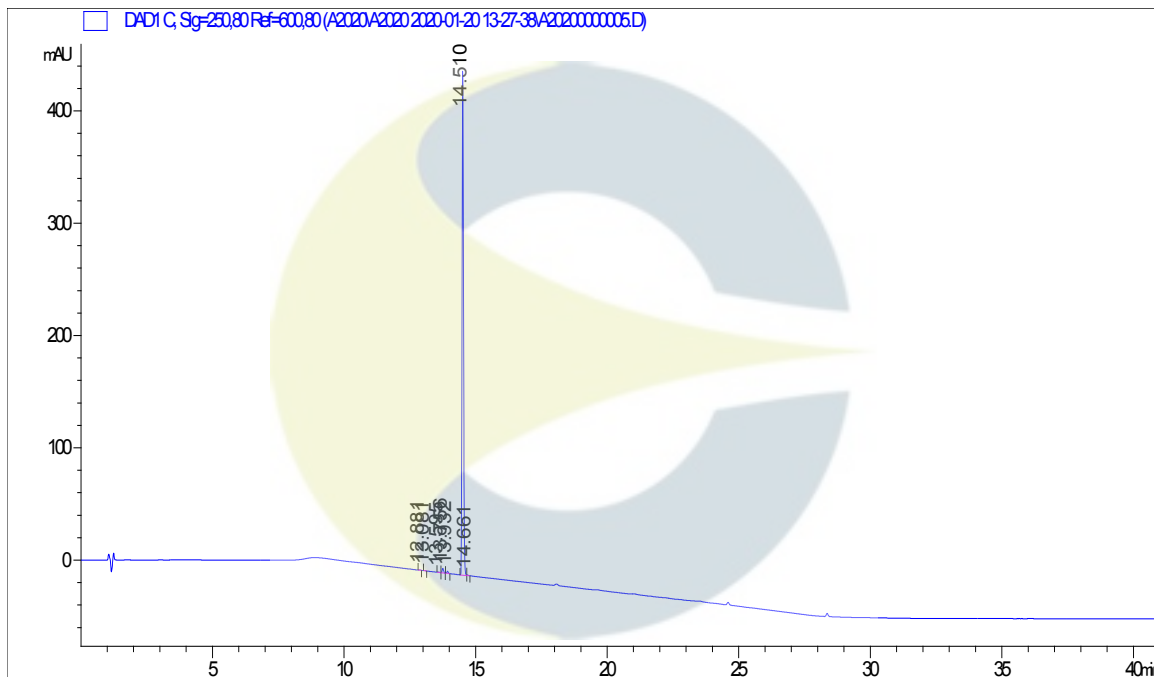
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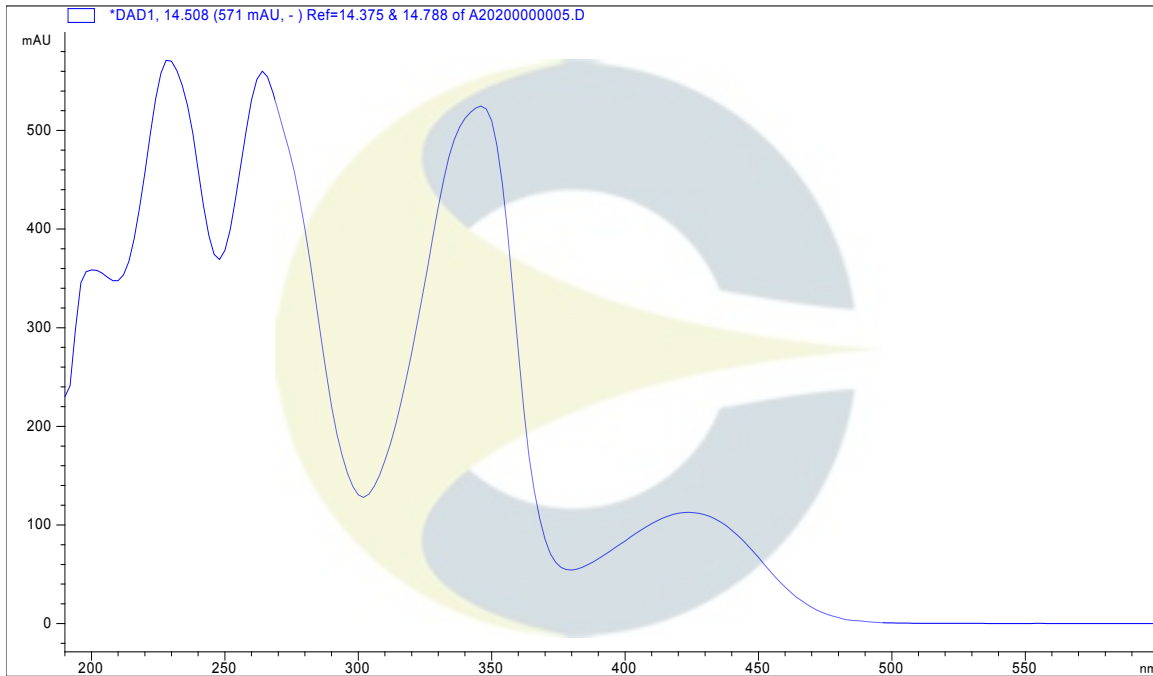
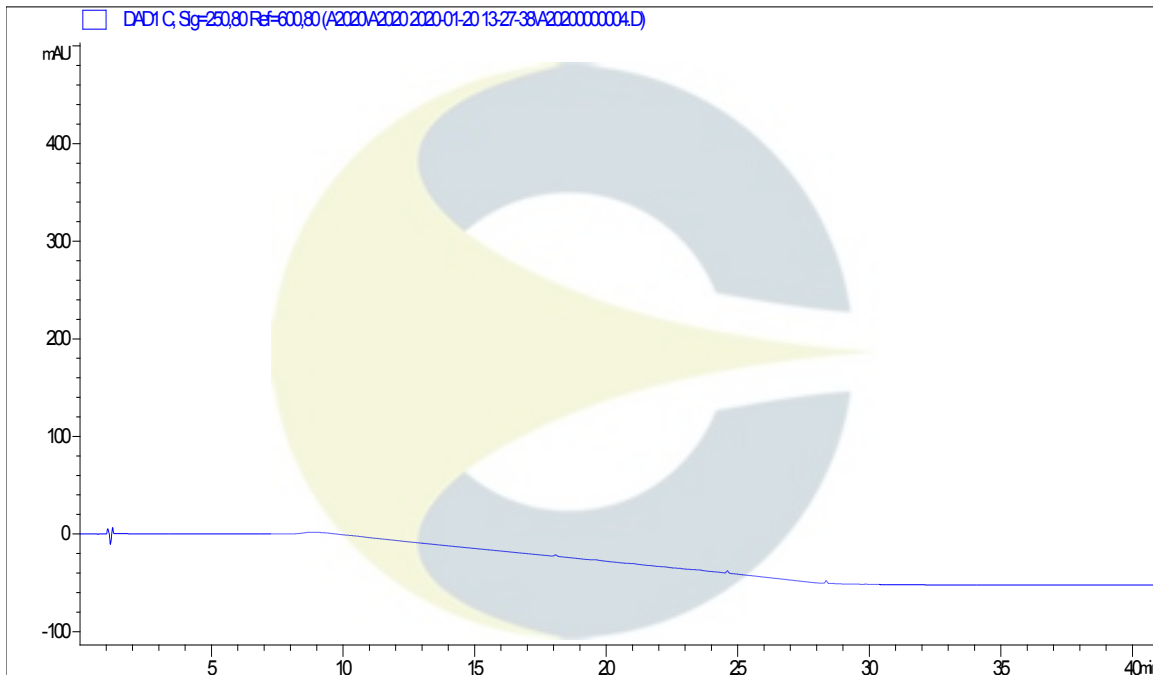
ANALYTICAL CONDITIONS

INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD); AB-SCIEX 6600 TRIPLE TOF
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.	0.2 µL
INJECTION CONC.	1.1 mg/mL in Methanol
DETECTION	250 ± 40 nm

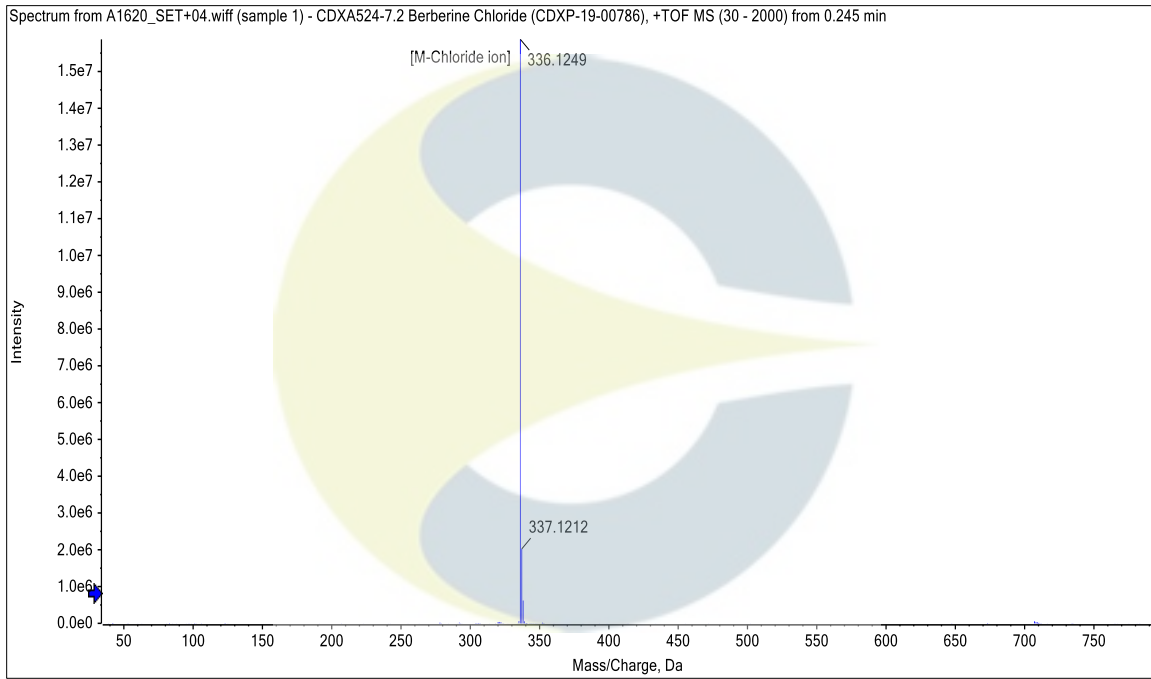
HPLC CHROMATOGRAM OF BERBERINE CHLORIDE (CDXP-19-00786)



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UV SPECTRUM AT RT = 14.5 MINUTES

HPLC CHROMATOGRAM OF DILUENT BLANK


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MASS SPECTRUM OF BERBERINE CHLORIDE (CDXP-19-00786)

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	02/11/2020	New report

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