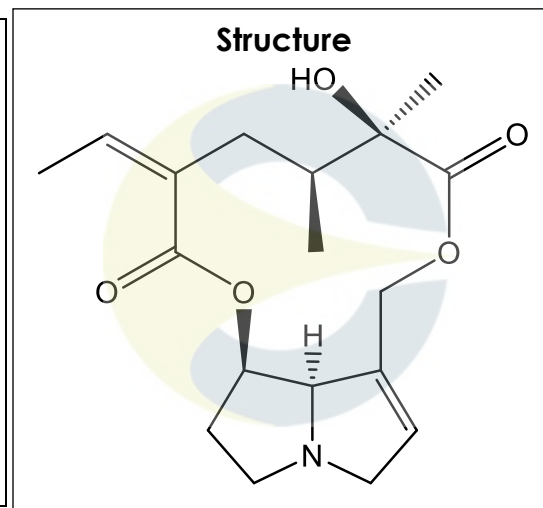


Certificate of Analysis
For Laboratory Use Only

PRODUCT NAME	Senecionine
PART NUMBER	00019135
STANDARD TYPE	Analytical Standard (AS)
LOT NUMBER	00019135-222
REPORT NUMBER	CDXA-RSS-7502-01
SAMPLE NUMBER	CDXP-21-00059
DATE OF SAMPLE	04/10/2017
DATE OF RE-EVALUATION	02/03/2021
DATE OF REPORT	03/16/2021



CHEMICAL NAMES	12-Hydroxy-senecionan-11,16-dione; (-)-Senecionine; Aureine; Senecionin
CHEMICAL FORMULA	C ₁₈ H ₂₅ NO ₅
MOLECULAR WEIGHT (MW)	335.39
CHEMICAL FAMILY	Alkaloids
CAS NUMBER	[130-01-8]
EC#(EINECS)	603-379-6
RTECS	VT5710000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
HPLC	0.700.10.2.METH22	≥ 75%	99.4%
Mass Spectrum	0.700.12.27	Conforms	Conforms
Appearance	NA	NA	Colorless to white powder

STORAGE CONDITIONS

STORAGE	+4 °C in a dry place.
EXPIRATION DATE	02/2026 under the above conditions.

This document is the property of ChromaDex, Inc. and/or its relevant affiliates and contains confidential and proprietary material for the sole use of the intended recipient(s). Any review, use, distribution or disclosure by or to others is strictly prohibited.

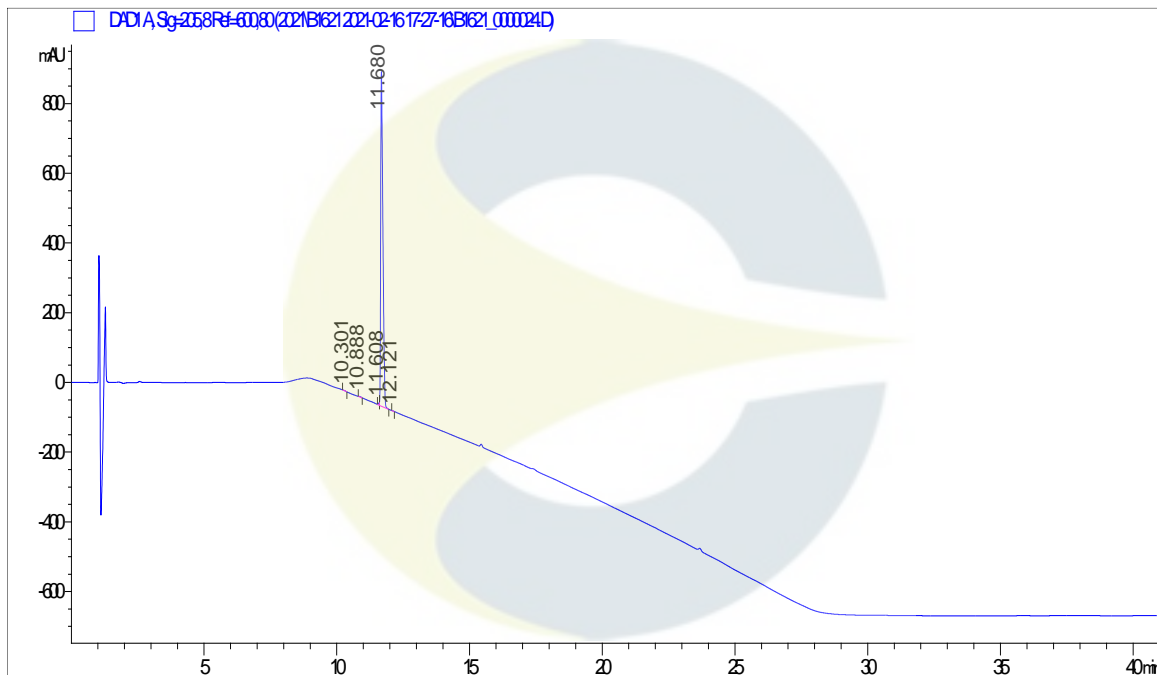
Certificate of Analysis

For Laboratory Use Only

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 μ m 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 $^{\circ}$ C
FLOW RATE	0.4 mL/minute
INJECTION VOL.	2.0 μ L
INJECTION CONC.	1.0 mg/mL in Methanol
DETECTION	205 \pm 4 nm

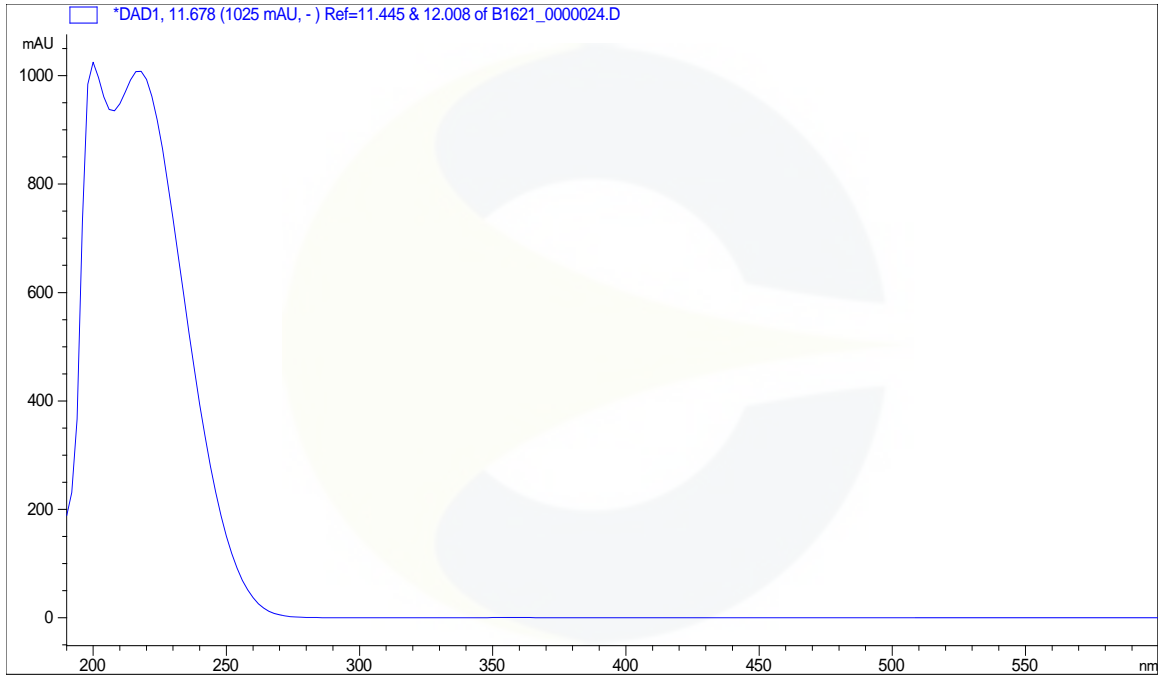
HPLC CHROMATOGRAM OF SENECTIONINE (CDXP-21-00059)



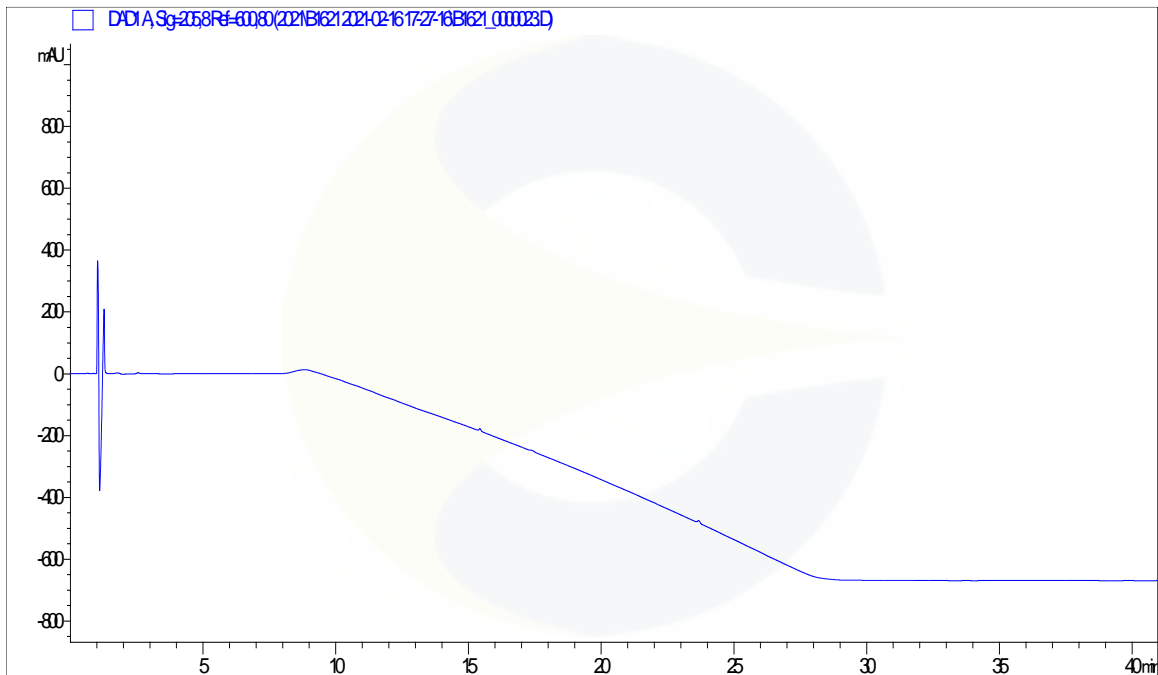
This document is the property of ChromaDex, Inc. and/or its relevant affiliates and contains confidential and proprietary material for the sole use of the intended recipient(s). Any review, use, distribution or disclosure by or to others is strictly prohibited.

Certificate of Analysis For Laboratory Use Only

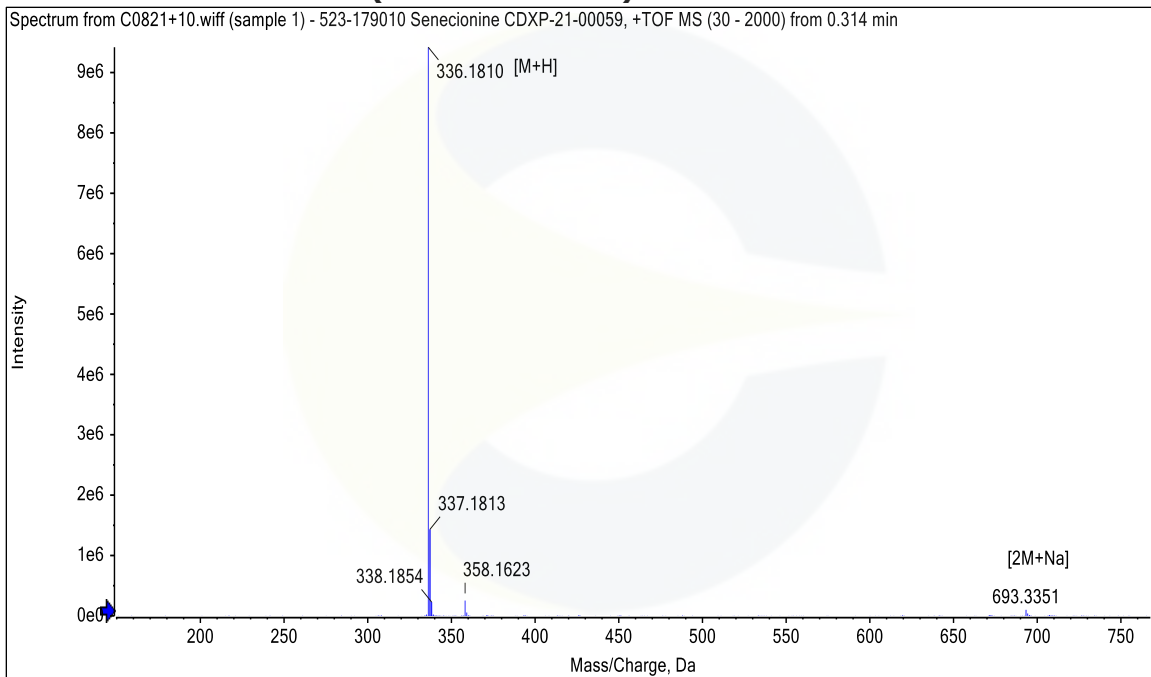
UV SPECTRUM AT RT = 11.7 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK



This document is the property of ChromaDex, Inc. and/or its relevant affiliates and contains confidential and proprietary material for the sole use of the intended recipient(s). Any review, use, distribution or disclosure by or to others is strictly prohibited.

MASS SPECTRUM OF SENEACIONINE (CDXP-21-00059)

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	04/18/2017	New report
01	03/16/2021	Passed re-evaluation by HPLC, KF. Updated expiration date, analytical method, conditions, chromatograms and results. Removed melting point.

This document is the property of ChromaDex, Inc. and/or its relevant affiliates and contains confidential and proprietary material for the sole use of the intended recipient(s). Any review, use, distribution or disclosure by or to others is strictly prohibited.