





Certificate of Analysis

For Laboratory Use Only

PRODUCT NAME Capsaicin

PART NUMBER 00003135

STANDARD TYPE Primary (P)

LOT NUMBER 00003135-890

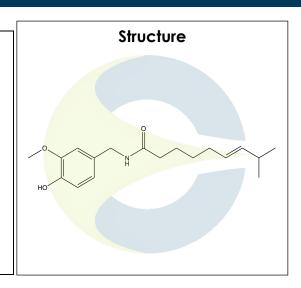
REPORT NUMBER CDXA-RSS-8249-01

SAMPLE NUMBER CDXP-18-00897

DATE OF SAMPLE 09/05/2018

DATE OF RE-EVALUATION 08/05/2022 (1st)

DATE OF REPORT 08/29/2022



CHEMICAL NAMES (6E)-N-[(4-Hydroxy-3-methoxyphenyl)methyl]-8-methyl-6-nonenamide; (E)-8-

Methyl-N-vanillyl-6-nonenamide; Adlea; Axsain; Dolenon; Ovocap; trans-8-

Methyl-N-vanillyl-6-nonenamide

CHEMICAL FORMULA C₁₈H₂₇NO₃

MOLECULAR WEIGHT (MW) 305.41

CHEMICAL FAMILY Alkaloids

CAS NUMBER [404-86-4]

EC#(EINECS) 206-969-8

RTECS RA8530000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	94.8%
HPLC	0.700.10.2.METH22	≥ 90%	94.8%
NMR	99.1-04-2.0-000122 Conforms to structure Confor		Conforms to structure
Mass Spectrum	99.1-CDXA-3.0-000126	Conforms	Conforms
Residual Solvent*	99.1-CDXA-3.0-000621	NA	MeOH < 0.1%
Water	0.700.12.37	NA	ND
Appearance NA		NA	White powder

*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 94.8% IS BASED ON (100 - 0.0 SOLVENTS - 0.0 WATER) X 94.8% HPLC

STORAGE CONDITIONS

STORAGE Room Temperature in a dry place.

EXPIRATION DATE 08/2027 under the above conditions.







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 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

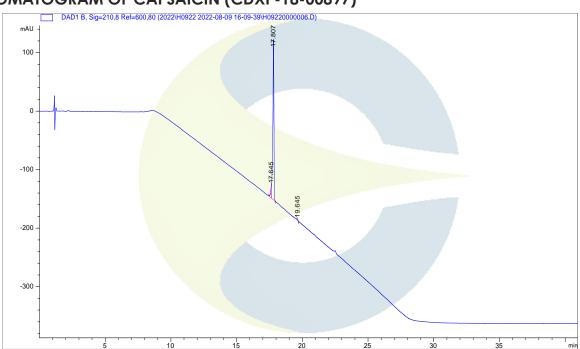
FLOW RATE 0.4 mL/minute

INJECTION VOL. 0.1 μL

INJECTION CONC. 1.4 mg/mL in Methanol

DETECTION $210 \pm 4 \text{ nm}$

HPLC CHROMATOGRAM OF CAPSAICIN (CDXP-18-00897)





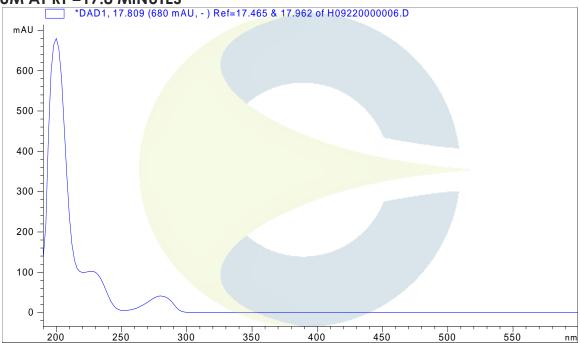




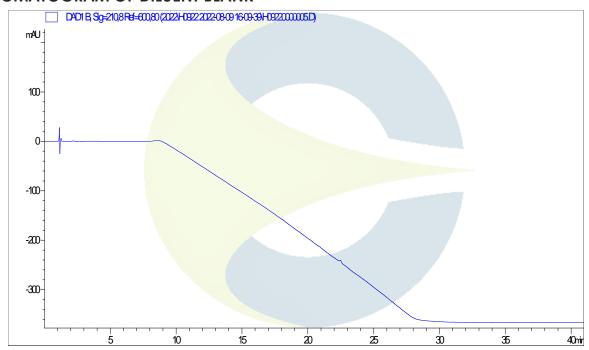
Certificate of Analysis

For Laboratory Use Only

UV SPECTRUM AT RT = 17.8 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK





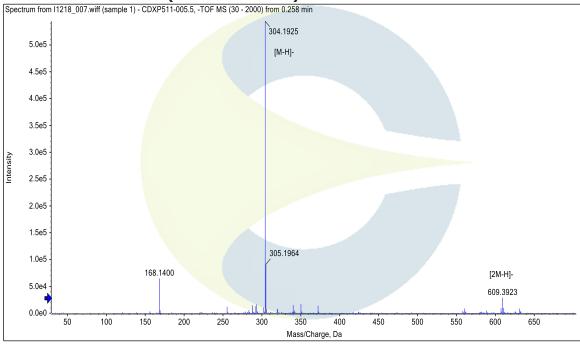




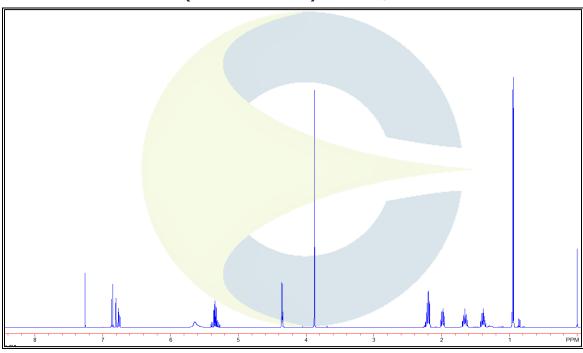
Certificate of Analysis

For Laboratory Use Only

MASS SPECTRUM OF CAPSAICIN (CDXP-18-00897)



¹H-NMR SPECTRUM OF CAPSAICIN (CDXP-18-00897) IN CDCl₃





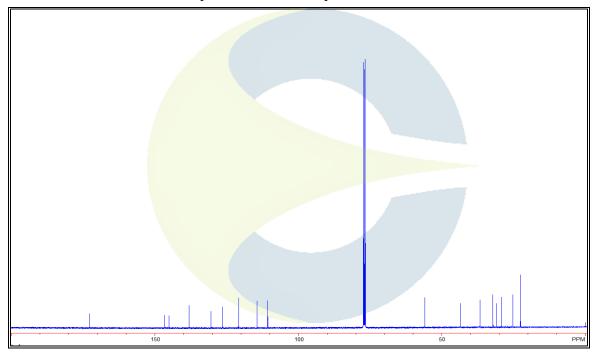




Certificate of Analysis

For Laboratory Use Only

13C-NMR SPECTRUM OF CAPSAICIN (CDXP-18-00897) IN CDCI₃





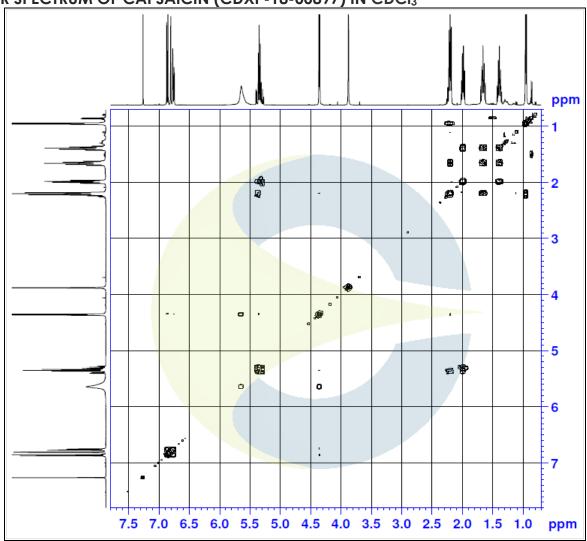




Certificate of Analysis

For Laboratory Use Only





REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	Document/Changes
00	10/05/2018	New report
01	08/29/2022	Passed re-evaluation by HPLC and KF. Updated expiration date, analytical methods/conditions, results and chromatograms.