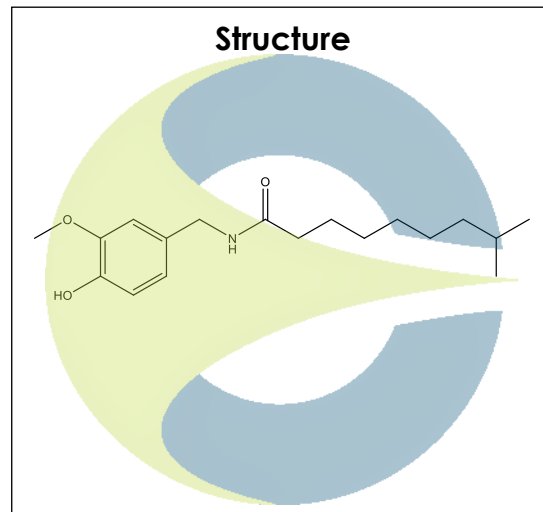


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PRODUCT NAME	Dihydrocapsaicin
PART NUMBER	00004452
STANDARD TYPE	Primary (P)
LOT NUMBER	00004452-106
REPORT NUMBER	CDXA-RSS-8255-01
SAMPLE NUMBER	CDXP-18-00949
DATE OF SAMPLE	09/19/2018
DATE OF RE-EVALUATION	08/05/2022 (1 st)
DATE OF REPORT	08/30/2022



CHEMICAL NAMES	N-((4-Hydroxy-3-methoxyphenyl)methyl)-8-methyl-nonanamide
CHEMICAL FORMULA	C ₁₈ H ₂₉ NO ₃
MOLECULAR WEIGHT (MW)	307.43
CHEMICAL FAMILY	Alkaloids
CAS NUMBER	[19408-84-5]
EC#(EINECS)	606-308-7
RTECS	RA5998000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	99.9%
HPLC	0.700.10.2.METH22	≥ 90%	99.9%
NMR	99.1-04-2.0-000122	Conforms to structure	Conforms to structure
Mass Spectrum	99.1-04-3.0-000126	Conforms	Conforms
Residual Solvent	99.1-CDXA-3.0-000621	NA	EtOAc < 0.1%; MeOH < 0.1%
Water	0.700.12.37	NA	ND
Appearance	NA	NA	White powder

ADJUSTED PURITY: 99.9% IS BASED ON (100 - 0.0 SOLVENTS - 0.0 WATER) X 99.9% HPLC

STORAGE CONDITIONS

STORAGE	Room Temperature °C in a dry place.
EXPIRATION DATE	08/2027 under the above conditions.

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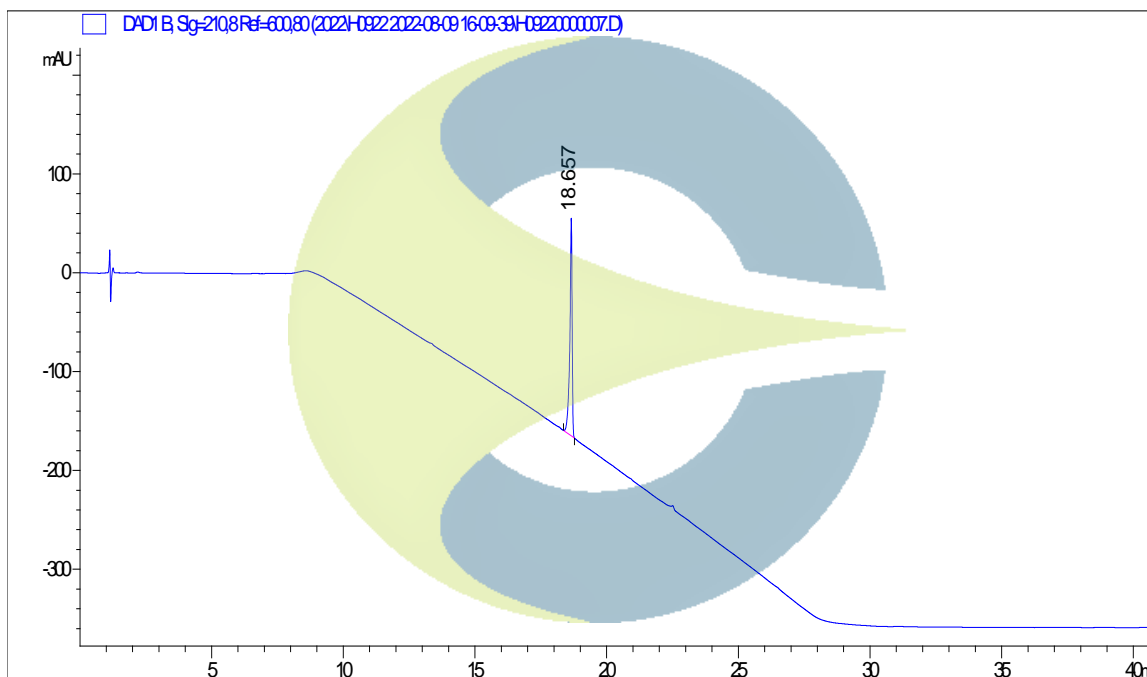
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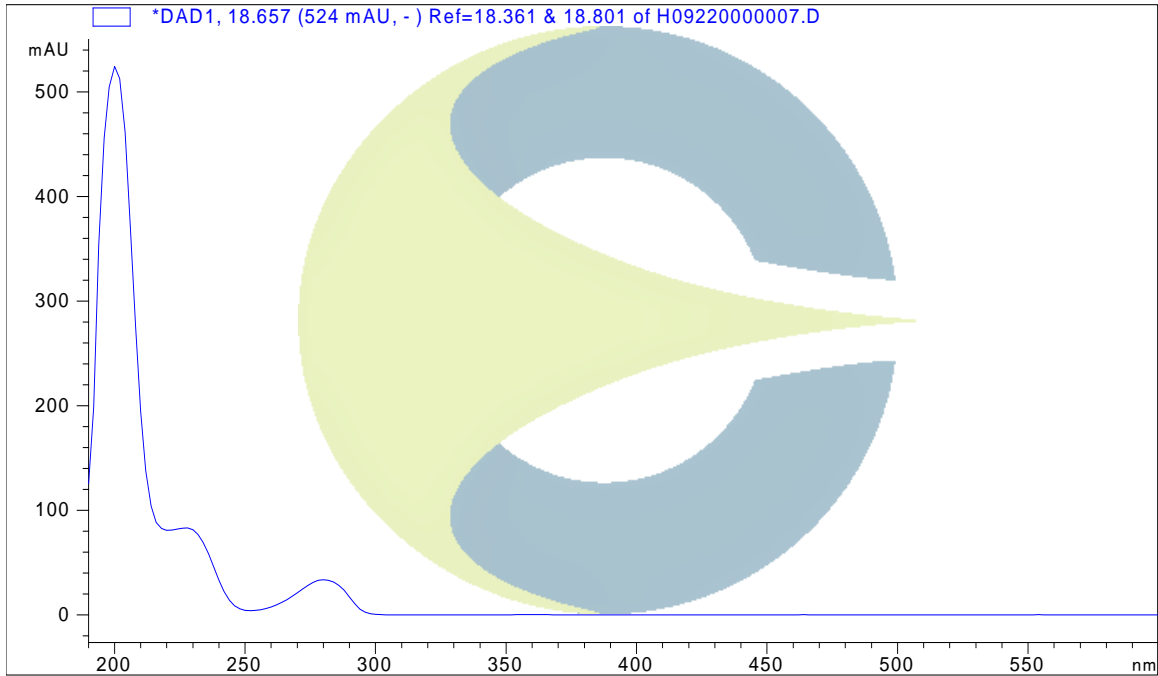
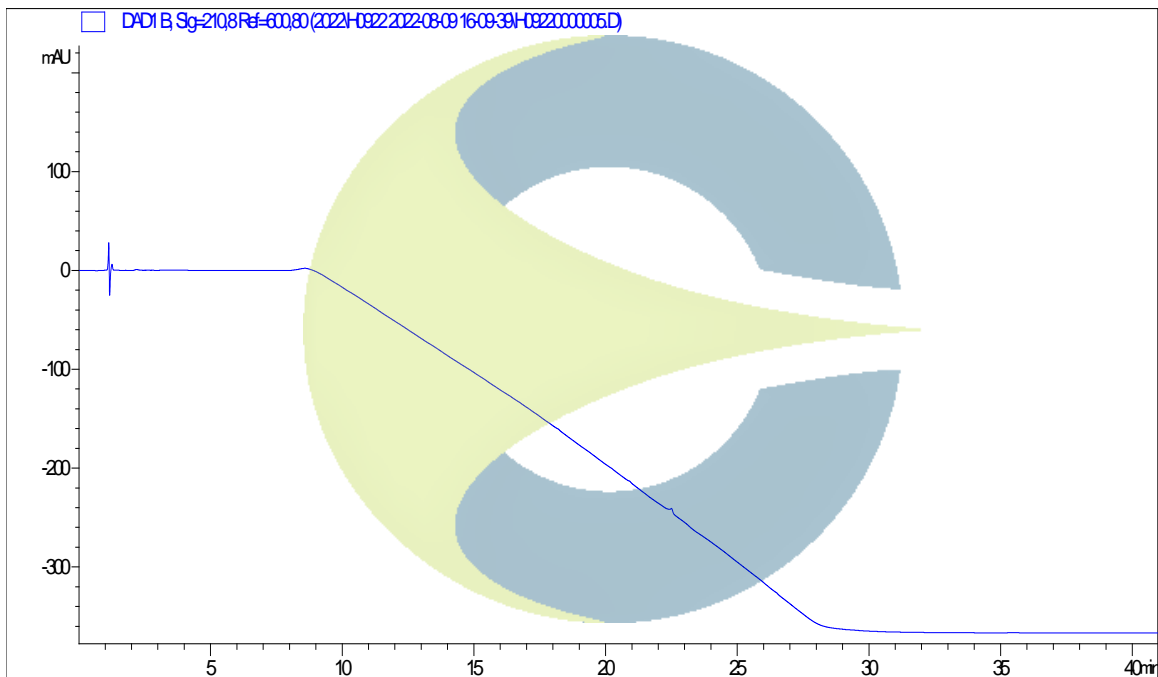
ANALYTICAL CONDITIONS

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, then decreasing to 5% B over 1 minute.
COLUMN TEMP.	60 °C
FLOW RATE	0.4 mL/minute
INJECTION VOL.	0.2 µL
INJECTION CONC.	1.2 mg/mL in Methanol
DETECTION	210 ± 4 nm

HPLC CHROMATOGRAM OF DIHYDROCAPSAICIN (CDXP-18-00949)



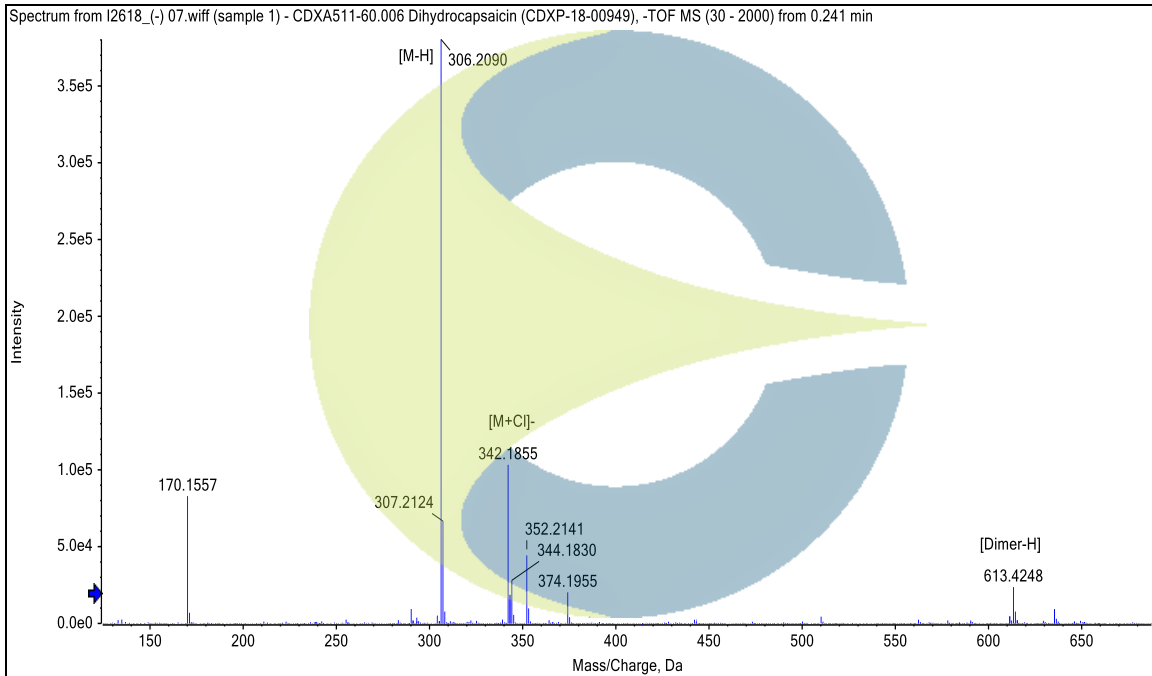
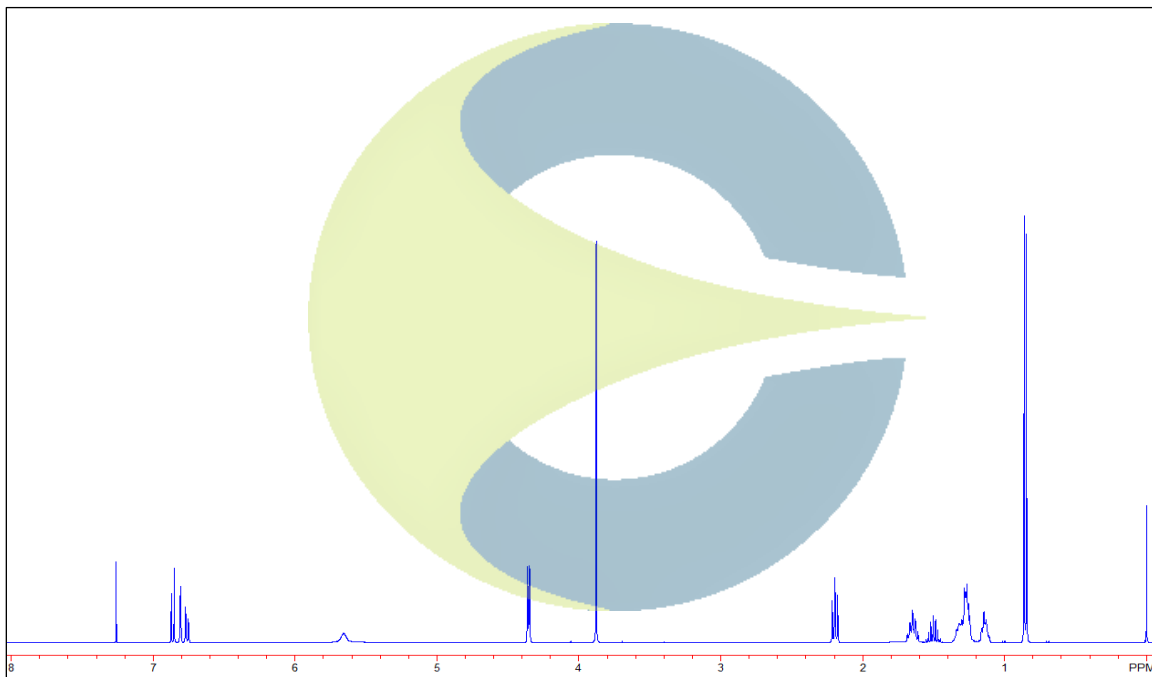
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UV SPECTRUM AT RT=18.7 MINUTES

HPLC CHROMATOGRAM OF DILUENT BLANK


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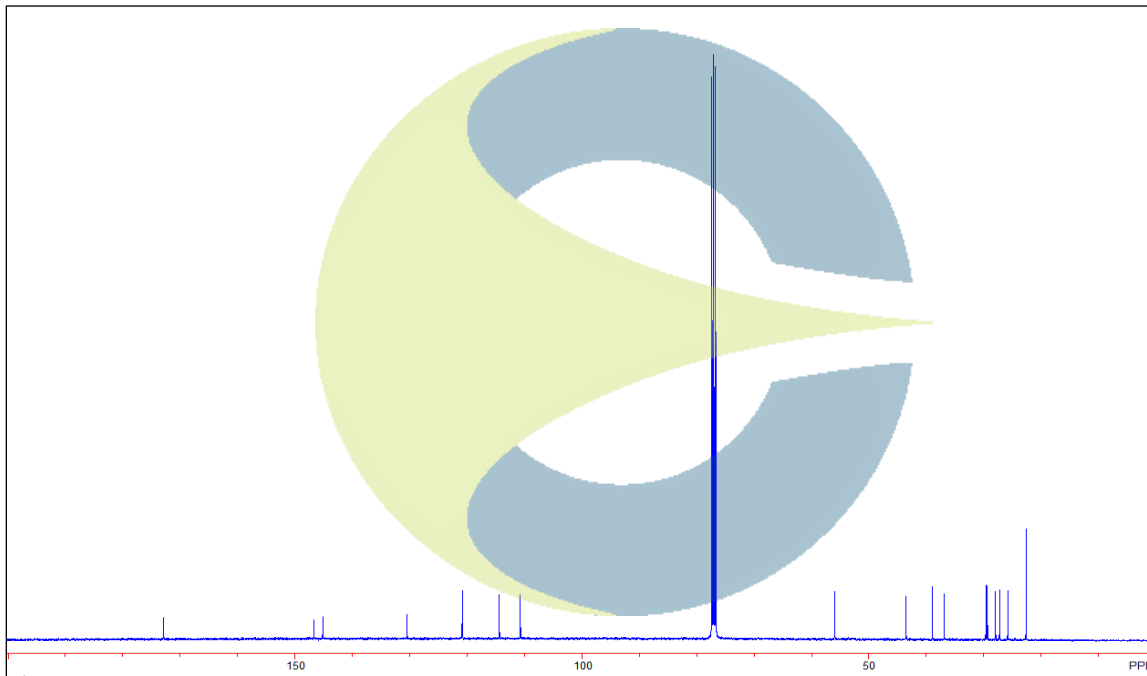
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MASS SPECTRUM OF DIHYDROCAPSAICIN (CDXP-18-00949)

¹H-NMR SPECTRUM OF DIHYDROCAPSAICIN (CDXP-18-00949) IN CDCl₃


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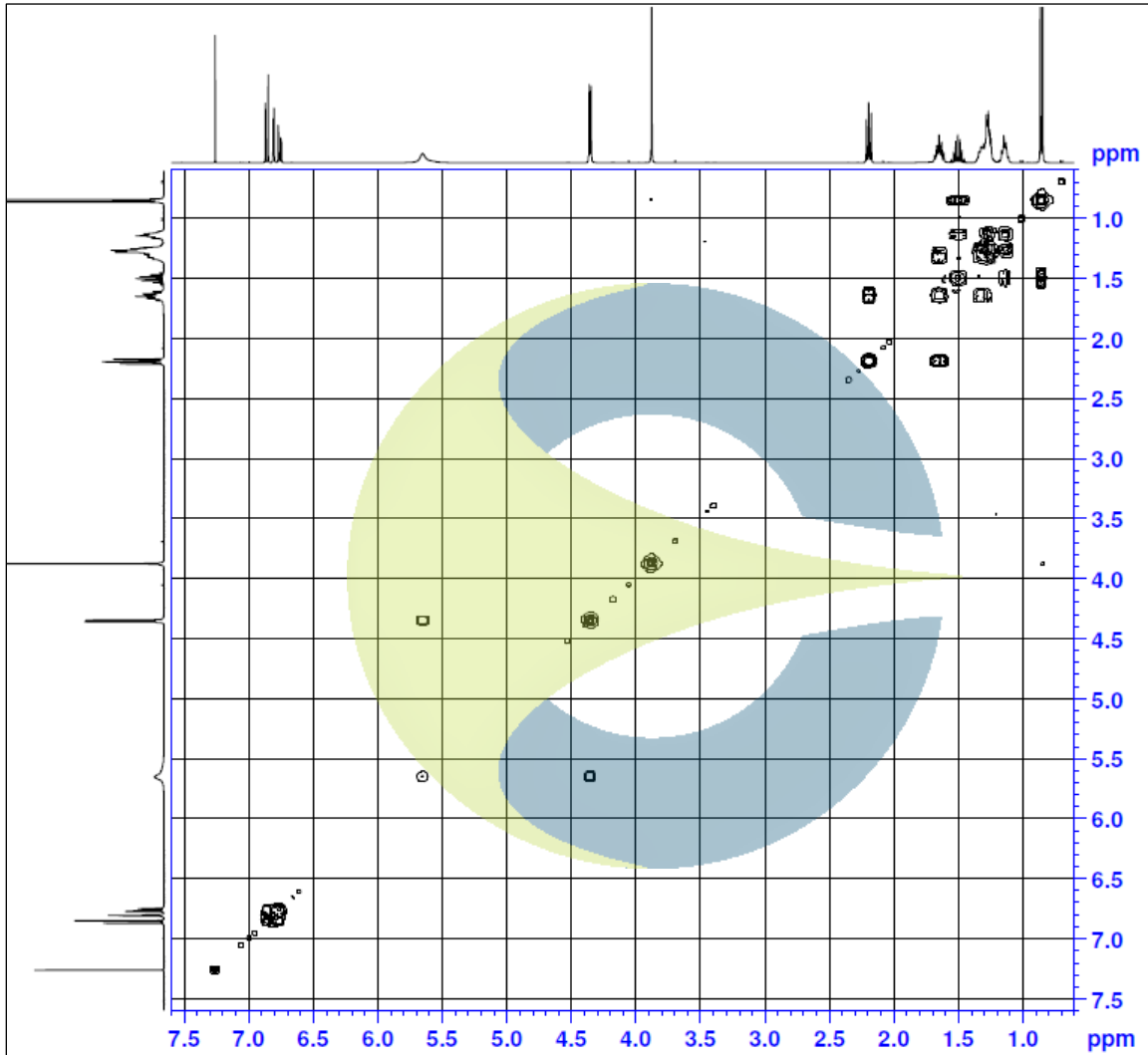
¹³C-NMR SPECTRUM OF DIHYDROCAPSAICIN (CDXP-18-00949) IN CDCl₃



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COSY-NMR SPECTRUM OF DIHYDROCAPSAICIN (CDXP-18-00949) IN CDCl₃

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	10/09/2018	New report
01	08/30/2022	Passed re-evaluation by HPLC and KF. Updated expiration date, analytical methods/conditions, results and chromatograms.

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