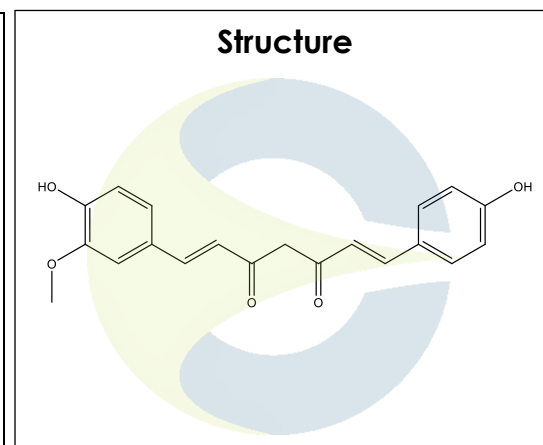


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PRODUCT NAME	Demethoxycurcumin
PART NUMBER	00004230
STANDARD TYPE	Primary (P)
LOT NUMBER	00004230-902
REPORT NUMBER	CDXA-RSS-9811-00
SAMPLE NUMBER	CDXP-22-00455
DATE OF SAMPLE	05/17/2022
DATE OF REPORT	06/17/2022



CHEMICAL NAMES	(1E,6E)-1-(4-Hydroxy-3-methoxyphenyl)-7-(4-hydroxyphenyl)-1,6-heptadiene-3,5-dione; Curcumin II; Desmethoxycurcumin; Monodemethoxycurcumin
CHEMICAL FORMULA	C ₂₀ H ₁₈ O ₅
MOLECULAR WEIGHT (MW)	338.35
CHEMICAL FAMILY	Phenolics
CAS NUMBER	[22608-11-3]
EC#(EINECS)	663-429-8
RTECS	N/A

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	99.0%
HPLC	CDXA-CPM-021	≥ 90%	99.0%
NMR	0.700.12.4	Conforms to structure	Conforms to structure
Mass Spectrum	0.700.12.27	Conforms	Conforms
Residual Solvent*	USP <467>	NA	ND
Water	0.700.12.37	NA	ND
Appearance	NA	NA	Orange powder

*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 99.0% IS BASED ON (100 - 0.0 SOLVENTS - 0.0 WATER) X 99.0% HPLC

STORAGE CONDITIONS

STORAGE	+4 °C in a dry place.
EXPIRATION DATE	05/2027 under the above conditions.

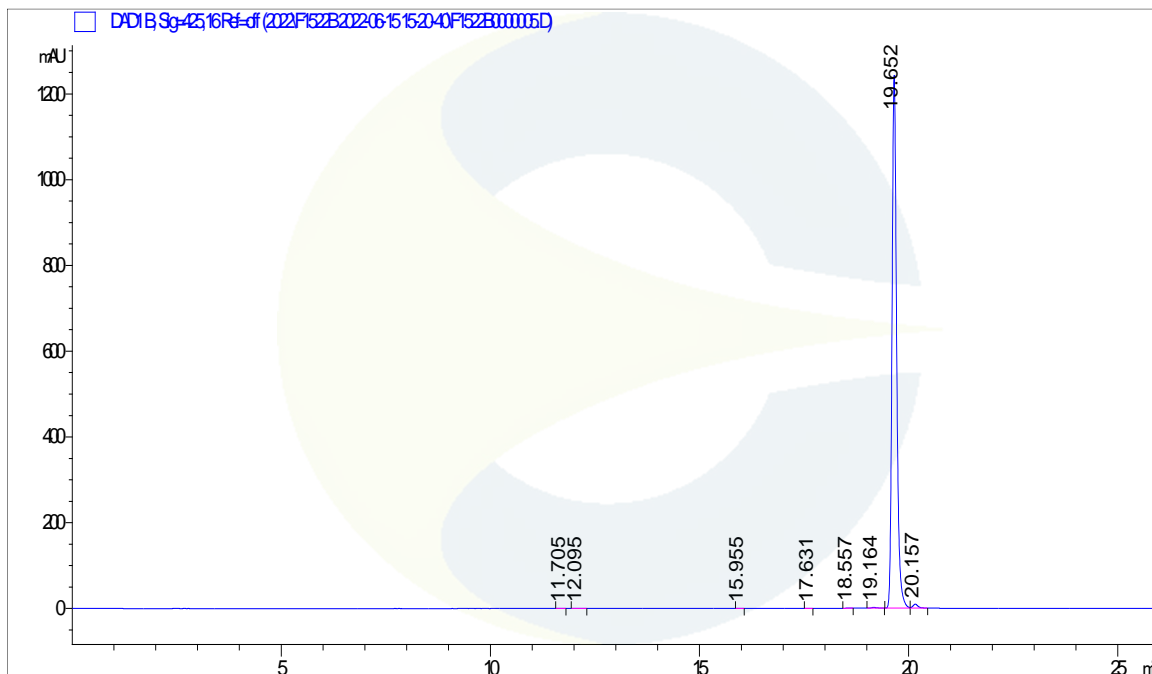
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ANALYTICAL CONDITIONS

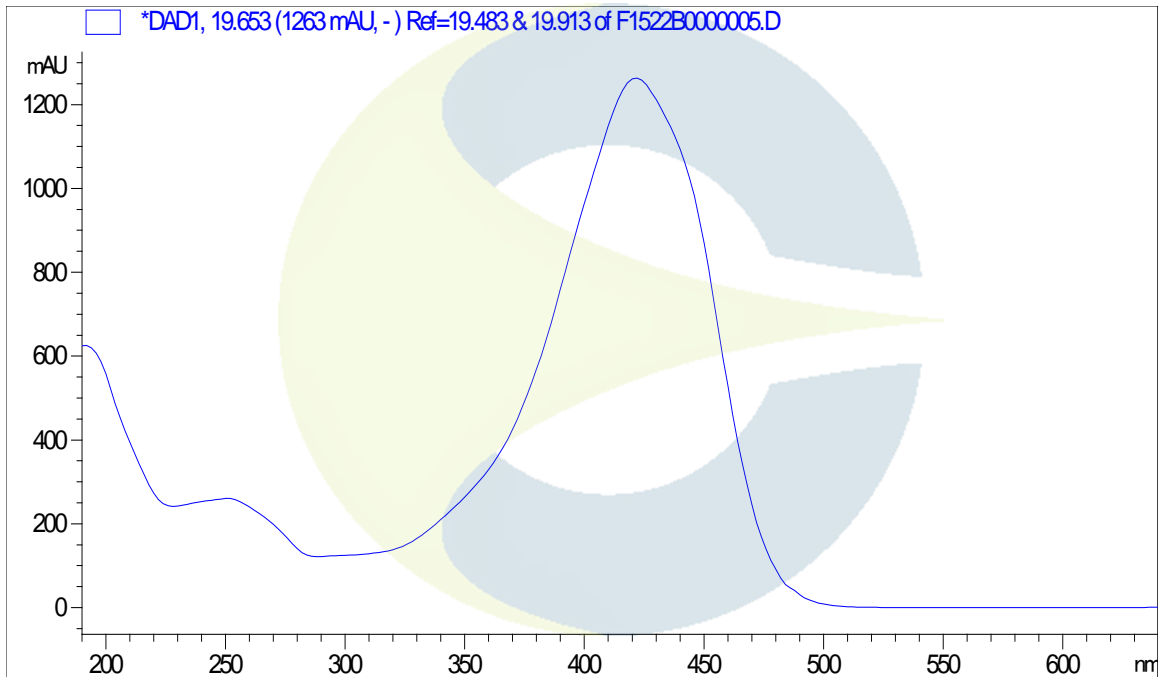
INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD); AB-SCIEX 6600 TRIPLE TOF
COLUMN	Phenomenex Synergi Hydro-RP, 250 x 4.6 mm, 4 µm particle size
MOBILE PHASE	A - 0.1% Phosphoric acid (aq.), B - Acetonitrile; Increase from 30% B to 65% B over 20 minutes. Hold at 65% B for 5 minutes, then decrease to 30% B over 1 minute and re-equilibrate.
COLUMN TEMP.	25 °C
FLOW RATE	1.0 mL/minute
INJECTION VOL.	1.0 µL
INJECTION CONC.	1.0 mg/mL in Methanol
DETECTION	425 ± 8 nm

HPLC CHROMATOGRAM OF DEMETHOXYCURCUMIN (CDXP-22-00455)


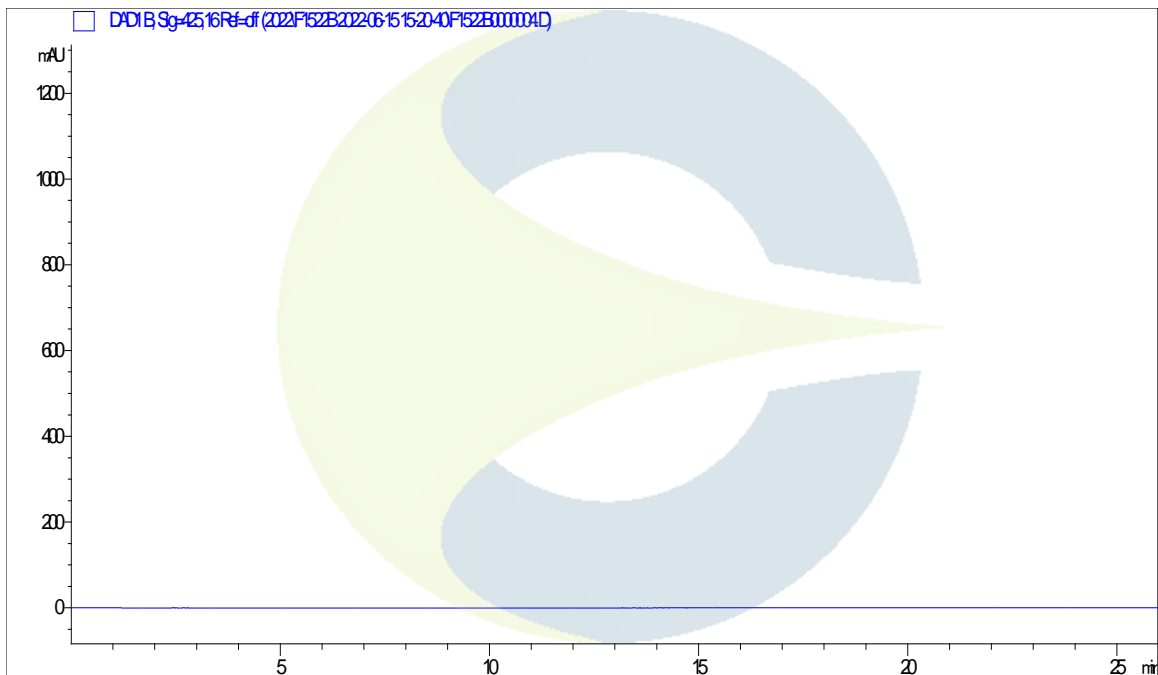
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UV SPECTRUM AT 19.7 MINUTES

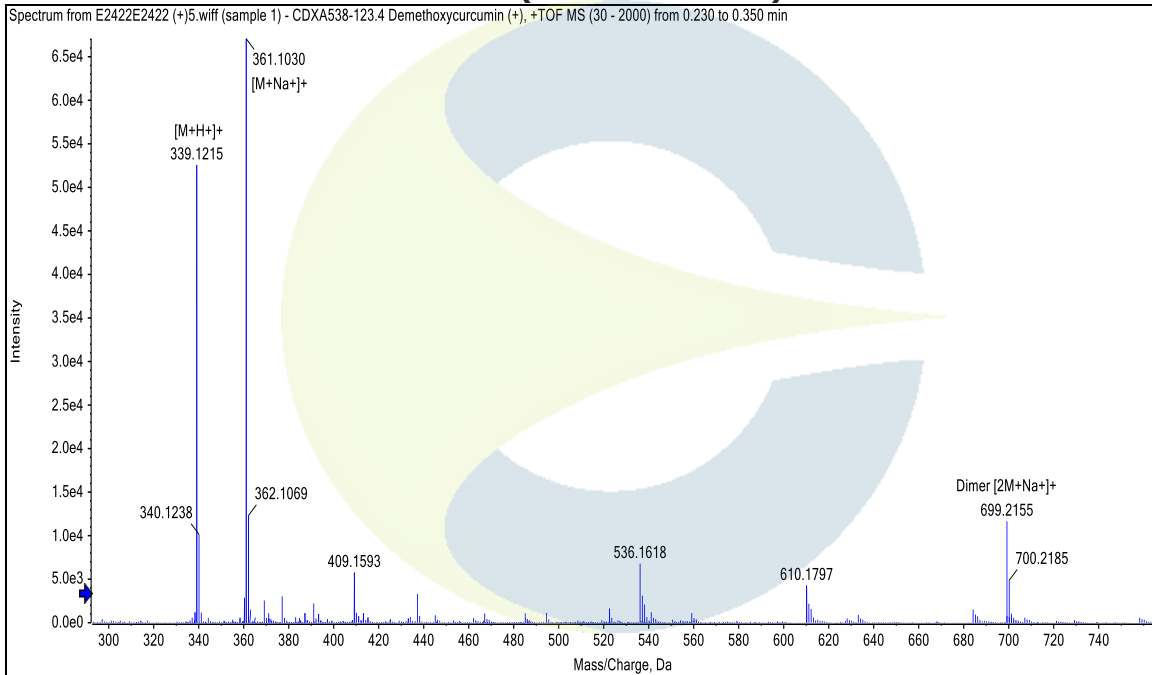


HPLC CHROMATOGRAM OF DILUENT BLANK

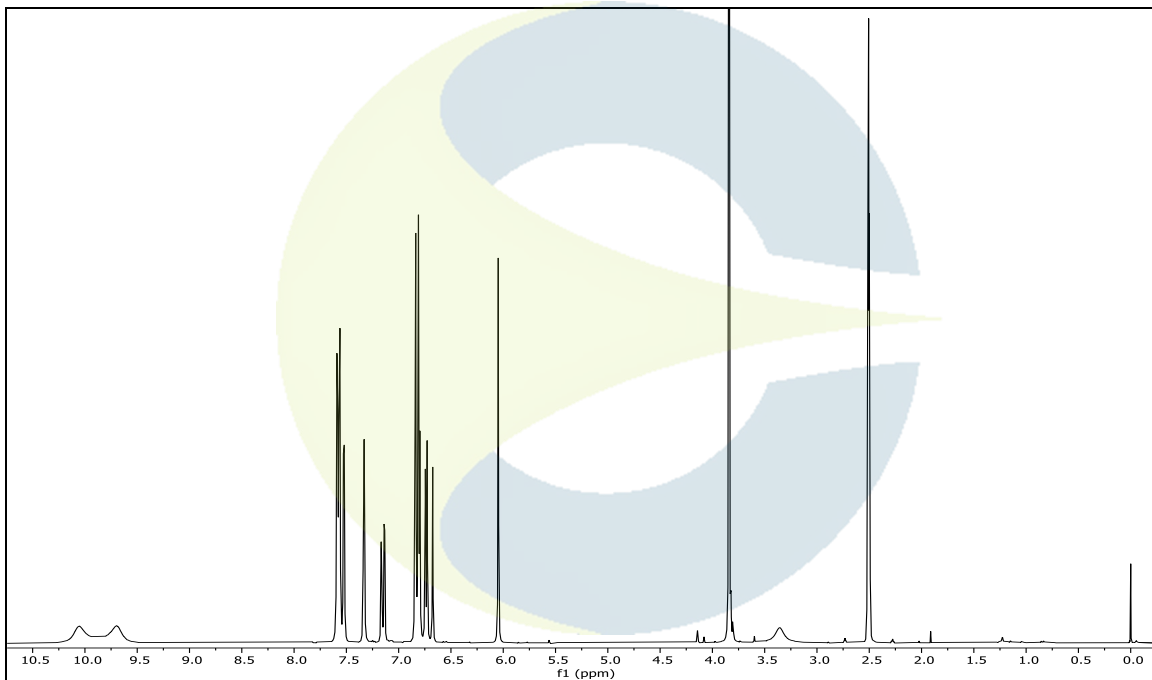


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MASS SPECTRUM OF DEMETHOXYCURCUMIN (CDXP-22-00455)

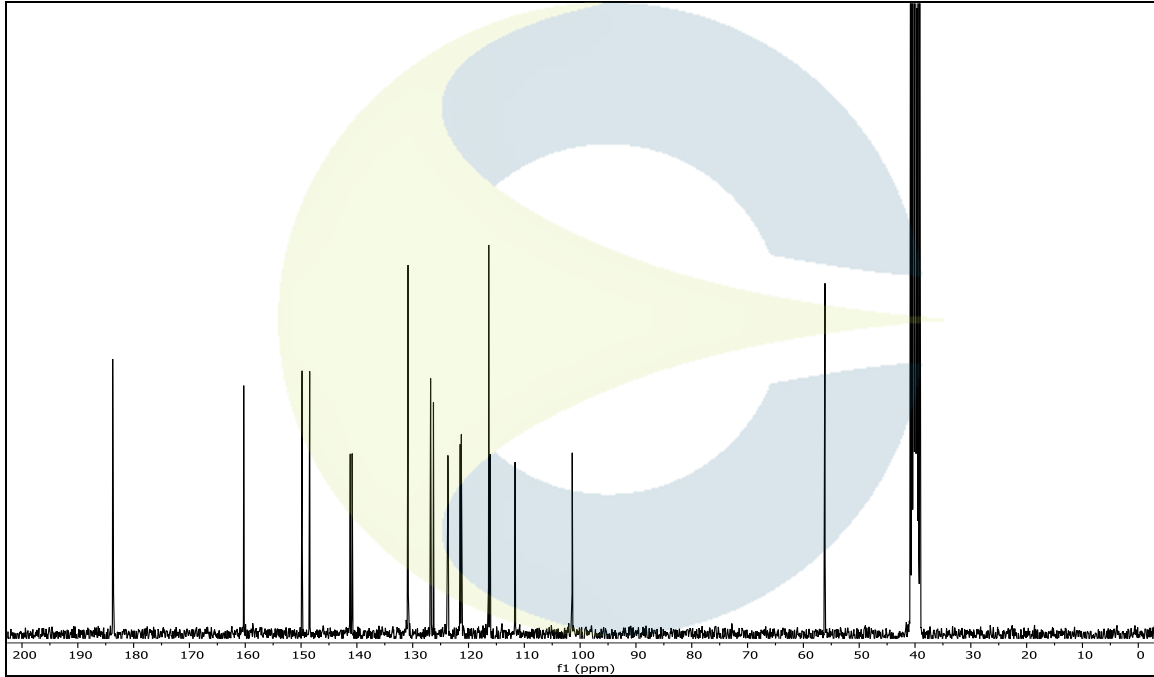


¹H-NMR SPECTRUM OF DEMETHOXYCURCUMIN (CDXP-22-00455) IN DMSO-d₆ + TMS

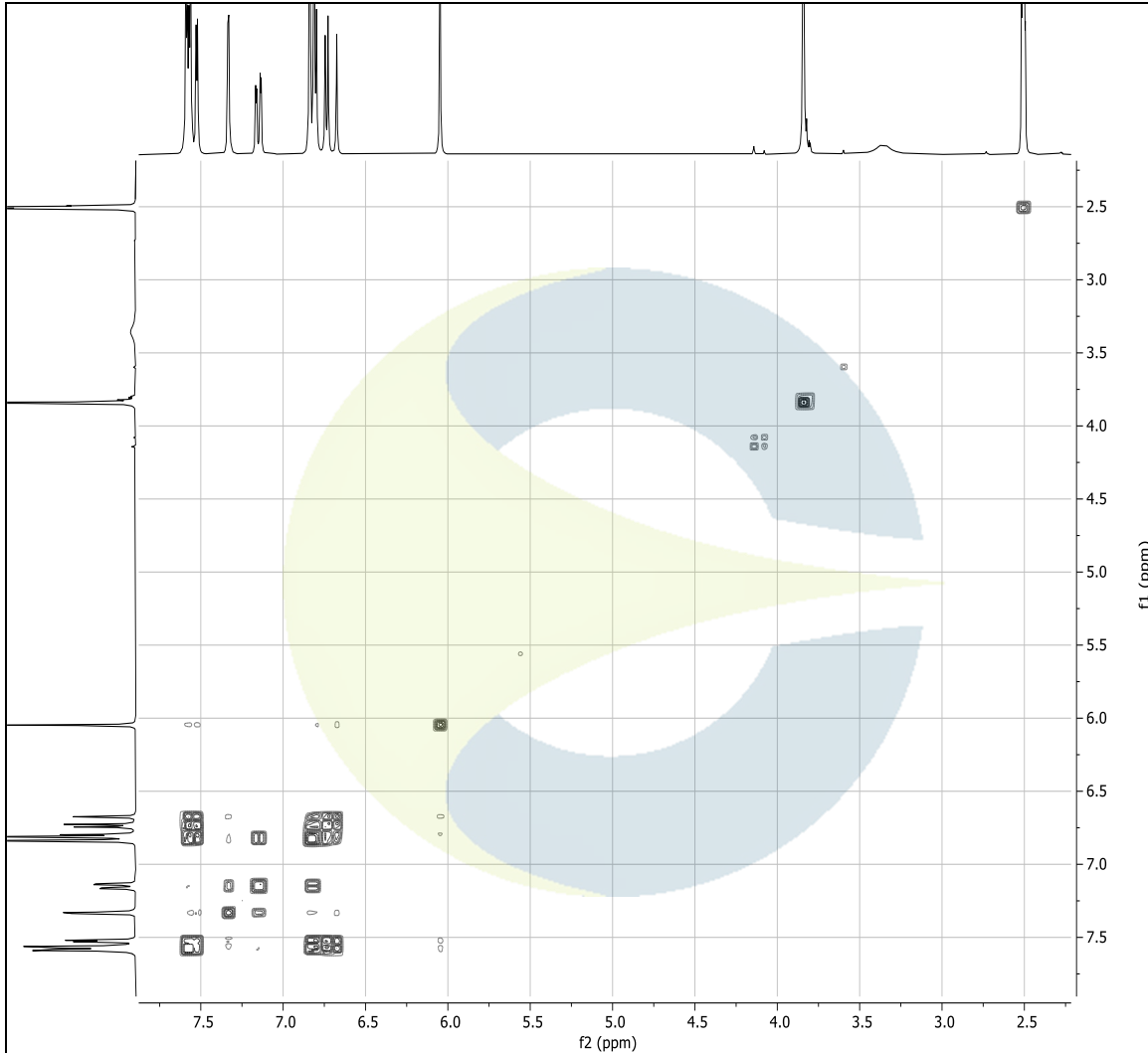


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¹³C-NMR SPECTRUM DEMETHOXYCURCUMIN (CDXP-22-00455) IN DMSO-d₆ + TMS



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COSY-NMR SPECTRUM OF DEMETHOXYCURCUMIN (CDXP-22-00455) IN DMSO- d_6 + TMS

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	06/17/2022	New report

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