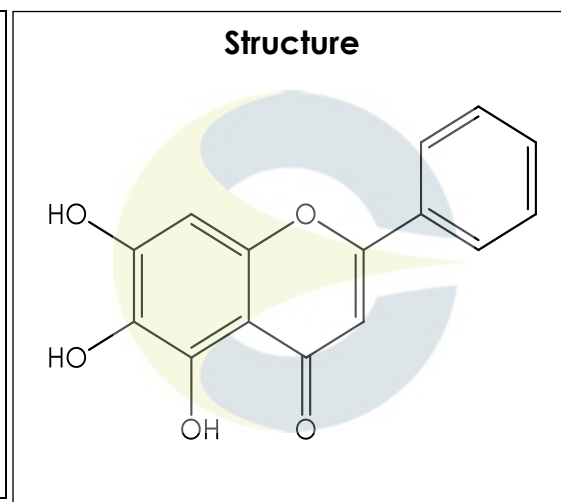


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PRODUCT NAME	Baicalein
PART NUMBER	00002015
STANDARD TYPE	Primary (P)
LOT NUMBER	00002015-317
REPORT NUMBER	CDXA-RSS-7645-01
SAMPLE NUMBER	CDXA-17-009638
DATE OF SAMPLE	08/03/2017
DATE OF RE-EVALUATION	08/19/2021
DATE OF REPORT	09/03/2021



CHEMICAL NAMES	5,6,7-Trihydroxy-2-phenyl-4H-1-benzopyran-4-one; Noroxylin
CHEMICAL FORMULA	C ₁₅ H ₁₀ O ₅
MOLECULAR WEIGHT (MW)	270.24
CHEMICAL FAMILY	Flavonoids
CAS NUMBER	[491-67-8]
EC#(EINECS)	637-183-7
RTECS	DJ3100898

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	98.9%
HPLC	0.700.10.2.METH22	≥ 90%	99.0%
NMR	4.5.3-CD-4.0-000338	Conforms to structure	Conforms to structure
Mass Spectrum	99.1-CDXA-2.0-000126	Conforms	Conforms
Residual Solvent	99.1-CD-9.0-000115	NA	Acetone – 0.1%
Water	0.700.12.37	NA	ND
Appearance	NA	NA	Yellow powder

ADJUSTED PURITY: 98.9% IS BASED ON (100 - 0.1 SOLVENTS - 0.0 WATER) X 99.0% HPLC

STORAGE CONDITIONS

STORAGE	-20 °C in a dry place.
EXPIRATION DATE	08/2026 under the above conditions.

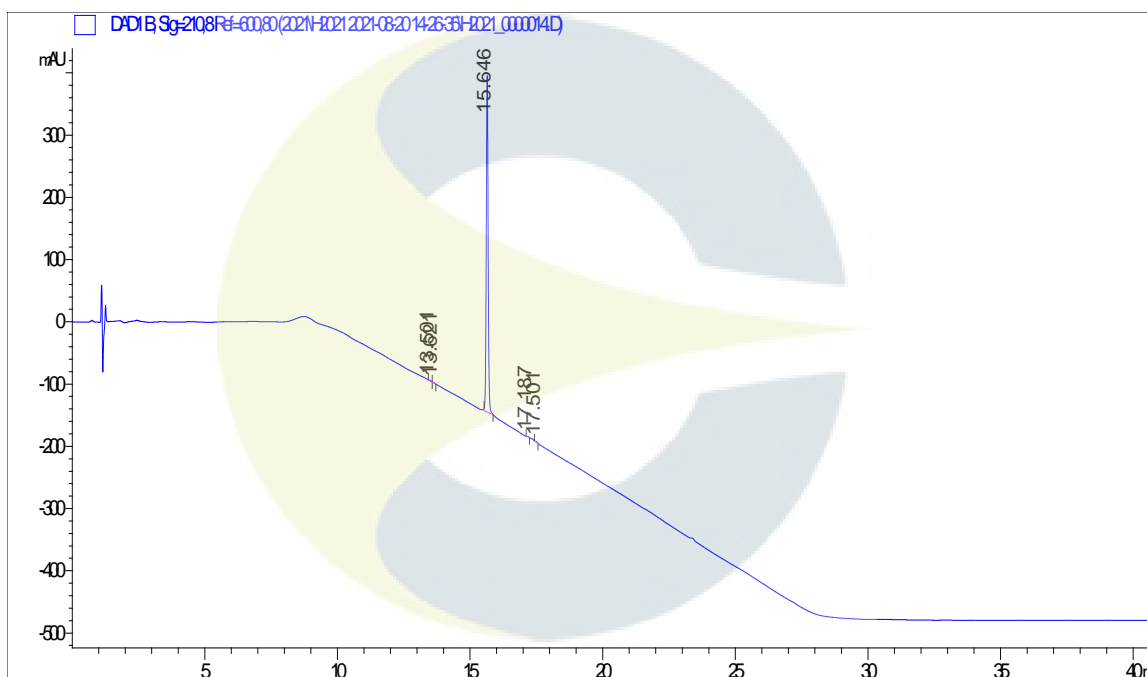
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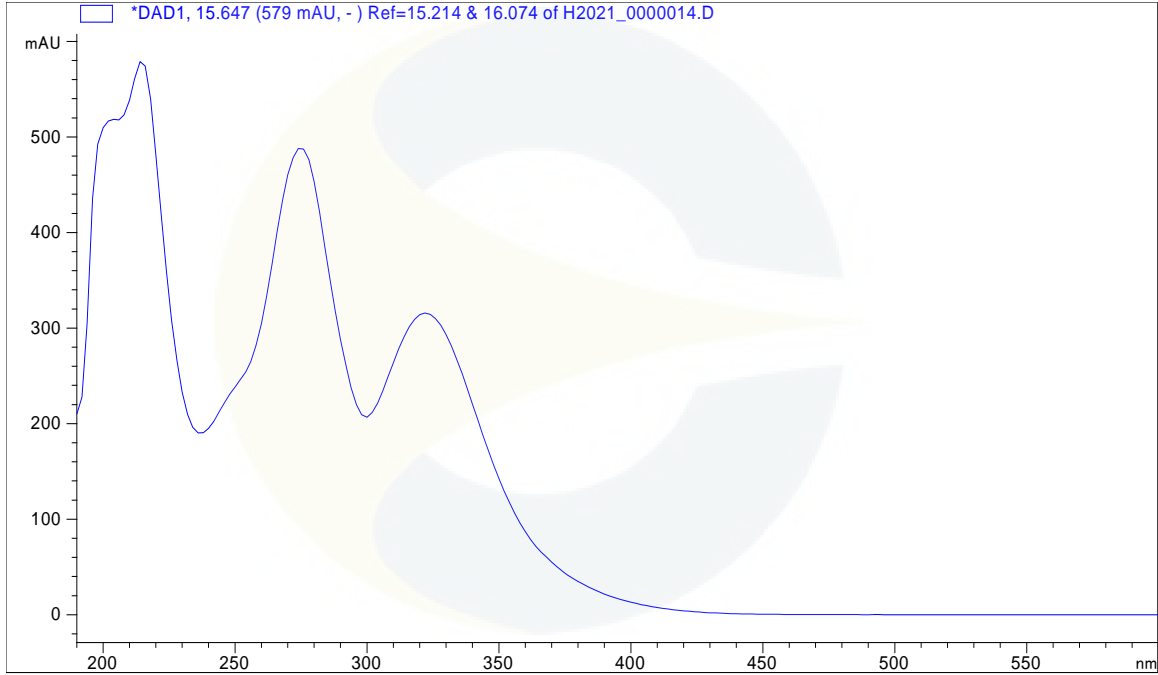
ANALYTICAL CONDITIONS

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	210 ± 4 nm

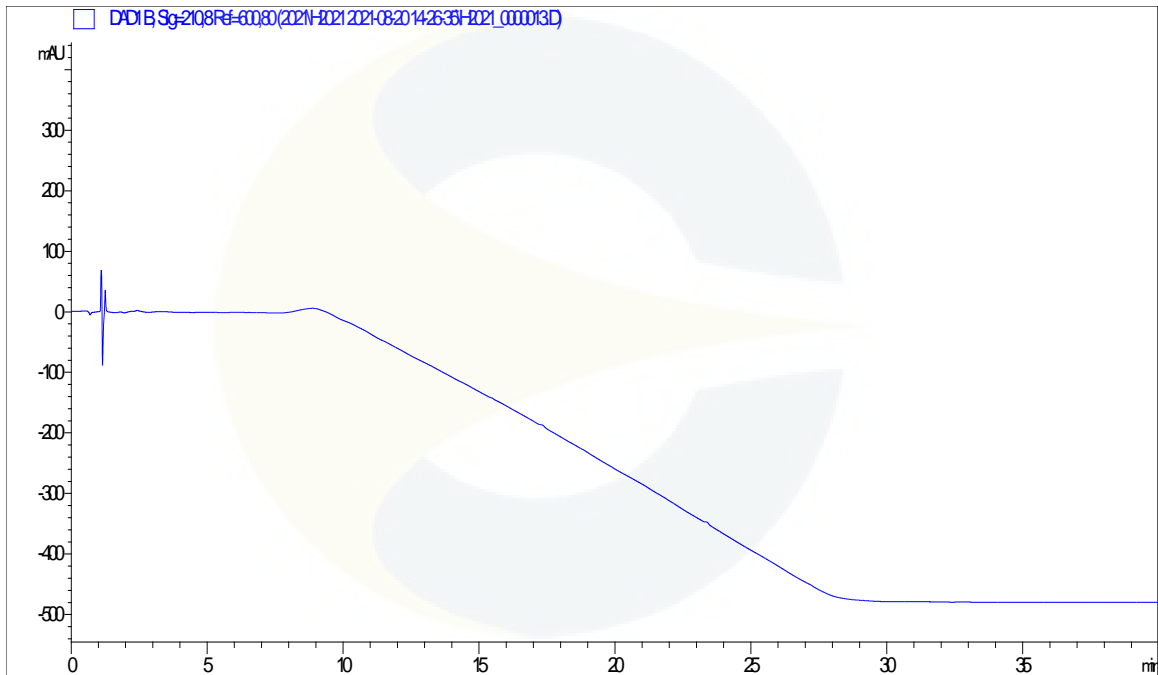
HPLC CHROMATOGRAM OF BAICALEIN (CDXA-17-009638)


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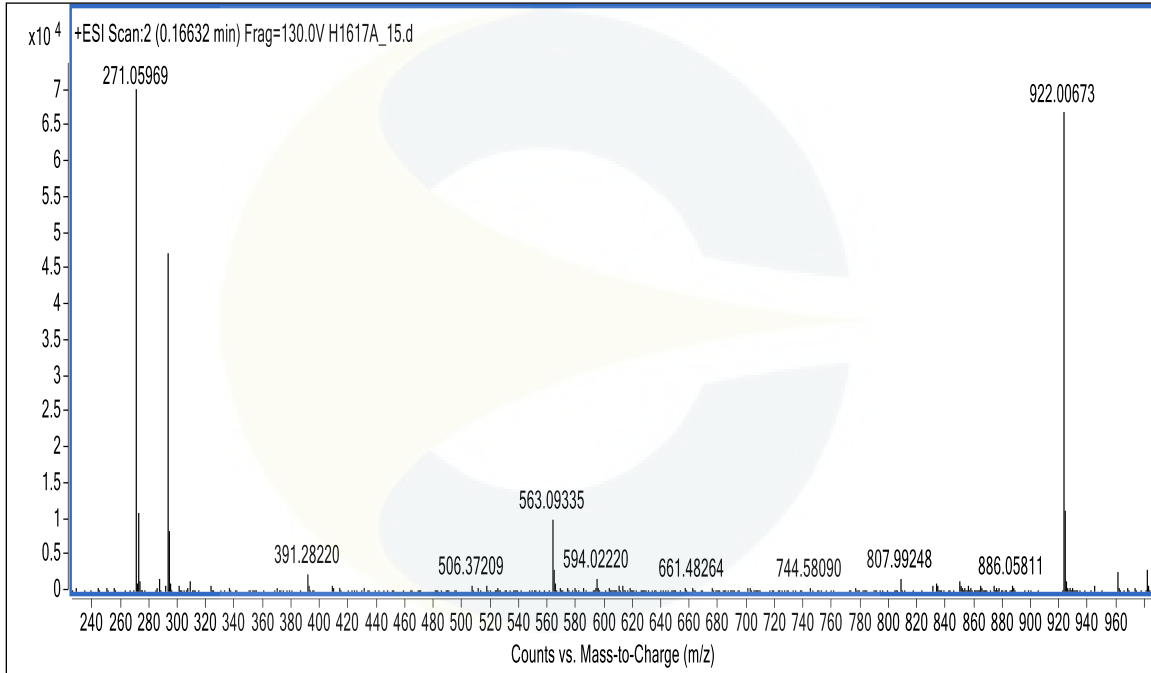
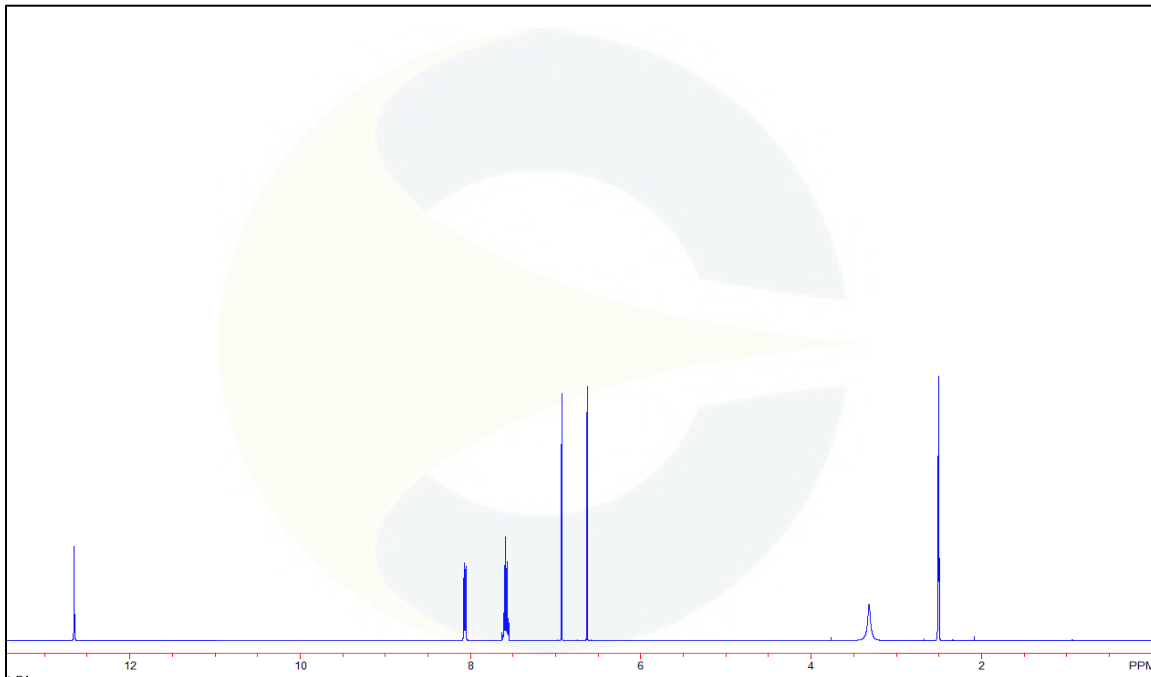
UV SPECTRUM AT RT = 15.6 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK

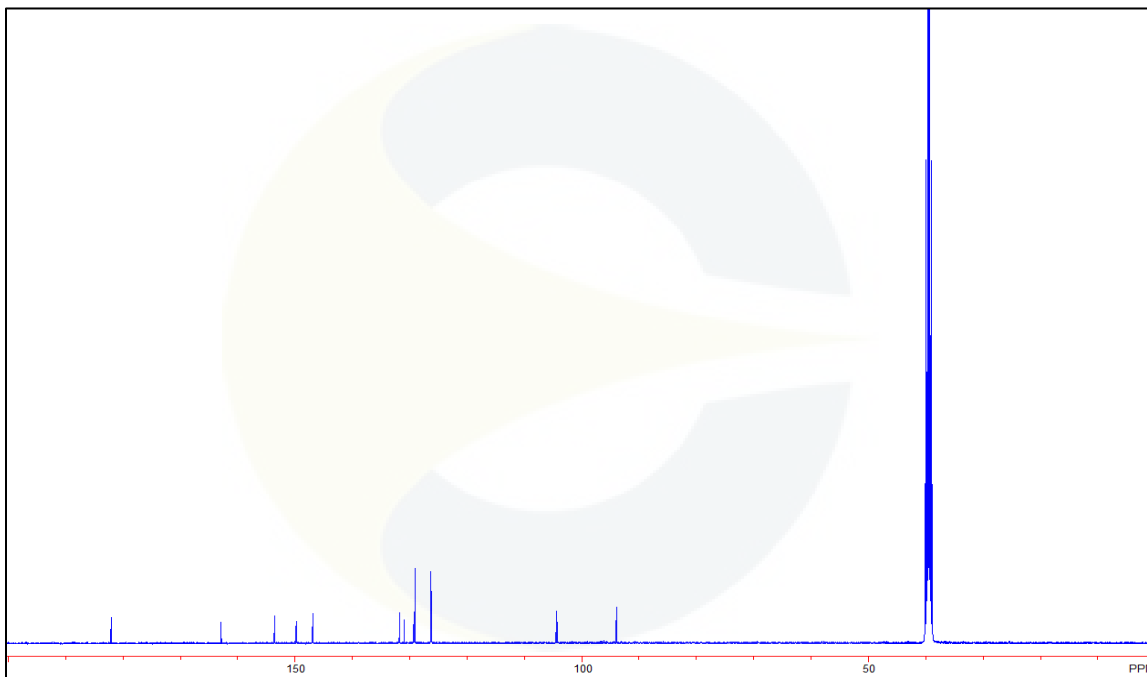


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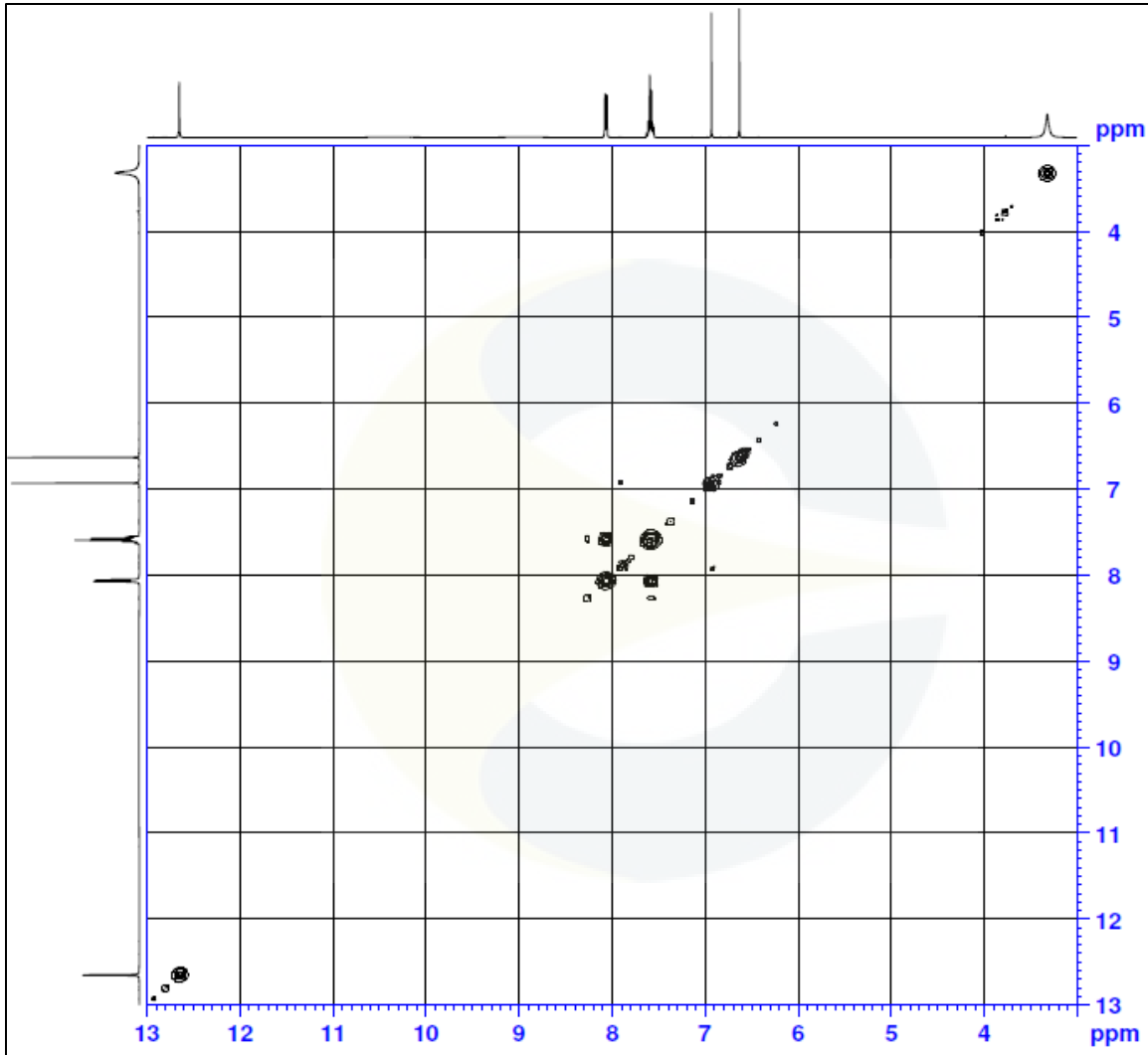
MASS SPECTRUM OF BAICALEIN (CDXA-17-009638)**¹H-NMR SPECTRUM OF BAICALEIN (CDXA-17-009638) IN DMSO-d₆**

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¹³C-NMR SPECTRUM OF BAICALEIN (CDXA-17-009638) IN DMSO-d₆



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COSY-NMR SPECTRUM OF BAICALEIN (CDXA-17-009638) IN DMSO-d₆

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	08/21/2017	New report
01	09/03/2021	Passed re-evaluation by HPLC, KF. Updated expiration date, analytical results, analytical conditions, and chromatograms. Added EC#.

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