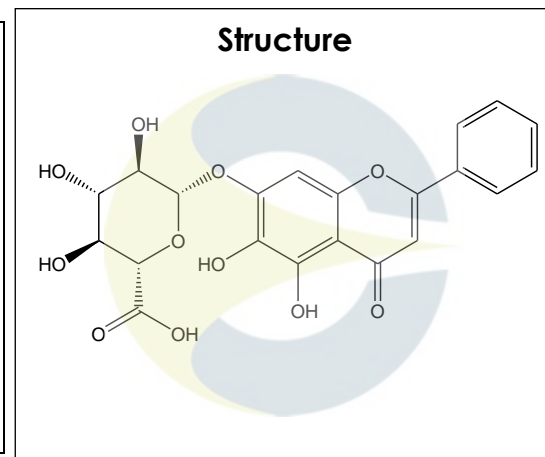


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PRODUCT NAME	Baicalin
PART NUMBER	00002030
STANDARD TYPE	Primary (P)
LOT NUMBER	00002030-706
REPORT NUMBER	CDXA-RSS-9147-00
SAMPLE NUMBER	CDXP-20-00647
DATE OF SAMPLE	09/02/2020
DATE OF REPORT	10/02/2020



CHEMICAL NAMES	5,6-Dihydroxy-4-oxo-2-phenyl-4H-1-benzopyran-7-yl β-D-glucopyranosiduronic acid; Baicalein 7-O-β-D-glucuronide
CHEMICAL FORMULA	C ₂₁ H ₁₈ O ₁₁
MOLECULAR WEIGHT (MW)	446.36
CHEMICAL FAMILY	Flavonoids
CAS NUMBER	[21967-41-9]
EC#(EINECS)	606-866-1
RTECS	LZ5776910

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	97.4%
HPLC	0.700.10.2.METH22	≥ 90%	98.5%
NMR	0.700.12.4	Conforms to structure	Conforms to structure
Mass Spectrum	0.700.12.27	Conforms	Conforms
Residual Solvent*	USP <467>	NA	MeOH – 807 ppm
Water	0.700.12.37	NA	1.0%
Appearance	NA	NA	Yellow Powder

*Testing performed at an ISO 17025 accredited subcontracted laboratory.
 ADJUSTED PURITY: 97.4% IS BASED ON (100 - 0.1 SOLVENTS - 1.0 WATER) X 98.5% HPLC

STORAGE CONDITIONS

STORAGE	+4 °C in a dry place.
EXPIRATION DATE	09/2025 under the above conditions.

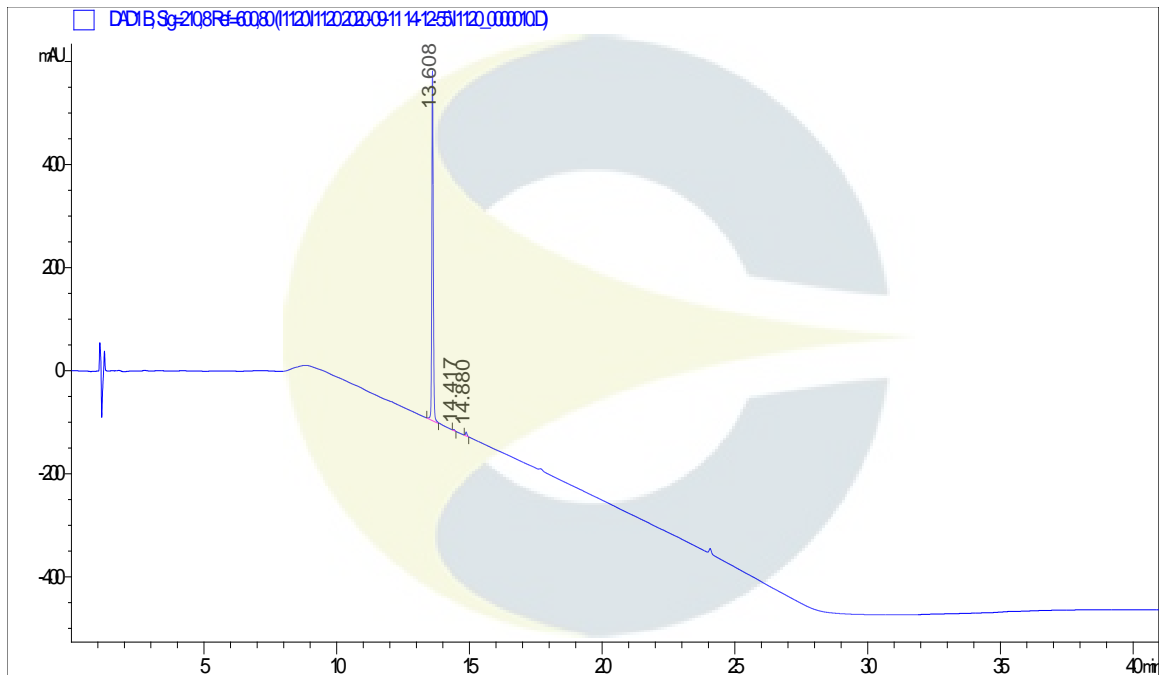
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ANALYTICAL CONDITIONS

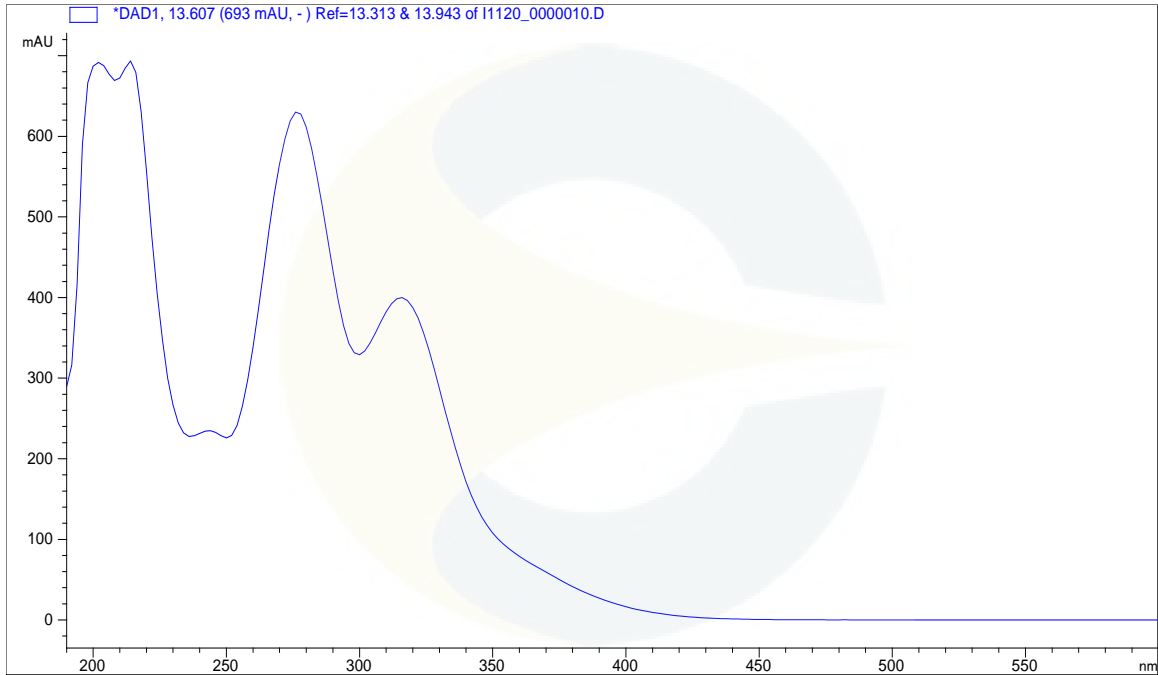
INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD); AB-SCIEX 6600 TRIPLE TOF
COLUMN	Phenomenex Luna C18(2) 150 x 2.00 mm, 5 µm particle size
MOBILE PHASE	A - 0.1% Trifluoroacetic acid in Ultrapure water, B - Acetonitrile; Isocratic 5% B for 5 minutes, then increasing to 95% B over 20 minutes. Hold at 95% B for 15 minutes, 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.	1.3 mg/mL in Methanol
DETECTION	210 ± 4 nm

HPLC CHROMATOGRAM OF BAICALIN (CDXP-20-00647)


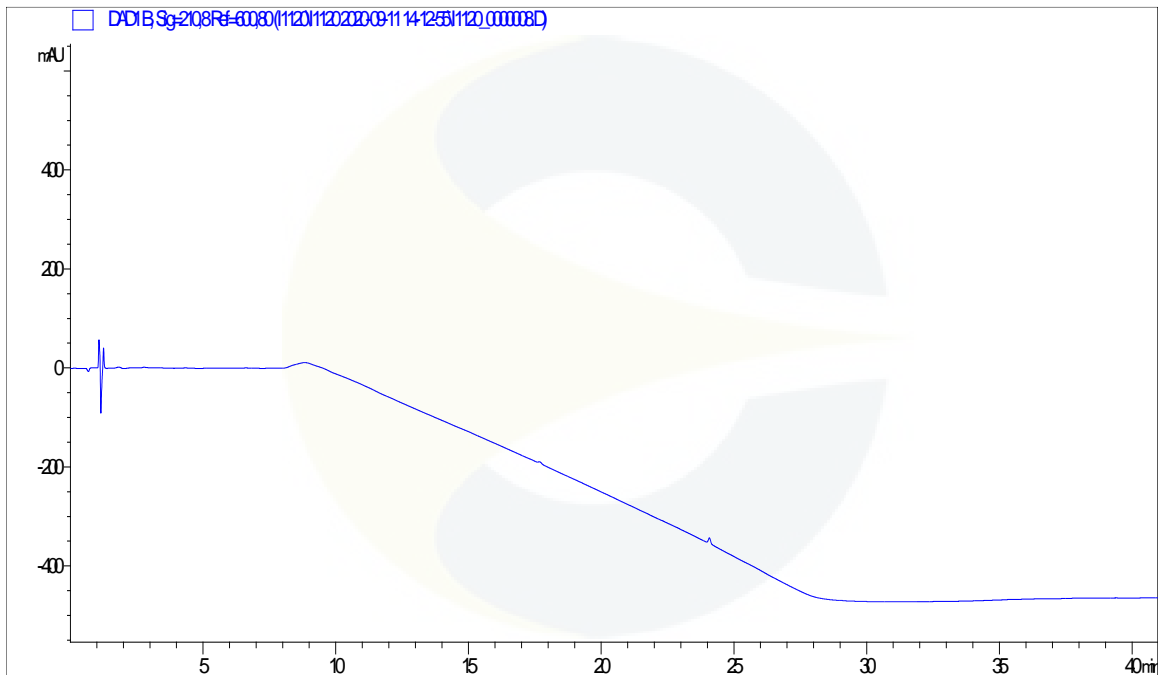
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UV SPECTRUM AT RT = 13.6 MINUTES

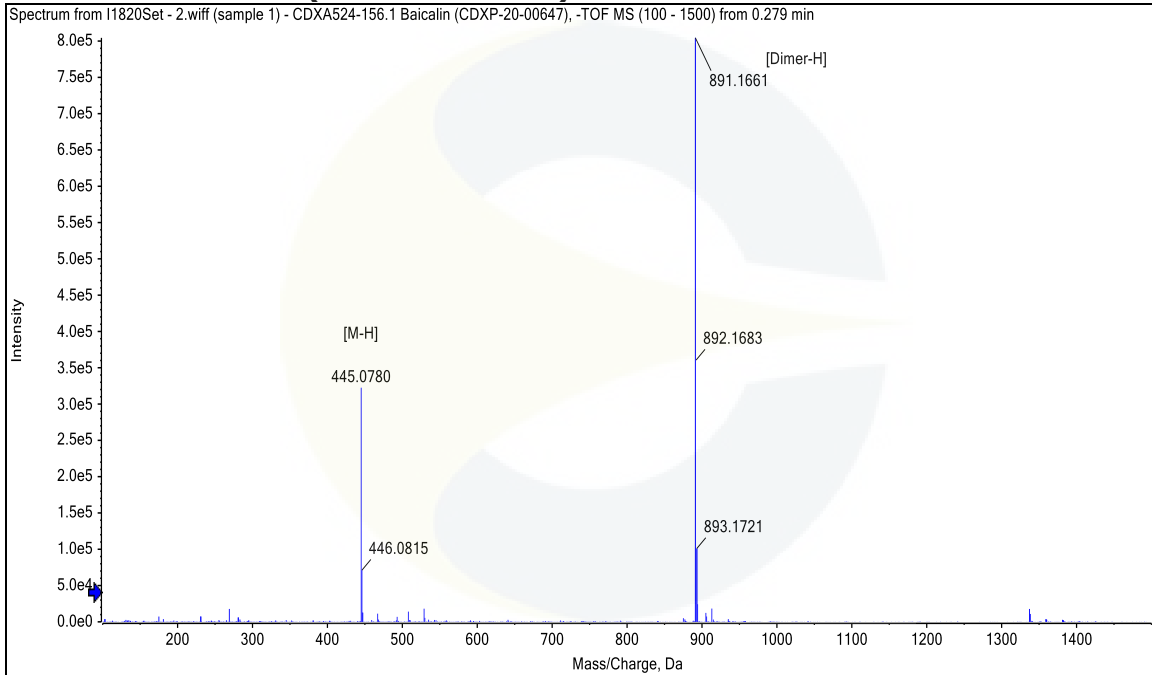


HPLC CHROMATOGRAM OF DILUENT BLANK

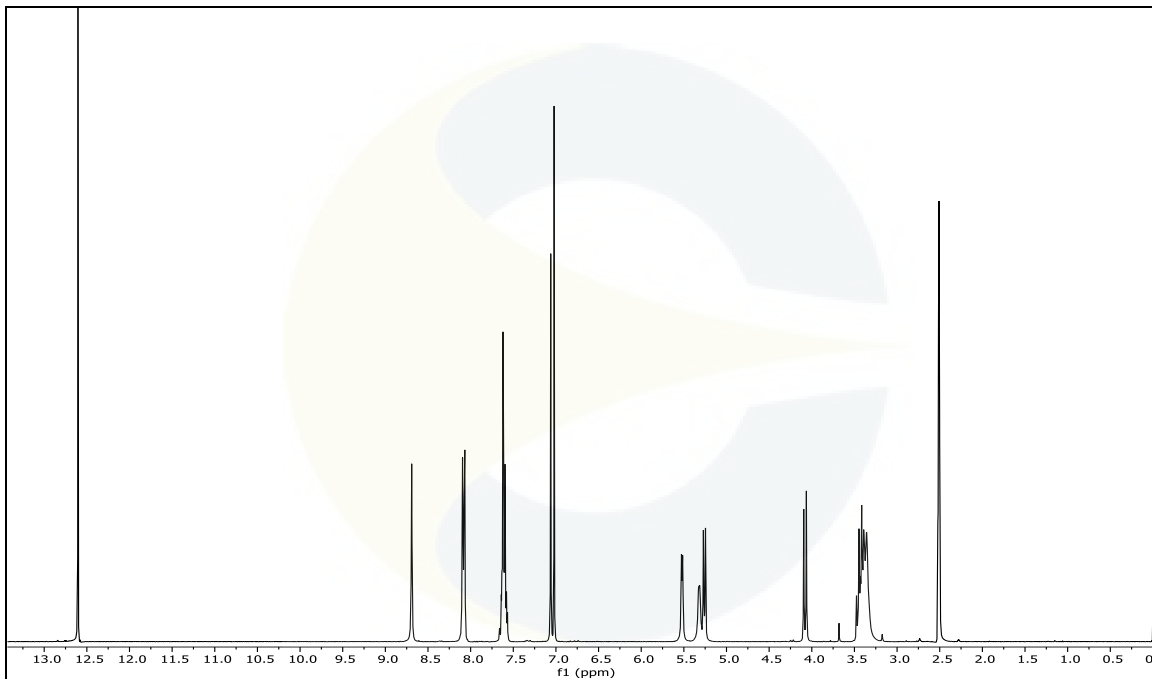


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MASS SPECTRUM OF BAICALIN (CDXP-20-00647)

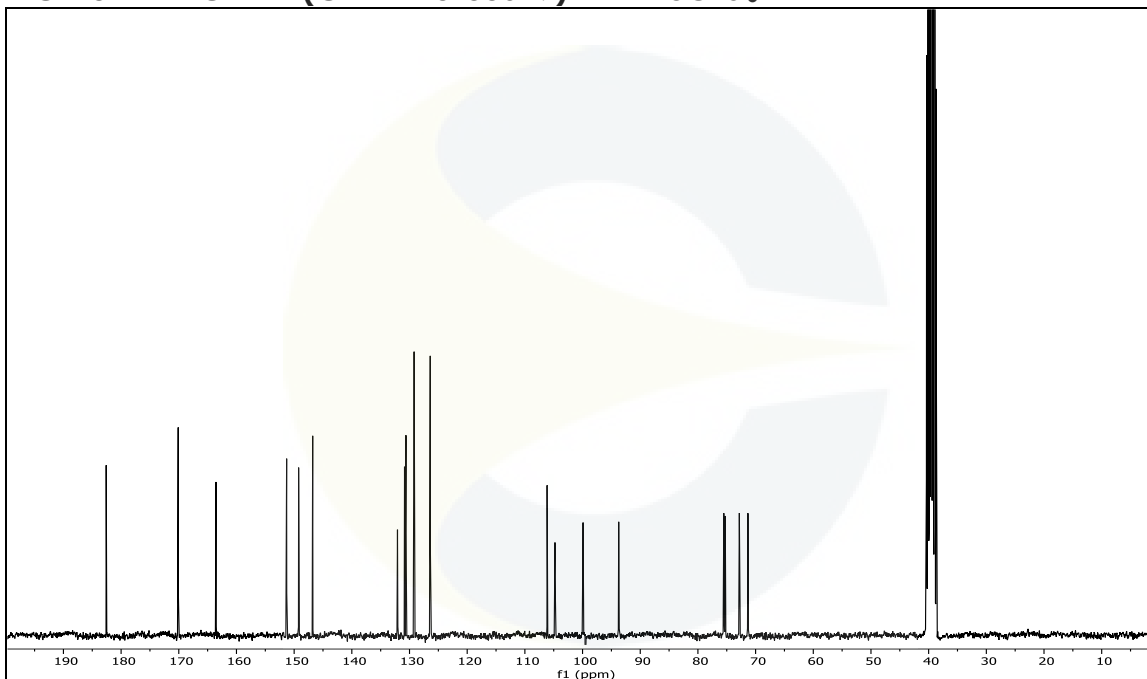


¹H-NMR SPECTRUM OF BAICALIN (CDXP-20-00647) IN DMSO-d₆

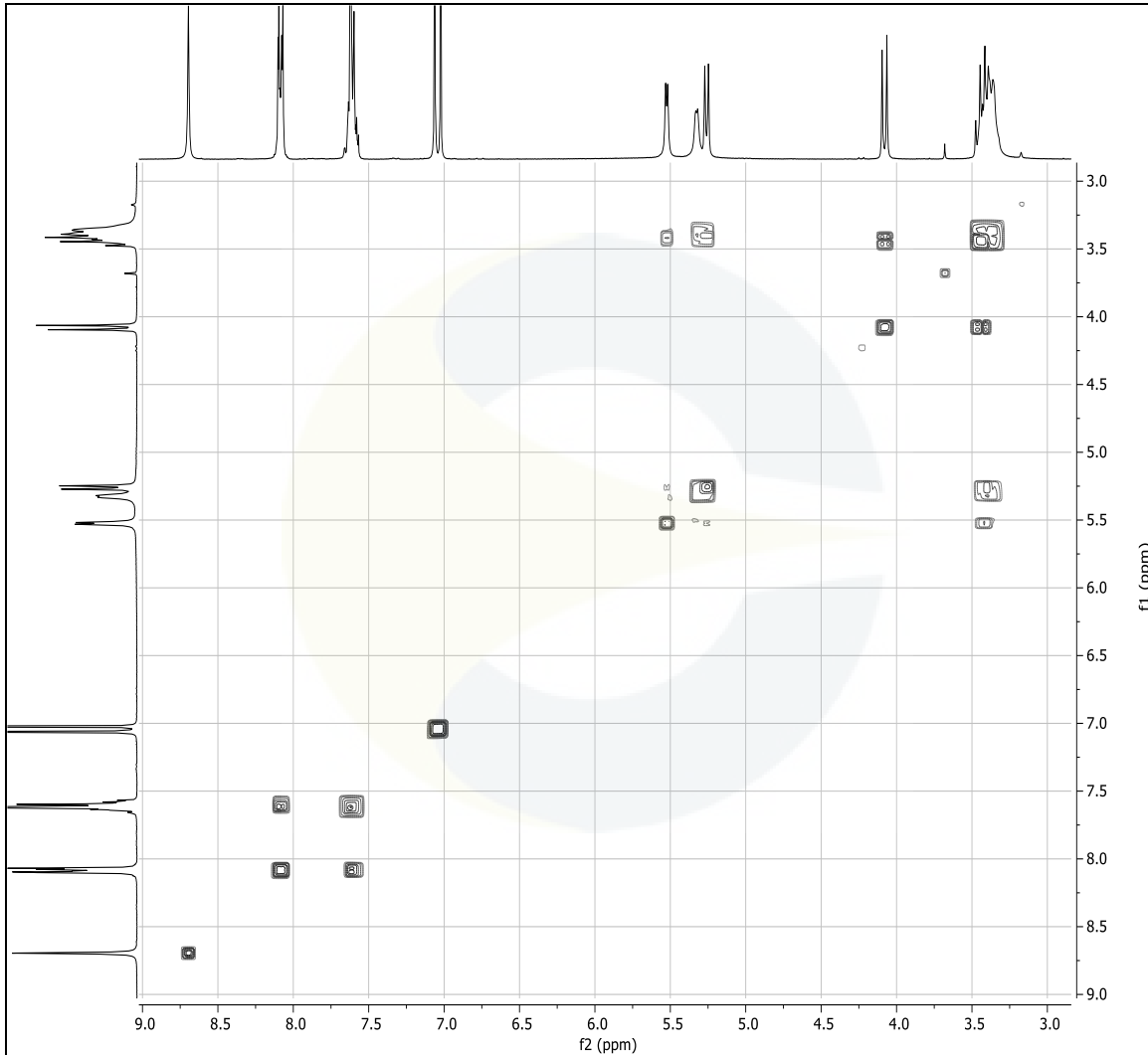


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¹³C-NMR SPECTRUM BAICALIN (CDXP-20-00647) IN DMSO-d₆



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COSY-NMR SPECTRUM OF BAICALIN (CDXP-20-00647) IN DMSO-d₆

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	10/02/2020	New report

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