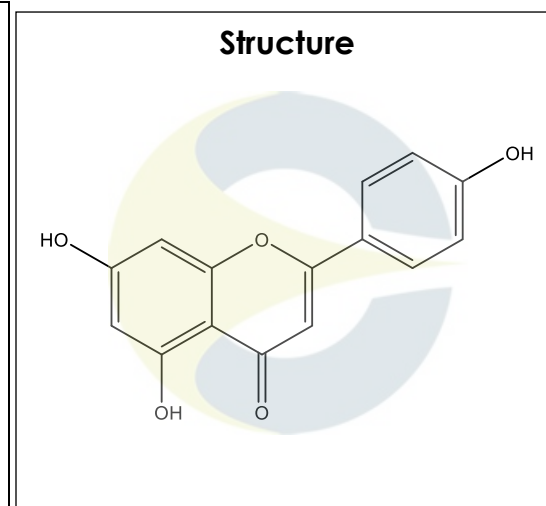


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PRODUCT NAME	Apigenin
PART NUMBER	00001900
STANDARD TYPE	Primary (P)
LOT NUMBER	00001900-128
REPORT NUMBER	CDXA-RSS-1739-02
SAMPLE NUMBER	CDXA-07-1260
DATE OF SAMPLE	05/24/2007
DATE OF RE-EVALUATION	01/05/2012(1 st); 05/11/2016(2 nd); 03/05/2021 (3 rd)
DATE OF REPORT	04/26/2021



CHEMICAL NAMES	5,7-Dihydroxy-2-(4-hydroxyphenyl)-4H-1-benzopyran-4-one; 4',5,7-Trihydroxyflavone; Apigenine; Apigenol
CHEMICAL FORMULA	C ₁₅ H ₁₀ O ₅
MOLECULAR WEIGHT (MW)	270.24
CHEMICAL FAMILY	Flavones
CAS NUMBER	[520-36-5]
EC#(EINECS)	208-292-3
RTECS	LK9276000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	98.0%
HPLC	0.700.10.2.METH22	≥ 90%	98.9%
NMR	0.700.12.4	Conforms to structure	Conforms to structure
Mass Spectrum	Direct Infusion, ESI (-)	Conforms	Conforms
Residual Solvent	CDXA-AM-001-04	NA	Chloroform – 0.1% Toluene – 0.1%
Water	0.700.12.37	NA	0.7%
Appearance	NA	NA	Light yellow powder

ADJUSTED PURITY: 98.0% IS BASED ON (100 - 0.2 SOLVENTS - 0.7 WATER) X 98.9% HPLC

STORAGE CONDITIONS

STORAGE	Room Temperature in a dry place.
EXPIRATION DATE	03/2026 under the above conditions.

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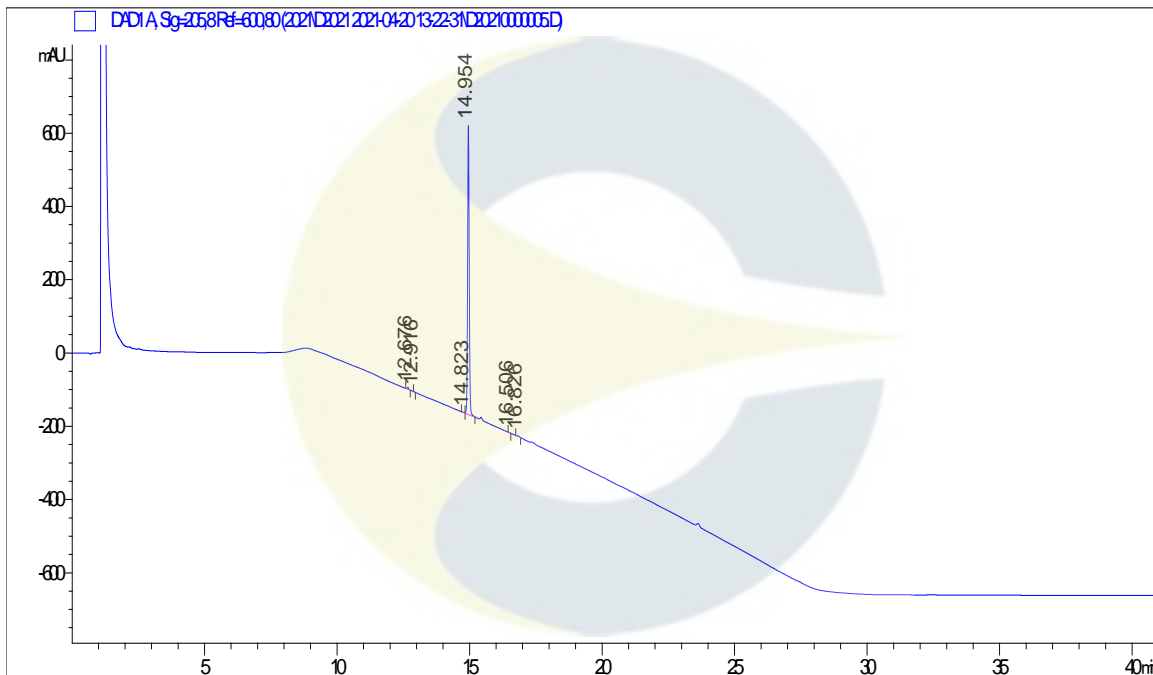
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ANALYTICAL CONDITIONS

INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD); FINNIGAN LCQ-DECA
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.	1.0 mg/mL in Dimethyl sulfoxide
DETECTION	205 ± 4 nm

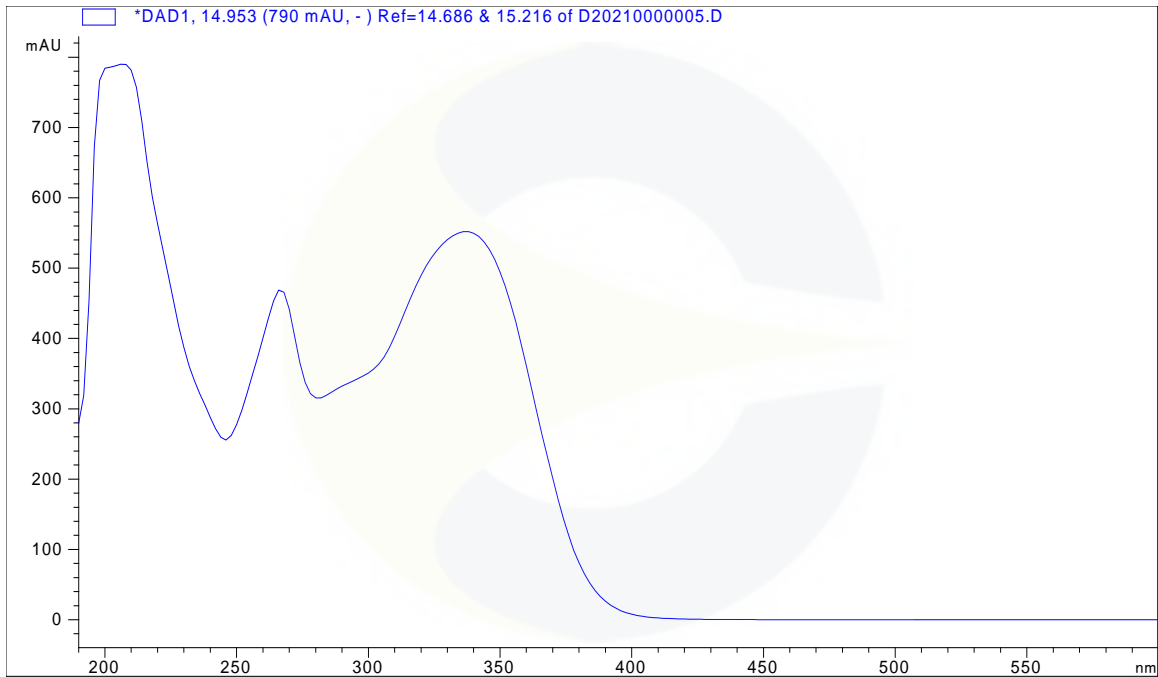
HPLC CHROMATOGRAM OF APIGENIN (CDXA-07-1260)



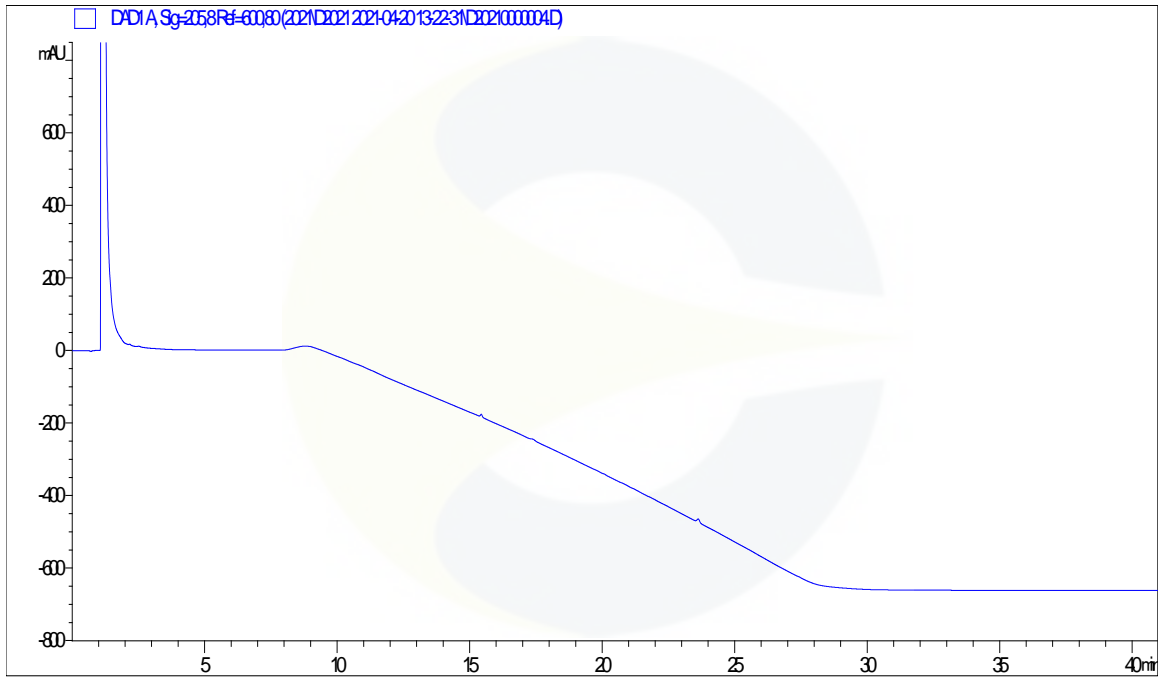
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UV SPECTRUM AT 15.0 MINUTES



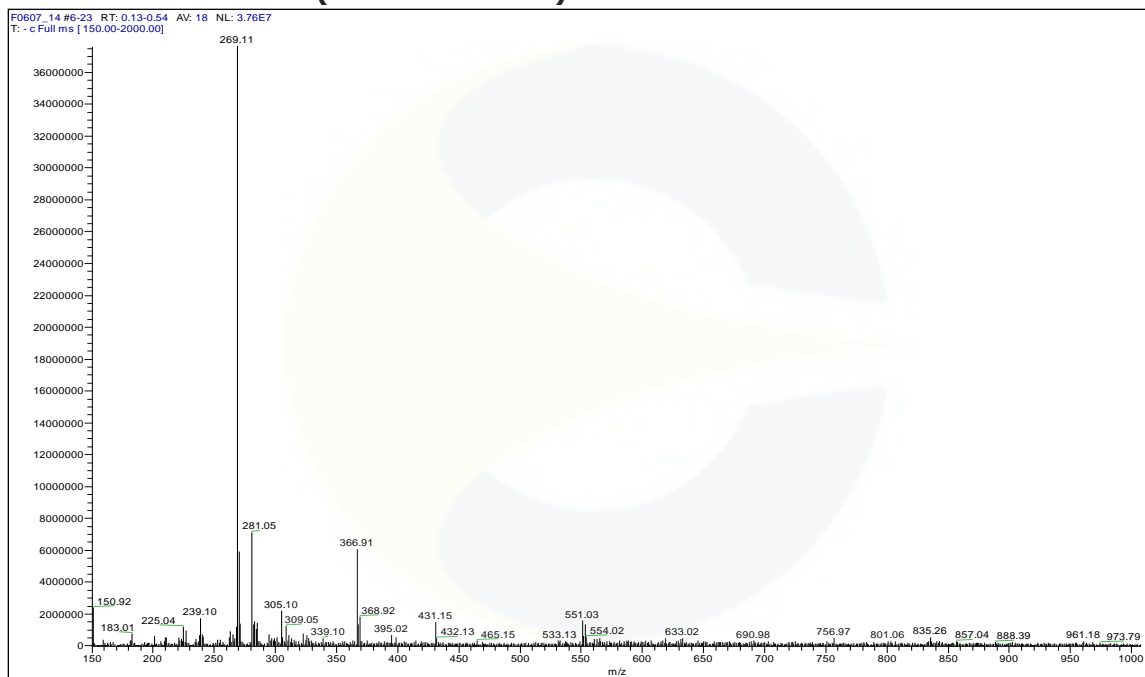
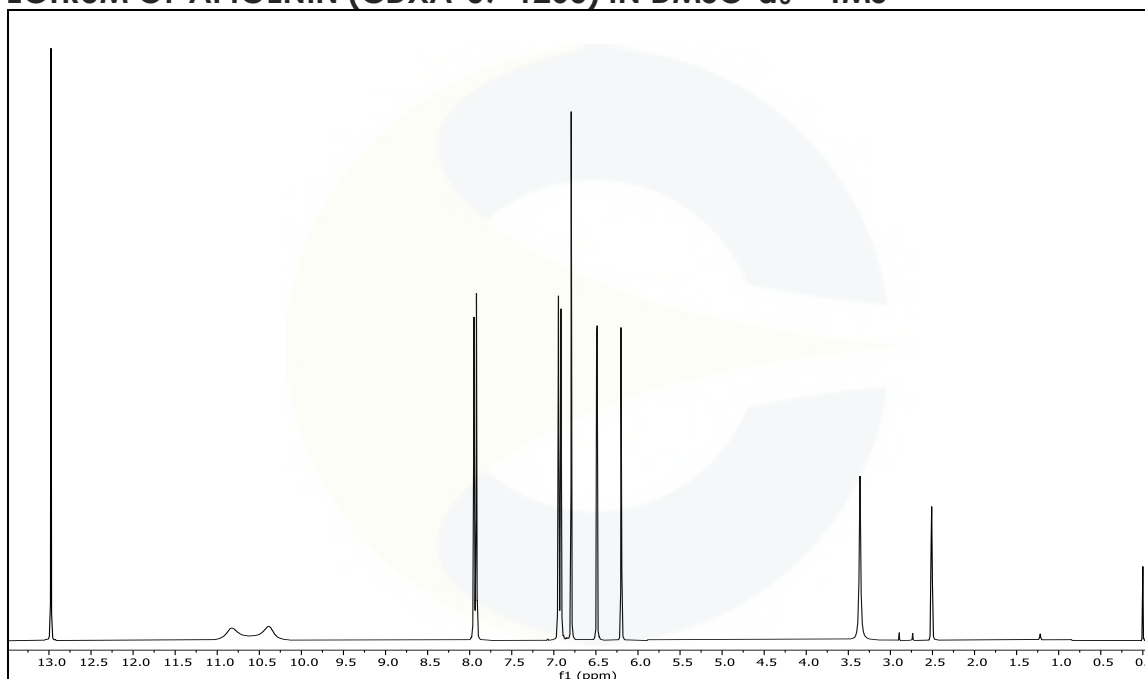
HPLC CHROMATOGRAM OF DILUENT BLANK



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Email: customerservice@lifetechindia.com Website: www.lifetechindia.com

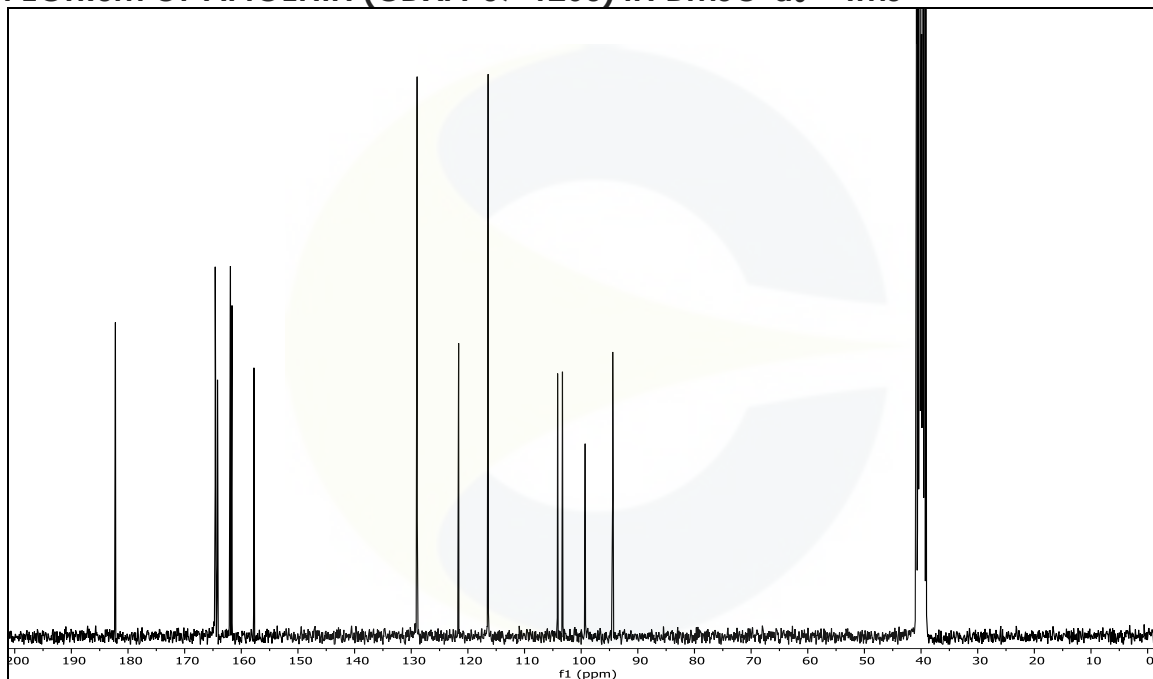
MASS SPECTRUM OF APIGENIN (CDXA-07-1260)

¹H-NMR SPECTRUM OF APIGENIN (CDXA-07-1260) IN DMSO-d₆ + TMS


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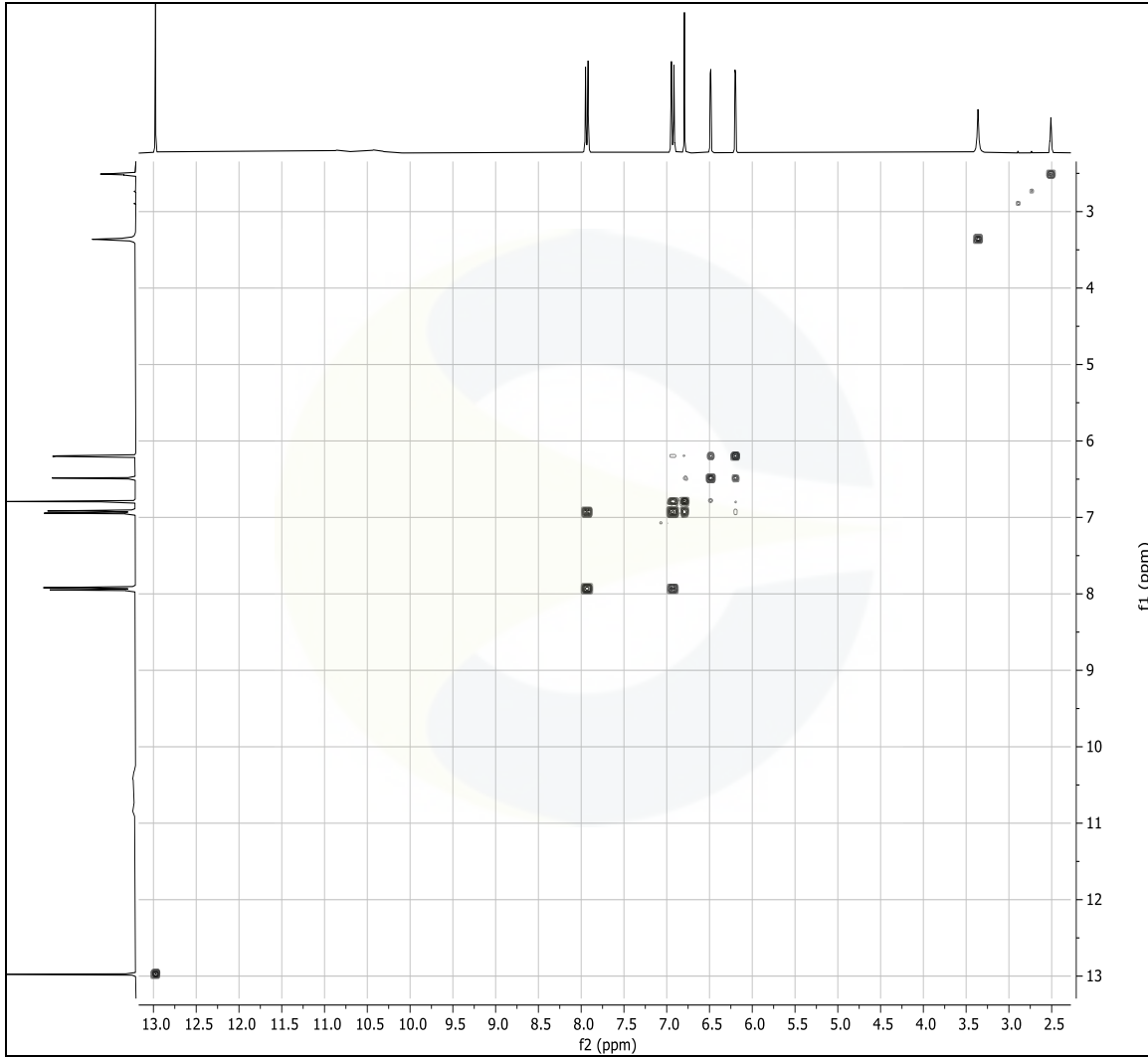
¹³C-NMR SPECTRUM OF APIGENIN (CDXA-07-1260) IN DMSO-d₆ + TMS



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COSY-NMR SPECTRUM OF APIGENIN (CDXA-07-1260) IN DMSO-d₆ + TMS

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	02/03/2012	New report and first re-evaluation.
01	06/01/2016	Passed second re-evaluation by HPLC, KF. Updated expiration date and melting point.
02	04/26/2021	Passed reevaluation by HPLC, KF, and NMR. Updated analytical conditions, analytical results, chromatograms, NMR spectra, and expiration date.

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