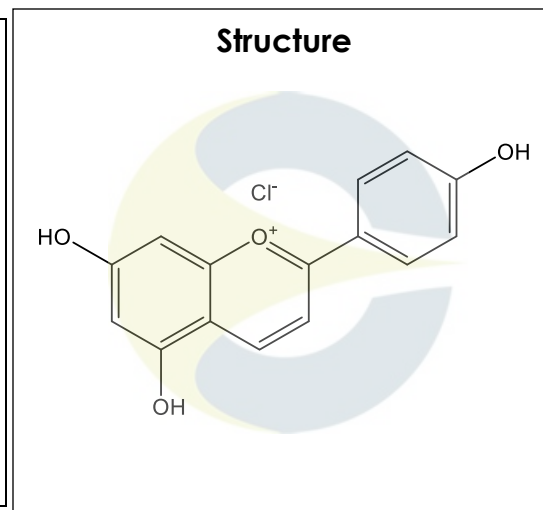


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PRODUCT NAME	Apigeninidin chloride
PART NUMBER	00001925
STANDARD TYPE	Primary (P)
LOT NUMBER	00001925-602
REPORT NUMBER	CDXA-RSS-7505-01
SAMPLE NUMBER	CDXA-17-003775
DATE OF SAMPLE	03/17/2017
DATE OF RE-EVALUATION	04/26/2021
DATE OF REPORT	05/12/2021



CHEMICAL NAMES	5,7-Dihydroxy-2-(4-hydroxyphenyl)-1-benzopyrylium chloride (1:1); Gesneridin; 4',5,7-Trihydroxyflavylium chloride
CHEMICAL FORMULA	C ₁₅ H ₁₁ O ₄ • Cl
MOLECULAR WEIGHT (MW)	290.69
CHEMICAL FAMILY	Anthocyanidins
CAS NUMBER	[1151-98-0]
EC#(EINECS)	NA
RTECS	NA

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	90.3%
HPLC	0.700.10.2.METH22	≥ 90%	96.5%
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	MeOH: 0.3 %; ACN< 0.1%
Water	0.700.12.37	NA	6.1%
Appearance	NA	NA	Red powder

ADJUSTED PURITY: 90.3% IS BASED ON (100 - 0.3 SOLVENTS - 6.1 WATER) X 96.5% HPLC

STORAGE CONDITIONS

STORAGE	-20 °C in a dry place.
EXPIRATION DATE	04/2026 under the above conditions.

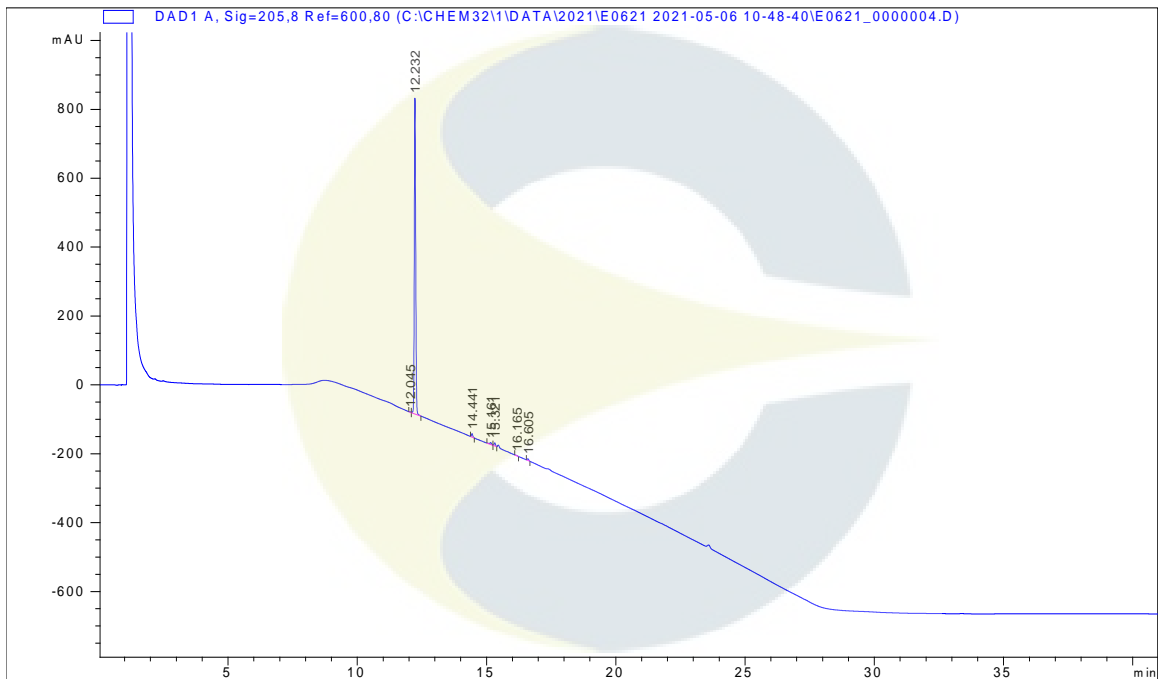
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ANALYTICAL CONDITIONS

INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD); AGILENT 6510 QTOF
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 DMSO
DETECTION	205 ± 4 nm

HPLC CHROMATOGRAM OF APIGENINIDIN CHLORIDE (CDXA-17-003775)

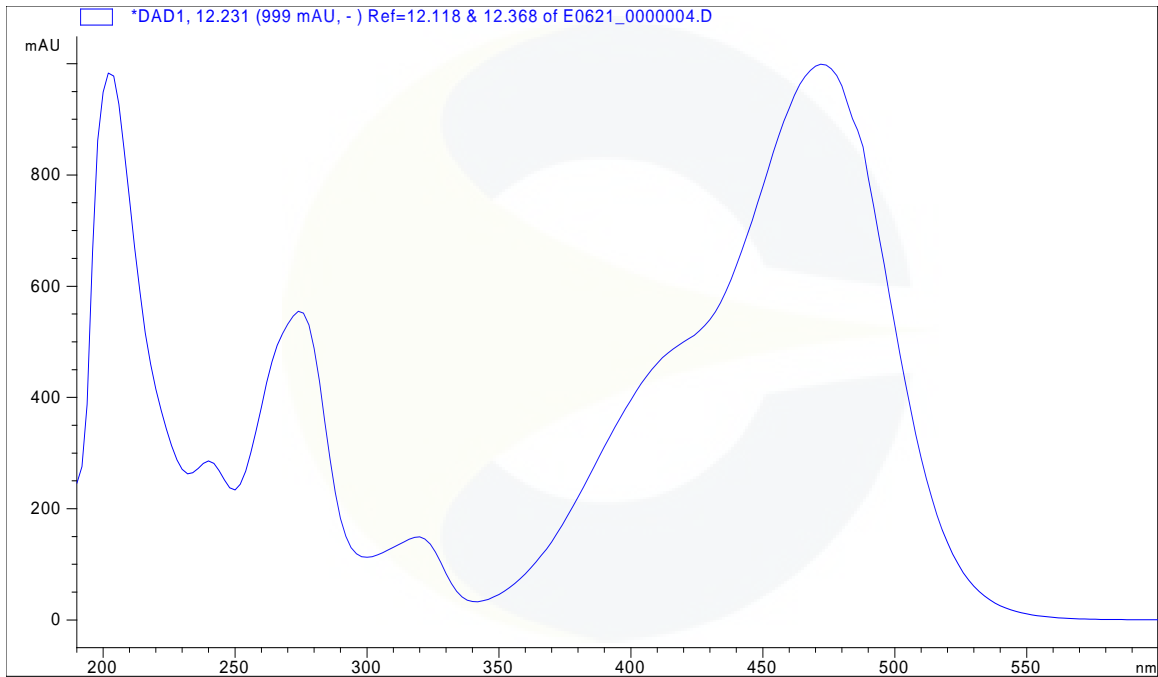


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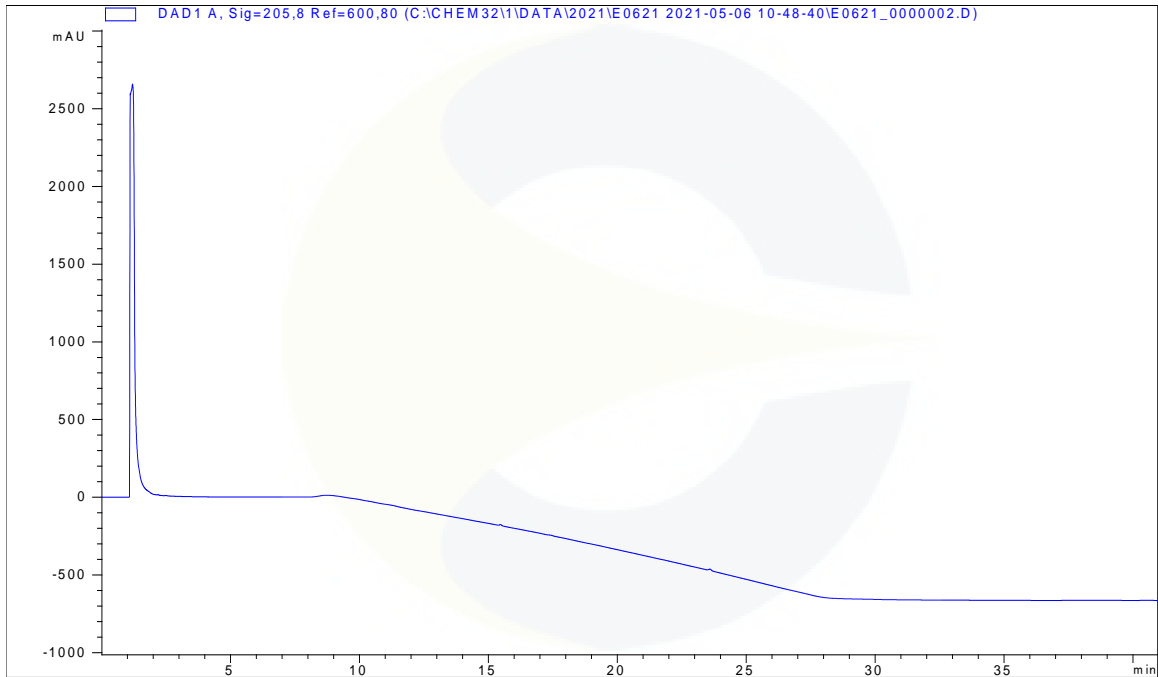
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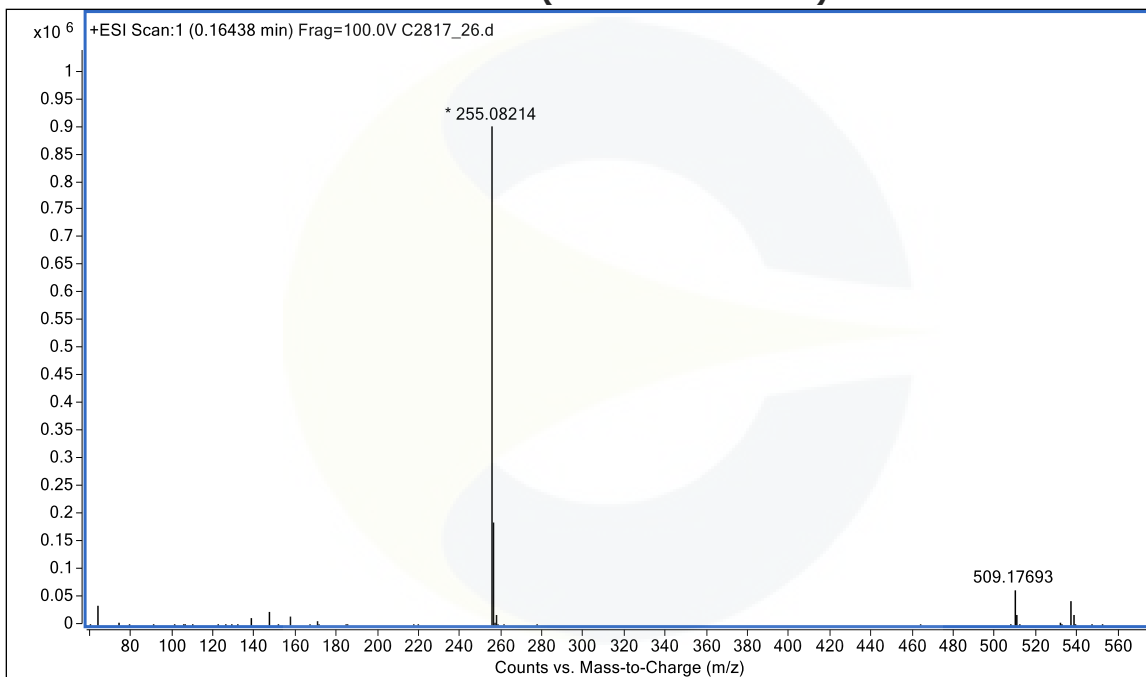
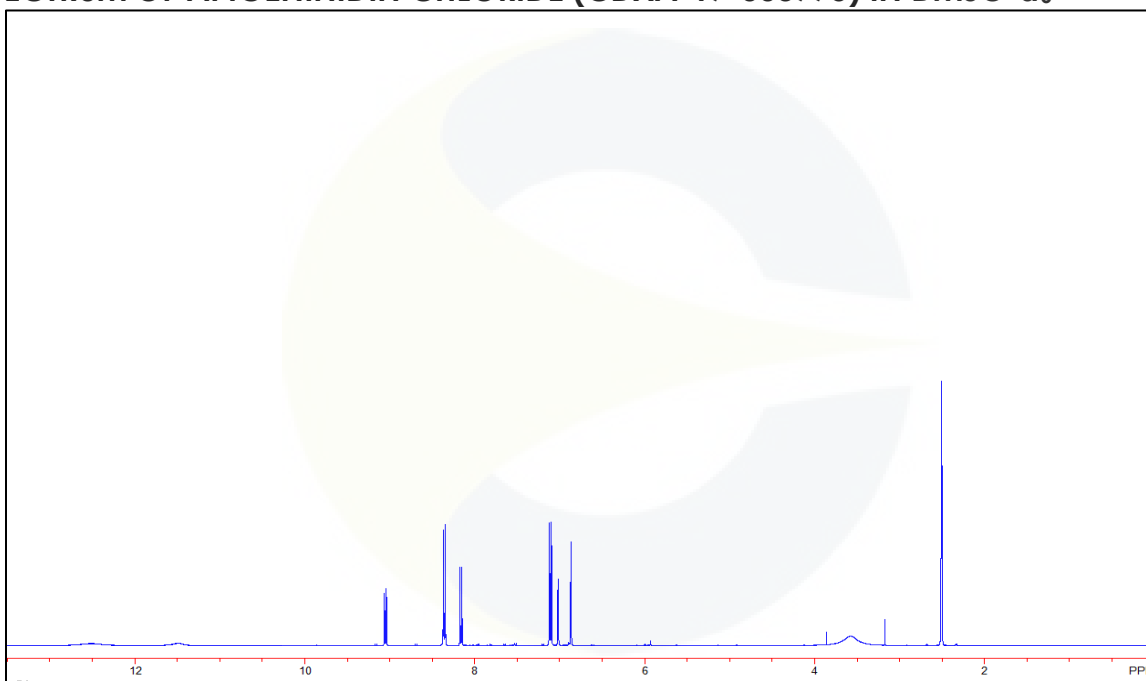
UV SPECTRUM AT 12.2 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK



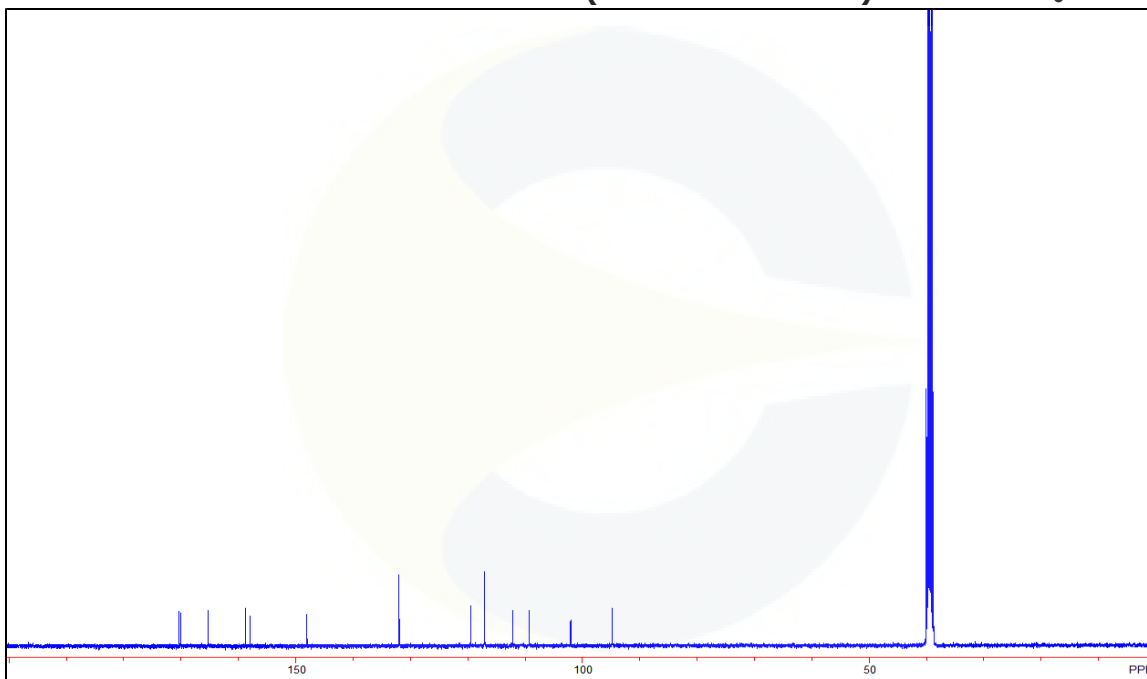
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MASS SPECTRUM OF APIGENINIDIN CHLORIDE (CDXA-17-003775)

¹H-NMR SPECTRUM OF APIGENINIDIN CHLORIDE (CDXA-17-003775) IN DMSO-d₆


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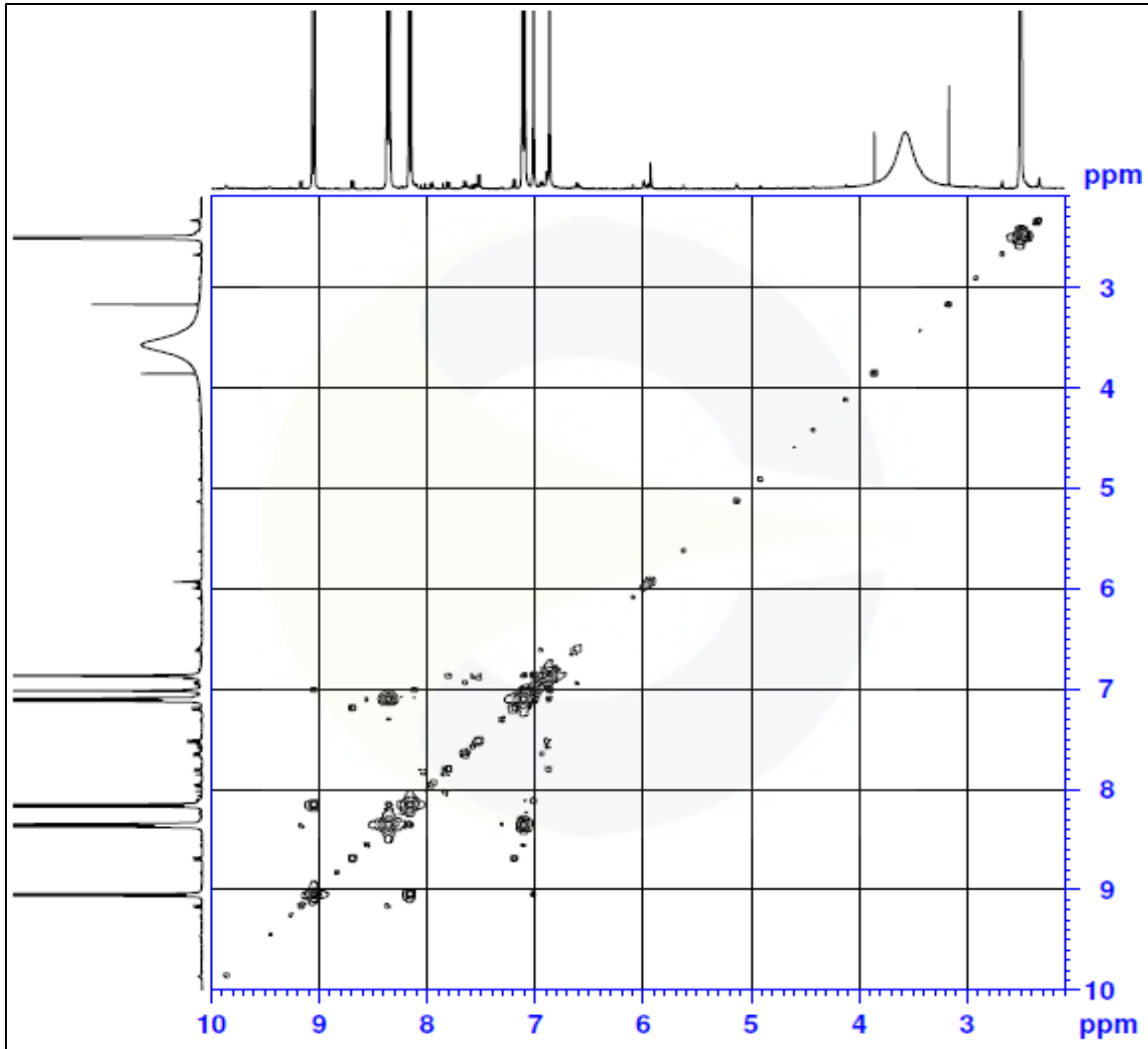
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¹³C-NMR SPECTRUM OF APIGENINIDIN CHLORIDE (CDXA-17-003775) IN DMSO-d₆

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COSY-NMR SPECTRUM OF APIGENINIDIN CHLORIDE (CDXA-17-003775) IN DMSO-d₆

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	05/02/2017	New report
01	05/12/2021	Material passed reevaluation by HPLC and KF. Updated analytical results, analytical conditions, expiration date, and chromatograms. Removed melting point.

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