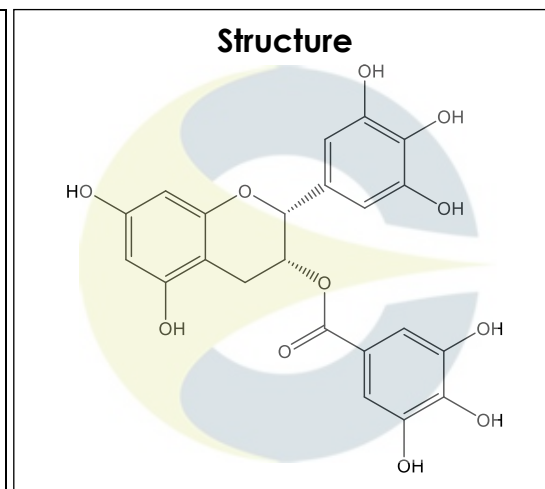


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PRODUCT NAME	(-)-Epigallocatechin gallate
PART NUMBER	00005150
STANDARD TYPE	Primary (P)
LOT NUMBER	00005150-008
REPORT NUMBER	CDXA-RSS-1240-03
SAMPLE NUMBER	CDXA-06-1526
DATE OF SAMPLE	20Oct2006
DATE OF RE-EVALUATION	22Dec2010 (1 st); 03Feb2015 (2 nd); 10Apr2019 (3 rd); 07Mar2023 (4 th)
DATE OF REPORT	20Mar2023



CHEMICAL NAMES	3-O-Galloyl-(-)-epigallocatechin; Theilokeep; Epigallocatechin-3-gallate
CHEMICAL FORMULA	C ₂₂ H ₁₈ O ₁₁
MOLECULAR WEIGHT (MW)	458.37
CHEMICAL FAMILY	Catechins
CAS NUMBER	[989-51-5]
EC#(EINECS)	479-560-7
RTECS	KB5200000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	93.5%
HPLC	0.700.10.2.METH22	≥ 90%	97.7%
NMR	0.700.12.4	Conforms to structure	Conforms to structure
Mass Spectrum	Direct Infusion, ESI (+)	Conforms	Conforms
Residual Solvent	CDXA-AM-001-05	NA	DMF – 0.1%
Water	0.700.12.37	NA	4.2%
Appearance	NA	NA	White powder

ADJUSTED PURITY: 93.5% IS BASED ON (100 - 0.1 SOLVENTS - 4.2 WATER) X 97.7% HPLC

STORAGE CONDITIONS

STORAGE	+4 °C in a dry place.
EXPIRATION DATE	03/2028 under the above conditions.

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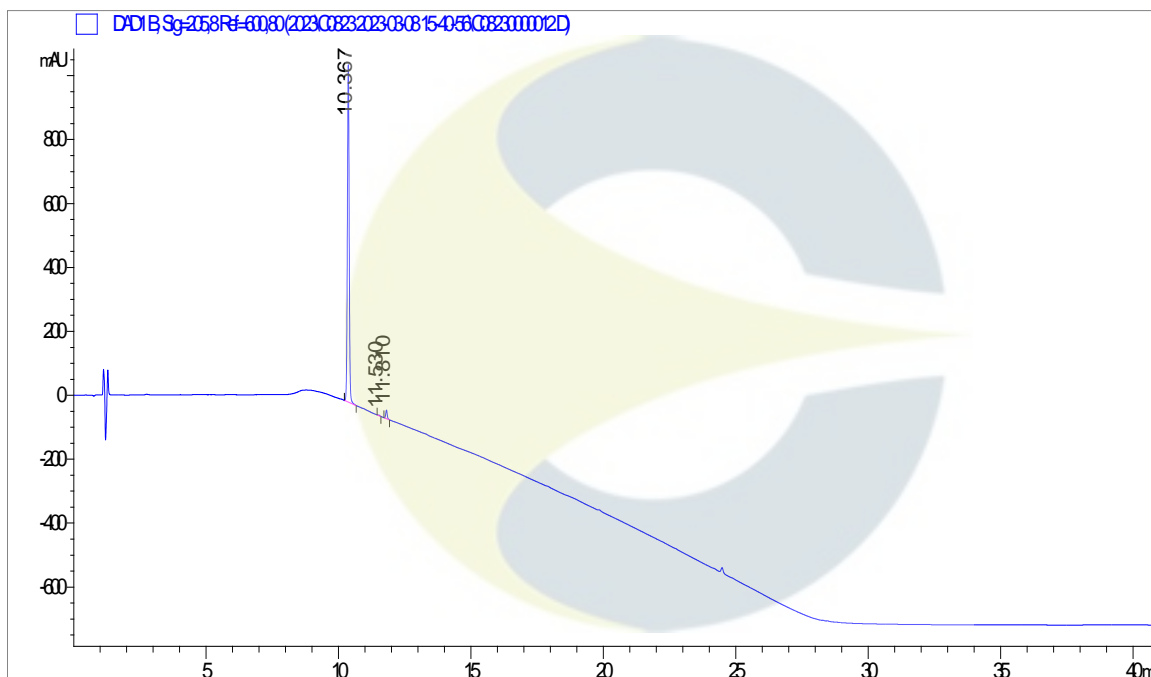
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ANALYTICAL CONDITIONS

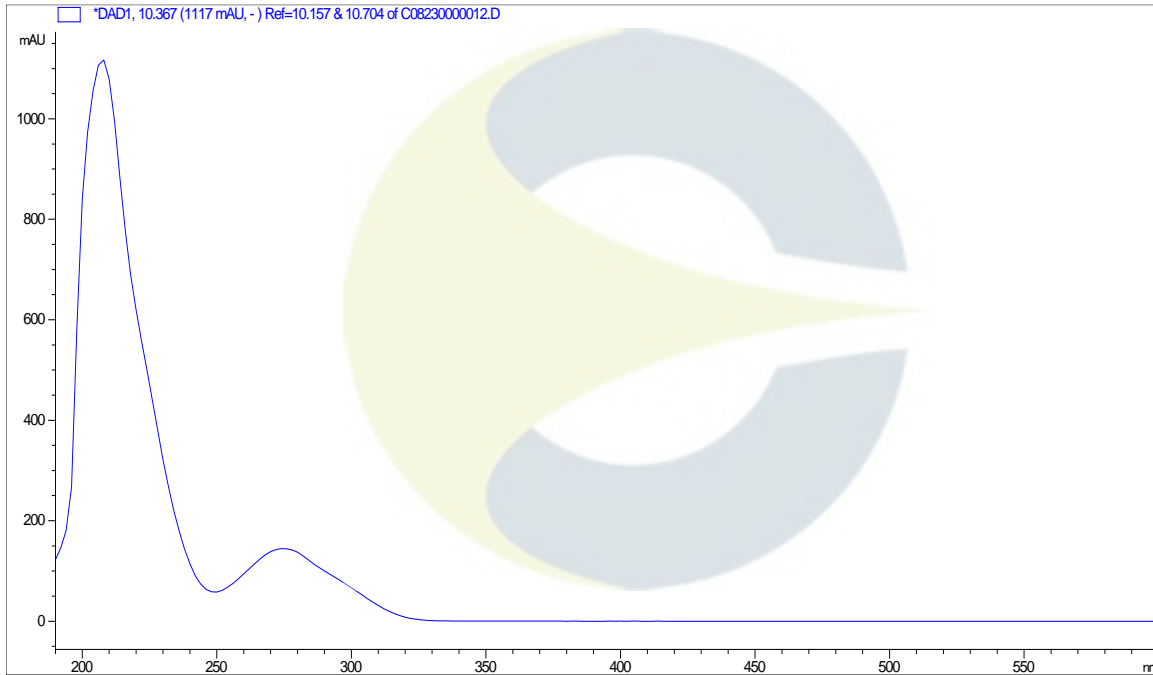
INSTRUMENT AGILENT 1260 HPLC UV-VIS (DAD); FINNIGAN LCQ-DECA
COLUMN Phenomenex Luna C18(2) 150 x 2.00 mm, 5 μ m particle size
MOBILE PHASE A - 0.1% Trifluoroacetic acid in Ultrapure water, B - Acetonitrile;

Minutes	%A	%B
0.0	95	5
5.0	95	5
20.0	5	95
35.0	5	95
36.0	95	5

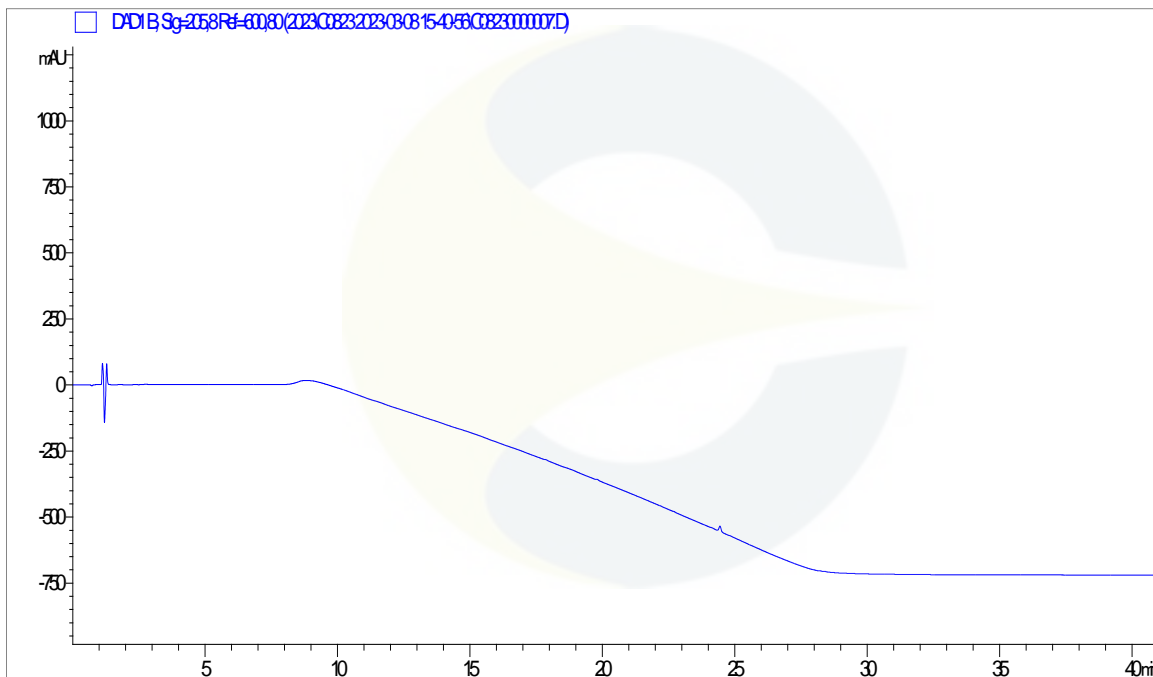
COLUMN TEMP. 60 °C
FLOW RATE 0.4 mL/minute
INJECTION VOL. 0.2 μ L
INJECTION CONC. 1.0 mg/mL in Methanol
DETECTION 205 \pm 4 nm

HPLC CHROMATOGRAM OF (-)-EPIGALLOCATECHIN GALLATE (00005150-008)


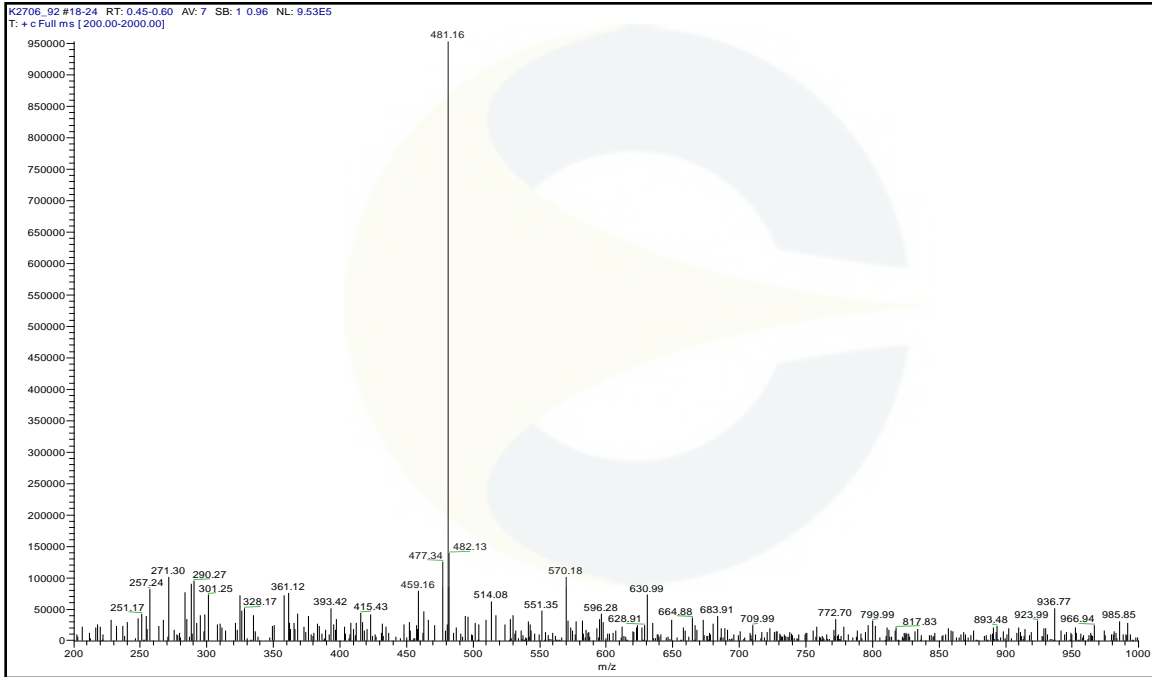
UV SPECTRUM AT RT = 10.4 MINUTES



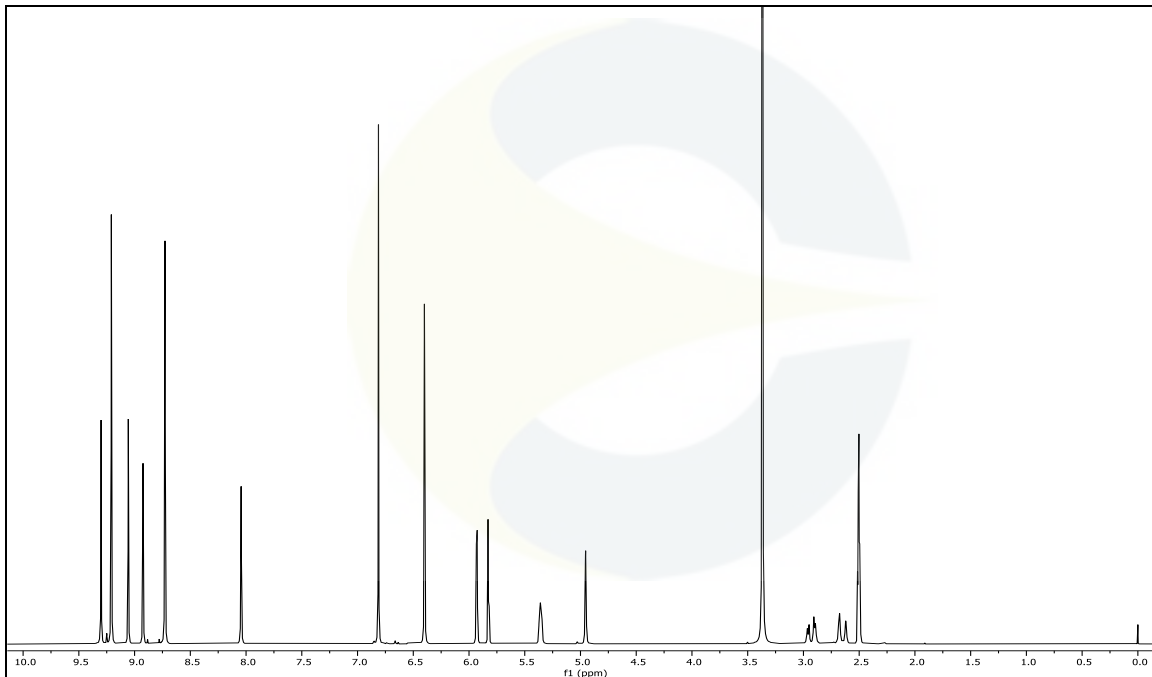
HPLC CHROMATOGRAM OF DILUENT BLANK



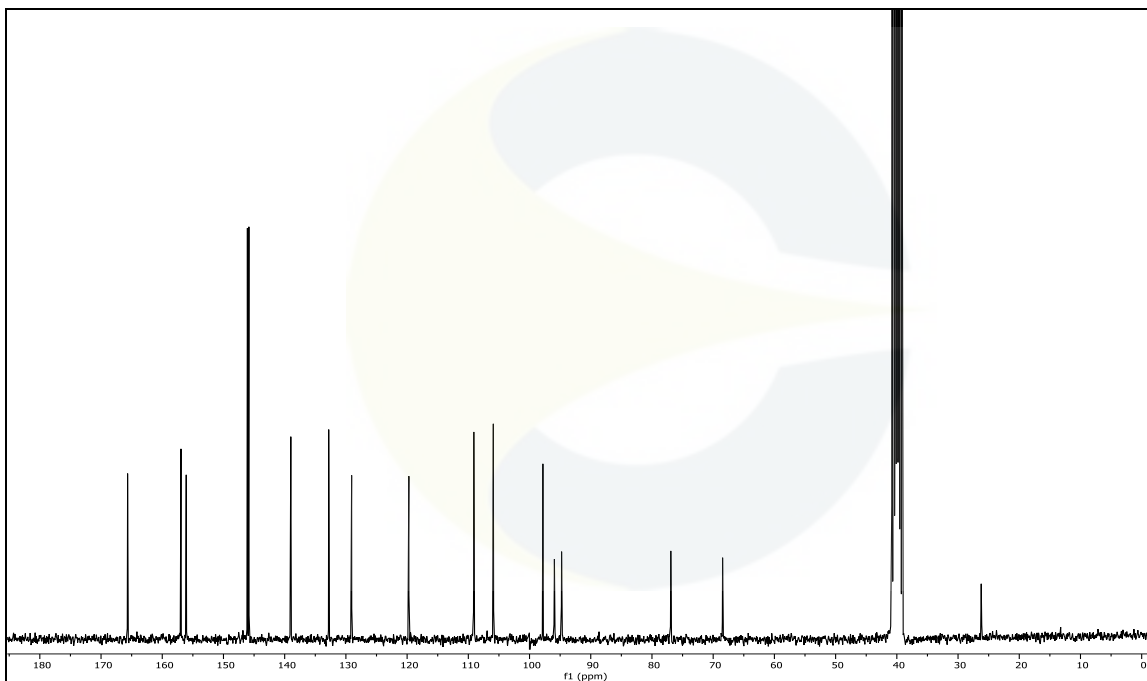
MASS SPECTRUM OF (-)-EPIGALLOCATECHIN GALLATE (00005150-008)

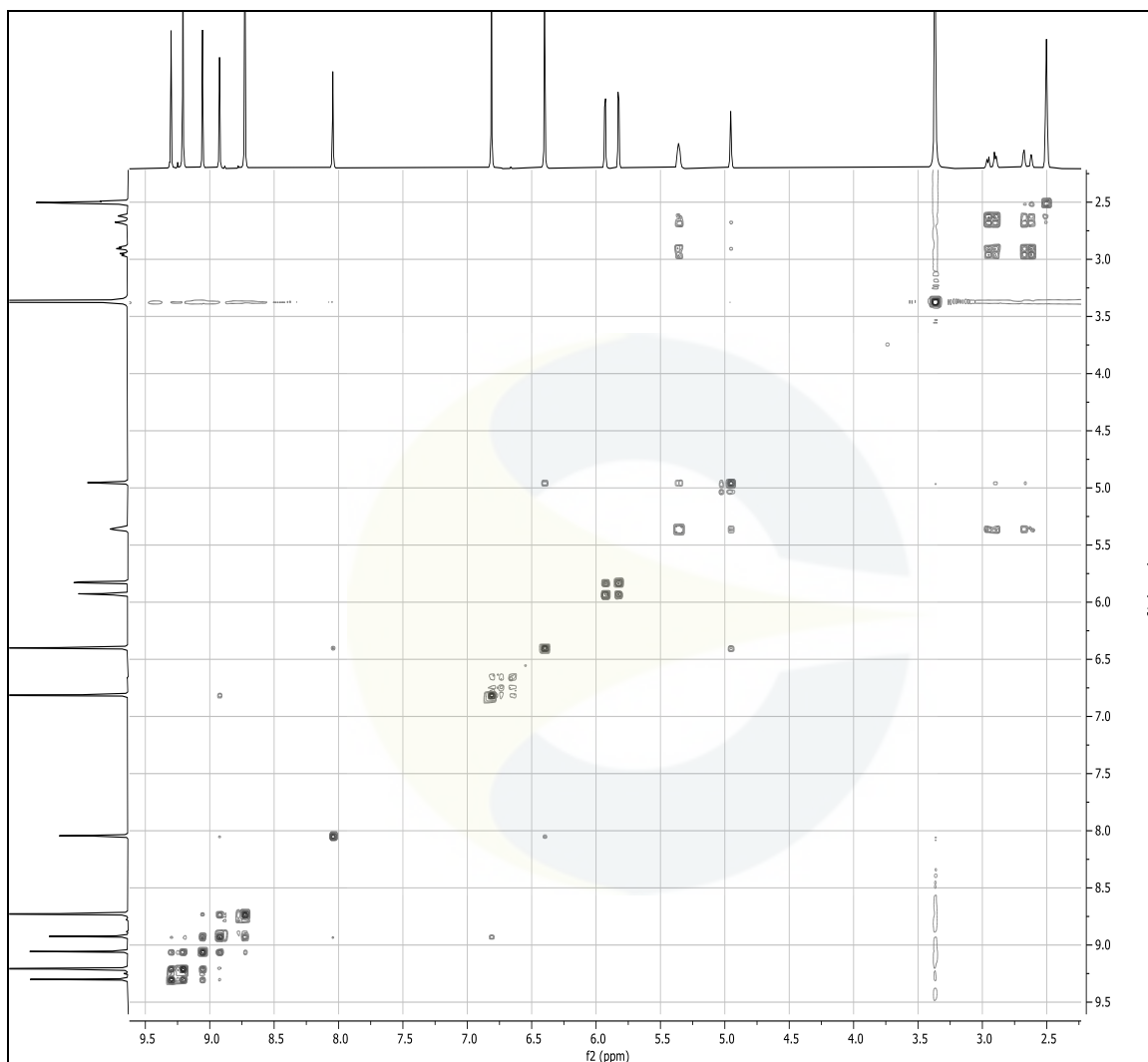


¹H-NMR SPECTRUM OF (-)-EPIGALLOCATECHIN GALLATE (00005150-008) IN DMSO-d₆ + TMS



¹³C-NMR SPECTRUM OF (-)-EPIGALLOCATECHIN GALLATE (00005150-008) IN DMSO-d₆ + TMS



COSY-NMR SPECTRUM OF (-)-EPIGALLOCATECHIN GALLATE (00005150-008) IN DMSO- d_6 + TMS

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	29Dec2010	New report and first re-evaluation
01	17Feb2015	Passed second re-evaluation by HPLC. Updated expiration date, chemical names, chemical family and melting point.
02	24Apr2019	Passed third re-evaluation by HPLC and KF. Updated analytical results, method, conditions, chromatograms, EINECS, and revised NMR solvent. Removed melting point.

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03	20Mar2023	Passed fourth re-evaluation by HPLC, KF. Updated expiration date, analytical results, analytical conditions, and chromatograms. Added NMR spectra. Updated document format.
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