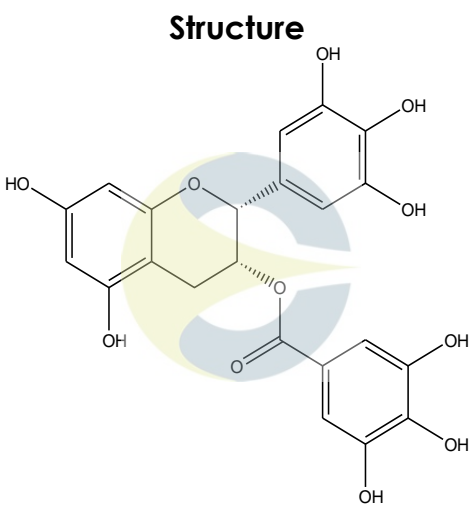


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<b>PRODUCT NAME</b>	(-)-Epigallocatechin gallate	 <p><b>Structure</b></p>
<b>PART NUMBER</b>	00005150	
<b>STANDARD TYPE</b>	Primary (P)	
<b>LOT NUMBER</b>	00005150-008	
<b>REPORT NUMBER</b>	CDXA-RSS-1240-02	
<b>SAMPLE NUMBER</b>	CDXA-06-1526	
<b>DATE OF SAMPLE</b>	10/20/2006	
<b>DATE OF RE-EVALUATION</b>	12/22/2010 (1 <sup>st</sup> ); 02/03/2015 (2 <sup>nd</sup> ); 04/10/2019 (3 <sup>rd</sup> )	
<b>DATE OF REPORT</b>	04/24/2019	

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

**ANALYTICAL RESULTS**

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	NA	94.1%
HPLC	99.1-04-1.0-000684	NA	98.5%
NMR	NA	Conforms to structure	Conforms to structure
Mass Spectrum	Direct Infusion, ESI (+)	Conforms	Conforms
Residual Solvent	CDXA-AM-001-05	NA	DMF – 0.1%
Water	99.1-04-10.0-000094	NA	4.4%
Appearance	NA	NA	White powder

ADJUSTED PURITY: 94.1% IS BASED ON (100 - 0.1 SOLVENTS - 4.4 WATER) X 98.5% HPLC

**STORAGE CONDITIONS**

<b>STORAGE</b>	+4 °C in a dry place.
<b>EXPIRATION DATE</b>	04/2024 under the above conditions.

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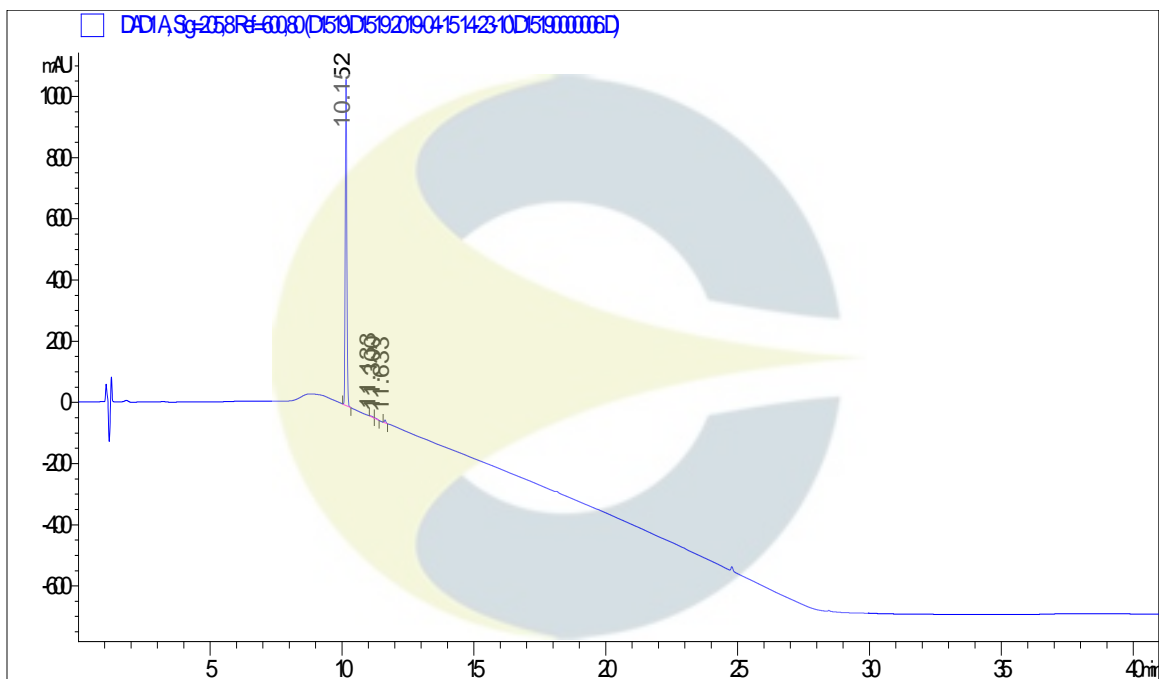
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### ANALYTICAL CONDITIONS

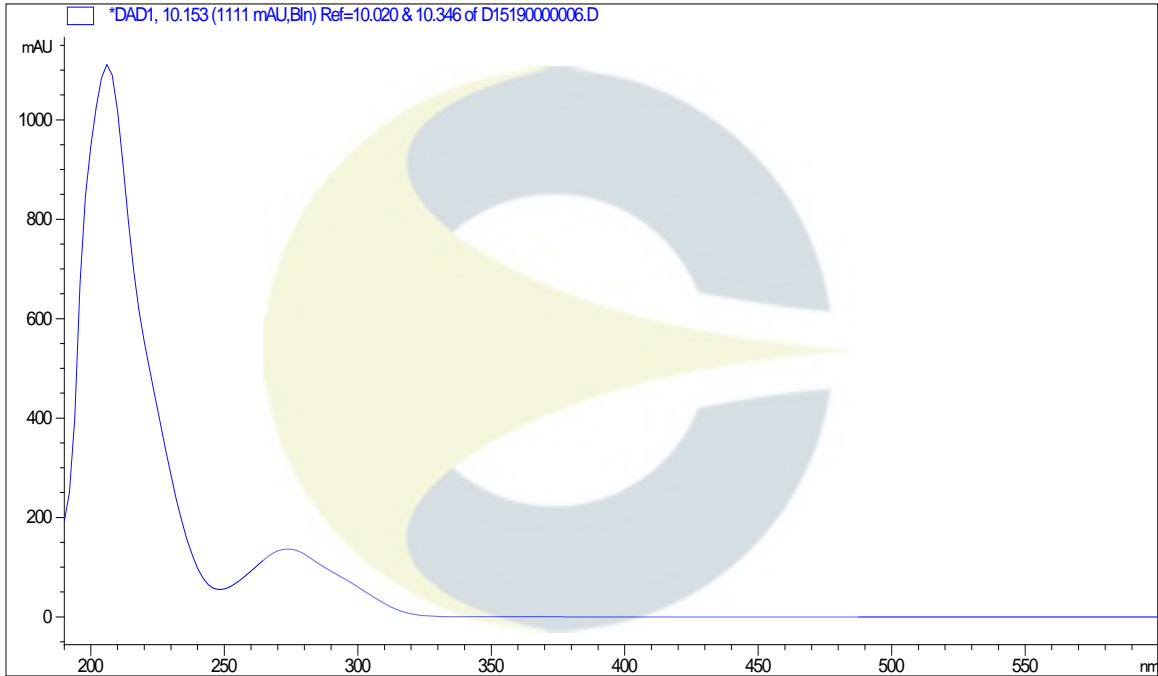
<b>INSTRUMENT</b>	AGILENT 1260 HPLC UV-VIS (DAD); FINNIGAN LCQ-DECA
<b>COLUMN</b>	Phenomenex Luna C18(2) 150 x 2.00 mm, 5 µm particle size
<b>MOBILE PHASE</b>	A - 0.1% Trifluoroacetic acid in Ultrapure water, B - Acetonitrile; Isocratic 5% B for 5 minutes, then increasing to 95% B over 20 minutes. Hold at 95% B for 15 minutes.
<b>COLUMN TEMP.</b>	60 °C
<b>FLOW RATE</b>	0.4 mL/minute
<b>INJECTION VOL.</b>	0.2 µL
<b>INJECTION CONC.</b>	1.1 mg/mL in Methanol
<b>DETECTION</b>	205 ± 4 nm

### HPLC CHROMATOGRAM OF (-)-EPIGALLOCATECHIN GALLATE (CDXA-06-1526)

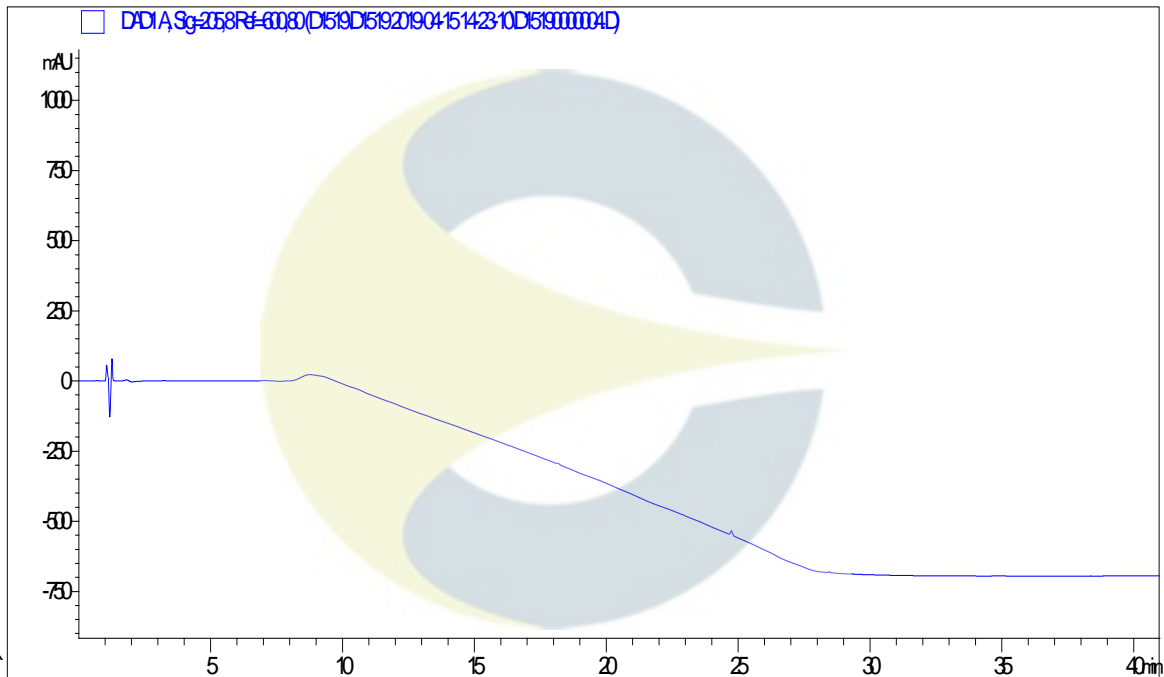


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**UV SPECTRUM AT RT = 10.2 MINUTES**

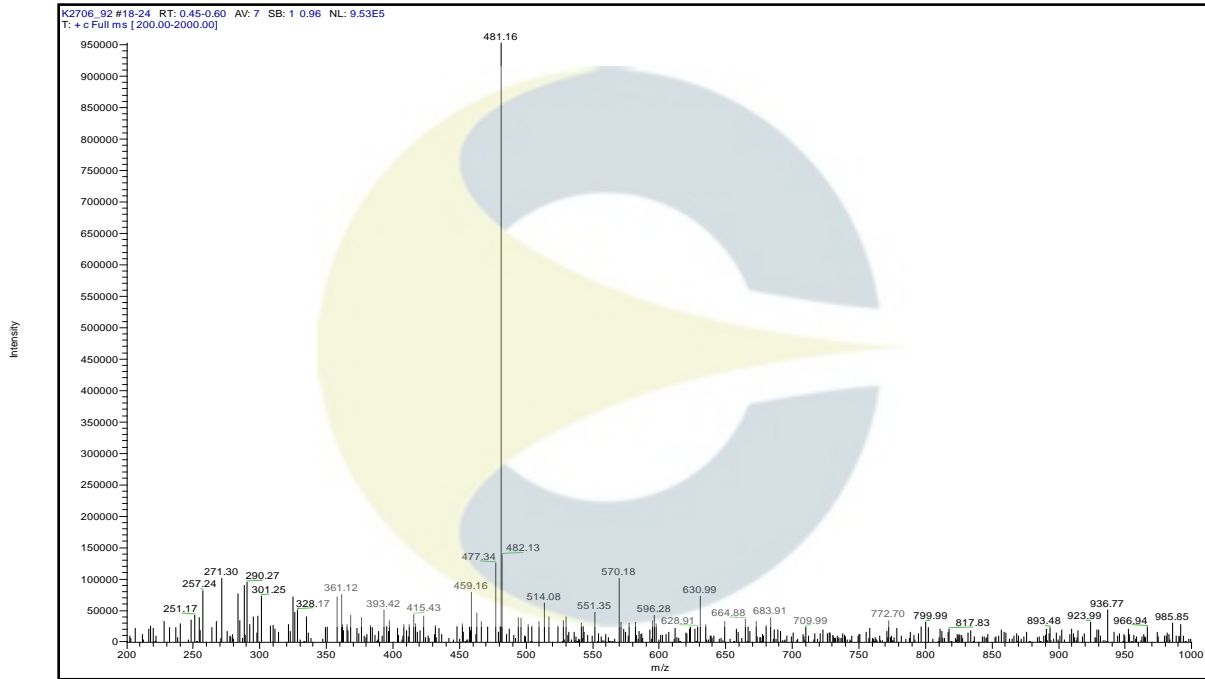


**HPLC CHROMATOGRAM OF DILUENT BLANK**

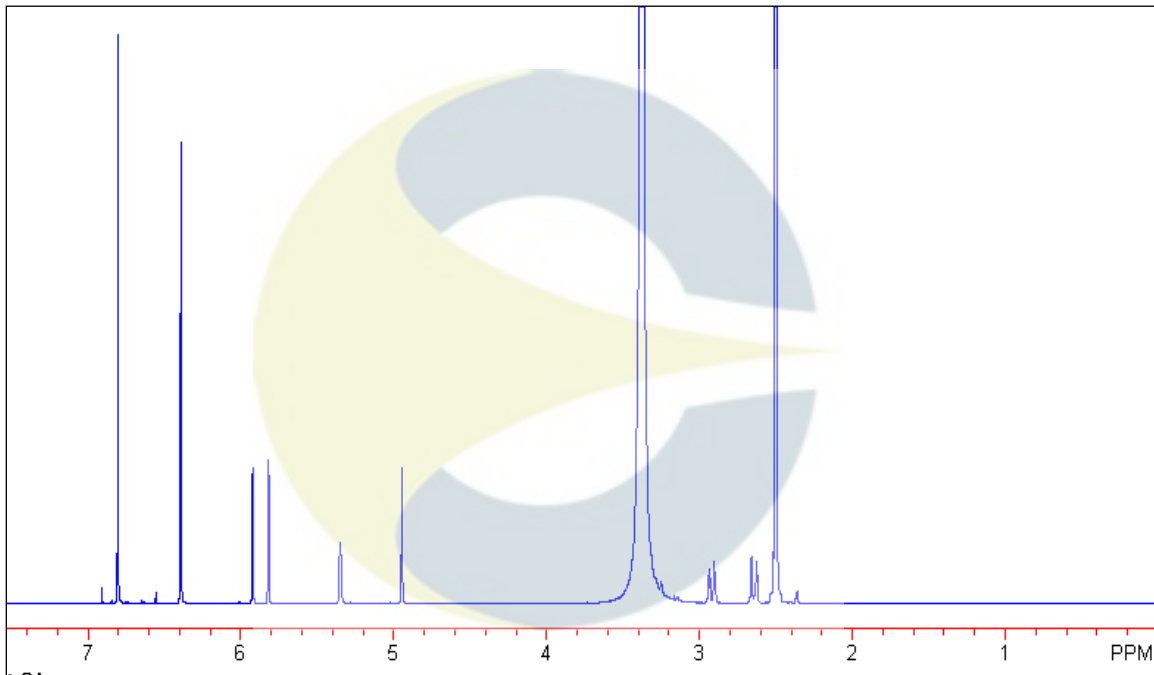


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**MASS SPECTRUM OF (-)-EPIGALLOCATECHIN GALLATE (CDXA-06-1526)**



**<sup>1</sup>H-NMR SPECTRUM OF (-)-EPIGALLOCATECHIN GALLATE (CDXA-06-1526) IN DMSO-d<sub>6</sub>**



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## REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	12/29/2010	New report and first re-evaluation
01	02/17/2015	Passed second re-evaluation by HPLC. Updated expiration date, chemical names, chemical family and melting point.
02	04/24/2019	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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