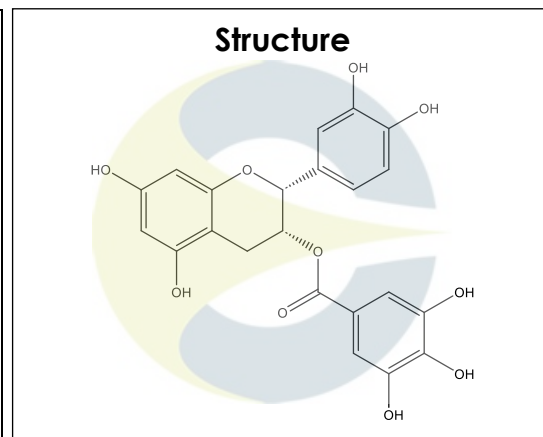


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<b>PRODUCT NAME</b>	(-)-Epicatechin Gallate
<b>PART NUMBER</b>	00005135
<b>STANDARD TYPE</b>	Primary (P)
<b>LOT NUMBER</b>	00005135-201
<b>REPORT NUMBER</b>	CDXA-RSS-10236-00
<b>SAMPLE NUMBER</b>	CHA203204
<b>DATE OF SAMPLE</b>	10Jul2023
<b>DATE OF REPORT</b>	31Jul2023



<b>CHEMICAL NAMES</b>	(2R,3R)-2-(3,4-Dihydroxyphenyl)-3,4-dihydro-5,7-dihydroxy-2H-1-benzopyran-3-yl ester, 3,4,5-trihydroxy-benzoic acid; Epicatechol 3-gallate; (-)-Epicatechin 3-gallate; ECG
<b>CHEMICAL FORMULA</b>	C <sub>22</sub> H <sub>18</sub> O <sub>10</sub>
<b>MOLECULAR WEIGHT (MW)</b>	442.37
<b>CHEMICAL FAMILY</b>	Flavonoids
<b>CAS NUMBER</b>	[1257-08-5]
<b>EC#(EINECS)</b>	603-088-4
<b>RTECS</b>	DH9030000

**ANALYTICAL RESULTS**

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	97.8%
HPLC	0.700.10.2.METH22	≥ 90%	98.6%
NMR	0.700.12.4	Conforms to structure	Conforms to structure
Mass Spectrum	0.700.12.27	Conforms	Conforms
Residual Solvent*	USP <467>	NA	ND
Water	0.700.12.37	NA	0.8%
Appearance	NA	NA	White powder

\*Testing performed at an ISO 17025 accredited subcontracted laboratory.  
 ADJUSTED PURITY: 97.8% IS BASED ON (100 - 0.0 SOLVENTS - 0.8 WATER) X 98.6% HPLC

**STORAGE CONDITIONS**

<b>STORAGE</b>	+4 °C in a dry place.
<b>EXPIRATION DATE</b>	07/2028 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;

Minutes	%A	%B
0.0	95	5
5.0	95	5
25.0	5	95
40.0	5	95
41.0	95	5

**COLUMN TEMP.** 60 °C

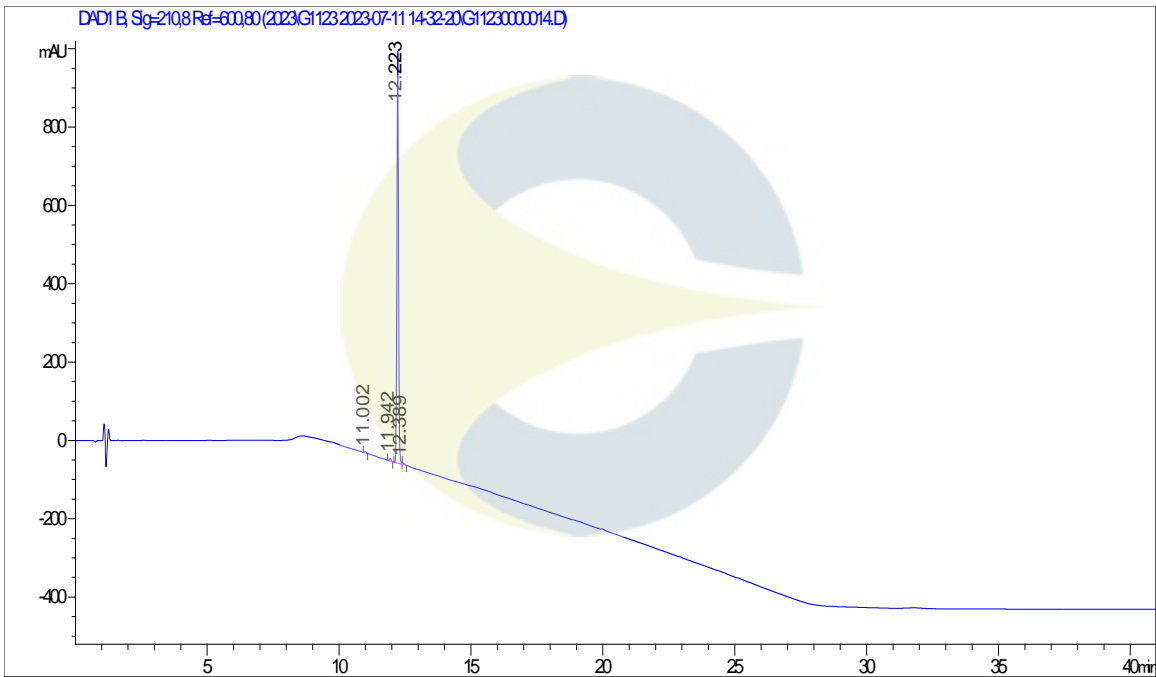
**FLOW RATE** 0.4 mL/minute

**INJECTION VOL.** 0.2 µL

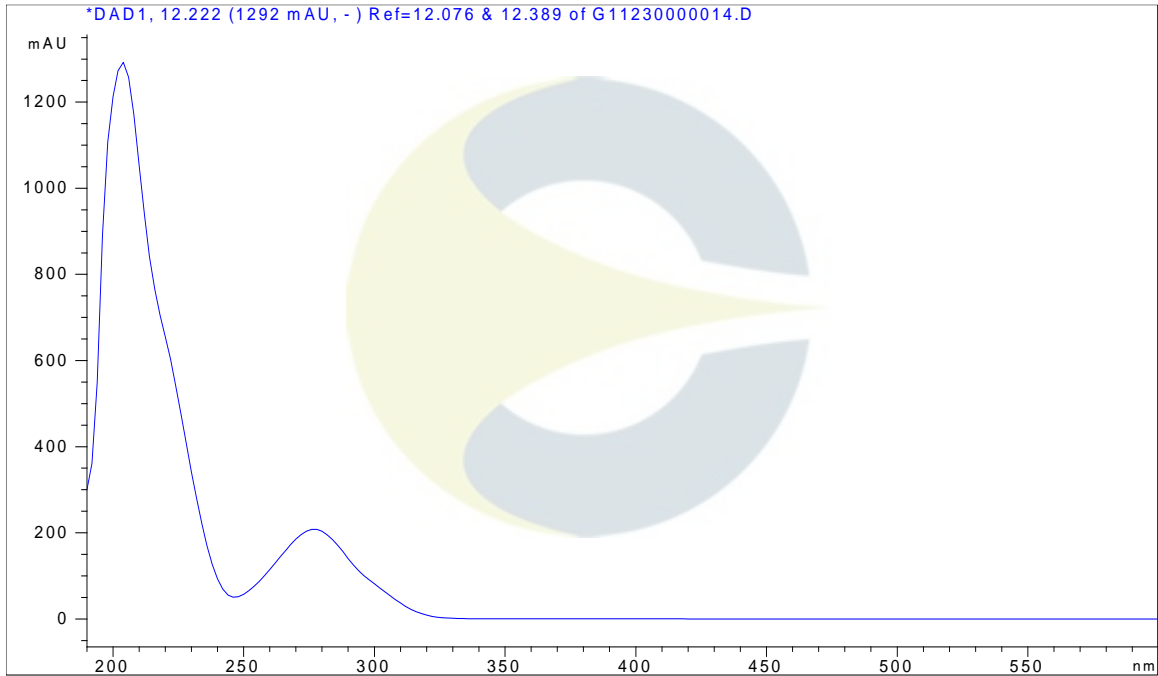
**INJECTION CONC.** 1.0 mg/mL in Methanol

**DETECTION** 210 ± 4 nm

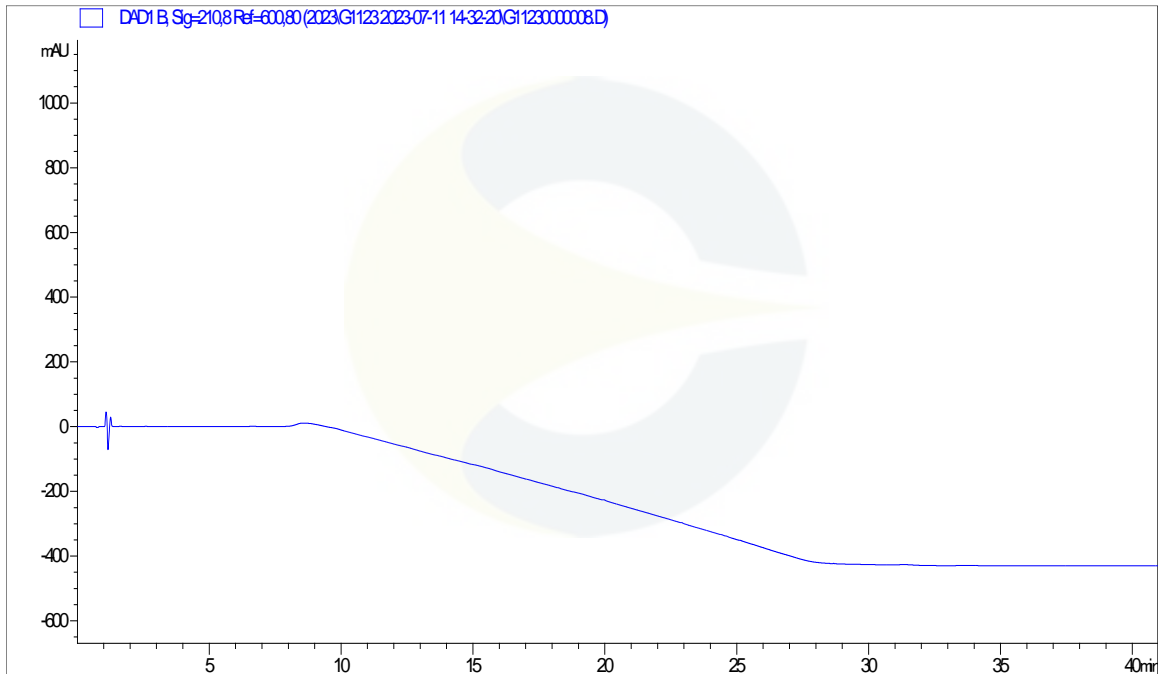
### HPLC CHROMATOGRAM OF (-)-EPICATECHIN GALLATE (00005135-201)



### UV SPECTRUM AT RT = 12.2 MINUTES

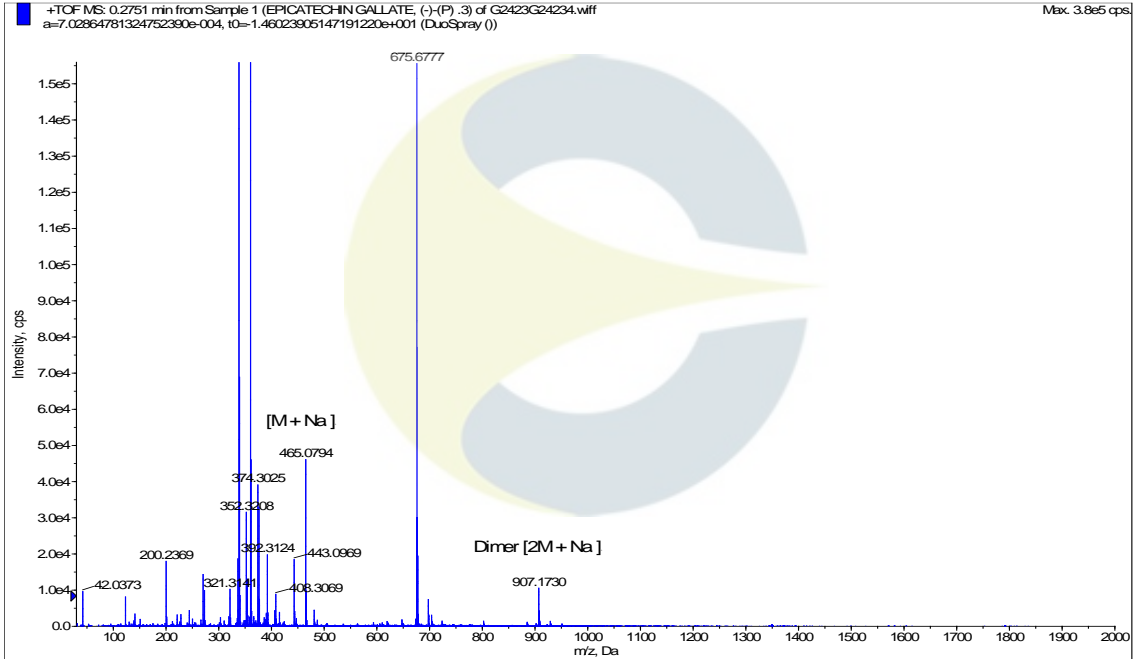


### HPLC CHROMATOGRAM OF DILUENT BLANK

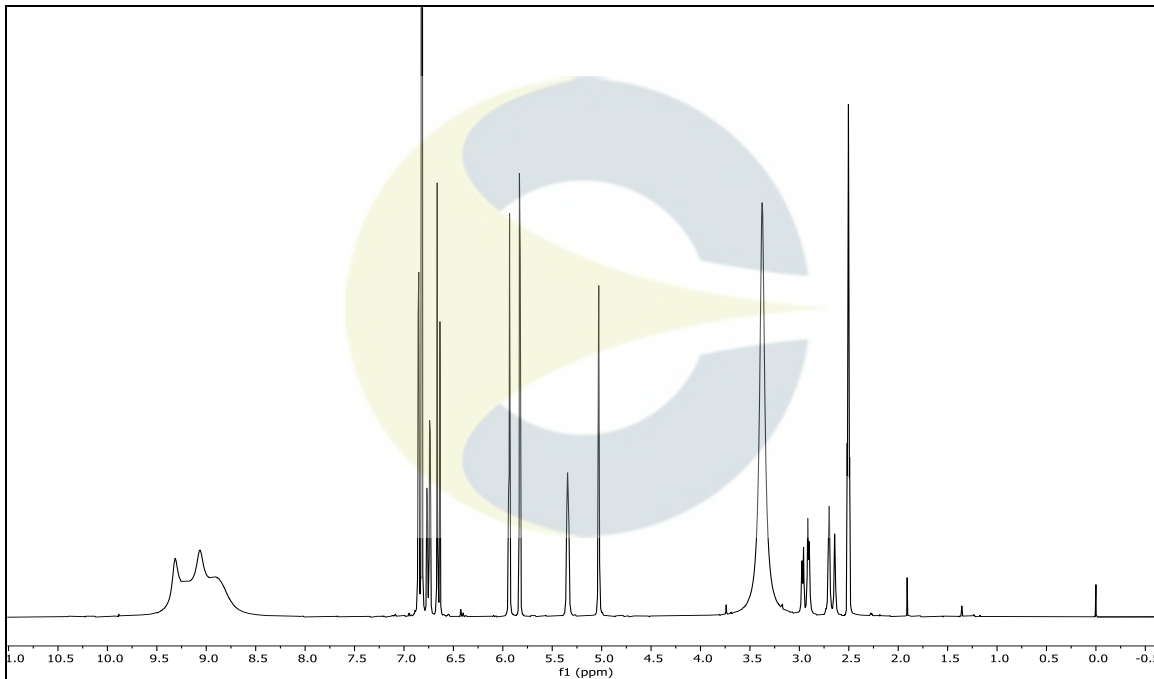


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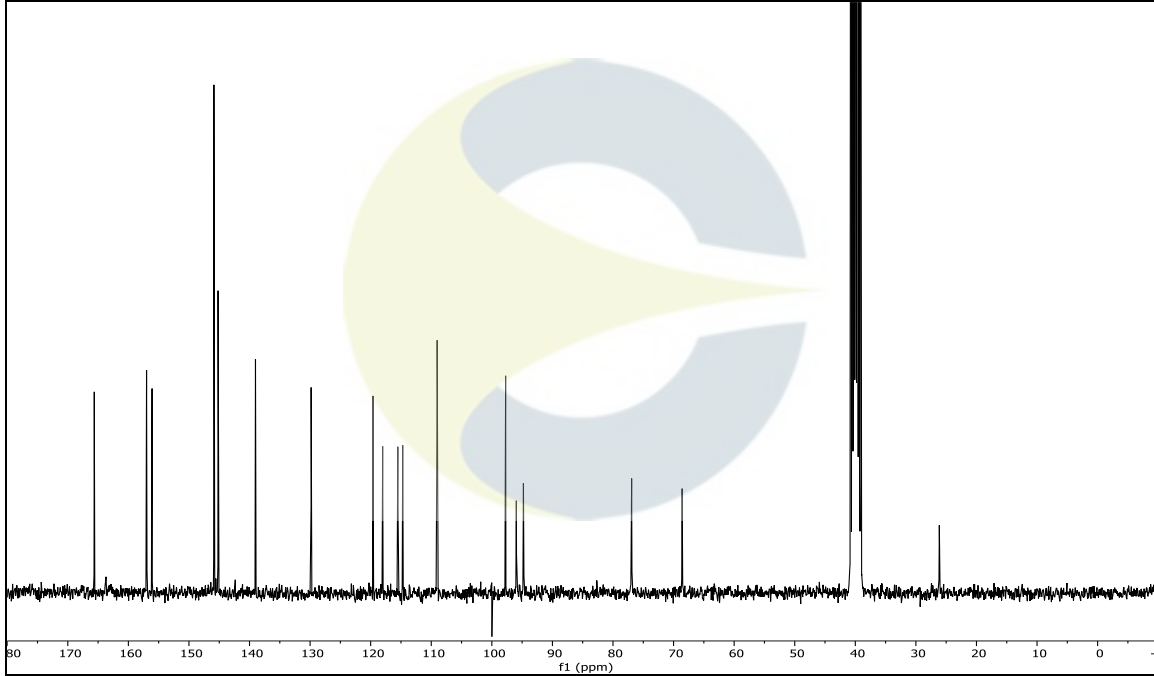
**MASS SPECTRUM OF (-)-EPICATECHIN GALLATE (00005135-201)**



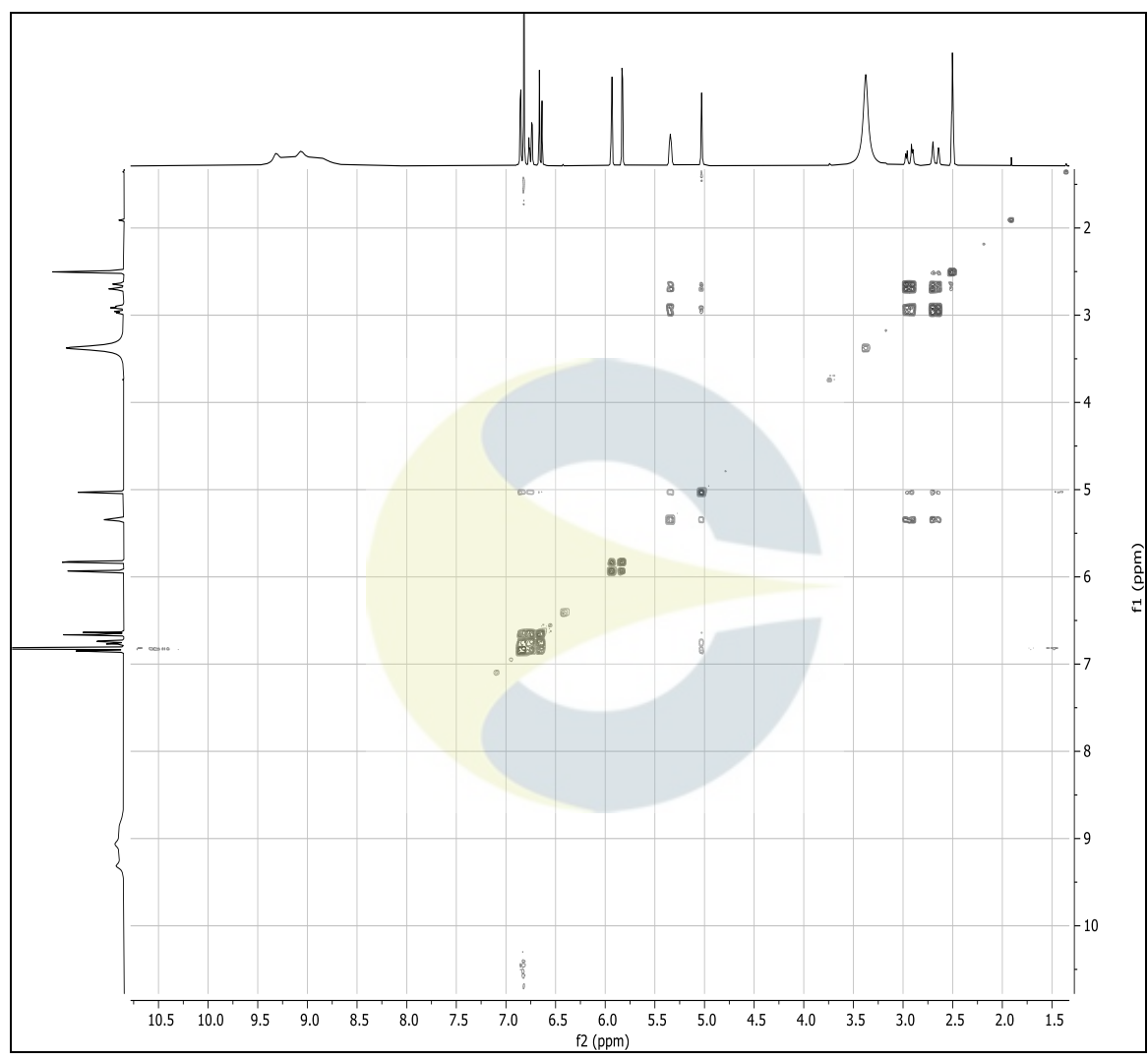
**<sup>1</sup>H-NMR SPECTRUM OF (-)-EPICATECHIN GALLATE (00005135-201) IN DMSO-d<sub>6</sub> + TMS**



<sup>13</sup>C-NMR SPECTRUM (-)-EPICATECHIN GALLATE (00005135-201) IN DMSO-d<sub>6</sub> + TMS



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**COSY-NMR SPECTRUM OF (-)-EPICATECHIN GALLATE (00005135-201) IN DMSO-d<sub>6</sub> + TMS**

**REVISION HISTORY**

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	31 Jul 2023	New report