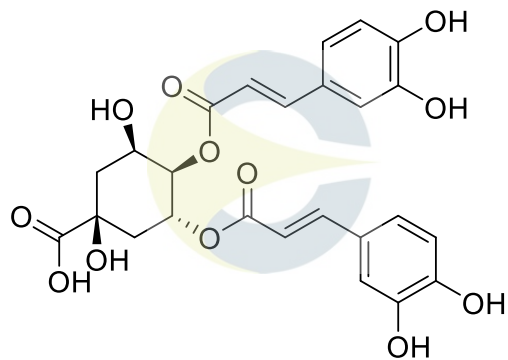


**Certificate of Analysis**
*For Laboratory Use Only*

<b>PRODUCT NAME</b>	Isochlorogenic acid B	<div style="text-align: center;"> <b>Structure</b>   </div>
<b>PART NUMBER</b>	00009211	
<b>STANDARD TYPE</b>	Analytical Standard (AS)	
<b>LOT NUMBER</b>	00009211-210	
<b>REPORT NUMBER</b>	CDXA-RSS-7049-01	
<b>SAMPLE NUMBER</b>	CDXA-16-002130	
<b>DATE OF SAMPLE</b>	02/18/2016	
<b>DATE OF REVISION</b>	04/06/2020	
<b>DATE OF REPORT</b>	05/01/2020	

<b>CHEMICAL NAMES</b>	(1S,3R,4R,5R)-3,4-bis[[3-(3,4-Dihydroxyphenyl)-1-oxo-2-propenyl]oxy]-1,5-dihydroxy-cyclohexanecarboxylic acid; 3,4-Dicaffeoylquinic acid
<b>CHEMICAL FORMULA</b>	C <sub>25</sub> H <sub>24</sub> O <sub>12</sub>
<b>MOLECULAR WEIGHT (MW)</b>	516.45
<b>CHEMICAL FAMILY</b>	Phenolic acids
<b>CAS NUMBER</b>	[14534-61-3]
<b>EC#(EINECS)</b>	NA
<b>RTECS</b>	GU8403866

**ANALYTICAL RESULTS**

TEST	METHOD	SPECIFICATION	RESULT
HPLC	0.700.10.2.METH22	NA	98.0%
Mass Spectrum	Direct Infusion: ESI (-)	Conforms	Conforms
Appearance	NA	NA	Yellow/Brown powder

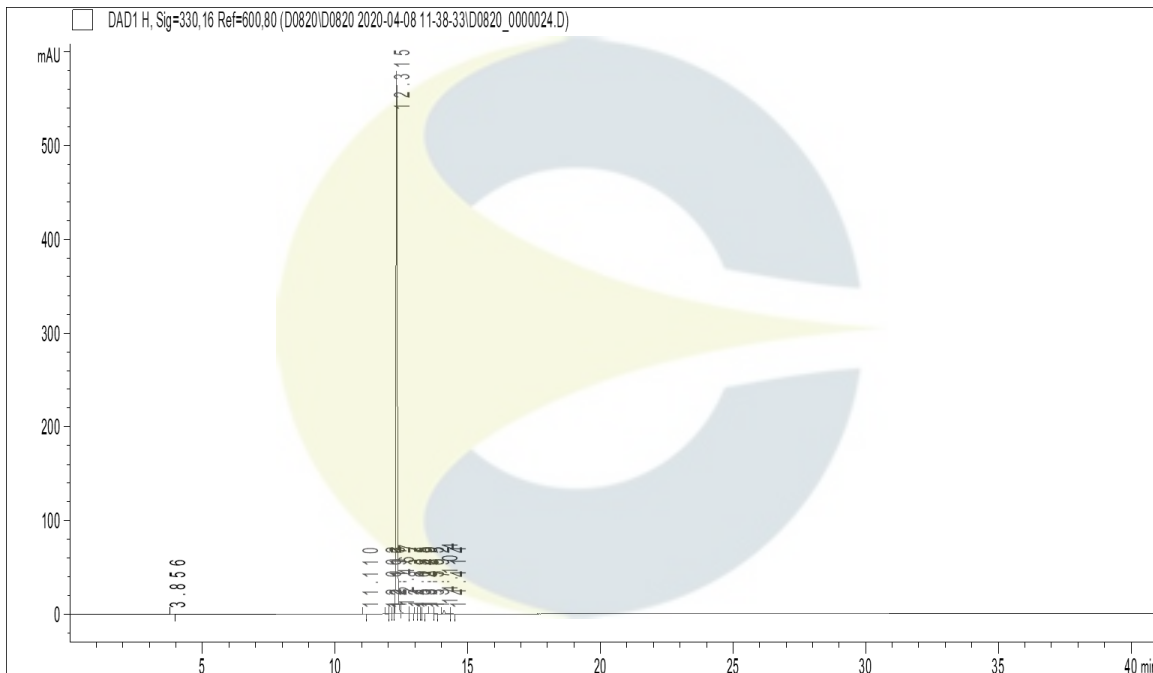
**STORAGE CONDITIONS**

<b>STORAGE</b>	-20 °C in a dry place.
<b>EXPIRATION DATE</b>	04/2025 under the above conditions.

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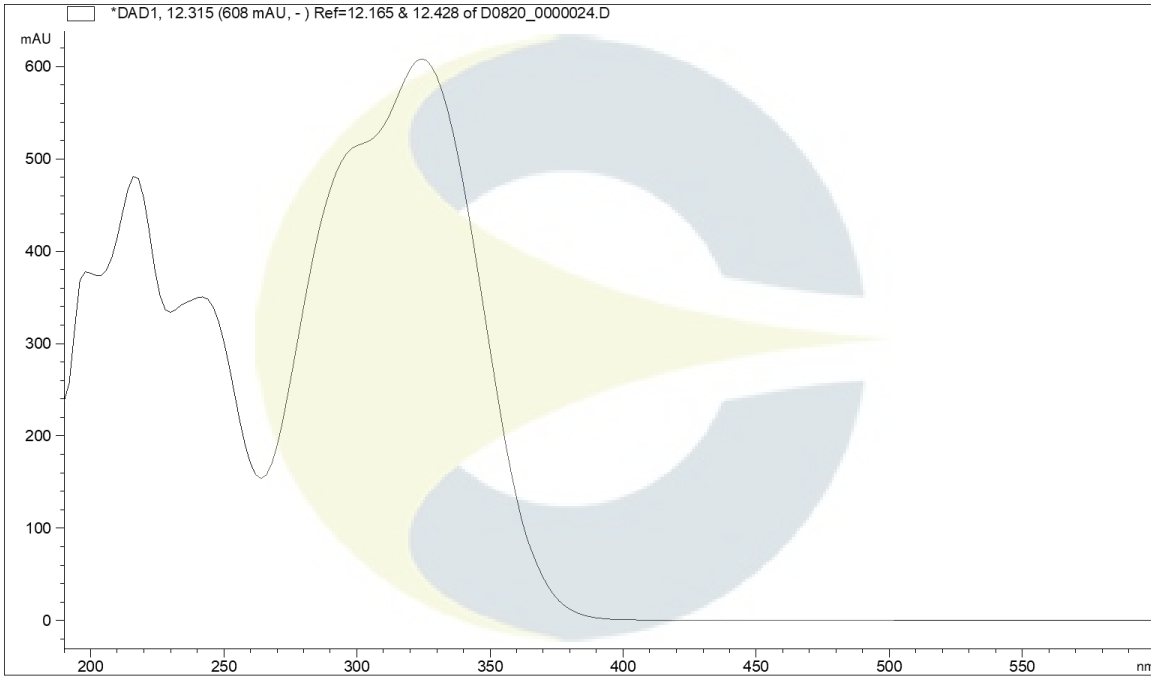
**Certificate of Analysis**
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**ANALYTICAL CONDITIONS**

<b>INSTRUMENT</b>	AGILENT 1260 HPLC UV-VIS (DAD); AGILENT 6510 QTOF
<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>	1.0 mg/mL in Methanol
<b>DETECTION</b>	330 ± 8 nm

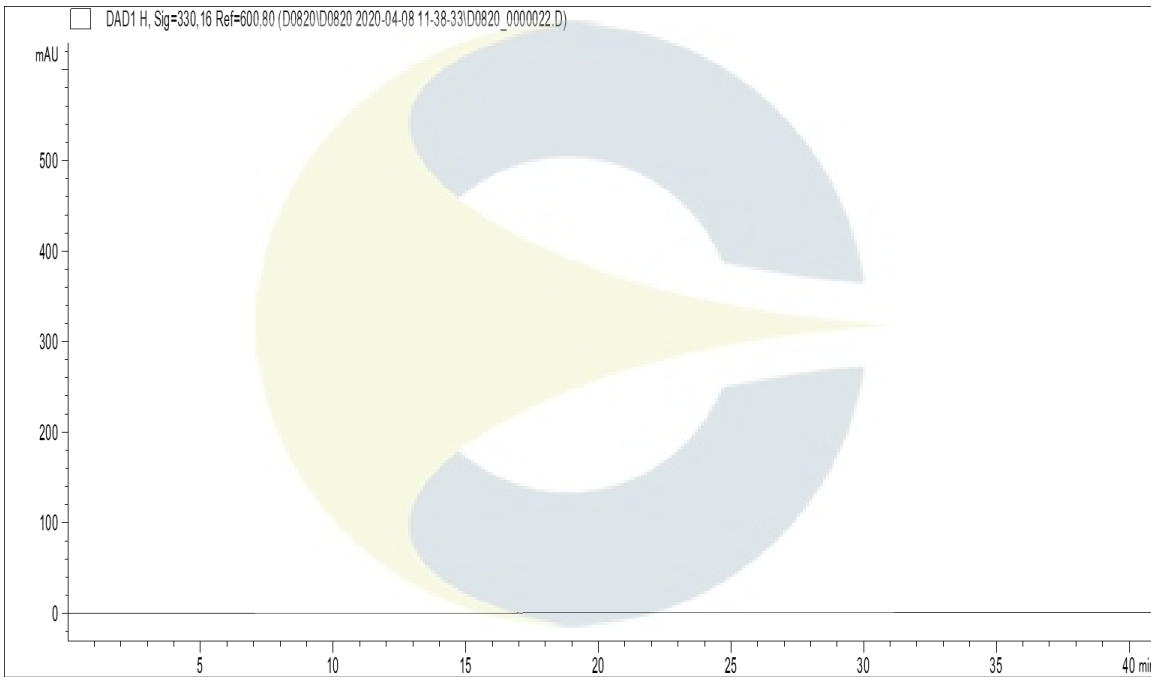
**HPLC CHROMATOGRAM OF ISOCHLOROGENIC ACID B (CDXA-16-002130)**


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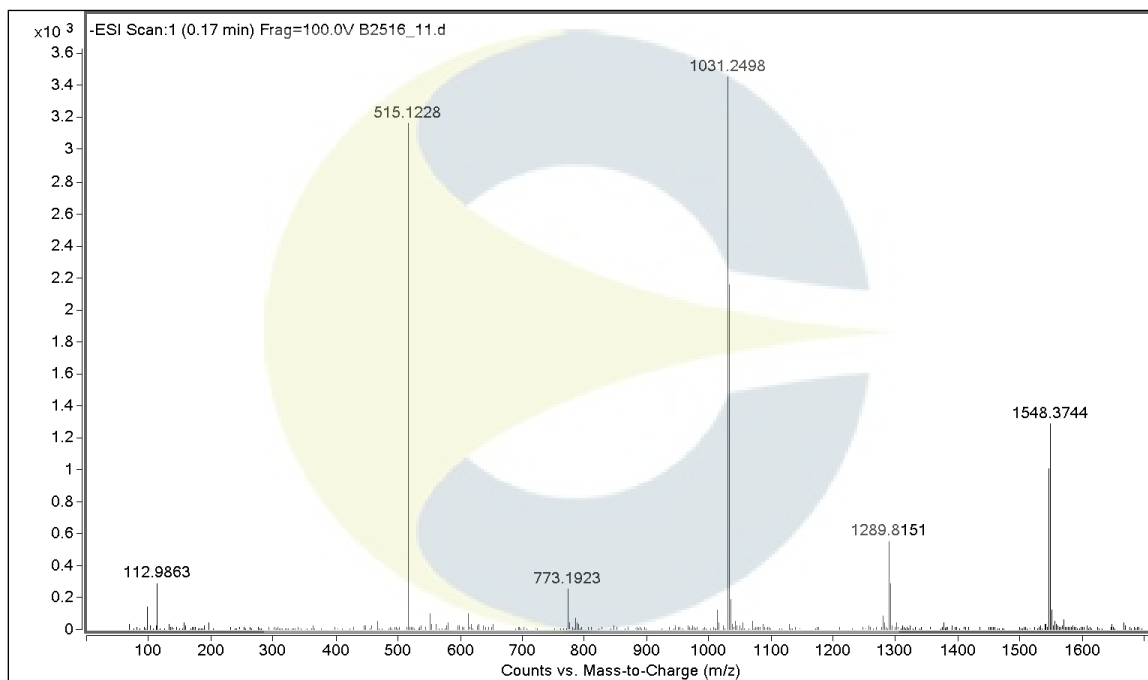
**UV SPECTRUM AT RT 12.3 MINUTES**



**HPLC CHROMATOGRAM OF DILUENT BLANK**



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**MASS SPECTRUM OF ISOCHLOROGENIC ACID B (CDXA-16-002130)**

**REVISION HISTORY**

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	03/09/2016	New report
01	05/01/2020	Passed re-evaluation by HPLC. Updated structure, chromatograms, purity, expiration date, analytical method, RTECS number, and removed melting point.

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