



## **SPECIMEN**

# Certificate of Analysis

For Laboratory Use Only

PRODUCT NAME	(-)-Epicatechin gallate	Structure
PART NUMBER	00005135	НО О
STANDARD TYPE	Primary (P)	
LOT NUMBER	00005135-601	
REPORT NUMBER	CDXA-RSS-9152-00	
SAMPLE NUMBER	CDXP-20-00655	он он он
DATE OF SAMPLE	09/09/2020	
DATE OF REPORT	10/08/2020	Он
CHEMICAL NAMES	(2R,3R)-2-(3,4-Dihydroxyphenyl)-3,4-dih ester 3,4,5-trihydroxy-benzoic acid; Epic	ydro-5,7-dihydroxy-2H-1-benzopyran-3-yl catechol 3-gallate; (-)-Epicatechin 3-
	gallate; ECG	
CHEMICAL FORMULA	gallate; ECG C <sub>22</sub> H <sub>18</sub> O <sub>10</sub>	
CHEMICAL FORMULA MOLECULAR WEIGHT (MW)	-	
	C <sub>22</sub> H <sub>18</sub> O <sub>10</sub>	
MOLECULAR WEIGHT (MW)	C <sub>22</sub> H <sub>18</sub> O <sub>10</sub> 442.37	
MOLECULAR WEIGHT (MW) CHEMICAL FAMILY	C <sub>22</sub> H <sub>18</sub> O <sub>10</sub> 442.37 Flavonoids	
MOLECULAR WEIGHT (MW) CHEMICAL FAMILY CAS NUMBER	C <sub>22</sub> H <sub>18</sub> O <sub>10</sub> 442.37 Flavonoids [1257-08-5]	

### **ANALYTICAL RESULTS**

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	93.2%
HPLC	0.700.10.2.METH22	≥ 90%	94.4%
NMR	0.700.12.4	Conforms to structure	Conforms to structure
Mass Spectrum	0.700.12.27	Conforms	Conforms
Residual Solvent*	USP <467>	NA	MeOH = 1130 ppm
Water	0.700.12.37	NA	1.2%
Appearance	NA	NA	White powder

\*Testing performed at an ISO 17025 accredited subcontracted laboratory. ADJUSTED PURITY: 93.2% IS BASED ON (100 - 0.1 SOLVENTS - 1.2 WATER) X 94.4% HPLC

### **STORAGE CONDITIONS**

**STORAGE** +4 °C in a dry place.

**EXPIRATION DATE** 09/2025 under the above conditions.

This document is the property of ChromaDex, Inc. and/or its relevant affiliates and contains confidential and proprietary material for the sole use of the intended recipient(s). Any review, use, distribution or disclosure by or to others is strictly prohibited.

10900 Wilshire Blvd., Suite 600, Los Angeles, CA 90024 | T: +1 949-419-0288 | F: +1 949-419-0294 | www.chromadex.com Laboratory address: 1751 S. Fordham St., Suite 350, Longmont, CO 80503 India Contact: Life Technologies (India) Pvt. Ltd. 306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi - 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444 Email: customerservice@lifetechindia.com Website: www.lifetechindia.com







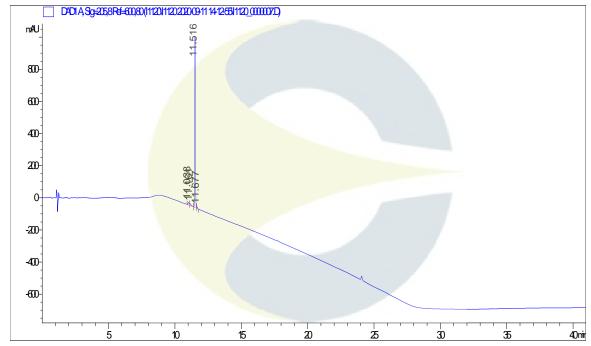
# Certificate of Analysis

For Laboratory Use Only

ΔΝΔΙΥΤΙΟΔΙ	CONDITIONS
ANALIIICAL	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;	
	lsocratic 5% B for 5 minutes, then increasing to 95% B over 20 minutes. Hold at 95% B for 15 minutes, then decreasing to 5% B over 1 minute.	
COLUMN TEMP.	0° C	
FLOW RATE	0.4 mL/minute	
INJECTION VOL.	0.1 μL	
INJECTION CONC.	1.5 mg/mL in Methanol	
DETECTION	205 ± 4 nm	

#### HPLC CHROMATOGRAM OF (-)-EPICATECHIN GALLATE (CDXP-20-00655)





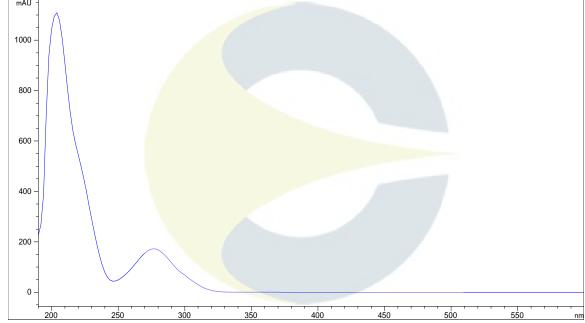


### SPECIMEN

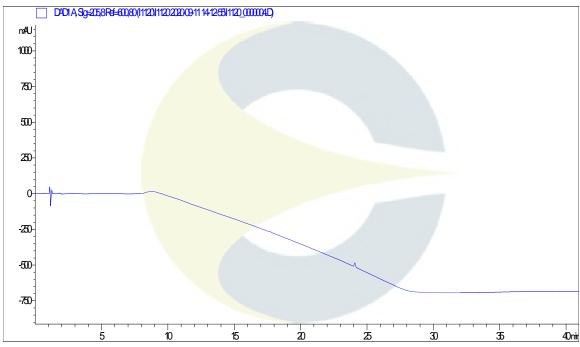
Certificate of Analysis

For Laboratory Use Only





### HPLC CHROMATOGRAM OF DILUENT BLANK



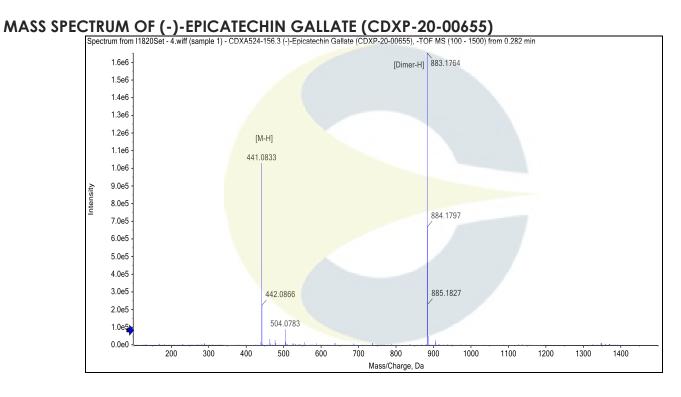




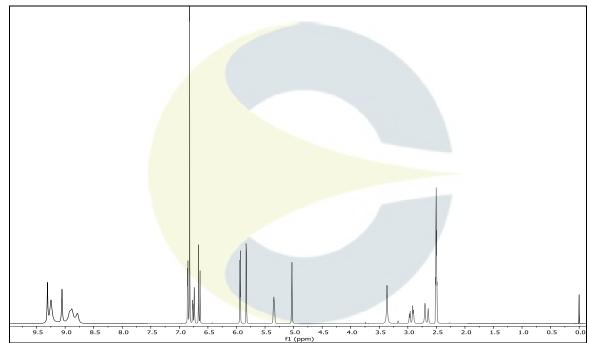
### **SPECIMEN**

## Certificate of Analysis

For Laboratory Use Only



### <sup>1</sup>H-NMR SPECTRUM OF (-)-EPICATECHIN GALLATE (CDXP-20-00655) IN DMSO-d<sub>6</sub>



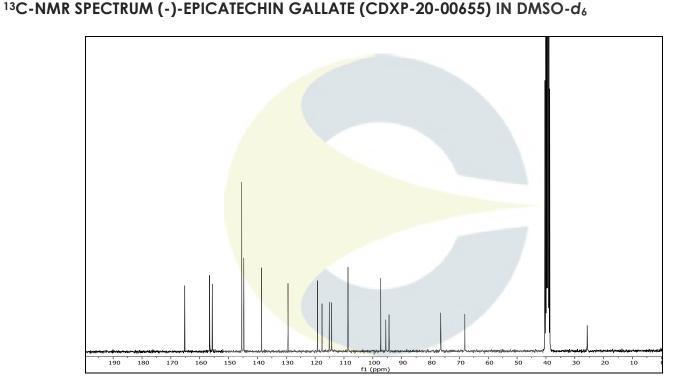




**SPECIMEN** 

# Certificate of Analysis

For Laboratory Use Only



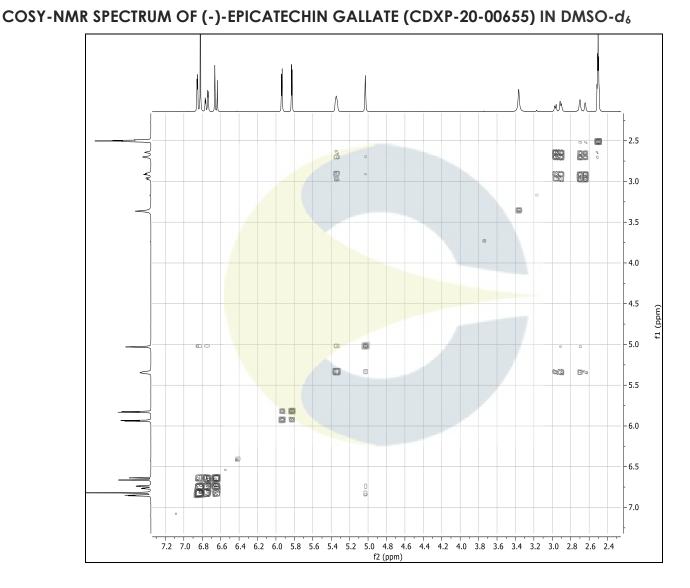




### **SPECIMEN**

## Certificate of Analysis

For Laboratory Use Only



### **REVISION HISTORY**

Revision History Date of Revision Document/Changes

00 10/08/2020 New report