



CONFIDENTIAL

## **SPECIMEN**

# Certificate of Analysis

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PRODUCT NAME	Hydroxytyrosol	Structure	
PART NUMBER	00008728		
STANDARD TYPE	Primary (P)	но он	
LOT NUMBER	00008728-527		
REPORT NUMBER	CDXA-RSS-8635-00	но	
SAMPLE NUMBER	CDXP-19-00476		
DATE OF SAMPLE	08/14/2019		
DATE OF REPORT	09/19/2019		
CHEMICAL NAMES	3,4-Dihydroxyphenylethanol; 4-(2-Hydroxyethyl)-1,2-benzenediol		
CHEMICAL FORMULA	$C_8H_{10}O_3$		
MOLECULAR WEIGHT (MW)	154.16		
CHEMICAL FAMILY	Phenolic acids		
CAS NUMBER	[10597-60-1]		

**EC#(EINECS)** 600-704-3

**RTECS** CZ8955700

### ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	NA	98.7%
HPLC	99.1-04-1.0-000684	NA	99.9%
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	1.2%
Appearance	NA	NA	White solid

ADJUSTED PURITY: 98.7% IS BASED ON (100 - 0.0 SOLVENTS - 1.2 WATER) X 99.9% HPLC

#### **STORAGE CONDITIONS**

STORAGE

+4 °C in a dry place.

#### **EXPIRATION DATE**

08/2024 under the above conditions.

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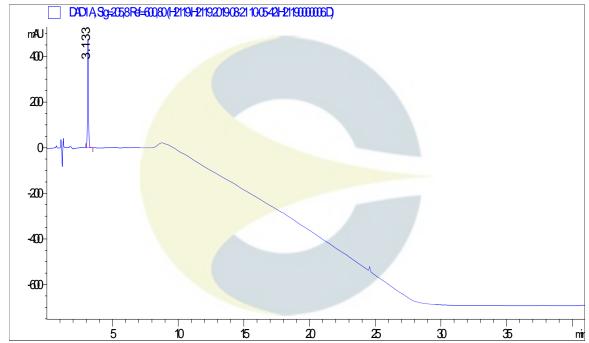
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## ANALYTICAL CONDITIONS

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; Isocratic 5% B for 5 minutes, then increasing to 95% B over 20 minutes. Hold at 95% B for 15 minutes.
COLUMN TEMP.	60 °C
FLOW RATE	0.4 mL/minute
INJECTION VOL.	0.1 μL
INJECTION CONC.	1.4 mg/mL in Methanol
DETECTION	205 ± 4 nm

#### HPLC CHROMATOGRAM OF HYDROXYTYROSOL (CDXP-19-00476)





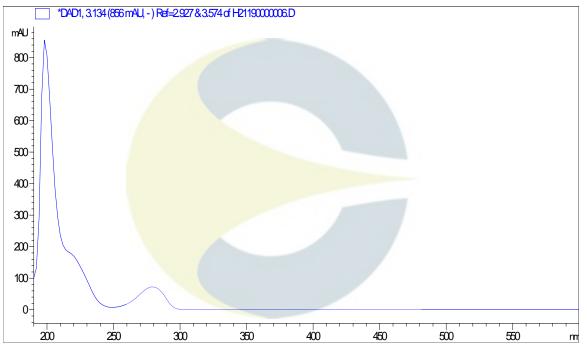


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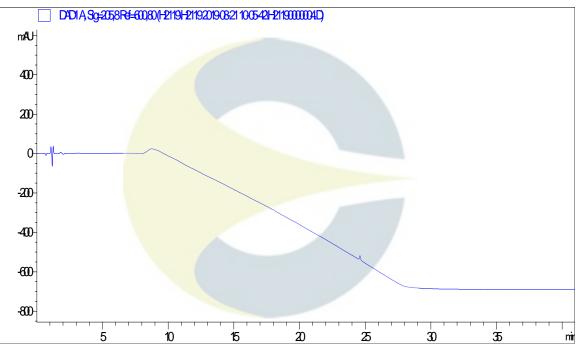


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#### UV SPECTRUM AT RT = 3.1 MINUTES



## HPLC CHROMATOGRAM OF DILUENT BLANK



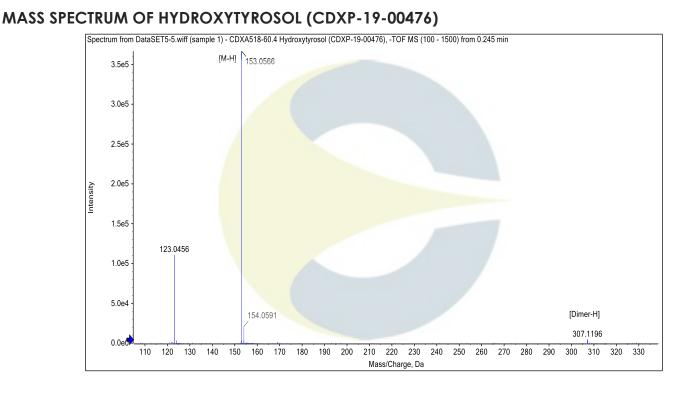




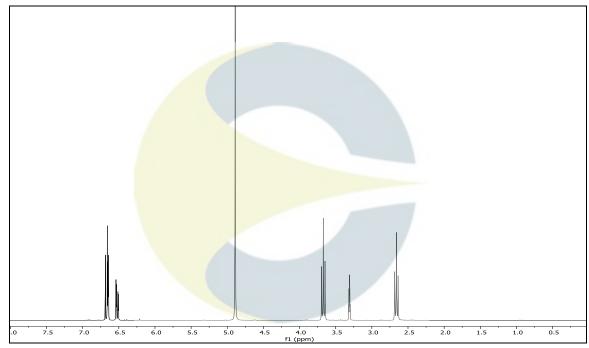


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### <sup>1</sup>H-NMR SPECTRUM OF HYDROXYTYROSOL (CDXP-19-00476) IN CD<sub>3</sub>OD





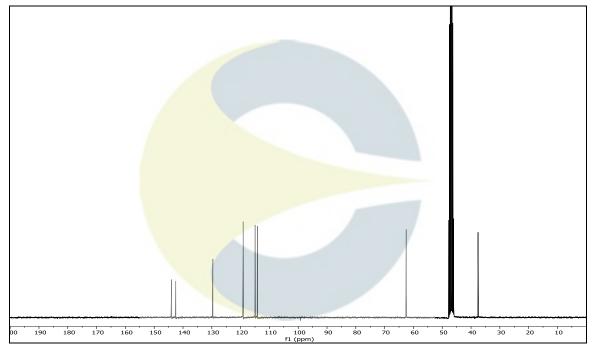


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## <sup>13</sup>C-NMR SPECTRUM HYDROXYTYROSOL (CDXP-19-00476) IN CD<sub>3</sub>OD





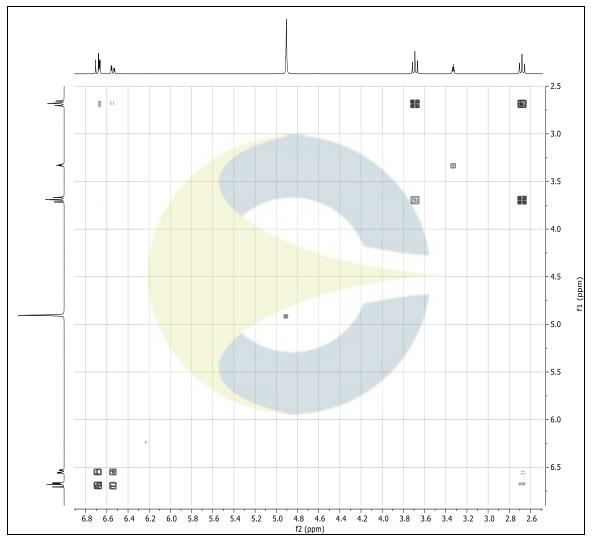




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### **REVISION HISTORY**

<u>Revision History</u>	Date of Revision	Document/Changes
00	09/19/2019	New report