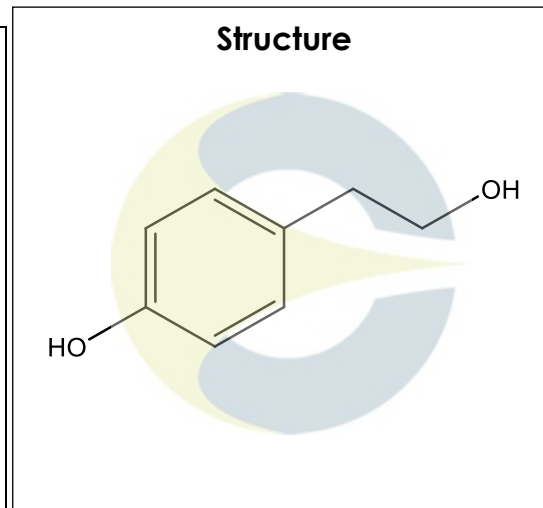


Certificate of Analysis
For Laboratory Use Only

PRODUCT NAME	Tyrosol
PART NUMBER	00020626
STANDARD TYPE	Primary (P)
LOT NUMBER	00020626-56A
REPORT NUMBER	CDXA-RSS-4738-02
SAMPLE NUMBER	CDXA-11-5988
DATE OF SAMPLE	11/03/2011
DATE OF RE-EVALUATION	03/01/2016 (1 st); 04/06/2020 (2 nd)
DATE OF REPORT	05/07/2020



CHEMICAL NAMES	4-Hydroxy-benzeneethanol; Tyrosol C; p-Tyrosol
CHEMICAL FORMULA	C ₈ H ₁₀ O ₂
MOLECULAR WEIGHT (MW)	138.16
CHEMICAL FAMILY	Phenols
CAS NUMBER	[501-94-0]
EC#(EINECS)	207-930-8
RTECS	DA0512110

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	NA	99.2%
HPLC	0.700.10.2.METH22	NA	99.2%
NMR	99.1-CD-1.0-000122	Conforms to structure	Conforms to structure
Mass Spectrum	Direct Infusion, ESI (-)	Conforms	Conforms
Residual Solvent*	99.1-CD-5.0-000115	NA	ND
Water	0.700.12.37	NA	ND
Appearance	NA	NA	Colorless Solid

ADJUSTED PURITY: 99.2% IS BASED ON (100 - 0.0 SOLVENTS - 0.0 WATER) X 99.2% HPLC

STORAGE CONDITIONS

STORAGE	-20 °C in a dry place.
EXPIRATION DATE	04/2025 under the above condition

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.

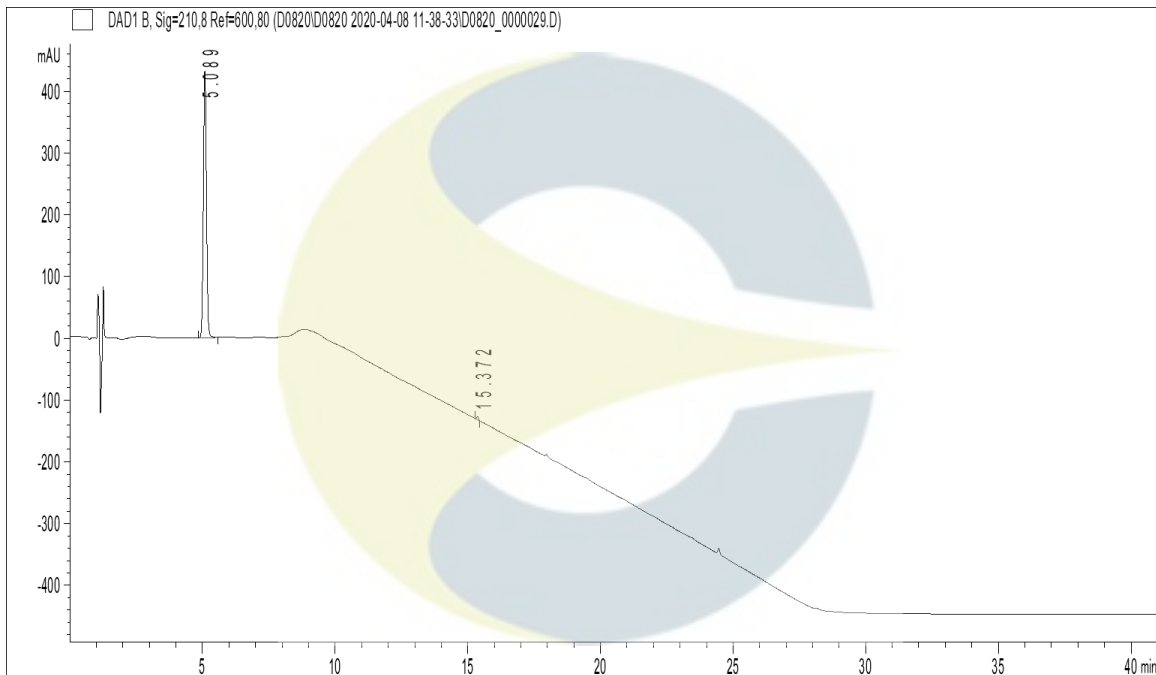
Certificate of Analysis

For Laboratory Use Only

ANALYTICAL CONDITIONS

INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD); AGILENT 6510 QTOF
COLUMN	Phenomenex Luna C18(2) 150 x 2.00 mm, 5 μ m 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 $^{\circ}$ C
FLOW RATE	0.4 mL/minute
INJECTION VOL.	0.4 μ L
INJECTION CONC.	1.3 mg/mL in Methanol
DETECTION	210 \pm 4 nm

HPLC CHROMATOGRAM OF TYROSOL (CDXA-11-5988)

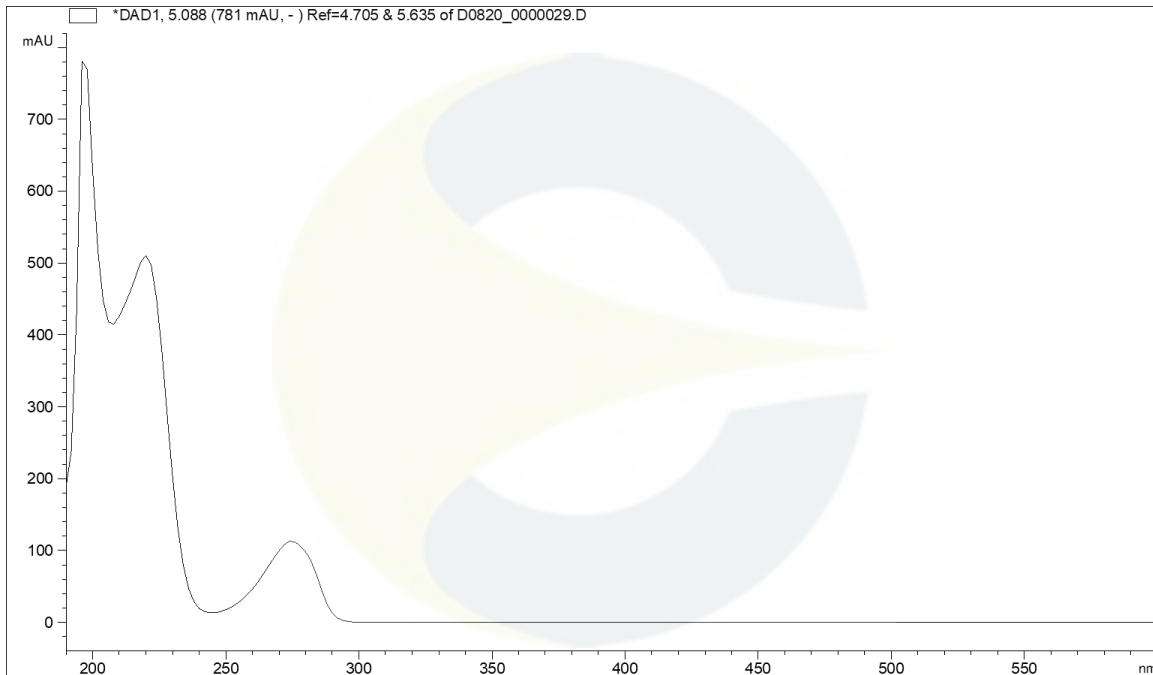


This document is the property of ChromaDex, Inc. and/or its relevant affiliates and contains confidential and proprietary material for the sole use of the intended recipient(s). Any review, use, distribution or disclosure by or to others is strictly prohibited.

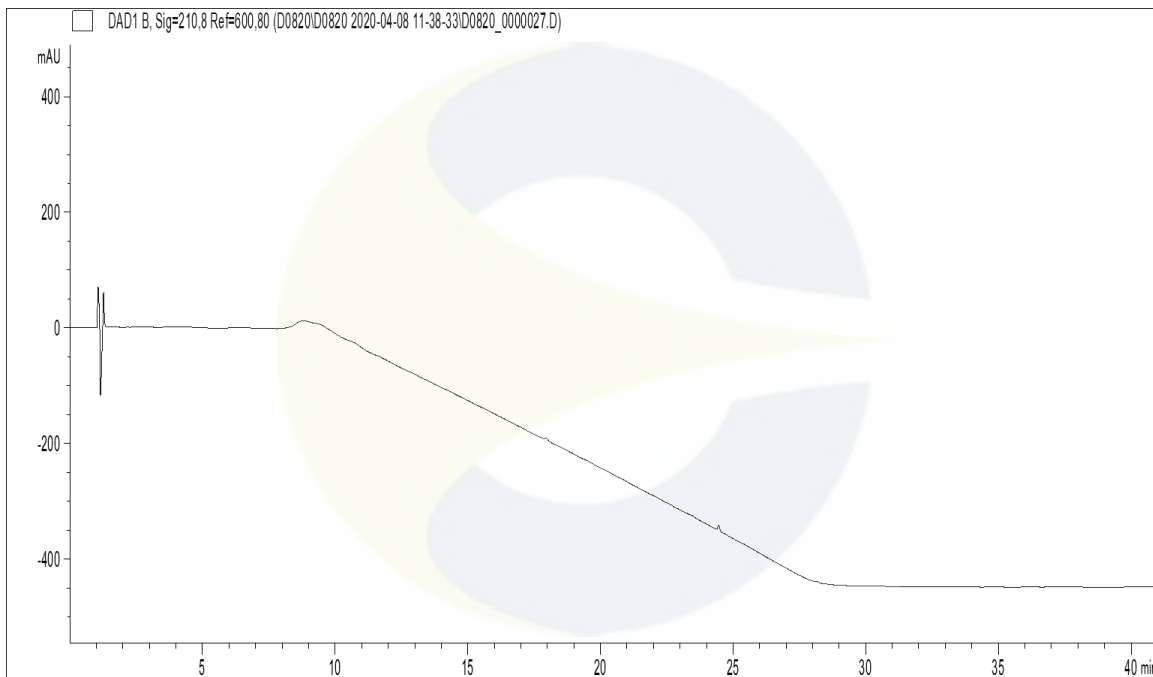
Certificate of Analysis

For Laboratory Use Only

UV SPECTRUM AT RT = 5.1 MINUTES

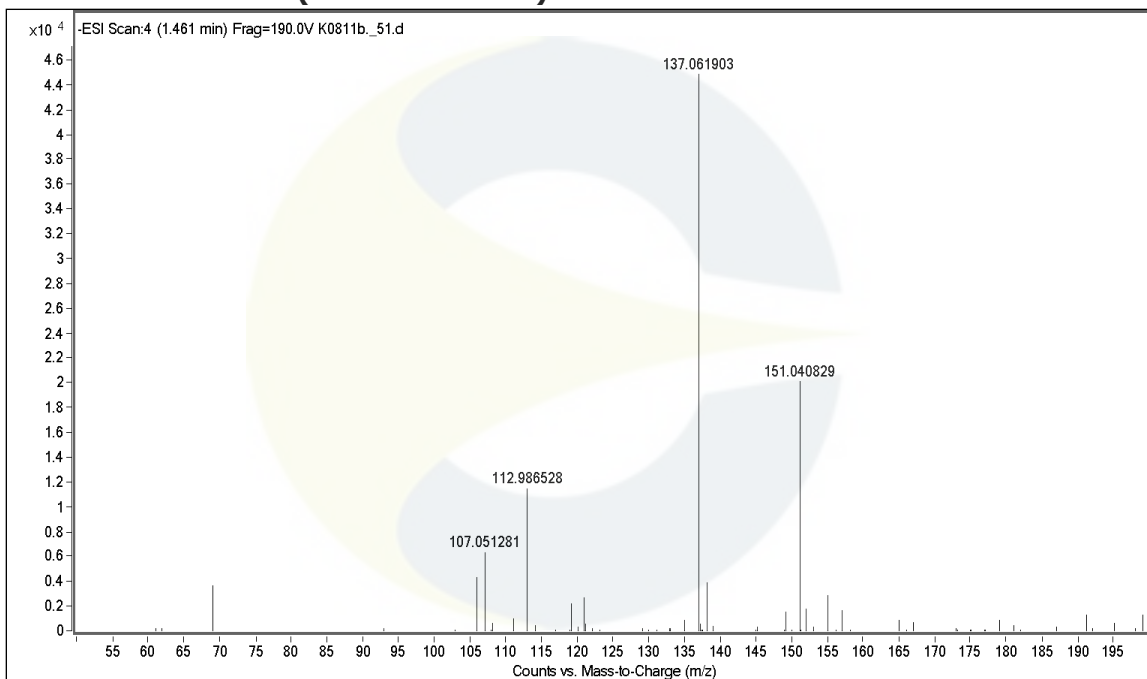


HPLC CHROMATOGRAM OF DILUENT BLANK

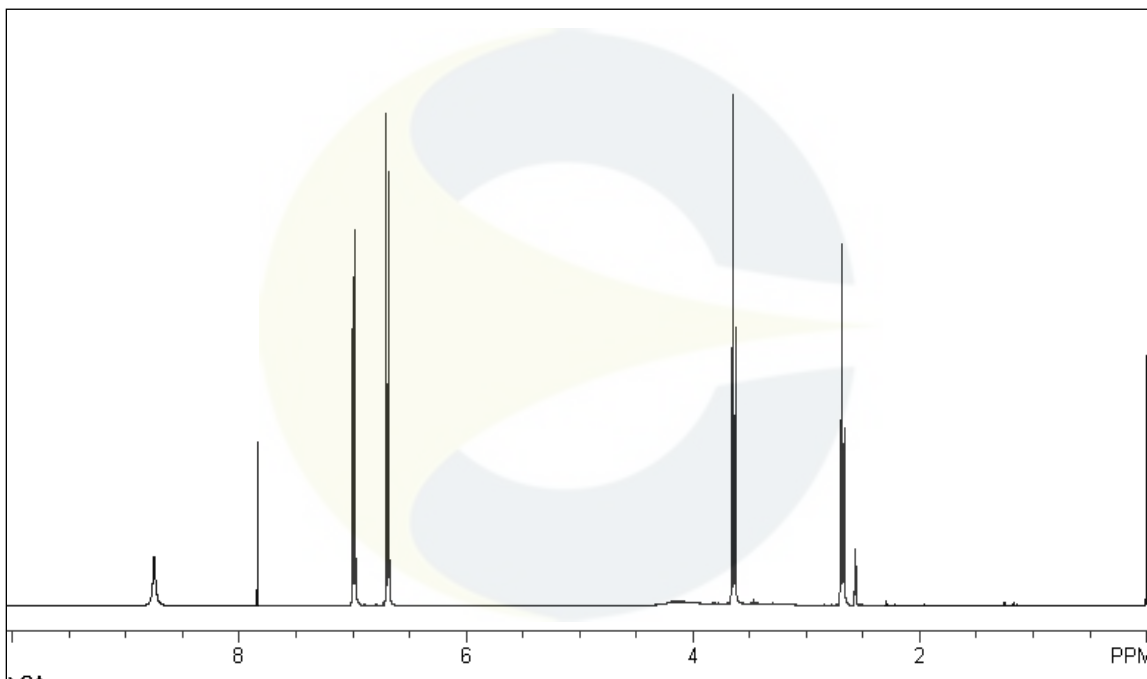


This document is the property of ChromaDex, Inc. and/or its relevant affiliates and contains confidential and proprietary material for the sole use of the intended recipient(s). Any review, use, distribution or disclosure by or to others is strictly prohibited.

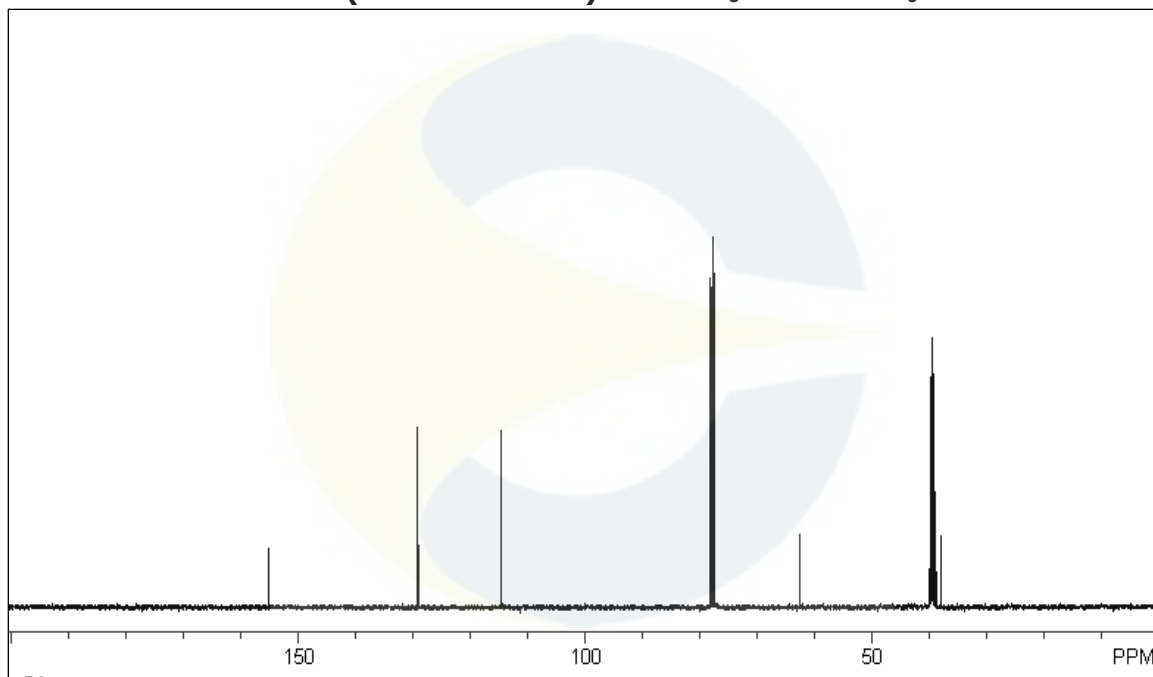
MASS SPECTRUM OF TYROSOL (CDXA-11-5988)



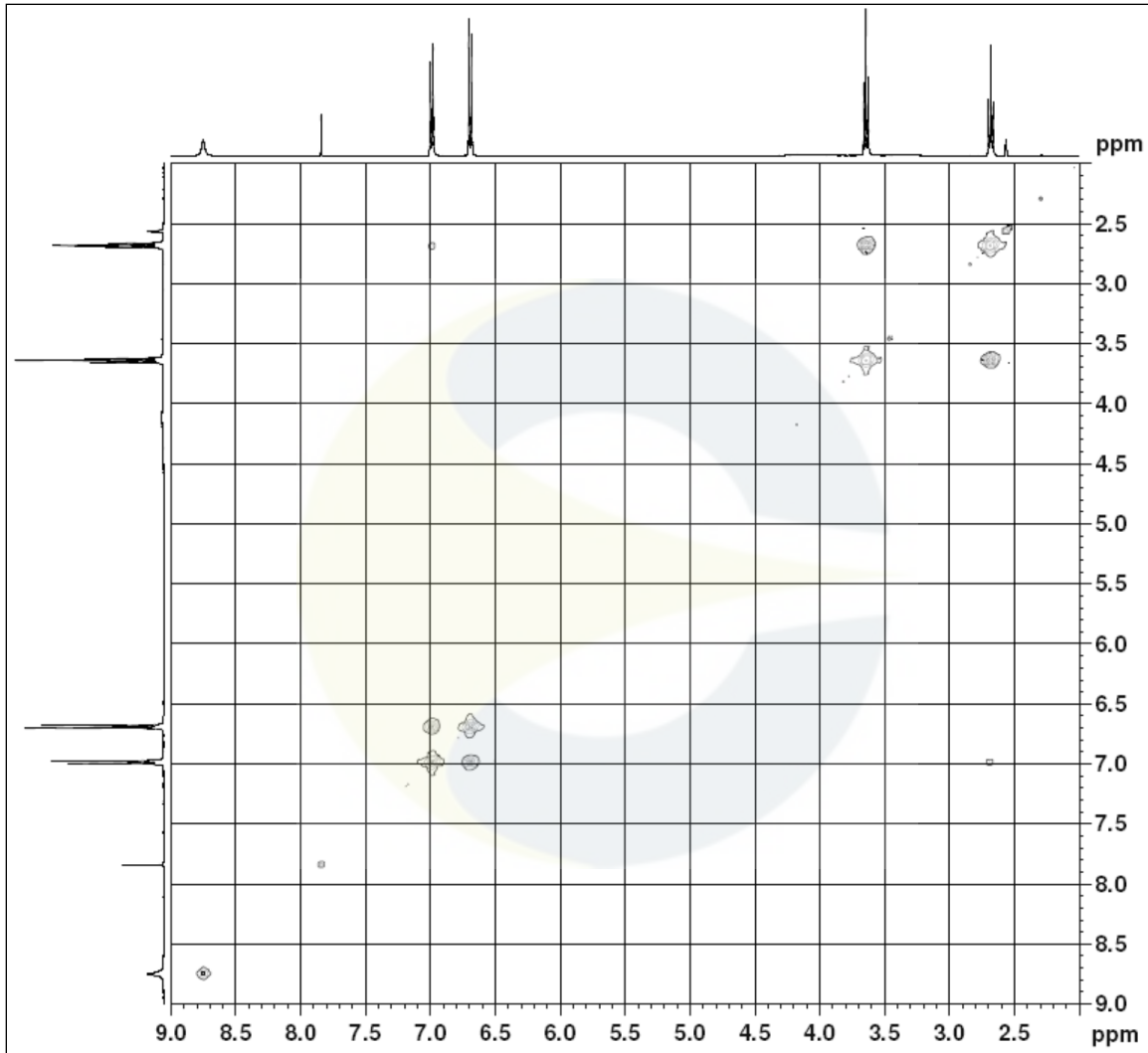
¹H-NMR SPECTRUM OF TYROSOL (CDXA-11-5988) IN CDCl₃ + DMSO-d₆



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.

¹³C-NMR SPECTRUM OF TYROSOL (CDXA-11-5988) IN CDCl₃ + DMSO-d₆

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.

COSY-NMR SPECTRUM OF TYROSOL (CDXA-11-5988) IN CDCl₃ + DMSO-d₆

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	11/17/2011	New report
01	03/17/2016	Passed re-evaluation by HPLC, KF. Updated expiration date and melting point.
02	05/07/2020	Passed second re-evaluation by HPLC and KF. Updated expiration, analytical results, analytical conditions, and chromatograms. Added RTECs number. Removed melting point.

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.