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Certificate of Analysis

PRODUCT NAME trans-Cinnamic acid

PART NUMBER 00003655

STANDARD TYPE Analytical Standard (AS)

LOT NUMBER 00003655-772

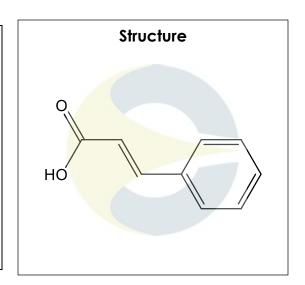
REPORT NUMBER CDXA-RSS-4360-02

SAMPLE NUMBER CDXA-11-0786

DATE OF SAMPLE 02/04/2011

DATE OF RE-EVALUATION 06/04/2015 (1st); 02/20/2020 (2nd)

DATE OF REPORT 03/13/2020



CHEMICAL NAMES (E)-3-Phenyl-2-propenoic acid; (E)-Cinnamic acid; trans-3-Phenyl-2-propenoic

acid; trans-3-Phenylacrylic acid; trans-β-Carboxystyrene

CHEMICAL FORMULA C9H8O2

MOLECULAR WEIGHT (MW) 148.16

CHEMICAL FAMILY Phenolic acids

CAS NUMBER [140-10-3] **EC#(EINECS)** 205-398-1

RTECS GD7850000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT	
GC	0.700.10.2.METH140	NA	99.7%	
Mass Spectrum	0.700.10.2.METH140	Conforms	Conforms	
Appearance	NA	NA	White powder	

STORAGE CONDITIONS

STORAGE Room Temperature °C in a dry place.

EXPIRATION DATE 02/2025 under the above conditions.







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ANALYTICAL CONDITIONS

INSTRUMENT AGILENT 6890N WITH FLAME IONIZATION DETECTOR (FID) AND

AGILENT 5973N MASS SELECTIVE DETECTOR (MSD)

COLUMN Phenomenex Zebron ZB-5HT Inferno, 30 m x 0.32 mm x 0.25 µm; connected to

an MXT Y-union, connected to a Restek Siltek deactivated guard column: 10

m x 0.25 mm to FID; and a 5 m x 100 μ m transfer line to MSD.

CARRIER GAS Helium

COLUMN TEMP. Isothermic 40 °C for 5.0 minutes, then increasing at 10.0 °C/minute to 340 °C.

Hold at 340 °C for 5.0 minutes.

FLOW RATE 2.0 mL/minute

INJECTOR TEMP. 300 °C

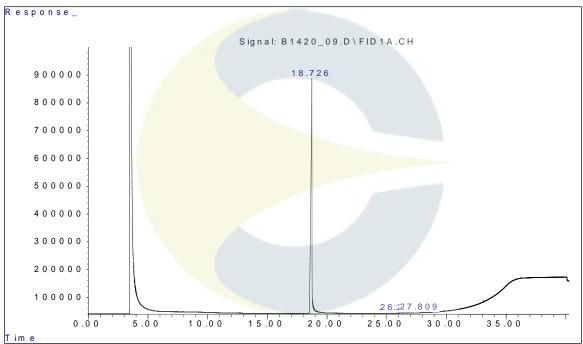
INJECTOR SPLIT RATIO 20:1

INJECTION VOL. 1.0 μL

INJECTION SOLVENT Methanol

DETECTION FID (350 °C) & MSD (Transfer line 300 °C, Source 250 °C, Quad 200 °C)

GC CHROMATOGRAM OF TRANS-CINNAMIC ACID (CDXA-11-0786)





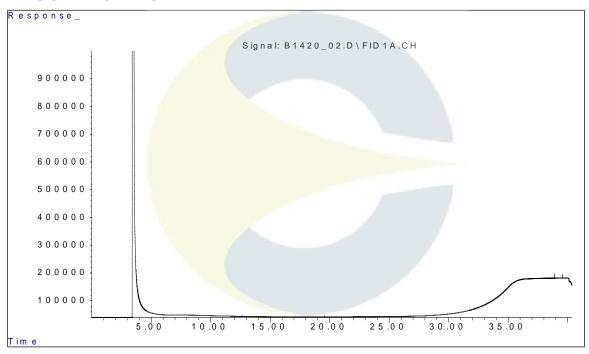




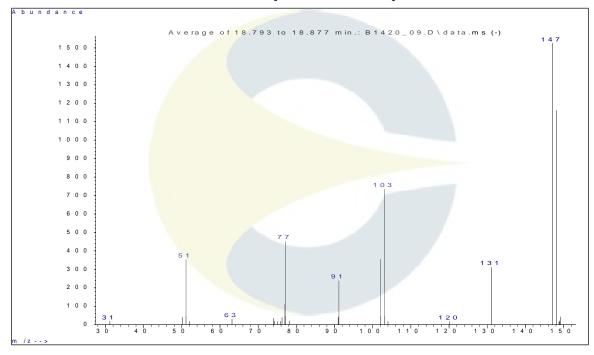
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GC CHROMATOGRAM OF DILUENT BLANK



MASS SPECTRUM OF TRANS-CINNAMIC ACID (CDXA-11-0786)









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REVISION HISTORY

Revision History	<u>Date of Revision</u>	<u>Document/Changes</u>
00	05/09/2011	New report
01	06/24/2015	Passed re-evaluation by GC/FID. Updated expiration date, standard type and melting point.
02	03/13/2020	Passed second re-evaluation by GCMS. Updated expiration date, Analytical Results, Analytical Conditions, and chromatograms. Removed melting point.