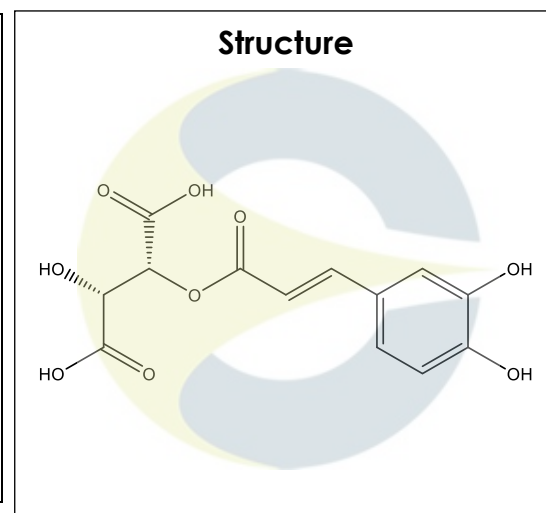


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PRODUCT NAME	Caftartic acid
PART NUMBER	00003028-542
STANDARD TYPE	Primary (P)
LOT NUMBER	00003028-542
REPORT NUMBER	CDXA-RSS-8441-01
SAMPLE NUMBER	CDXP-18-01327
DATE OF SAMPLE	12/13/2018
DATE OF RE-EVALUATION	11/3/2022
DATE OF REPORT	11/16/2022



CHEMICAL NAMES	(R-(R*,R*-(E)))-2-[[3-(3,4-Dihydroxyphenyl)-1-oxo-2-propenyl]oxy]-3-hydroxybutanedioic acid; trans-Caftartic acid
CHEMICAL FORMULA	C ₁₃ H ₁₂ O ₉
MOLECULAR WEIGHT (MW)	312.23
CHEMICAL FAMILY	Phenolic acids
CAS NUMBER	[67879-58-7]
EC#(EINECS)	614-155-2
RTECS	NA

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	94.9%
HPLC	0.700.10.2.METH46	≥ 90%	98.7%
NMR	30.1-04-1.0-000733	Conforms to structure	Conforms to structure
Mass Spectrum	99.1-04-3.0-000126	Conforms	Conforms
Residual Solvent	99.1-CDXA-3.0-000621	NA	ND
Water	0.700.12.37	NA	3.9%
Appearance	NA	NA	Light tan powder

ADJUSTED PURITY: 94.9% IS BASED ON (100 - 0.0 SOLVENTS - 3.9 WATER) X 98.7% HPLC

STORAGE CONDITIONS
STORAGE +4 °C in a dry place.

EXPIRATION DATE 11/2027 under the above conditions.

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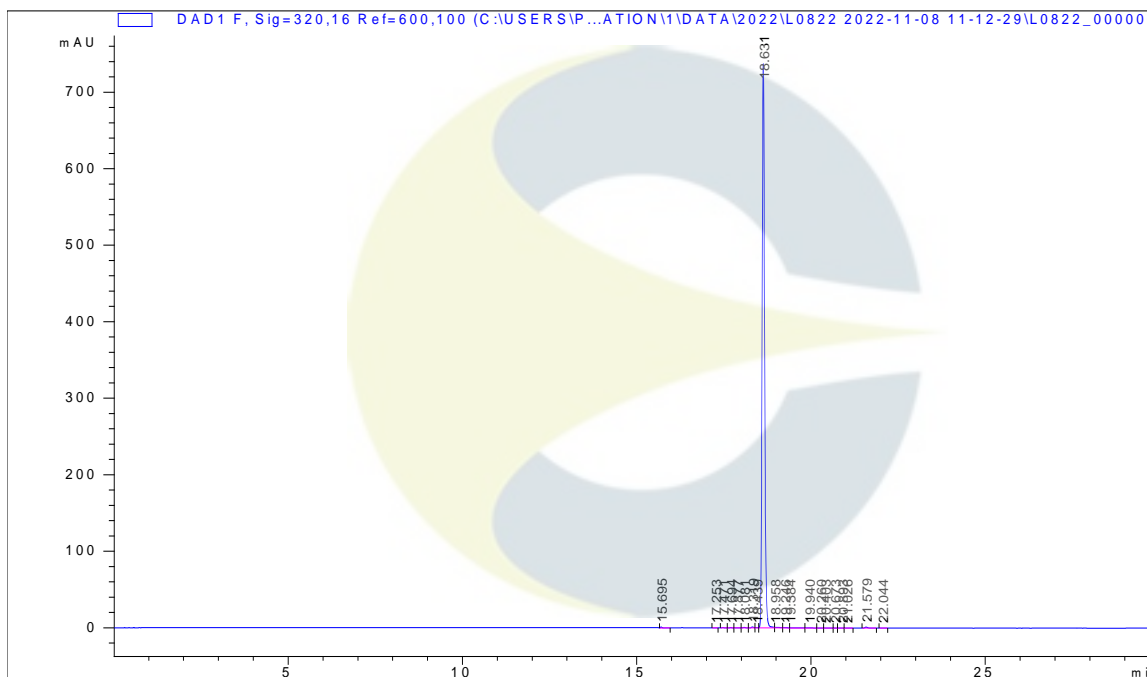
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ANALYTICAL CONDITIONS

INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD); AB-SCIEX 6600 TRIPLE TOF
COLUMN	Phenomenex Synergi Hydro-RP 250 x 4.6 mm, 4 μm particle size
MOBILE PHASE	A – 10 mM Potassium phosphate monobasic, pH 2.90 B - Acetonitrile; Isocratic 0% B for 10 minutes, then increase to 30% B over 10 minutes. Hold at 30% B for 4 minutes and return to 0% B over 5 minutes.
COLUMN TEMP.	22 °C
FLOW RATE	1.0 mL/minute
INJECTION VOL.	0.5 μL
INJECTION CONC.	1.3 mg/mL in Water
DETECTION	320 ± 8 nm

HPLC CHROMATOGRAM OF CAFTARTIC ACID (CDXP-18-01327)



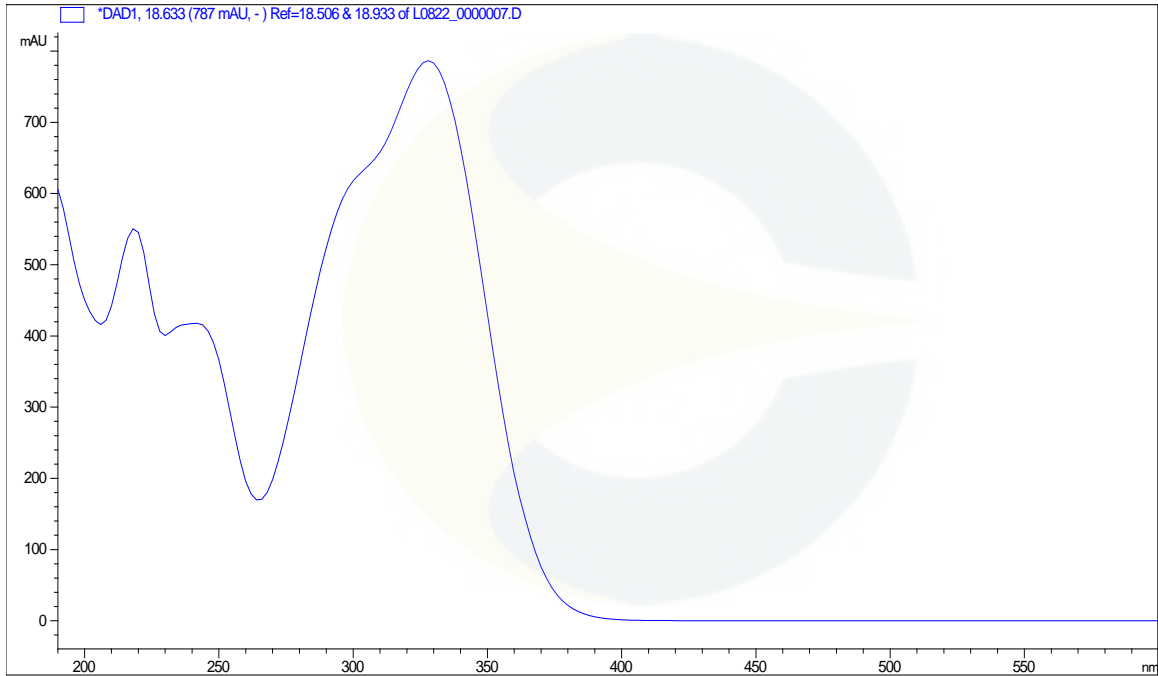
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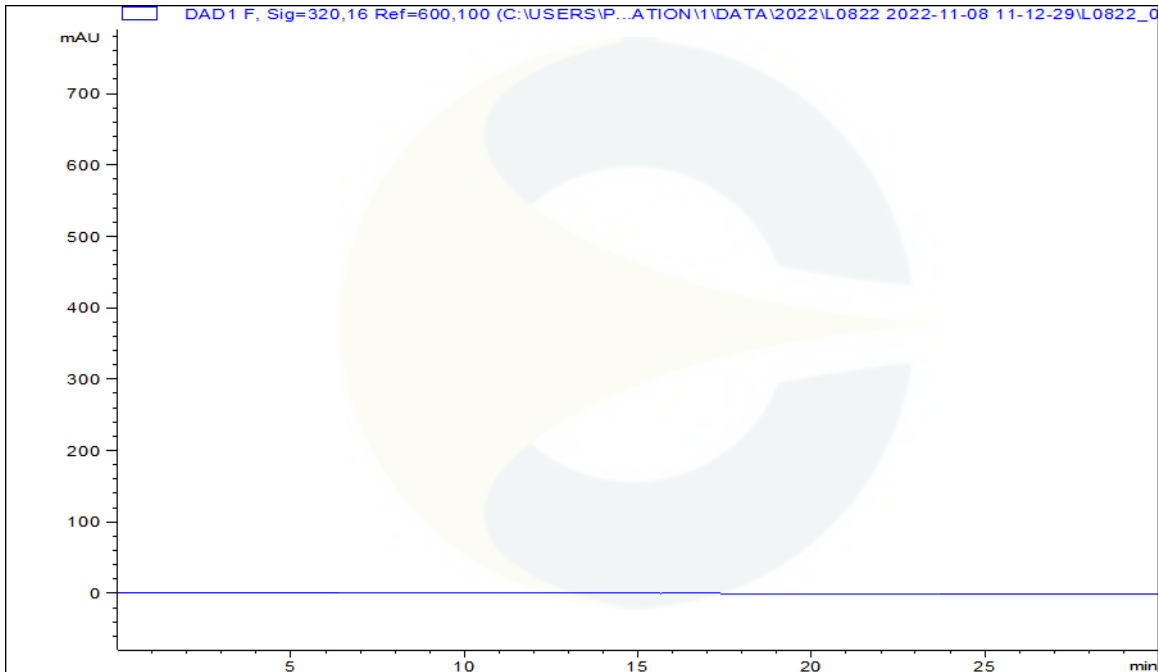
India Contact:
 Life Technologies (India) Pvt. Ltd.
 306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444
 Email: customerservice@lifetechindia.com Website: www.lifetechindia.com

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UV SPECTRUM AT RT = 18.6 MINUTES



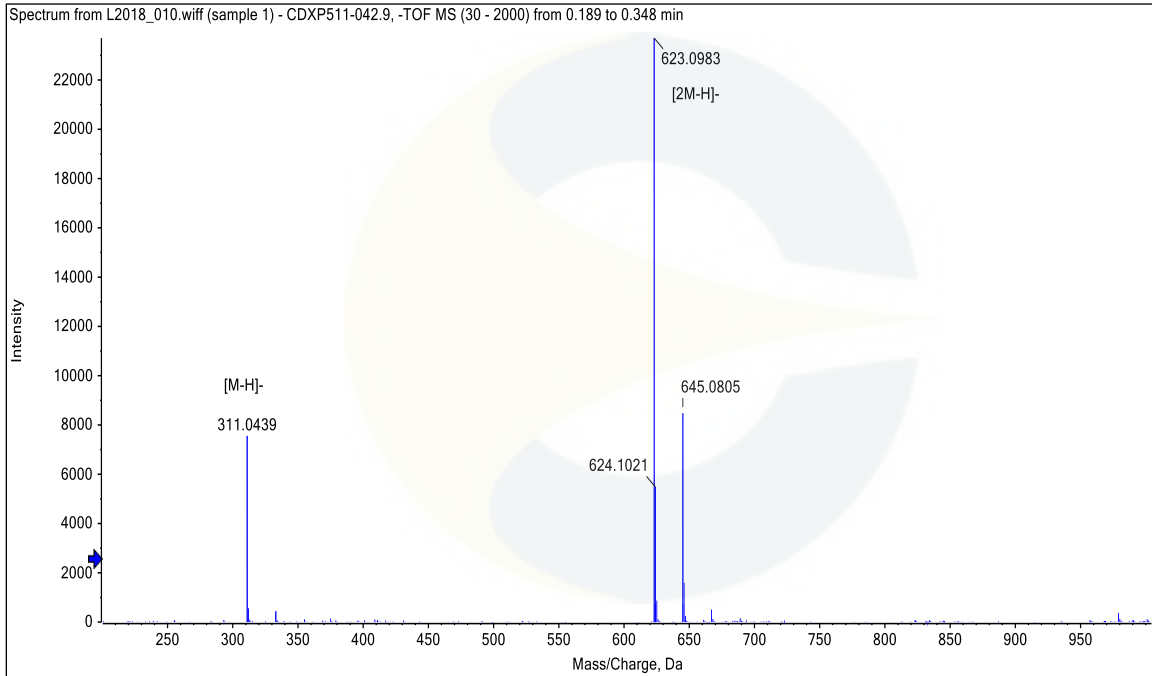
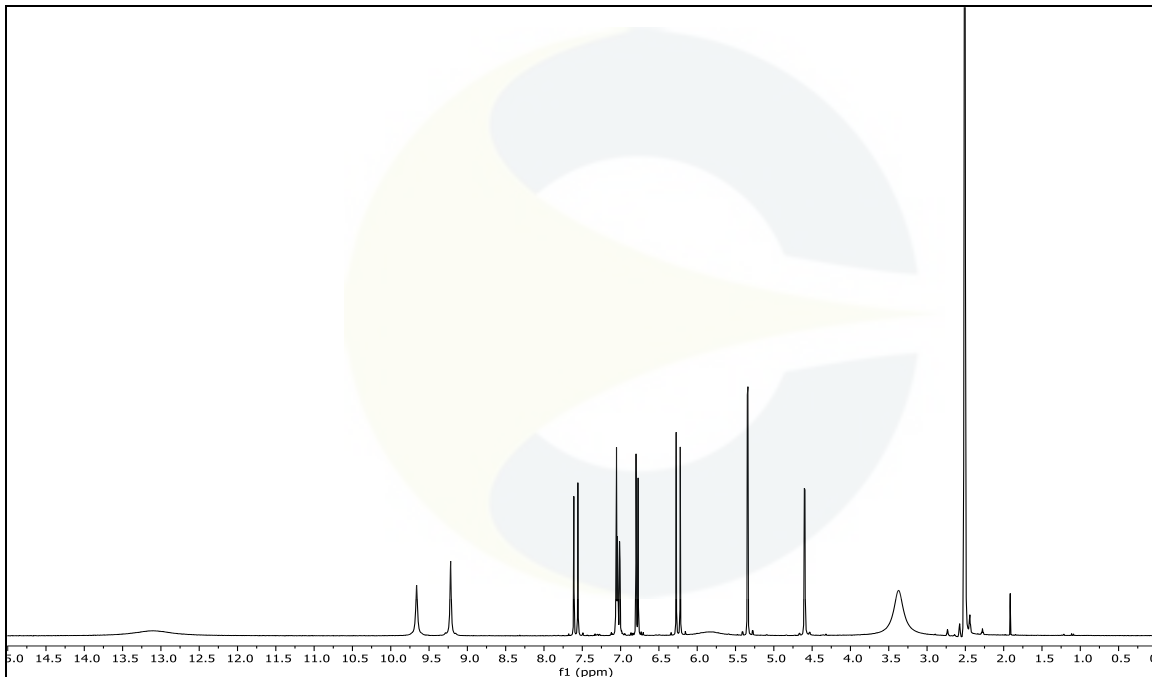
HPLC CHROMATOGRAM OF DILUENT BLANK



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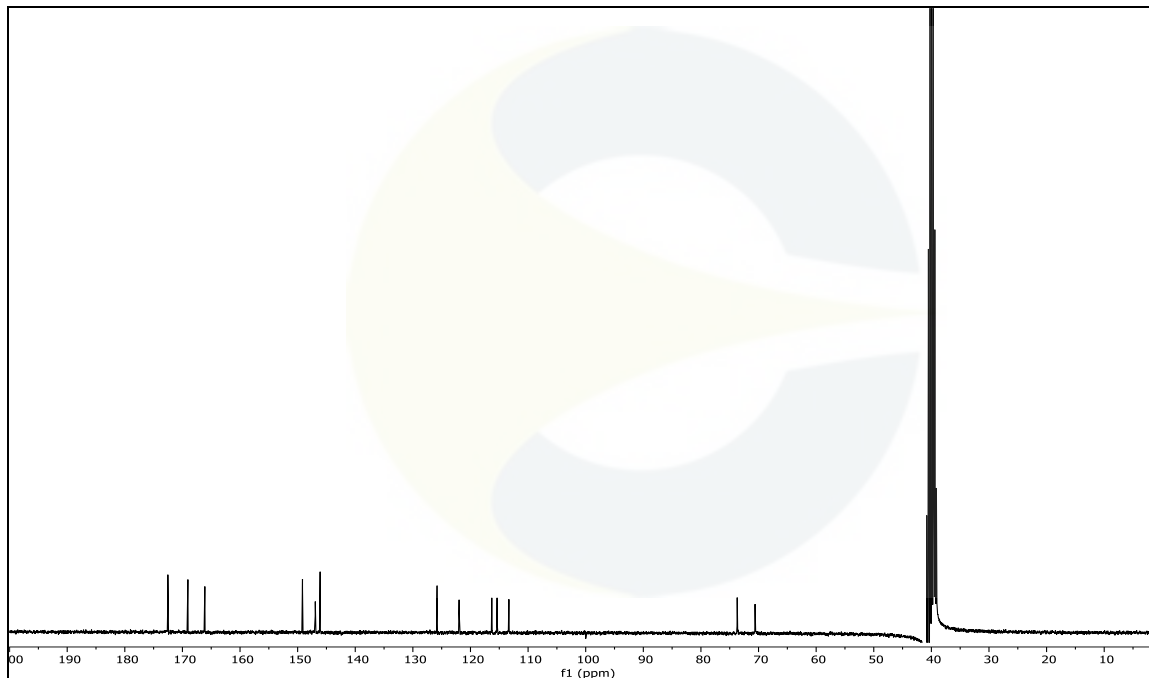
MASS SPECTRUM OF CAFTARTIC ACID (CDXP-18-01327)

¹H-NMR SPECTRUM OF CAFTARTIC ACID (CDXP-18-01327) IN DMSO-d₆


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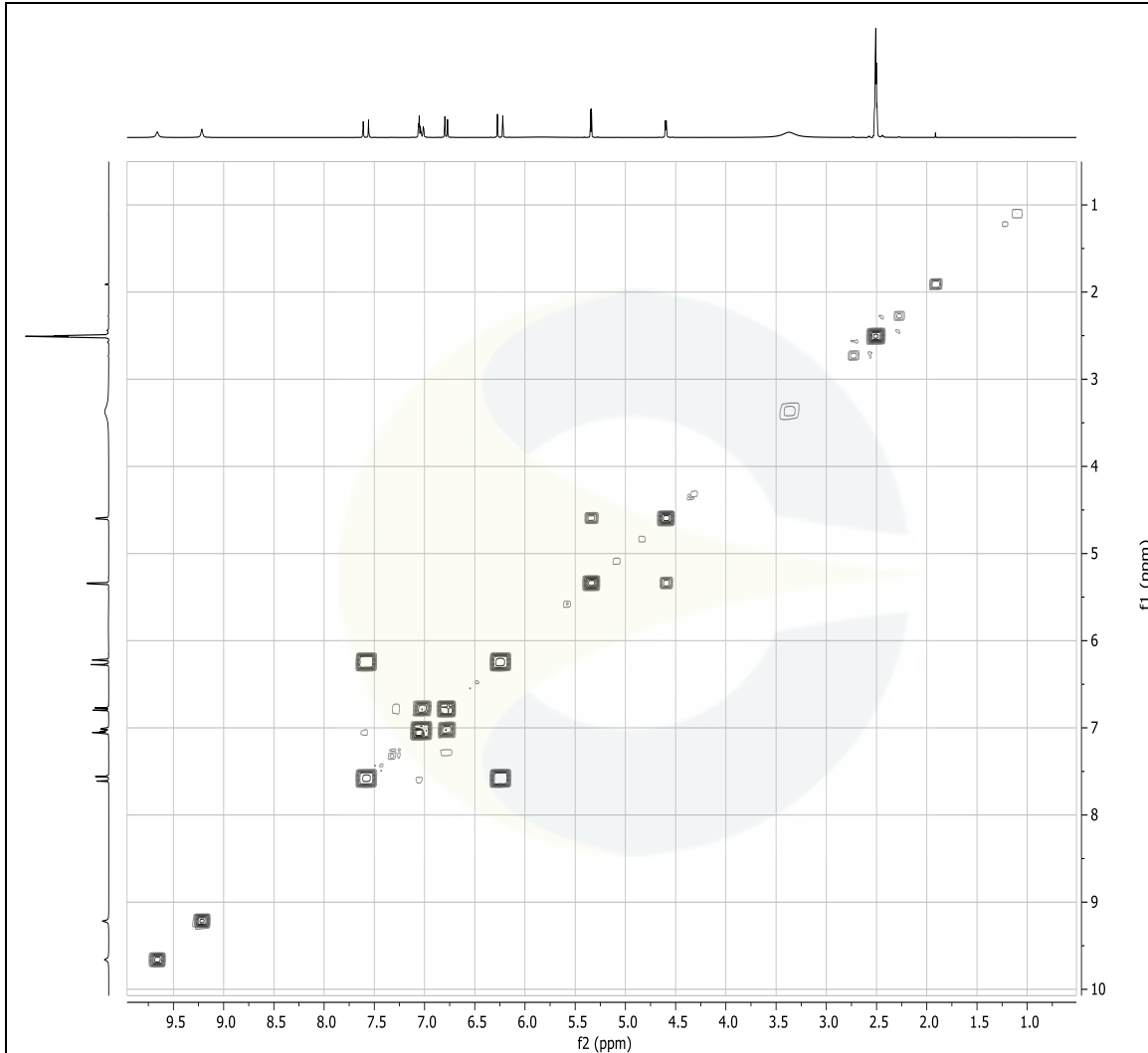
¹³C-NMR SPECTRUM OF CAFTARTIC ACID (CDXP-18-01327) IN DMSO-d₆



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COSY-NMR SPECTRUM OF CAFTARTIC ACID (CDXP-18-01327) IN DMSO-*d*₆

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	01/15/2019	New report
01	11/16/2022	Passed re-evaluation by HPLC and KF. Updated chromatograms, analytical results, conditions and expiration date

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