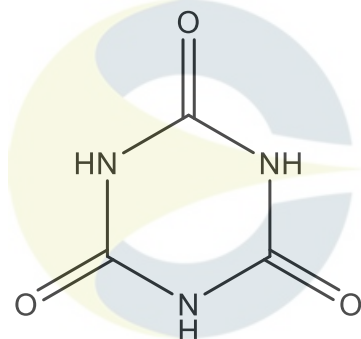


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PRODUCT NAME	Cyanuric acid	Structure 
PART NUMBER	00003958	
STANDARD TYPE	Primary (P)	
LOT NUMBER	00003958-1280	
REPORT NUMBER	CDXA-RSS-1744-02	
SAMPLE NUMBER	CDXA-07-1280	
DATE OF SAMPLE	05/24/2007	
DATE OF RE-EVALUATION	05/27/2011 (1 st); 09/21/2015(2 nd); 12/17/2020 (3 rd)	
DATE OF REPORT	01/12/2021	

CHEMICAL NAMES	1,3,5-Triazine-2,4,6(1H,3H,5H)-trione; 2,4,6-Trihydroxy-1,3,5-triazine; Pseudocyanuric acid; Tricyanic acid; Trihydroxycyanidine
CHEMICAL FORMULA	C ₃ H ₃ N ₃ O ₃
MOLECULAR WEIGHT (MW)	129.07
CHEMICAL FAMILY	Alkaloids
CAS NUMBER	[108-80-5]
EC#(EINECS)	203-618-0
RTECS	XZ1800000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	98.4%
HPLC	0.700.10.2.METH46	≥ 90%	98.4%
NMR	0.700.12.4	Conforms to structure	Conforms to structure
Mass Spectrum	0.700.12.27	Conforms	Conforms
Residual Solvent*	CDXA-AM-001-04	NA	ND
Water	0.700.12.37	NA	ND
Appearance	NA	NA	White powder

ADJUSTED PURITY: 98.4% IS BASED ON (100 - 0.0 SOLVENTS - 0.0 WATER) X 98.4% HPLC

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STORAGE CONDITIONS

STORAGE Room Temperature in a dry place.
EXPIRATION DATE 12/2025 under the above conditions.



Digitally signed by
Elizabeth Hughes
Date: 2021.01.12
15:26:22 -07'00'

ANALYTICAL CONDITIONS

INSTRUMENT AGILENT 1260 HPLC UV-VIS (DAD); AGILENT 6510 QTOF

COLUMN Phenomenex Synergi Hydro-RP 250 x 4.6 mm, 4 µm particle size

MOBILE PHASE A – 10mM Potassium phosphate monobasic (KH₂PO₄) in Ultrapure water,
B - Acetonitrile;
Isocratic 0% B for 10 minutes, then increasing to 30% B over 10 minutes. Hold at 30% B for 4 minutes, then decreasing to 0%B over 0.1 minutes.

COLUMN TEMP. 22 °C

FLOW RATE 1.0 mL/minute

INJECTION VOL. 2.0 µL

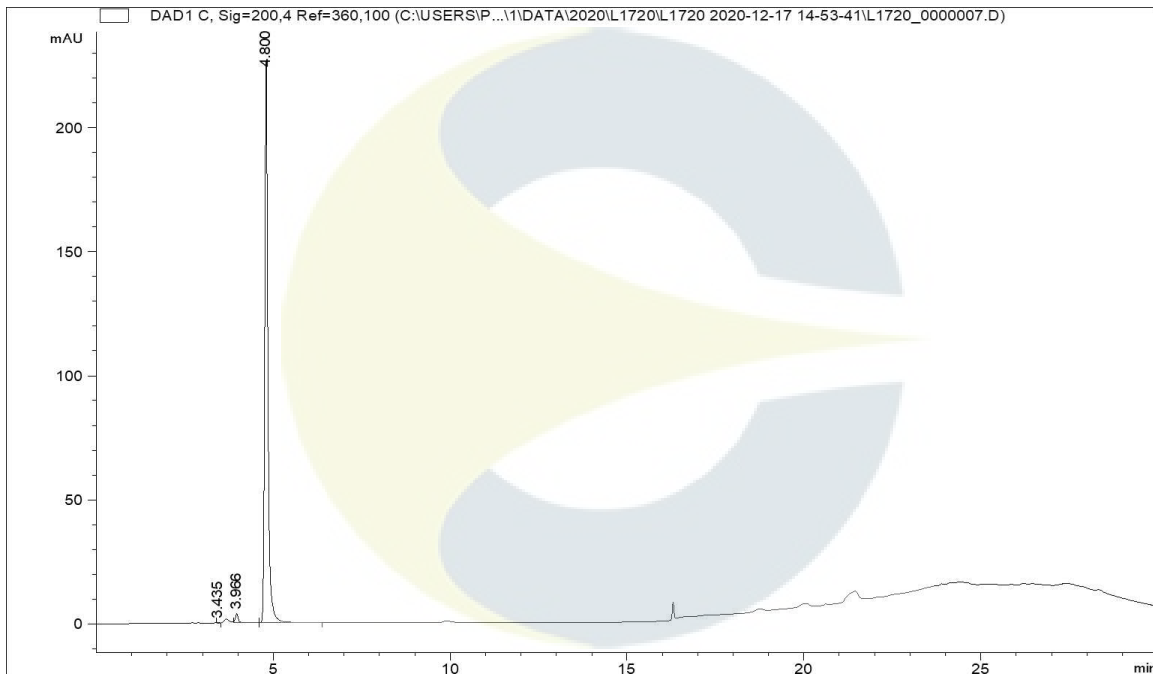
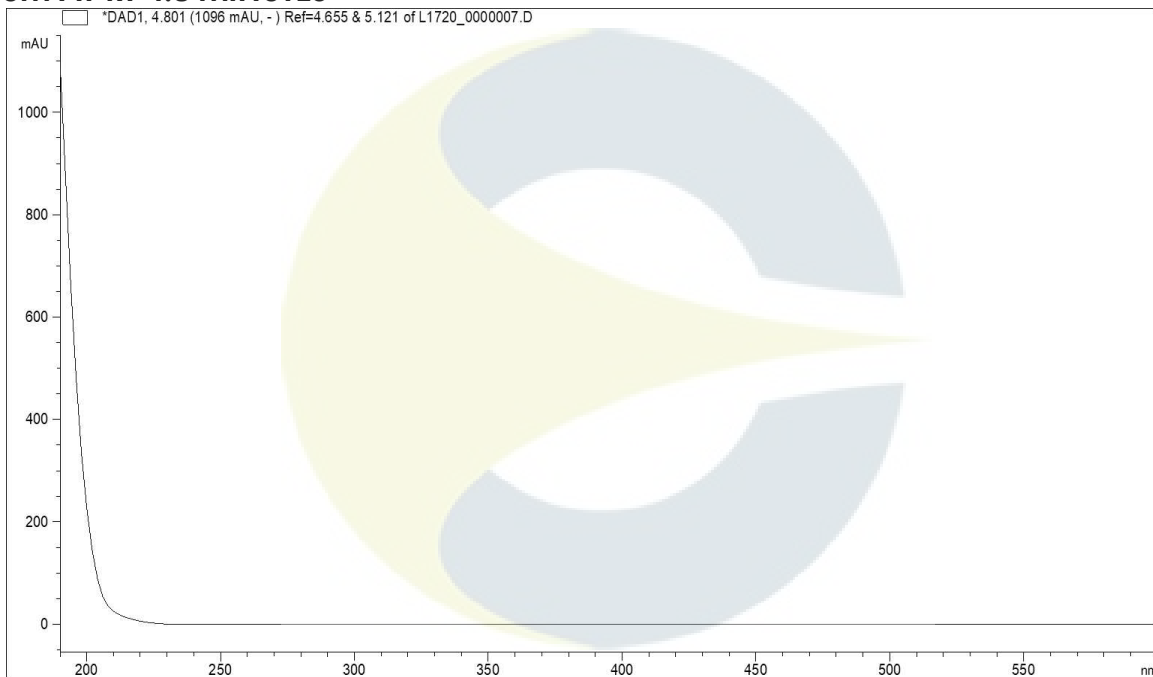
INJECTION CONC. 1.1 mg/mL in Ultrapure water

DETECTION 200 ± 2 nm

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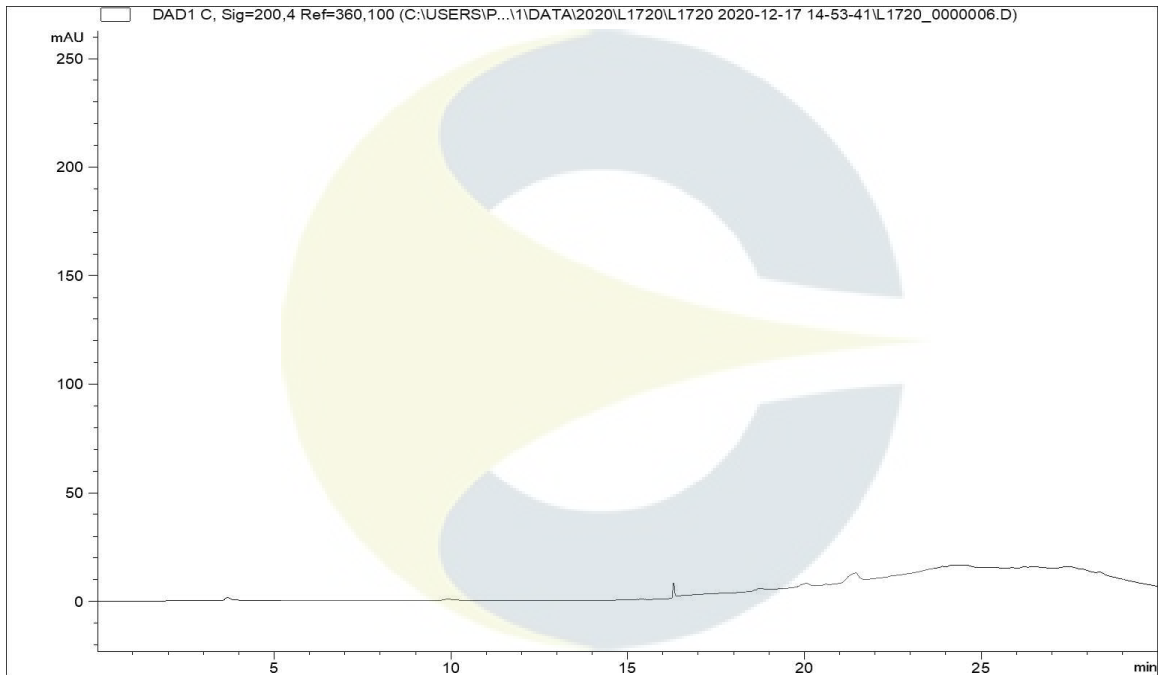
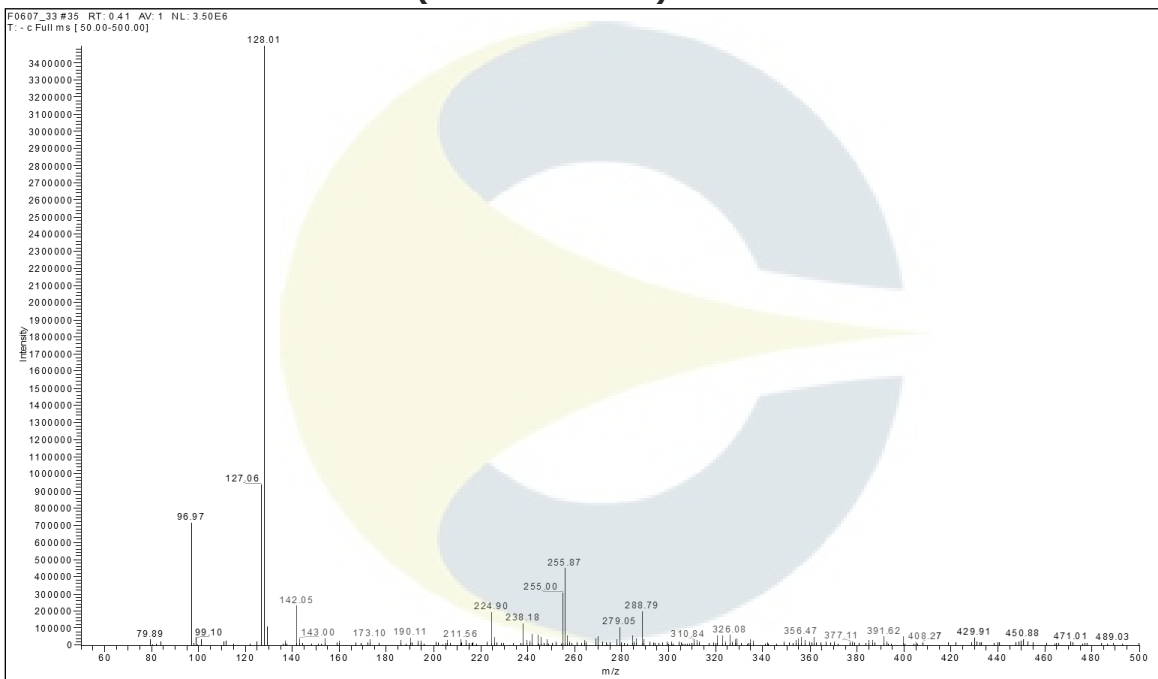
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HPLC CHROMATOGRAM OF CYANURIC ACID (CDXA-07-1280)**UV SPECTRUM AT RT 4.8 MINUTES**

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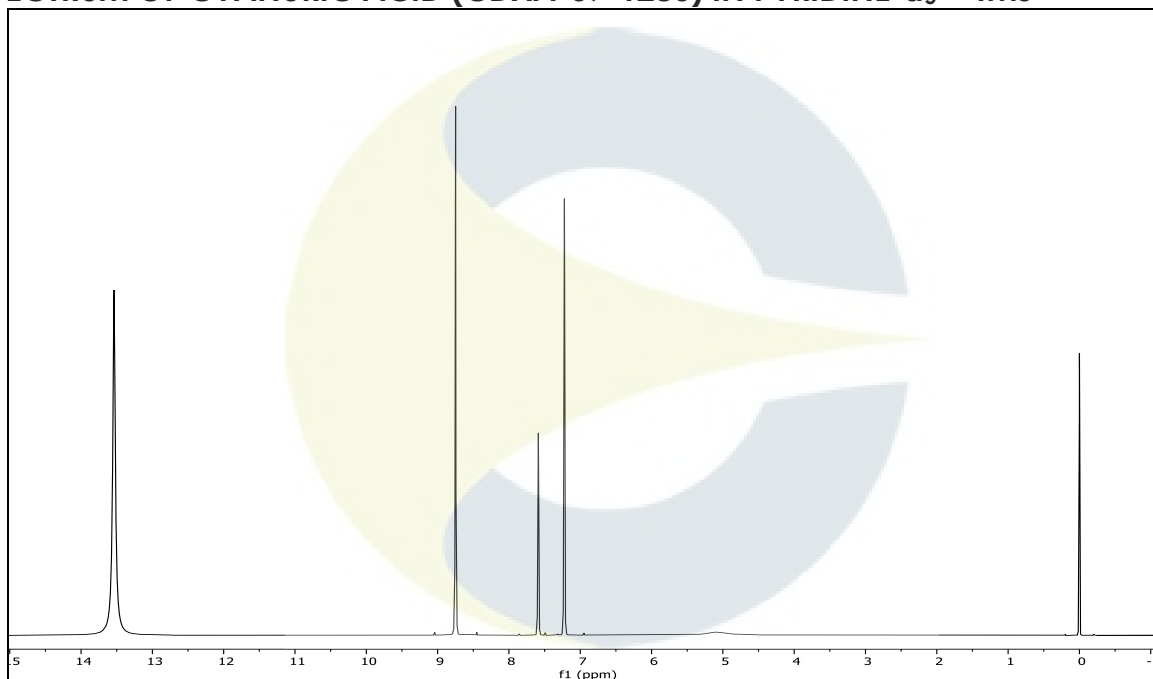
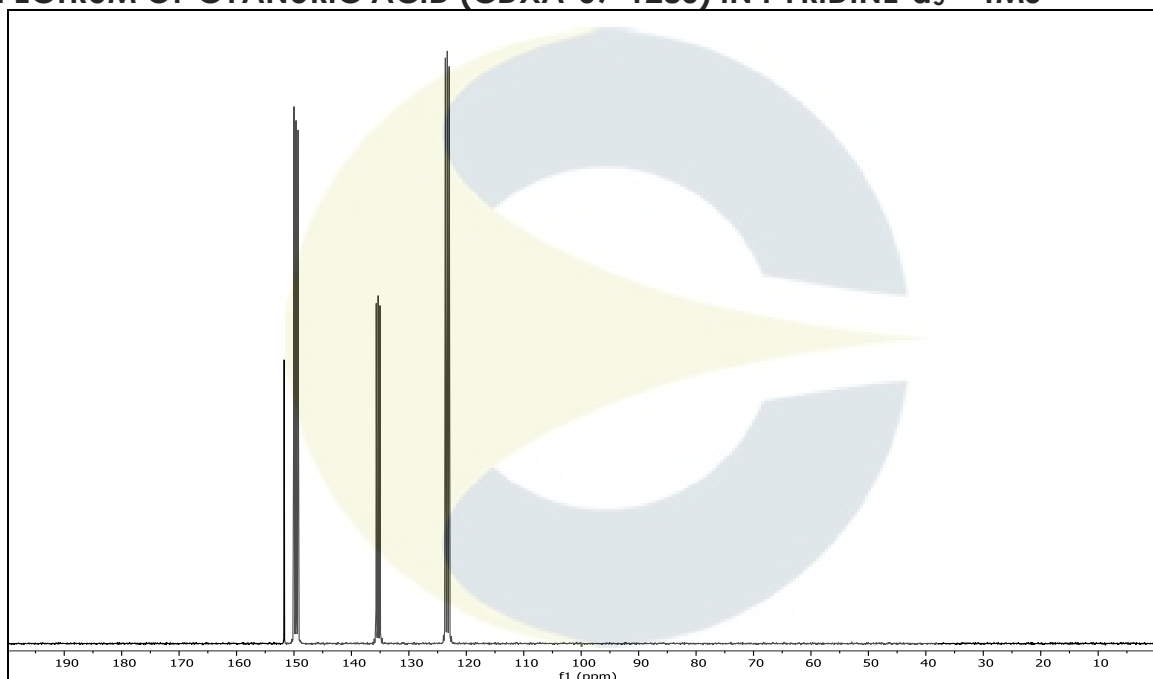
India Contact:
Life Technologies (India) Pvt. Ltd.
306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444
Email: customerservice@lifetechindia.com Website: www.lifetechindia.com

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HPLC CHROMATOGRAM OF DILUENT BLANK

MASS SPECTRUM OF CYANURIC ACID (CDXA-07-1280)


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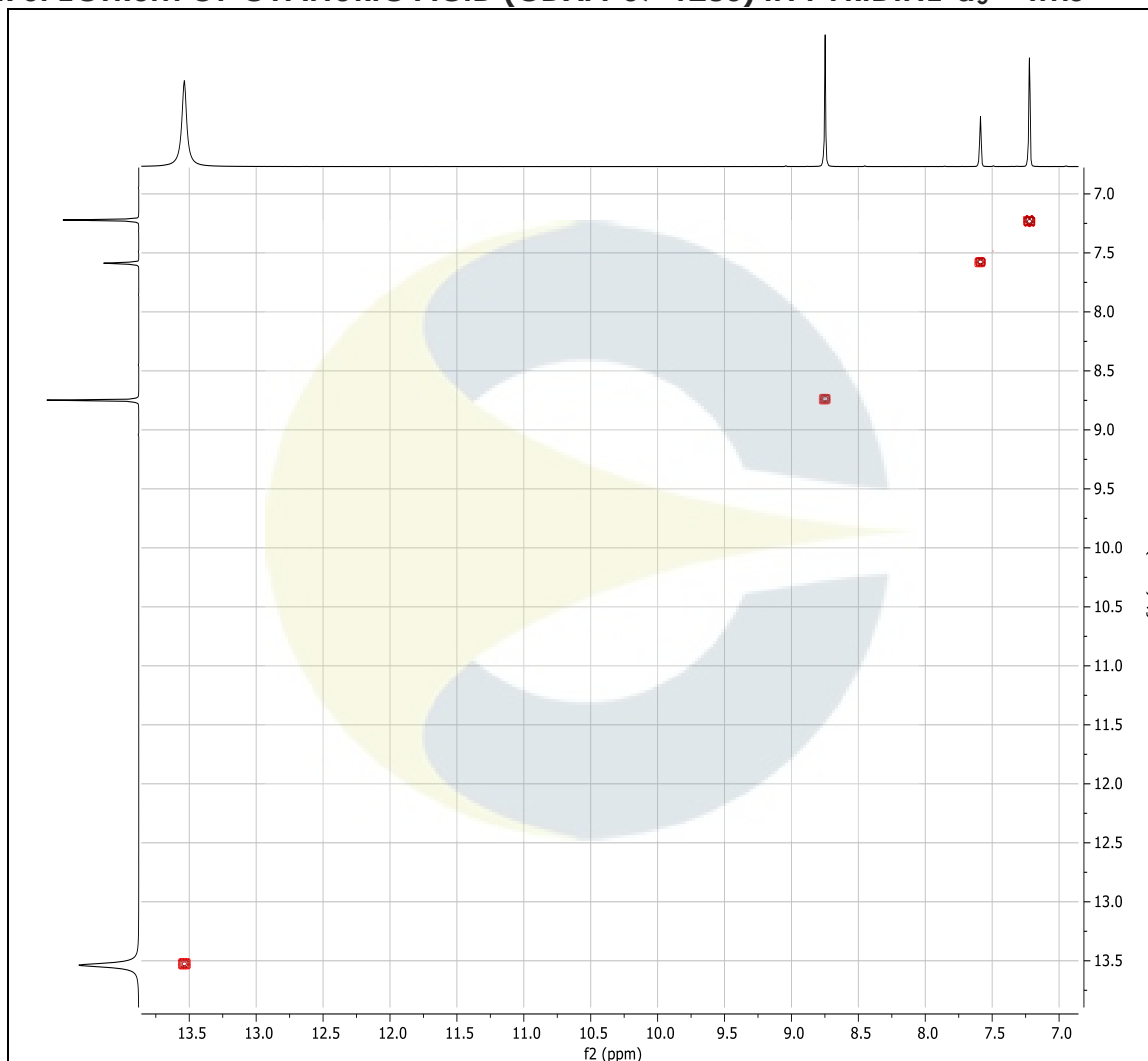
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¹H-NMR SPECTRUM OF CYANURIC ACID (CDXA-07-1280) IN PYRIDINE-d₅ + TMS

¹³C-NMR SPECTRUM OF CYANURIC ACID (CDXA-07-1280) IN PYRIDINE-d₅ + TMS


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COSY-NMR SPECTRUM OF CYANURIC ACID (CDXA-07-1280) IN PYRIDINE-*d*₅ + TMS

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	05/27/2011	New report and first re-evaluation
01	11/17/2015	Passed second re-evaluation by HPLC, KF. Updated expiration date, chemical structure, chemical names and melting point.
02	01/12/2021	Passed third re-evaluation by HPLC, KF, and NMR. Updated analytical results, expiration date, analytical conditions, chromatograms, NMR spectra, and removed melting point.

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