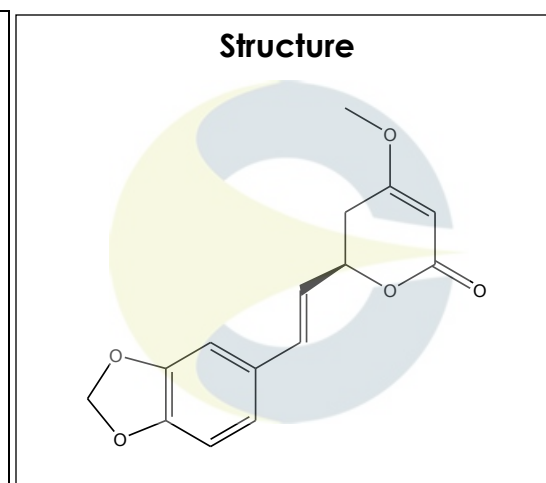


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PRODUCT NAME	Methysticin
PART NUMBER	00013860
STANDARD TYPE	Primary (P)
LOT NUMBER	00013860-711
REPORT NUMBER	CDXA-RSS-4604-02
SAMPLE NUMBER	CDXA-11-4302
DATE OF SAMPLE	07/26/2011
DATE OF RE-EVALUATION	10/15/2015 (1 st); 09/01/2020 (2 nd)
DATE OF REPORT	09/14/2020



CHEMICAL NAMES	(6R)-6-[(1E)-2-(1,3-Benzodioxol-5-yl)ethenyl]-5,6-dihydro-4-methoxy-2H-pyran-2-one; (+)-Methysticin; Kavatin
CHEMICAL FORMULA	C ₁₅ H ₁₄ O ₅
MOLECULAR WEIGHT (MW)	274.27
CHEMICAL FAMILY	Kavalactones
CAS NUMBER	[495-85-2]
EC#(EINECS)	NA
RTECS	UQ0517000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	NA	99.7%
HPLC	0.700.10.2.METH22	NA	99.7%
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-4.0-000115	NA	ND
Water	0.700.12.37	NA	ND
Appearance	NA	NA	White powder

ADJUSTED PURITY: 99.7% IS BASED ON (100 - 0.0 SOLVENTS - 0.0 WATER) X 99.7% HPLC

STORAGE CONDITIONS

STORAGE	-20°C in a dry place.
EXPIRATION DATE	09/2025 under the above conditions.

Elizabeth Hughes

 Quality Assurance
 Specialist Assistant
 Designee of QA
 Management

 Digitally signed by
Elizabeth Hughes
 Date: 2020.09.14
 10:13:42 -06'00'

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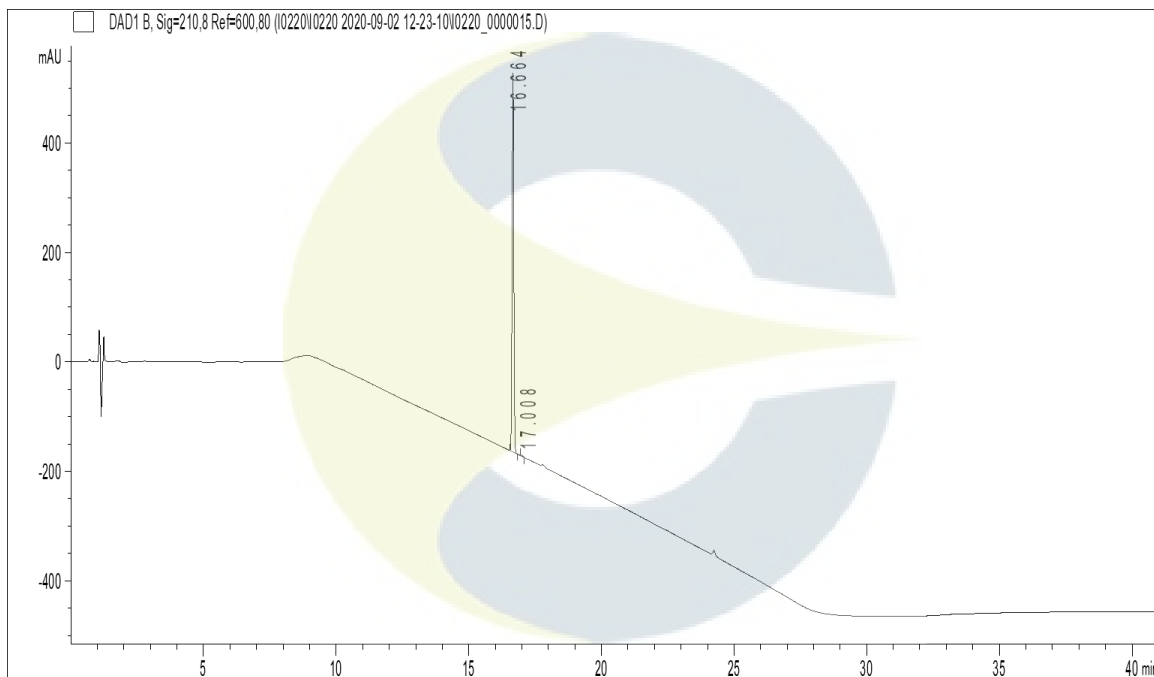
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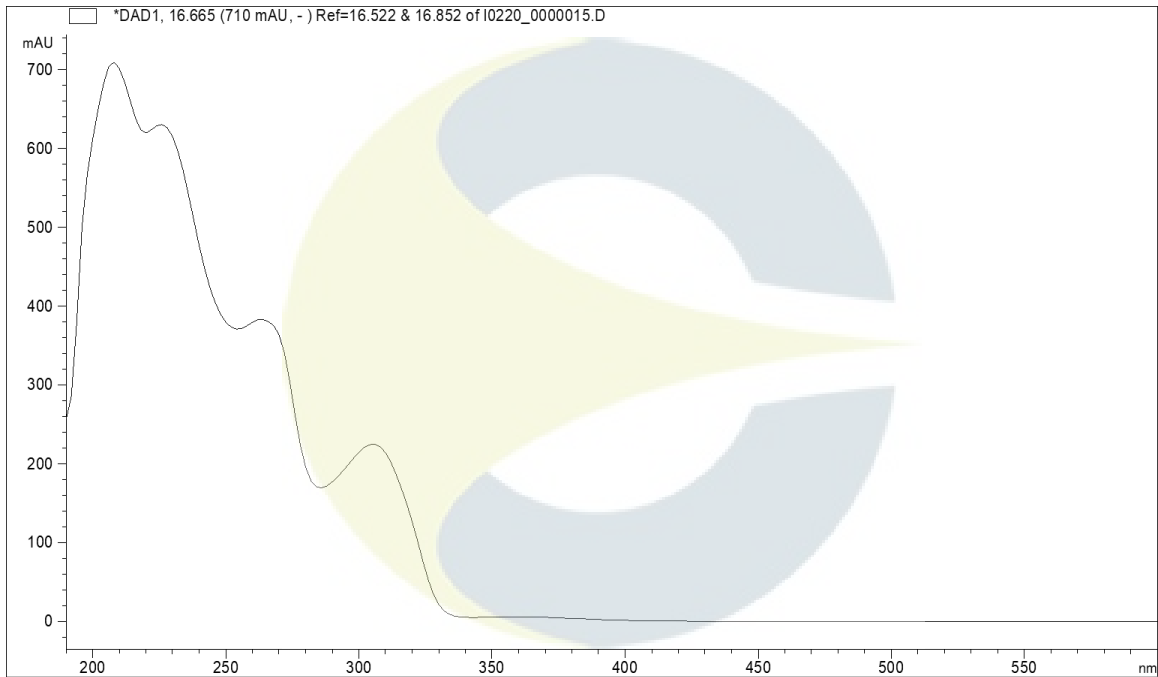
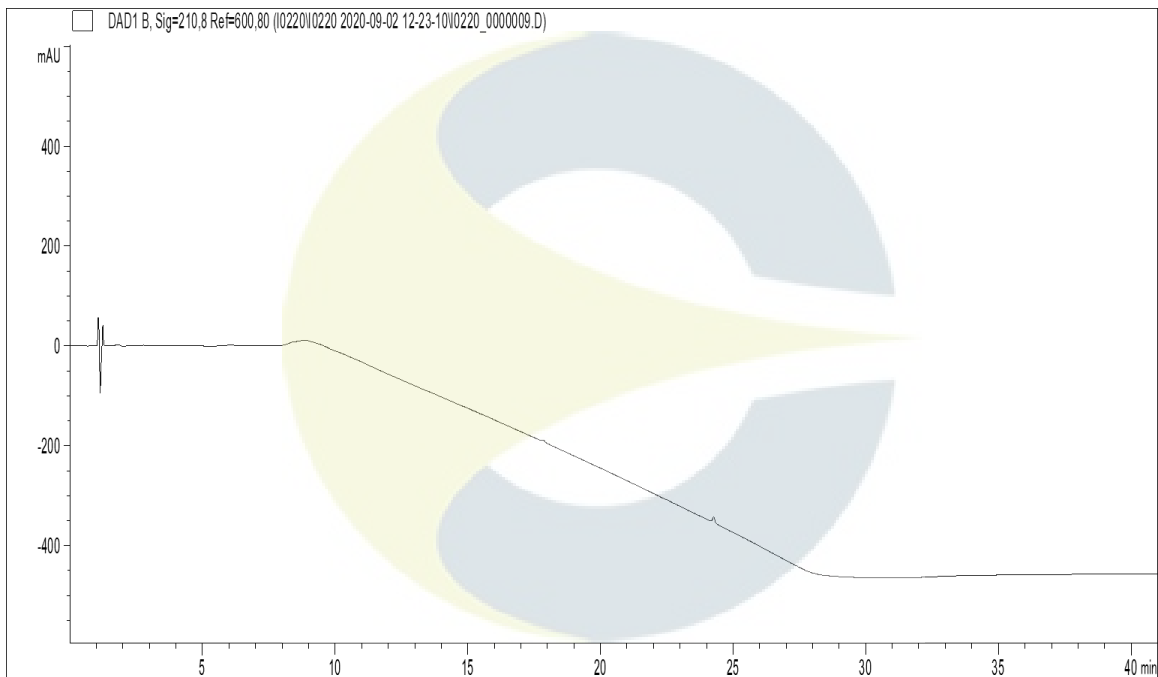
INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD); AGILENT 6510 QTOF
COLUMN	Phenomenex Luna C18(2) 150 x 2.00 mm, 5 µm particle size
MOBILE PHASE	A - 0.1% Trifluoroacetic acid in Ultrapure water, B - Acetonitrile; Isocratic 5% B for 5 minutes, then increasing to 95% B over 20 minutes. Hold at 95% B for 15 minutes.
COLUMN TEMP.	60 °C
FLOW RATE	0.4 mL/minute
INJECTION VOL.	0.2 µL
INJECTION CONC.	1.0 mg/mL in Methanol
DETECTION	210 ± 4 nm

HPLC CHROMATOGRAM OF METHYSTICIN (CDXA-11-4302)



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 Laboratory address: 1751 S. Fordham St., Suite 350, Longmont, CO 80503

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UV SPECTRUM AT RT 16.7 MINUTES

HPLC CHROMATOGRAM OF DILUENT BLANK


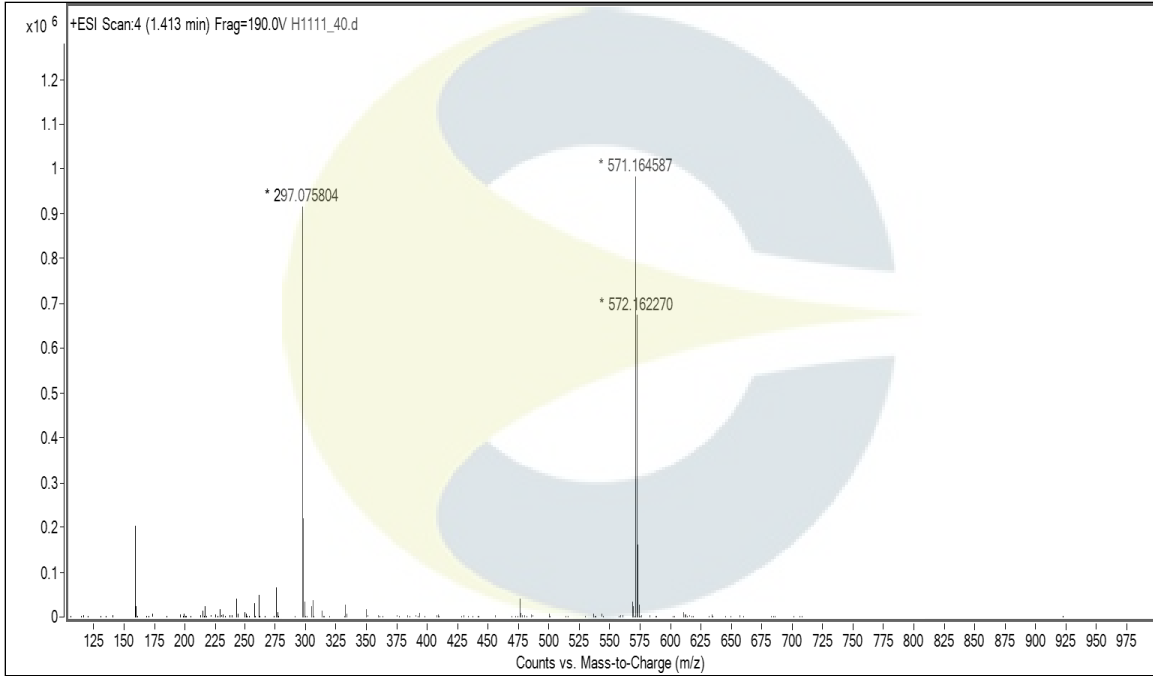
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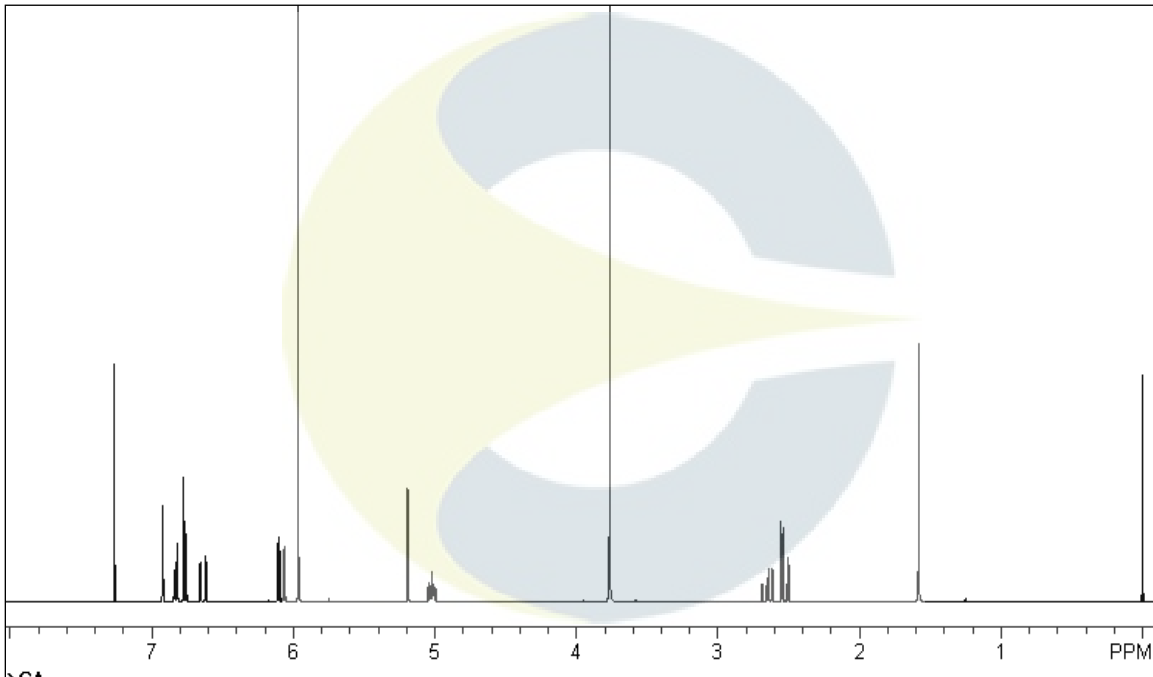
India Contact:
 Life Technologies (India) Pvt. Ltd.
 306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444
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MASS SPECTRUM OF METHYSTICIN (CDXA-11-4302)



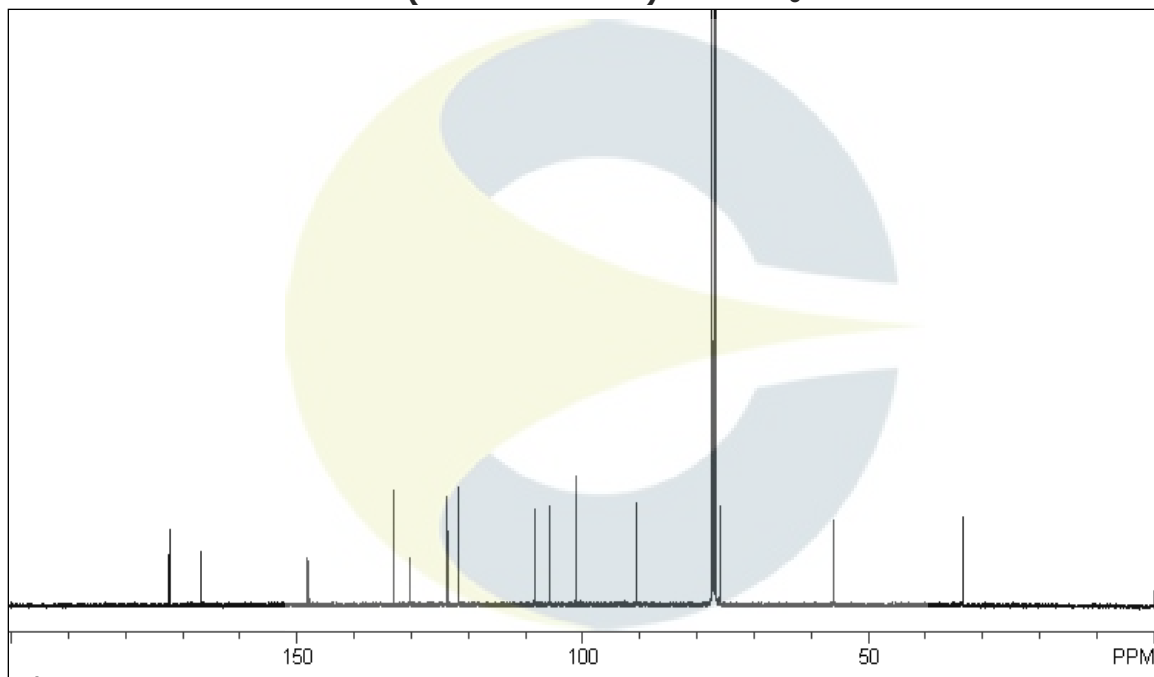
¹H-NMR SPECTRUM OF METHYSTICIN (CDXA-11-4302) IN CDCl₃



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¹³C-NMR SPECTRUM OF METHYSTICIN (CDXA-11-4302) IN CDCl₃

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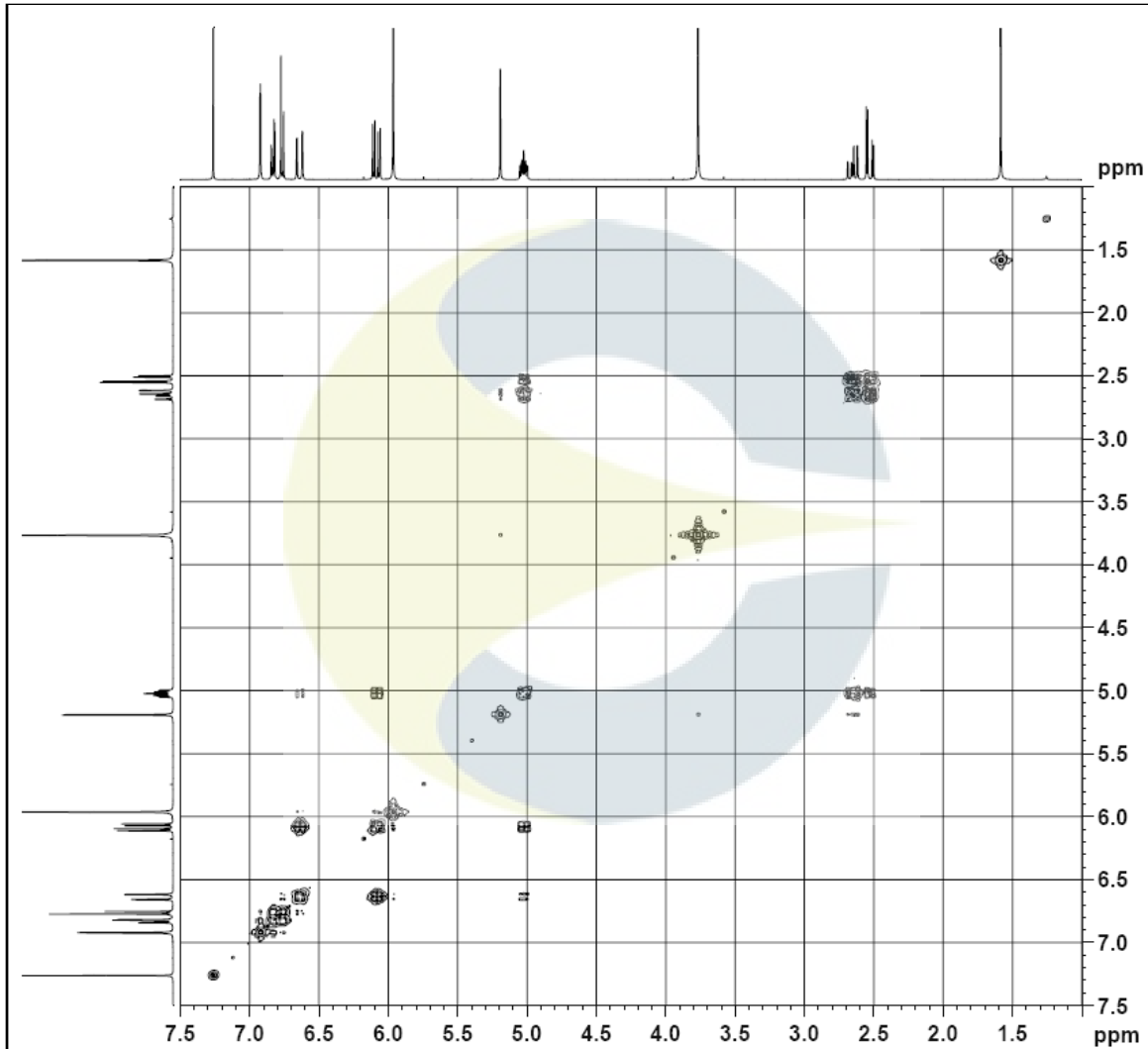
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COSY-NMR SPECTRUM OF METHYSTICIN (CDXA-11-4302) IN CDCl₃

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	08/24/2011	New report
01	11/05/2015	Passed re-evaluation by HPLC. Updated expiration date.
02	09/14/2020	Passed second re-evaluation by HPLC and KF. Updated analytical results, expiration date, analytical conditions, chromatograms, UV spectrum, and removed melting point.

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