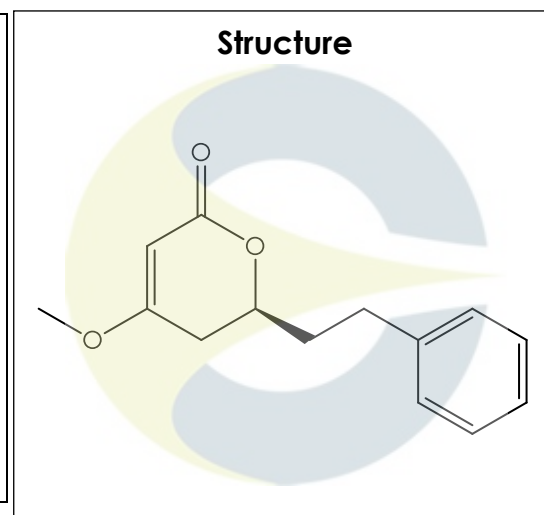


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PRODUCT NAME	Dihydrokavain
PART NUMBER	00004476
STANDARD TYPE	Primary (P)
LOT NUMBER	00004476-122
REPORT NUMBER	CDXA-RSS-8391-01
SAMPLE NUMBER	CDXP-18-01241
DATE OF SAMPLE	11/14/2018
DATE OF RE-EVALUATION	10/11/2022
DATE OF REPORT	11/04/2022



CHEMICAL NAMES	(6S)-5,6-Dihydro-4-methoxy-6-(2-phenylethyl)-2H-pyran-2-one; (+)-7,8-Dihydrokavain; Marindinin
CHEMICAL FORMULA	C ₁₄ H ₁₆ O ₃
MOLECULAR WEIGHT (MW)	232.27
CHEMICAL FAMILY	Kavalactones
CAS NUMBER	[587-63-3]
EC#(EINECS)	NA
RTECS	UQ0517700

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	99.5%
HPLC	0.700.10.2.METH22	≥ 90%	99.7%
NMR	99.1-04-1.0-000733	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	Ethyl acetate – 0.2% Methanol < 0.1% n-Hexane < 0.1%
Water	0.700.12.37	NA	ND
Appearance	NA	NA	White powder

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*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 99.5% IS BASED ON (100 - 0.2 SOLVENTS - 0.0 WATER) X 99.7% HPLC

STORAGE CONDITIONS

STORAGE -20 °C in a dry place.
EXPIRATION DATE 10/2027 under the above conditions.



Digitally signed
by Rob L
Reynolds
Date: 2022.11.04
14:15:17 -06'00'

ANALYTICAL CONDITIONS

INSTRUMENT AGILENT 1260 HPLC UV-VIS (DAD); AB-SCIEX 6600 TRIPLE TOF
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, then decreasing to 5% B over 1 minute.
COLUMN TEMP. 60 °C
FLOW RATE 0.4 mL/minute
INJECTION VOL. 1.0 µL
INJECTION CONC. 1.0 mg/mL in Methanol
DETECTION 205 ± 2 nm

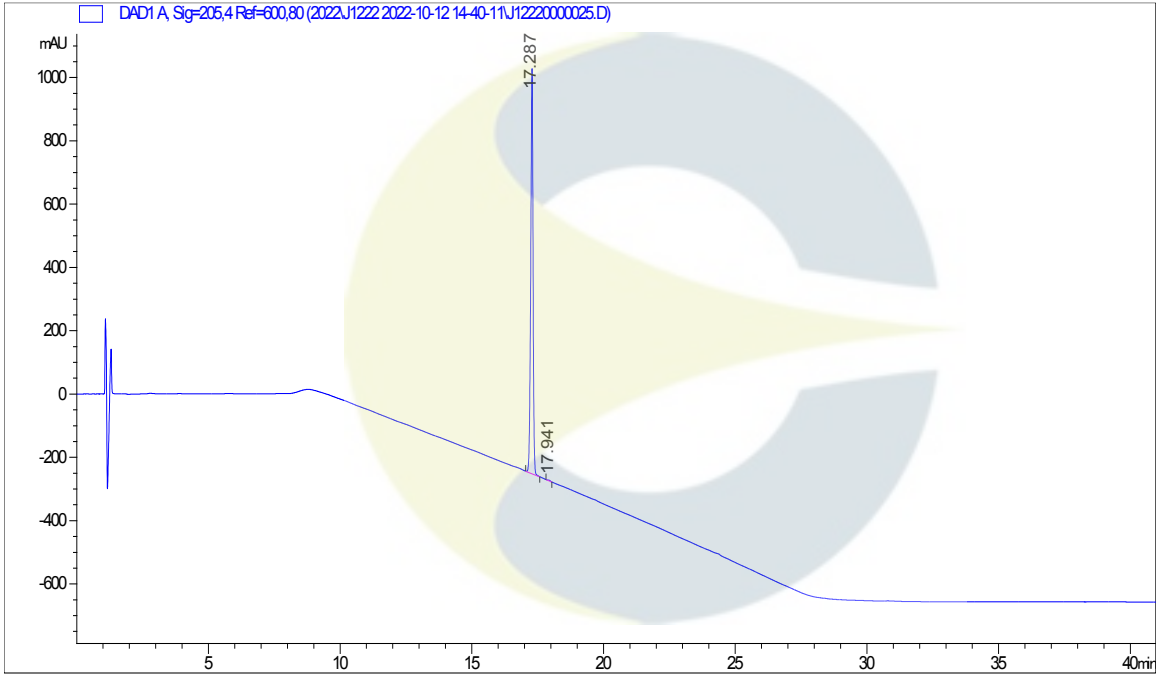
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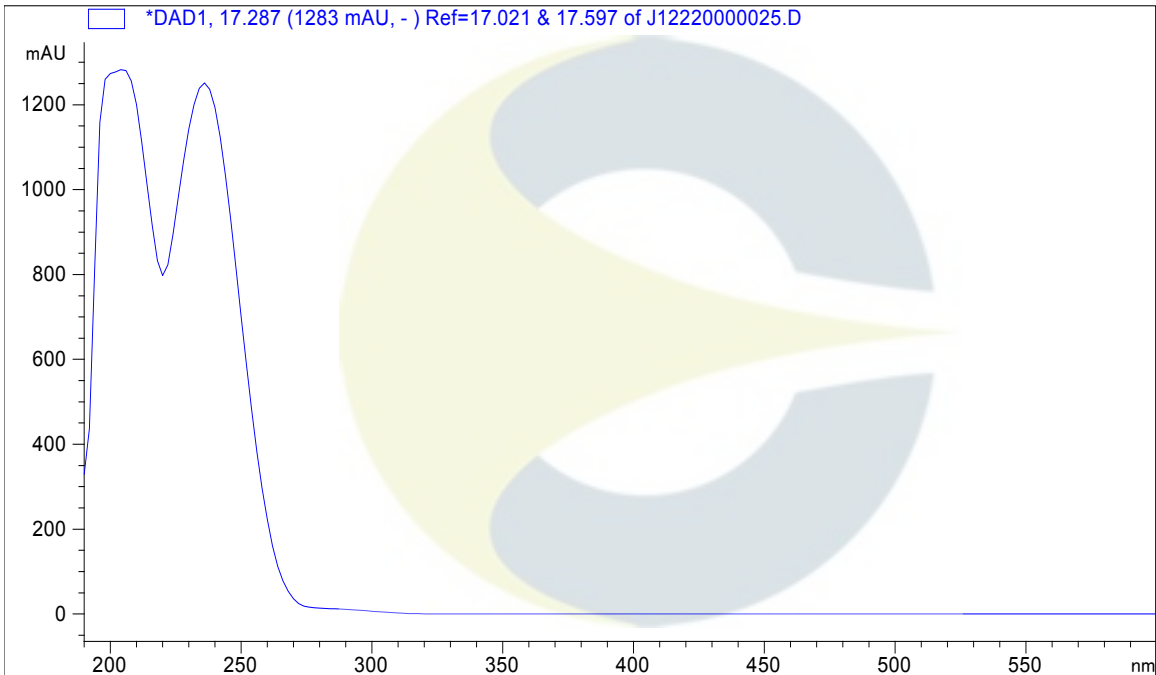
India Contact:
Life Technologies (India) Pvt. Ltd.
306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi - 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444
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HPLC CHROMATOGRAM OF DIHYDROKAVAIN (CDXP-18-01241)



UV SPECTRUM AT RT = 17.3 MINUTES



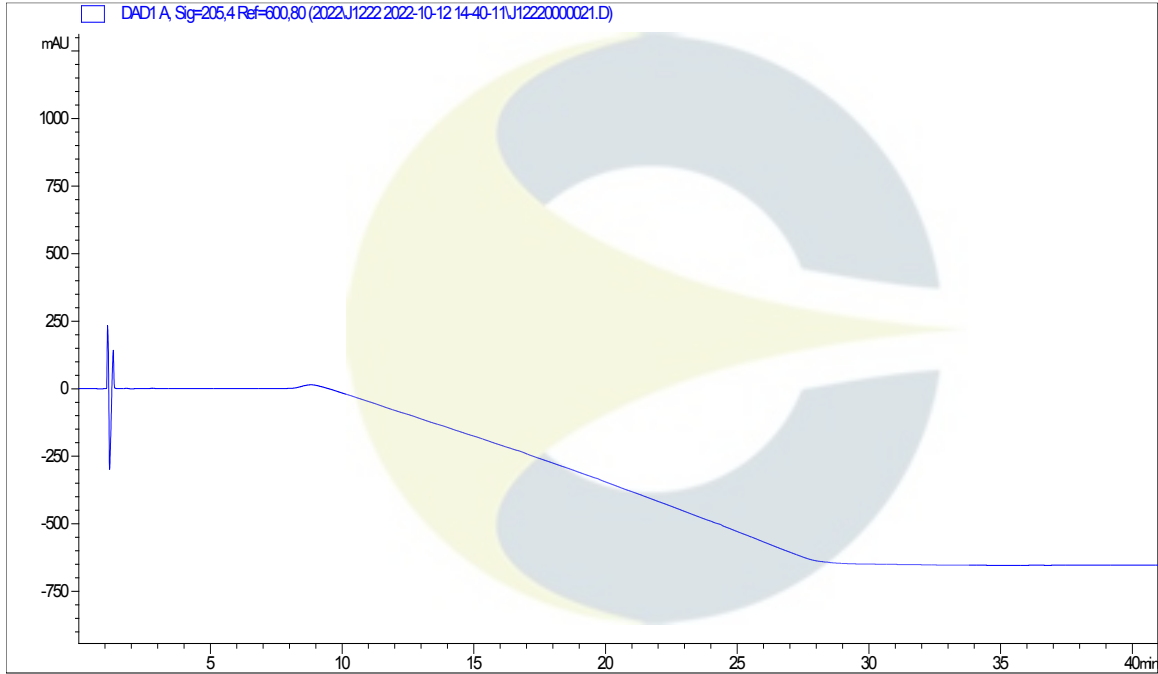
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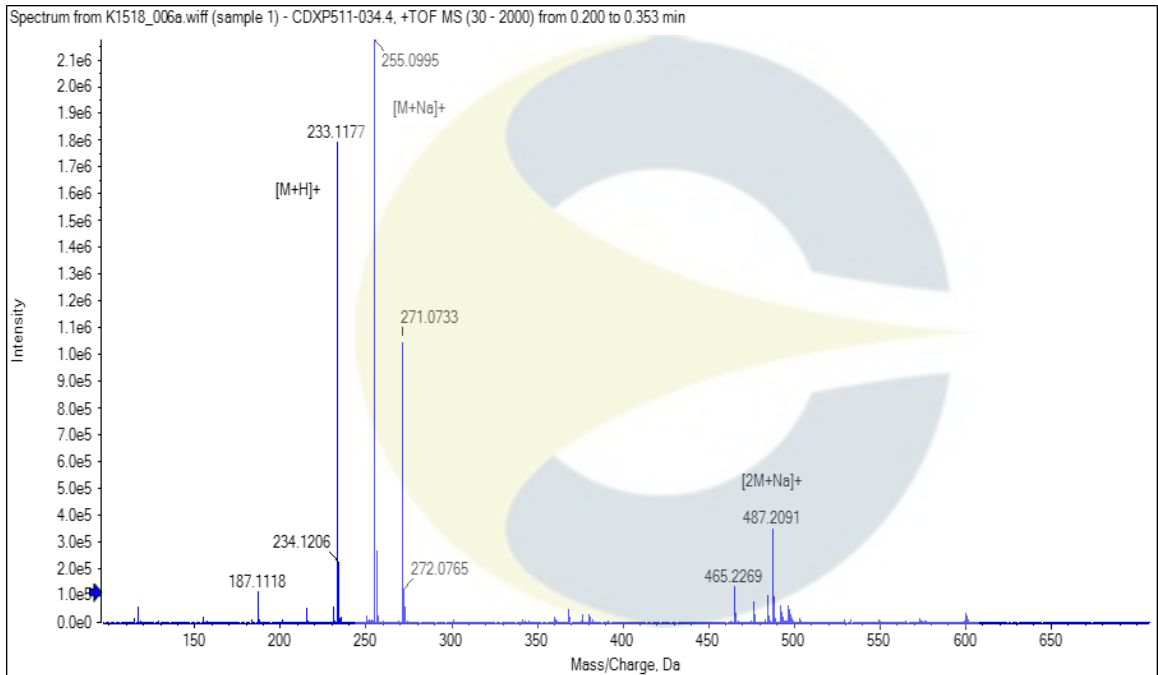
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HPLC CHROMATOGRAM OF DILUENT BLANK



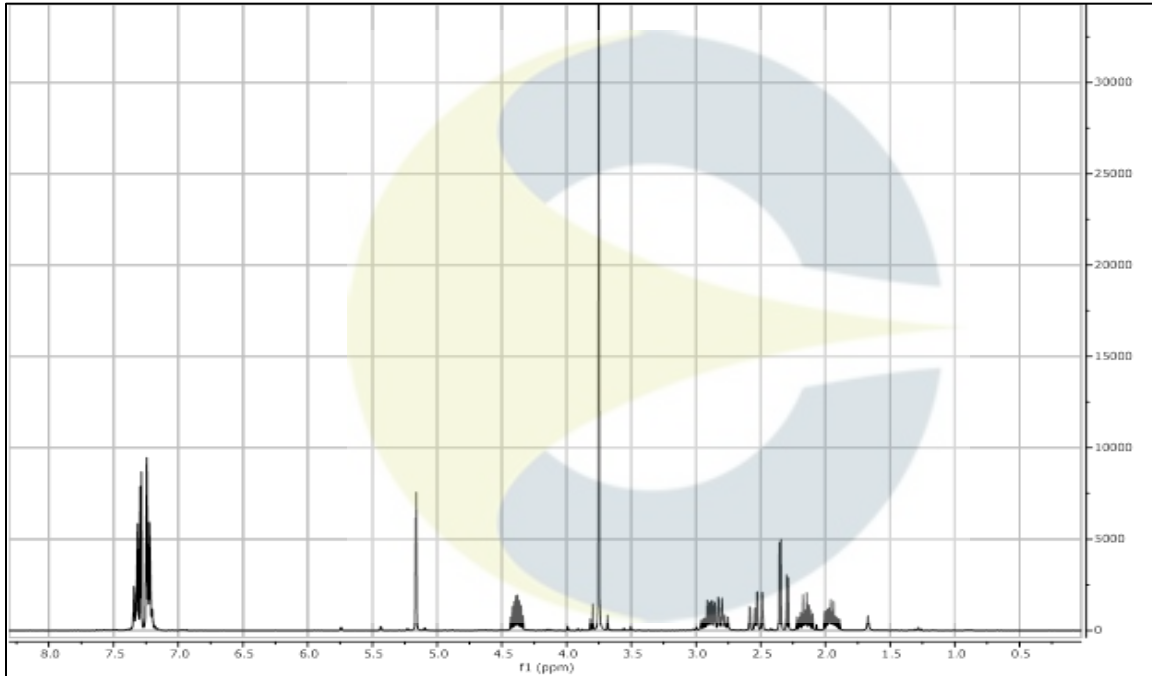
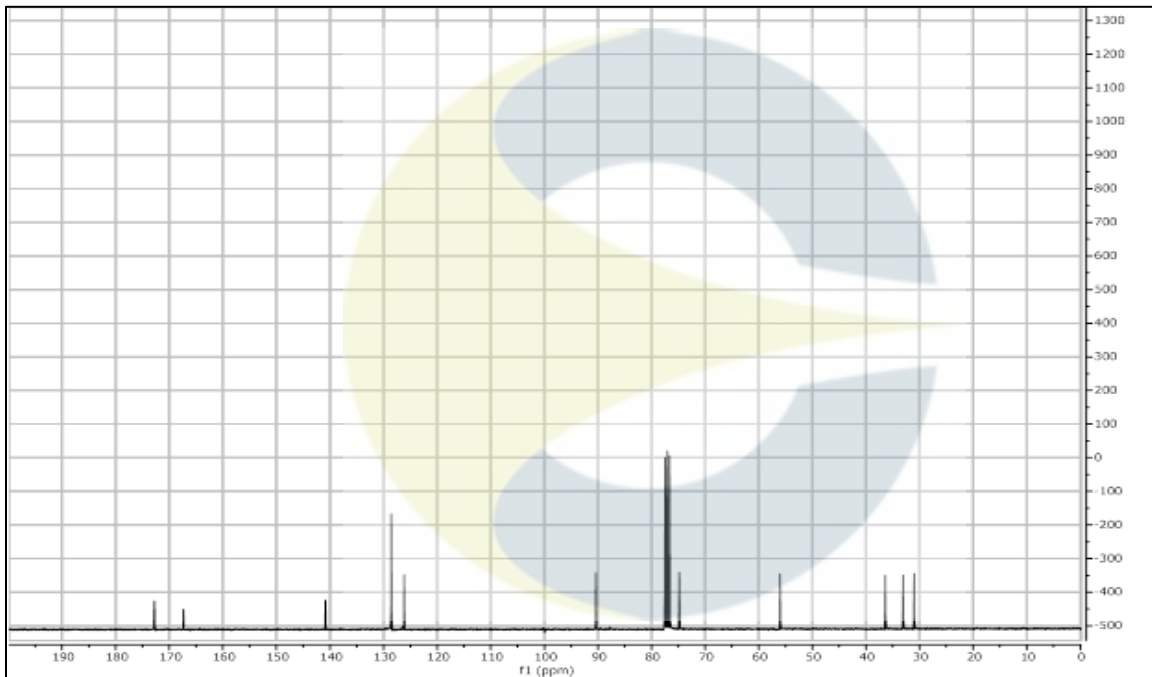
MASS SPECTRUM OF DIHYDROKAVAIN (CDXP-18-01241)



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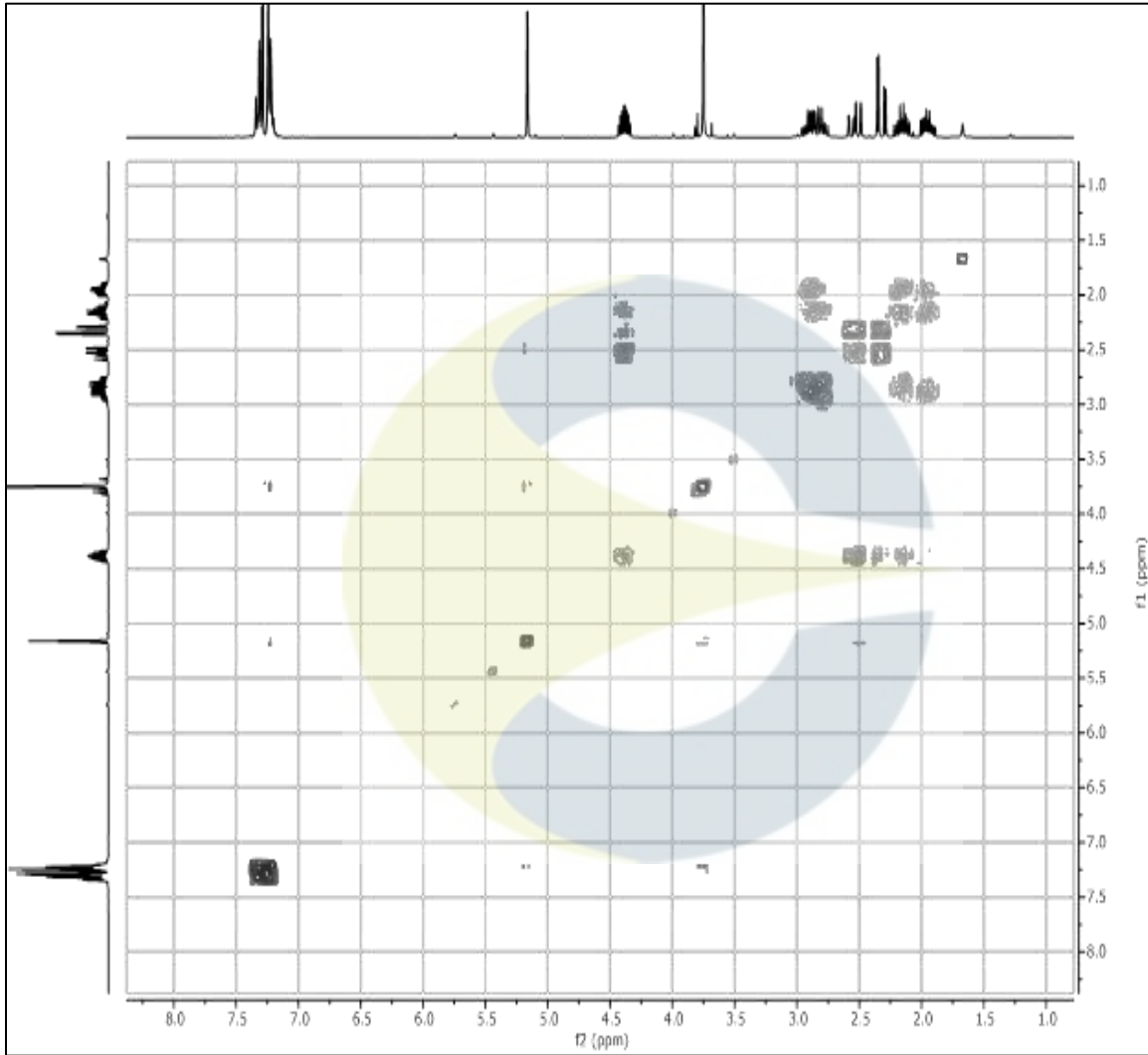
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¹H-NMR SPECTRUM OF DIHYDROKAVAIN (CDXP-18-01241) IN CDCl₃**¹³C-NMR SPECTRUM OF DIHYDROKAVAIN (CDXP-18-01241) IN CDCl₃**

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COSY-NMR SPECTRUM OF DIHYDROKAVAIN (CDXP-18-01241) IN CDCl₃

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	12/12/2018	New report
01	11/04/2022	Material passed reevaluation by HPLC and KF. Updated analytical results, conditions, chromatograms, and expiration date.

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