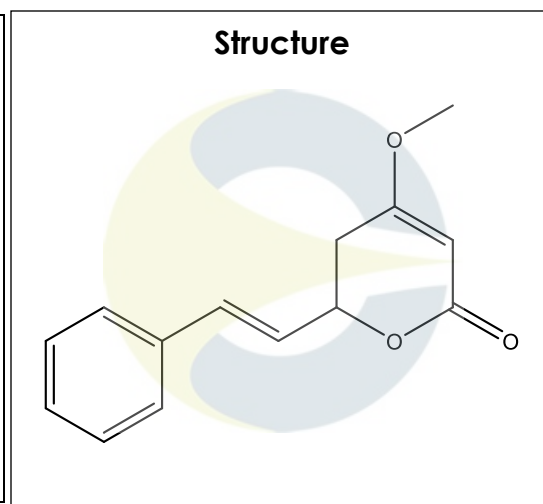


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<b>PRODUCT NAME</b>	DL-Kavain
<b>PART NUMBER</b>	00011300
<b>STANDARD TYPE</b>	Primary (P)
<b>LOT NUMBER</b>	00011300-1973
<b>REPORT NUMBER</b>	CDXA-RSS-5473-02
<b>SAMPLE NUMBER</b>	CDXA-13-1973
<b>DATE OF SAMPLE</b>	03/21/2013
<b>DATE OF RE-EVALUATION</b>	05/16/2017 (1 <sup>st</sup> ); 04/20/2021 (2 <sup>nd</sup> )
<b>DATE OF REPORT</b>	5/10/2021



<b>CHEMICAL NAMES</b>	(E)-(+/-)-5,6-Dihydro-4-methoxy-6-(2-phenylethenyl)-2H-pyran-2-one; DL-Kawain; (+/-)-Kawain
<b>CHEMICAL FORMULA</b>	C <sub>14</sub> H <sub>14</sub> O <sub>3</sub>
<b>MOLECULAR WEIGHT (MW)</b>	230.26
<b>CHEMICAL FAMILY</b>	Kavalactones
<b>CAS NUMBER</b>	[3155-48-4]
<b>EC#(EINECS)</b>	626-921-3
<b>RTECS</b>	N/A

**ANALYTICAL RESULTS**

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	99.9%
HPLC	0.700.10.2.METH22	≥ 90%	99.9%
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-6.0-000115	NA	ND
Water	0.700.12.37	NA	ND
Appearance	NA	NA	White powder

ADJUSTED PURITY: 99.9% IS BASED ON (100 - 0.0 SOLVENTS - 0.0 WATER) X 99.9% HPLC

**STORAGE CONDITIONS**

<b>STORAGE</b>	-20 °C in a dry place.
<b>EXPIRATION DATE</b>	04/2026 under the above conditions.


 Digitally signed by  
 Elizabeth Hughes  
 Date: 2021.05.10  
 16:42:49 -06'00'

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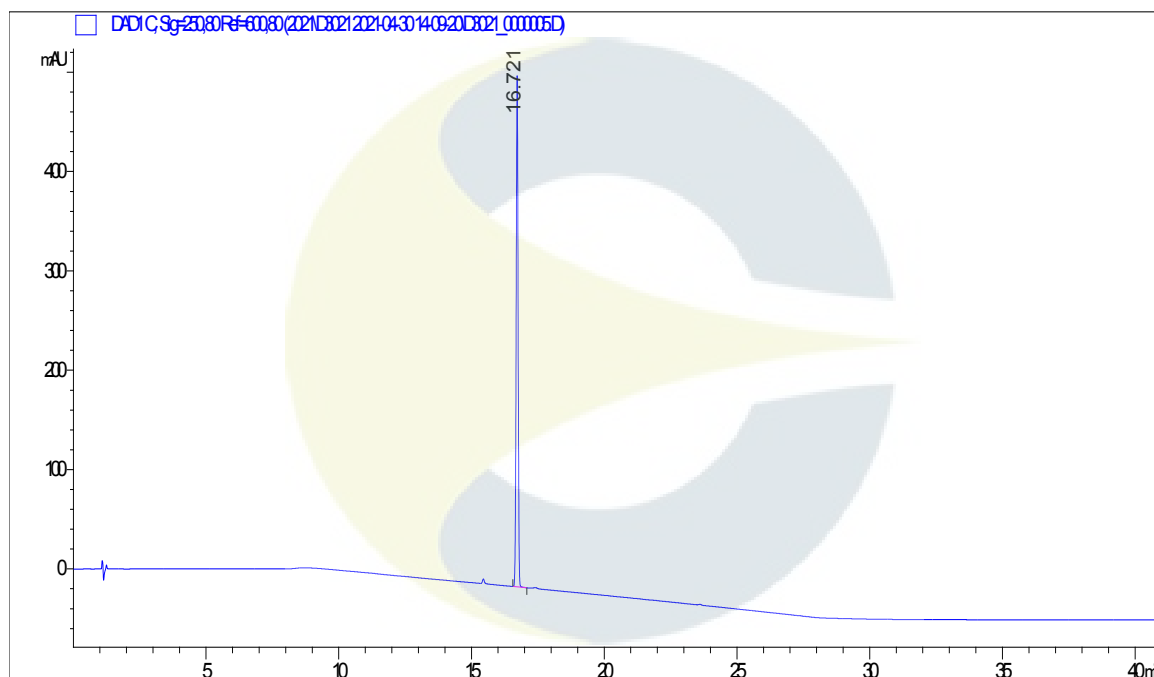
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### ANALYTICAL CONDITIONS

<b>INSTRUMENT</b>	AGILENT 1260 HPLC UV-VIS (DAD); AB-SCIEX 6600 TRIPLE TOF
<b>COLUMN</b>	Phenomenex Luna C18(2) 150 x 2.00 mm, 5 µm particle size
<b>MOBILE PHASE</b>	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.
<b>COLUMN TEMP.</b>	60 °C
<b>FLOW RATE</b>	0.4 mL/minute
<b>INJECTION VOL.</b>	0.2 µL
<b>INJECTION CONC.</b>	1.2 mg/mL in Methanol
<b>DETECTION</b>	250 ± 40 nm

### HPLC CHROMATOGRAM OF DL-KAVAIN (CDXA-13-1973)



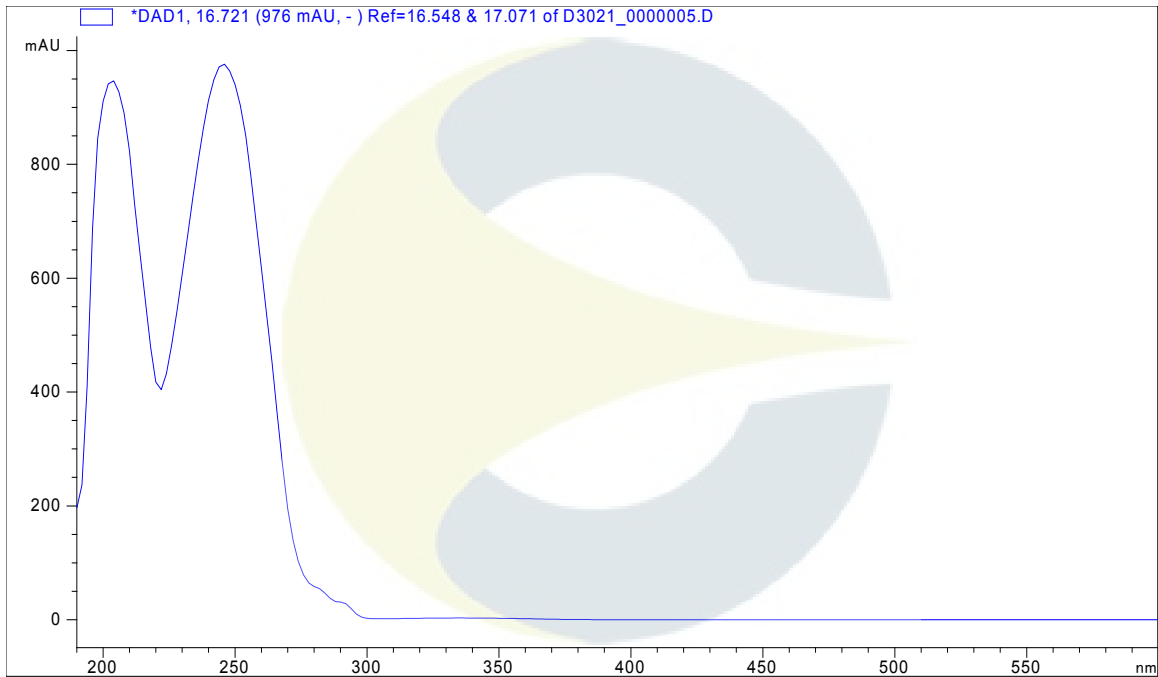
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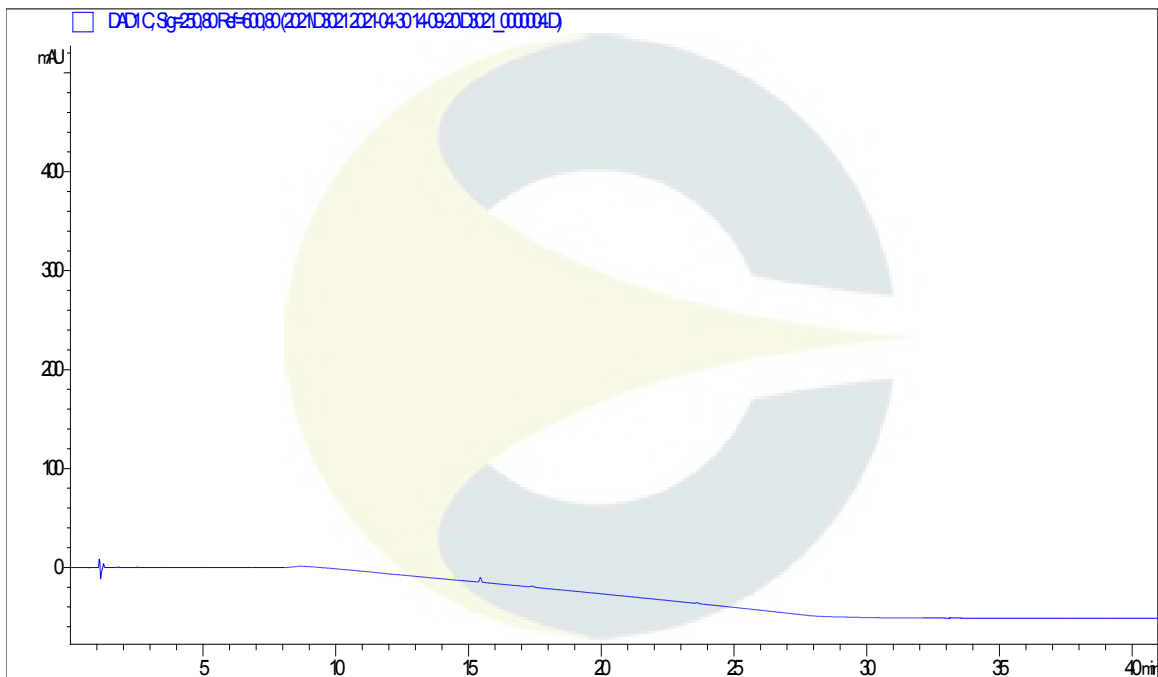
India Contact:  
 Life Technologies (India) Pvt. Ltd.  
 306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444  
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**UV SPECTRUM AT RT 16.7 MINUTES**



**HPLC CHROMATOGRAM OF DILUENT BLANK**

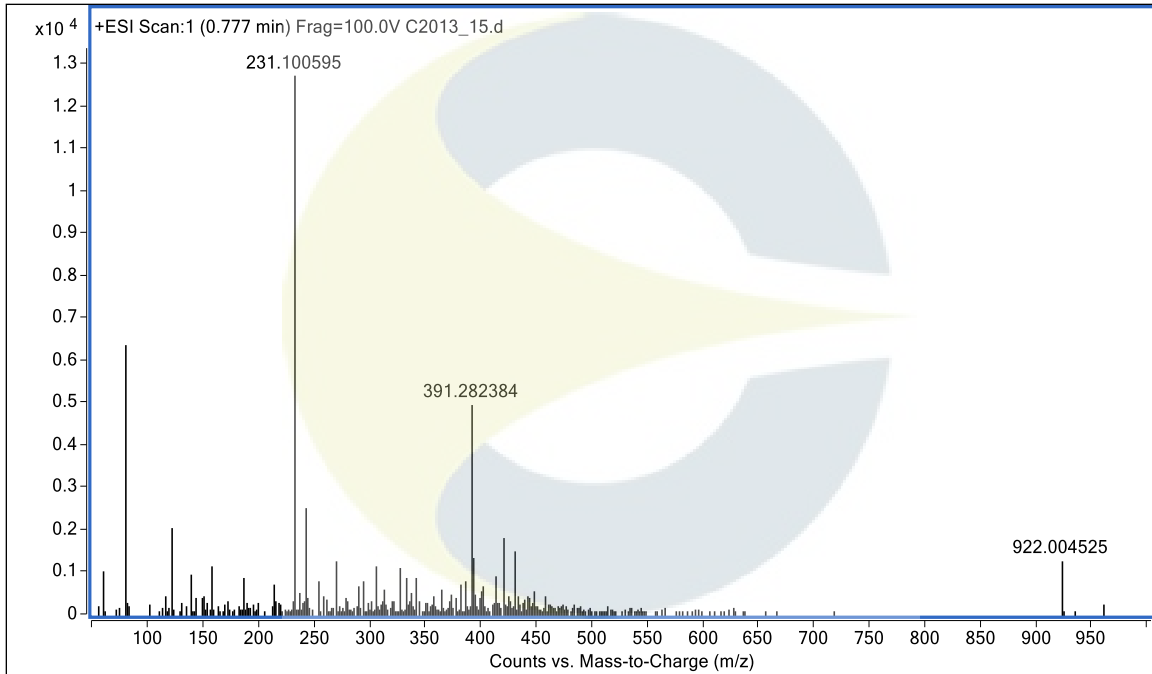


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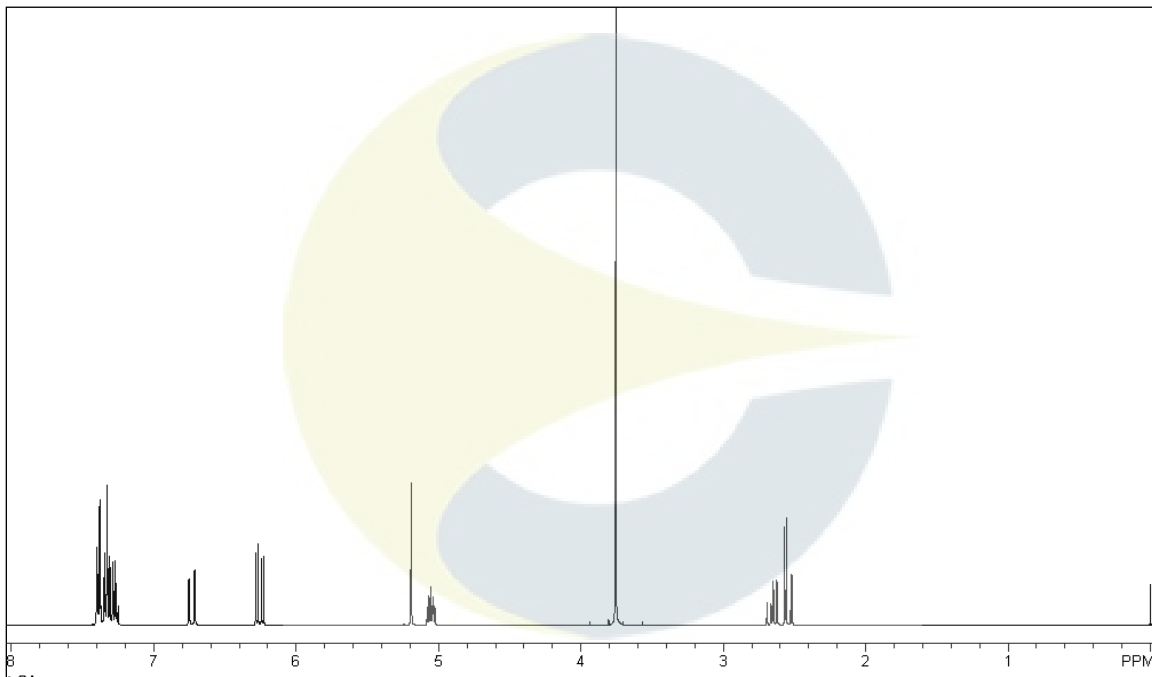
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MASS SPECTRUM OF DL-KAVAIN (CDXA-13-1973)



<sup>1</sup>H-NMR SPECTRUM OF DL-KAVAIN (CDXA-13-1973) IN CDCl<sub>3</sub>



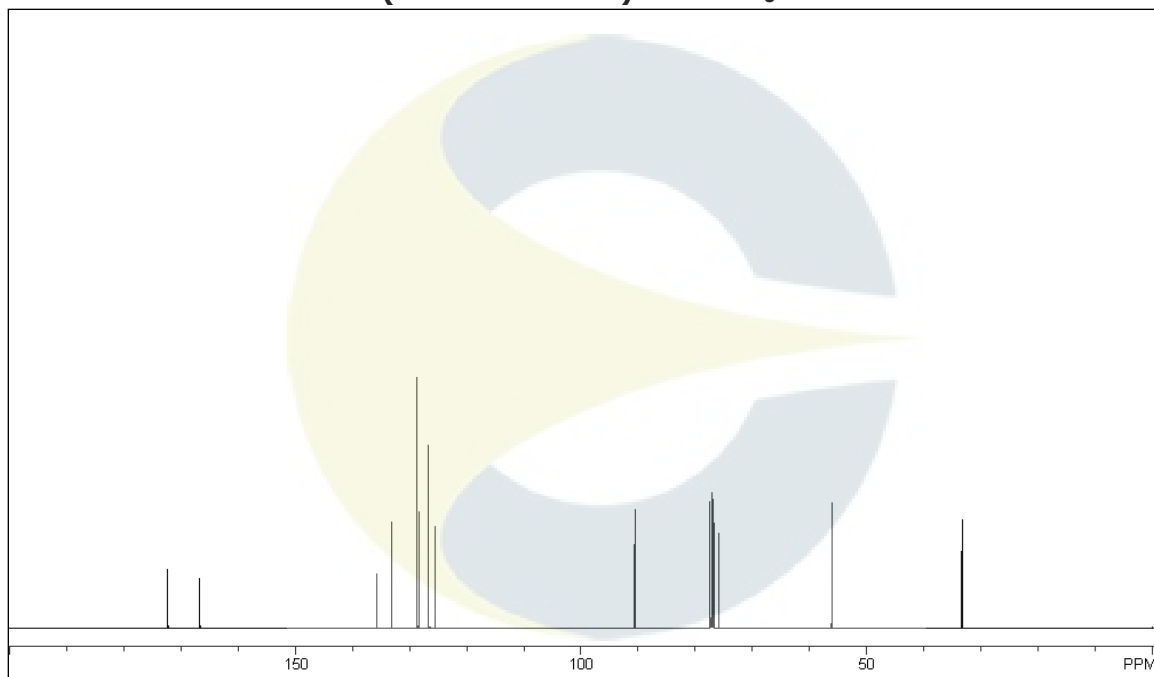
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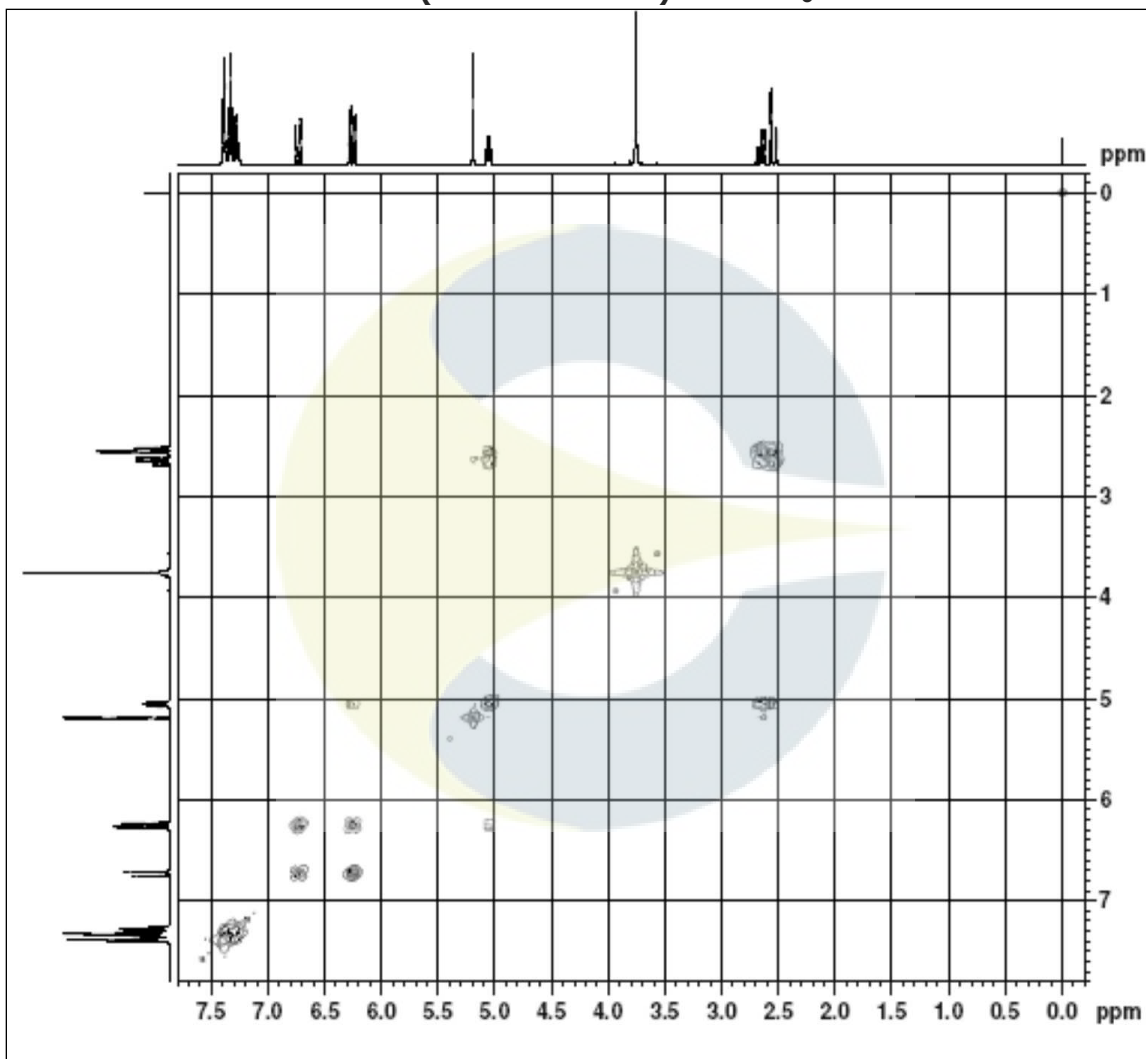
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**<sup>13</sup>C-NMR SPECTRUM OF DL-KAVAIN (CDXA-13-1973) IN CDCl<sub>3</sub>**

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**COSY-NMR SPECTRUM OF DL-KAVAIN (CDXA-13-1973) IN CDCl<sub>3</sub>**

**REVISION HISTORY**

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	03/28/2013	New report
01	06/07/2017	Passed re-evaluation by HPLC, KF. Updated expiration date, chemical names, analytical conditions, analytical chromatograms.
02	05/10/2021	Passed second re-evaluation by HPLC and KF. Removed melting point and added EINECS. Updated expiration date, analytical results, conditions, and chromatograms.

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