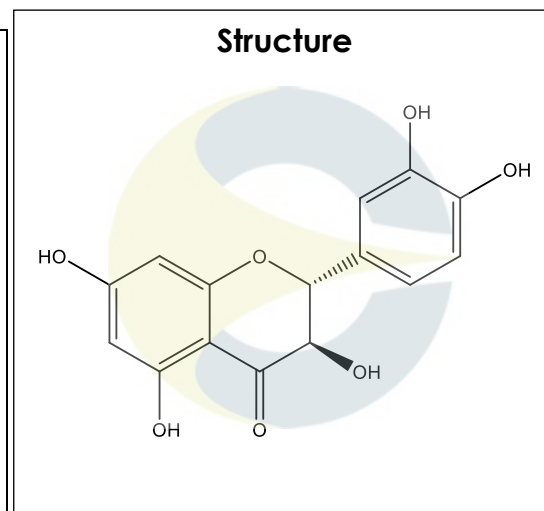


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<b>PRODUCT NAME</b>	(+)-Taxifolin
<b>PART NUMBER</b>	00020065
<b>STANDARD TYPE</b>	Primary (P)
<b>LOT NUMBER</b>	00020065-443
<b>REPORT NUMBER</b>	CDXA-RSS-7582-02
<b>SAMPLE NUMBER</b>	CDXA-17-006875
<b>DATE OF SAMPLE</b>	05/31/2017
<b>DATE OF RE-EVALUATION</b>	04/16/2021
<b>DATE OF REPORT</b>	05/05/2021



<b>CHEMICAL NAMES</b>	(2R,3R)-2-(3,4-Dihydroxyphenyl)-2,3-dihydro-3,5,7-trihydroxy-4H-1-benzopyran-4-one; Dihydroquercetin; 3,3',4',5,7-Pentahydroxy-flavanone; Taxifoliol; Taxifolin
<b>CHEMICAL FORMULA</b>	C <sub>15</sub> H <sub>12</sub> O <sub>7</sub>
<b>MOLECULAR WEIGHT (MW)</b>	304.25
<b>CHEMICAL FAMILY</b>	Flavonoids
<b>CAS NUMBER</b>	[480-18-2]
<b>EC#(EINECS)</b>	207-543-4
<b>RTECS</b>	LK6920000

**ANALYTICAL RESULTS**

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	92.8%
HPLC	0.700.10.2.METH22	≥ 90%	96.7%
NMR	4.5.3-CD-4.0-000338	Conforms to structure	Conforms to structure
Mass Spectrum	99.1-CDXA-2.0-000126	Conforms	Conforms
Residual Solvent	99.1-CD-9.0-000115	NA	EtOH < 0.1%
Water	0.700.12.37	NA	4.0%
Appearance	NA	NA	White powder

ADJUSTED PURITY: 92.8% IS BASED ON (100 - 0.0 SOLVENTS - 4.0 WATER) X 96.7% HPLC

**STORAGE CONDITIONS**

<b>STORAGE</b>	+4 °C in a dry place.
<b>EXPIRATION DATE</b>	04/2026 under the above conditions.


 Digitally signed by  
 Elizabeth Hughes  
 Date: 2021.05.05  
 15:28:10 -06'00'

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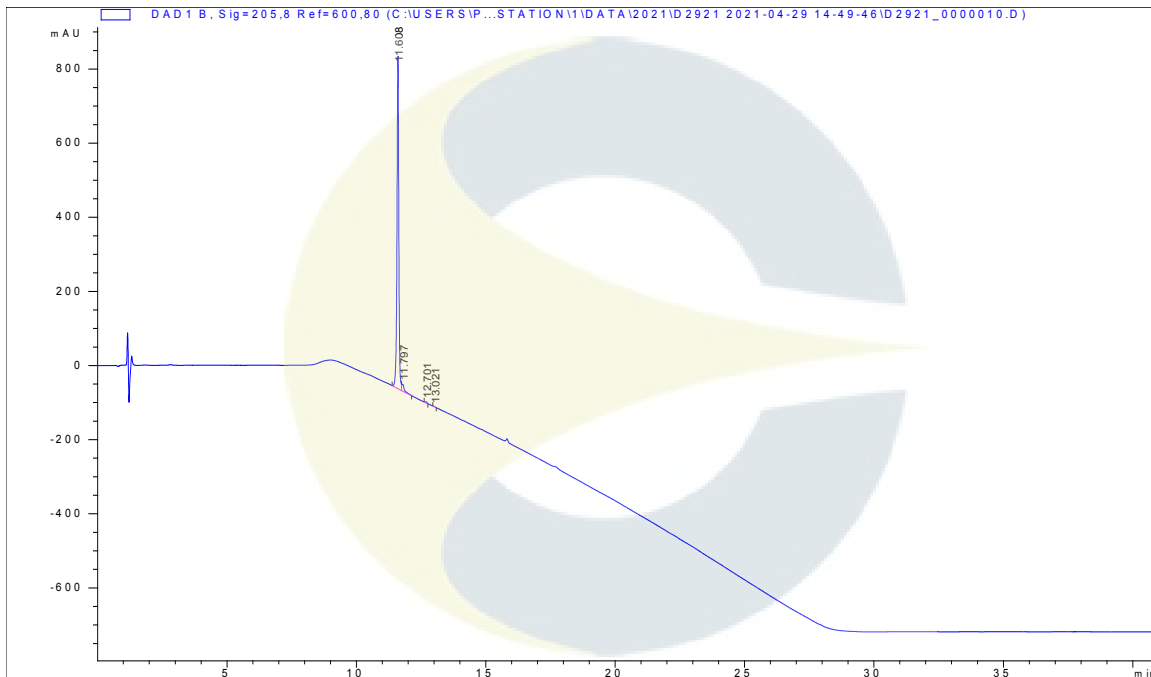
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## ANALYTICAL CONDITIONS

<b>INSTRUMENT</b>	AGILENT 1260 HPLC UV-VIS (DAD) DETECTOR, AGILENT 6510 QTOF
<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>	1.0 mg/mL in Methanol
<b>DETECTION</b>	205 ± 4 nm

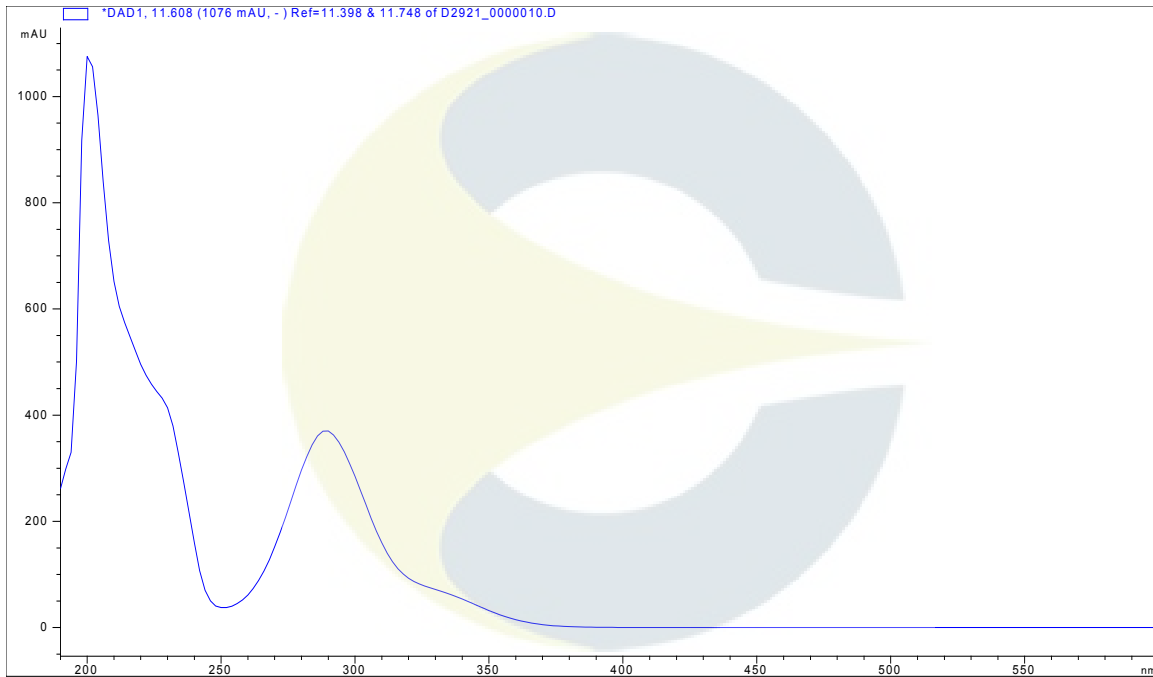
## HPLC CHROMATOGRAM OF (+)-TAXIFOLIN (CDXA-17-006875)



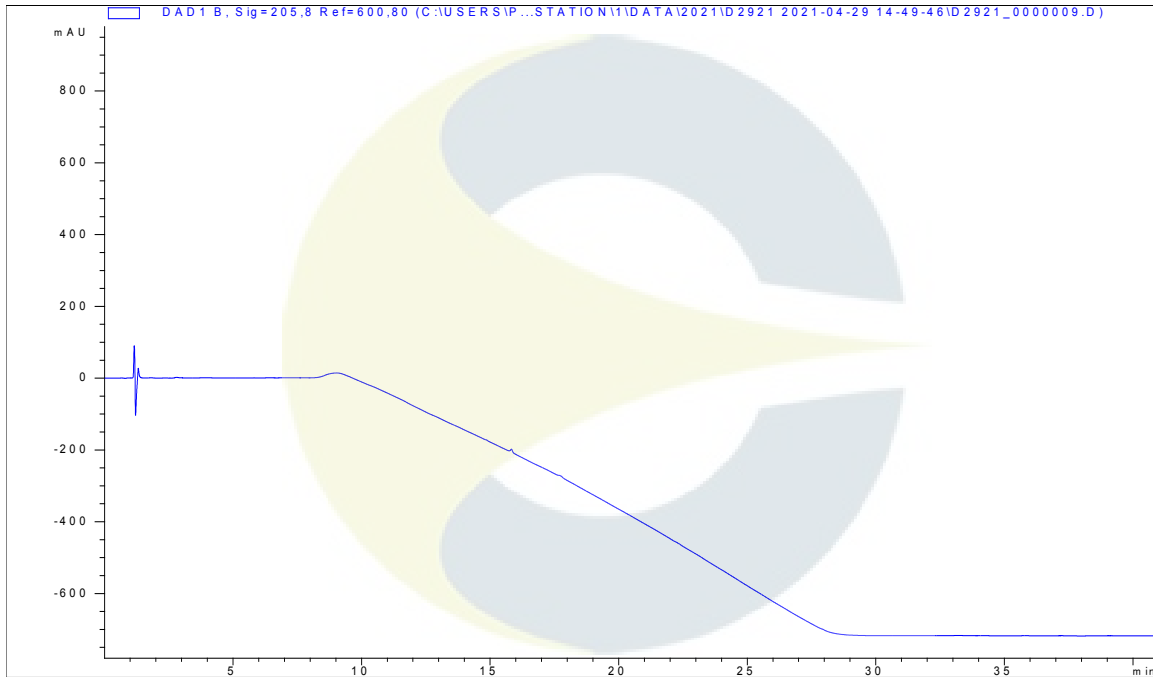
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### UV SPECTRUM AT 11.6 MINUTES



### HPLC CHROMATOGRAM OF DILUENT BLANK

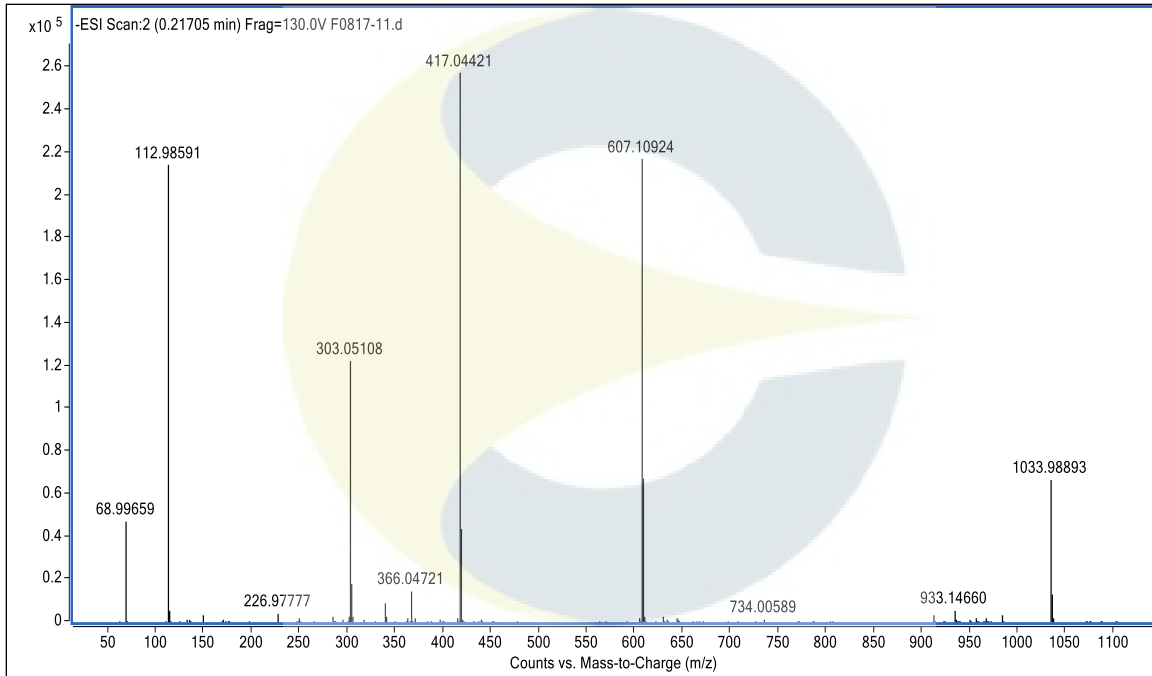


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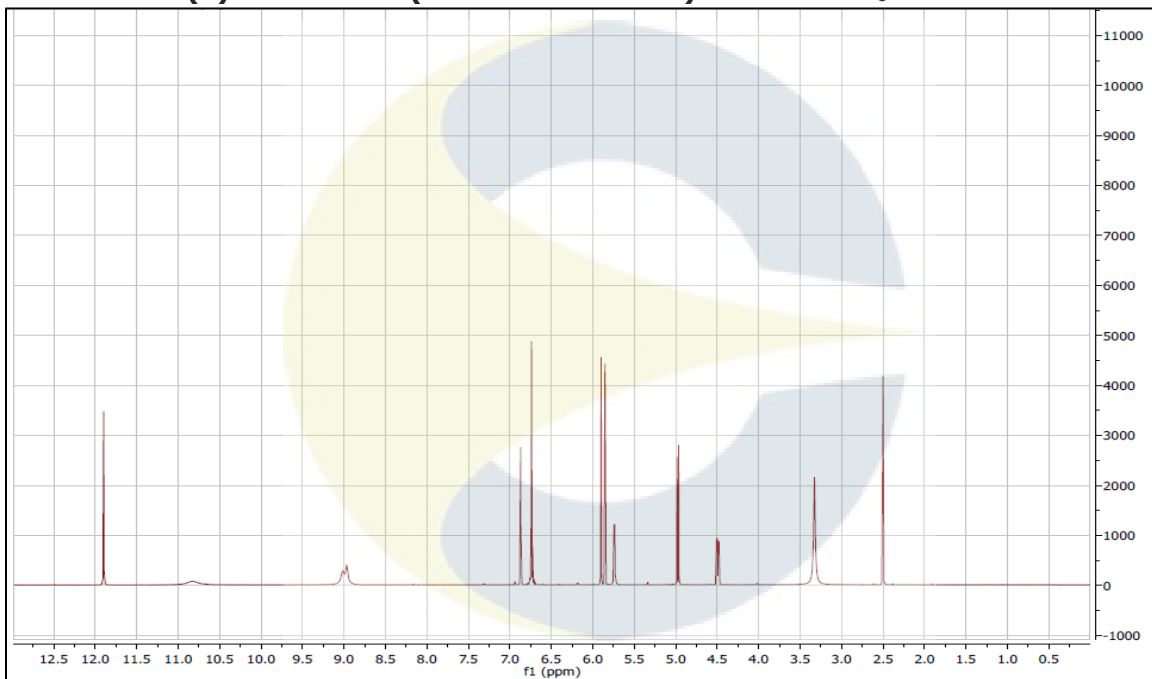
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 Email: [customerservice@lifetechindia.com](mailto:customerservice@lifetechindia.com) Website: [www.lifetechindia.com](http://www.lifetechindia.com)

**MASS SPECTRUM OF (+)-TAXIFOLIN (CDXA-17-006875)**



**<sup>1</sup>H-NMR SPECTRUM OF (+)-TAXIFOLIN (CDXA-17-006875) IN DMSO-d<sub>6</sub>**



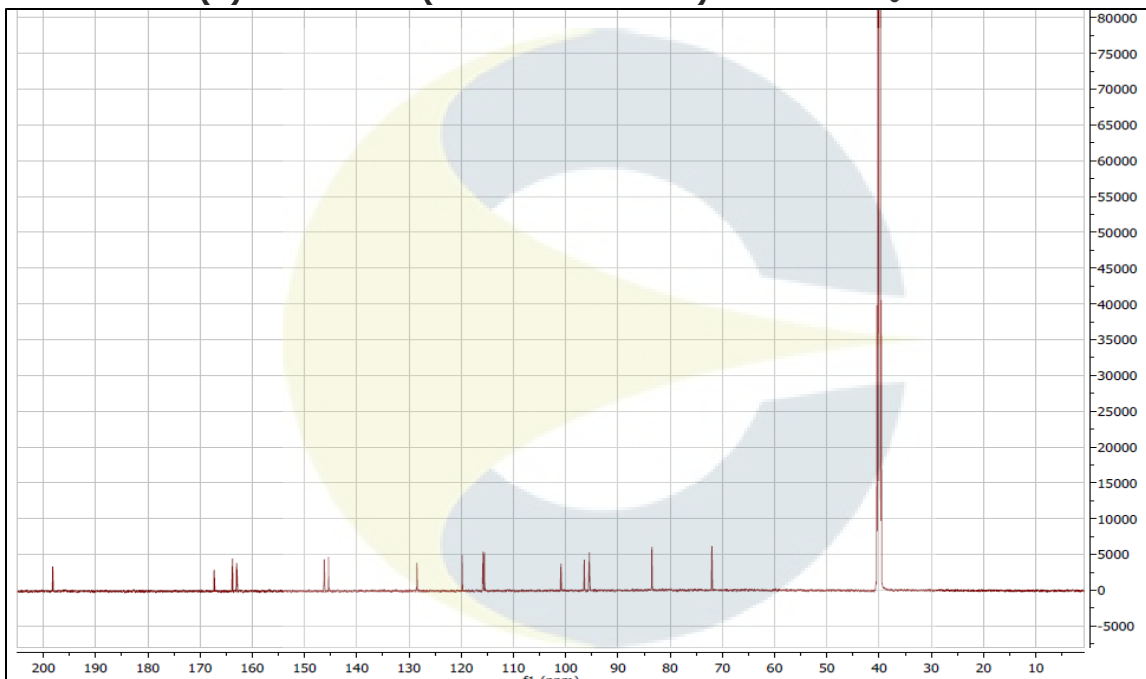
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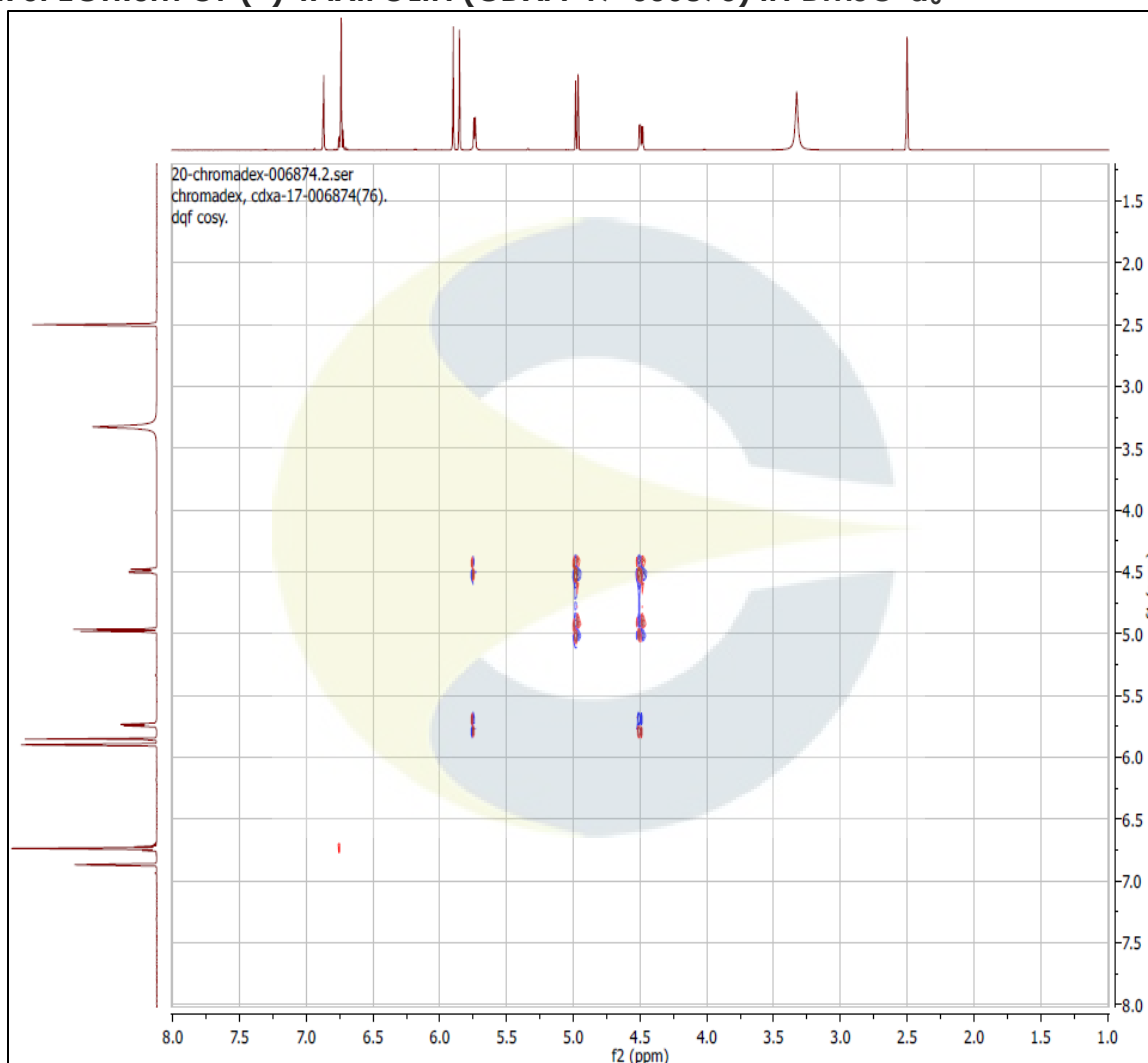
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**<sup>13</sup>C-NMR SPECTRUM OF (+)-TAXIFOLIN (CDXA-17-006875) IN DMSO-d<sub>6</sub>**

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**COSY-NMR SPECTRUM OF (+)-TAXIFOLIN (CDXA-17-006875) IN DMSO-*d*<sub>6</sub>**

**REVISION HISTORY**

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	08/01/2017	New report
01	08/14/2017	Corrected Product name; updated other chemical names
02	05/05/2021	Material passed reevaluation by HPLC and KF. Updated analytical conditions, analytical results, chromatograms, and expiration date.

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