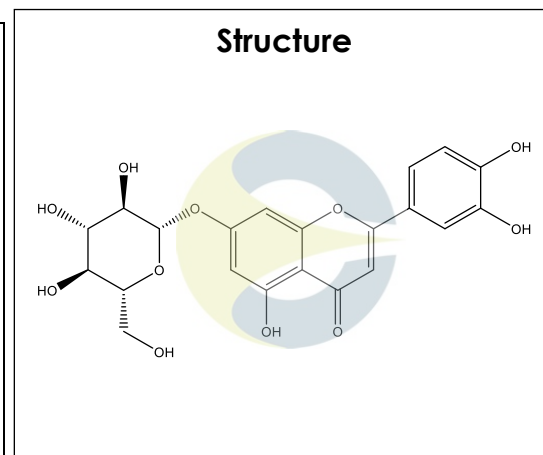


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<b>PRODUCT NAME</b>	Luteolin-7-O-glucoside
<b>PART NUMBER</b>	00012500
<b>STANDARD TYPE</b>	Primary (P)
<b>LOT NUMBER</b>	00012500-519
<b>REPORT NUMBER</b>	CDXA-RSS-8535-00
<b>SAMPLE NUMBER</b>	CDXP-19-00157
<b>DATE OF SAMPLE</b>	02/25/2019
<b>DATE OF REPORT</b>	03/18/2019



<b>CHEMICAL NAMES</b>	4H-1-Benzopyran-4-one, 2-(3,4-dihydroxyphenyl)-7-(β-D-glucopyranosyloxy)-5-hydroxy-; Cinaroside; Glucoluteolin; Luteoloside; Nephrocizine
<b>CHEMICAL FORMULA</b>	C <sub>21</sub> H <sub>20</sub> O <sub>11</sub>
<b>MOLECULAR WEIGHT (MW)</b>	448.38
<b>CHEMICAL FAMILY</b>	Flavones
<b>CAS NUMBER</b>	[5373-11-5]
<b>EC#(EINECS)</b>	226-365-8
<b>RTECS</b>	DJ3009400

**ANALYTICAL RESULTS**

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	NA	97.7%
HPLC	99.1-04-1.0-000684	NA	98.4%
NMR	30.1-04-1.0-000733	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	MeOH < 0.1%
Water	99.1-04-10.0-000094	NA	0.7%
Appearance	NA	NA	Tan powder

ADJUSTED PURITY: 97.7% IS BASED ON (100 - 0.0 SOLVENTS - 0.7 WATER) X 98.4% HPLC

**STORAGE CONDITIONS**

<b>STORAGE</b>	+4 °C in a dry place.
<b>EXPIRATION DATE</b>	02/2024 under the above conditions.

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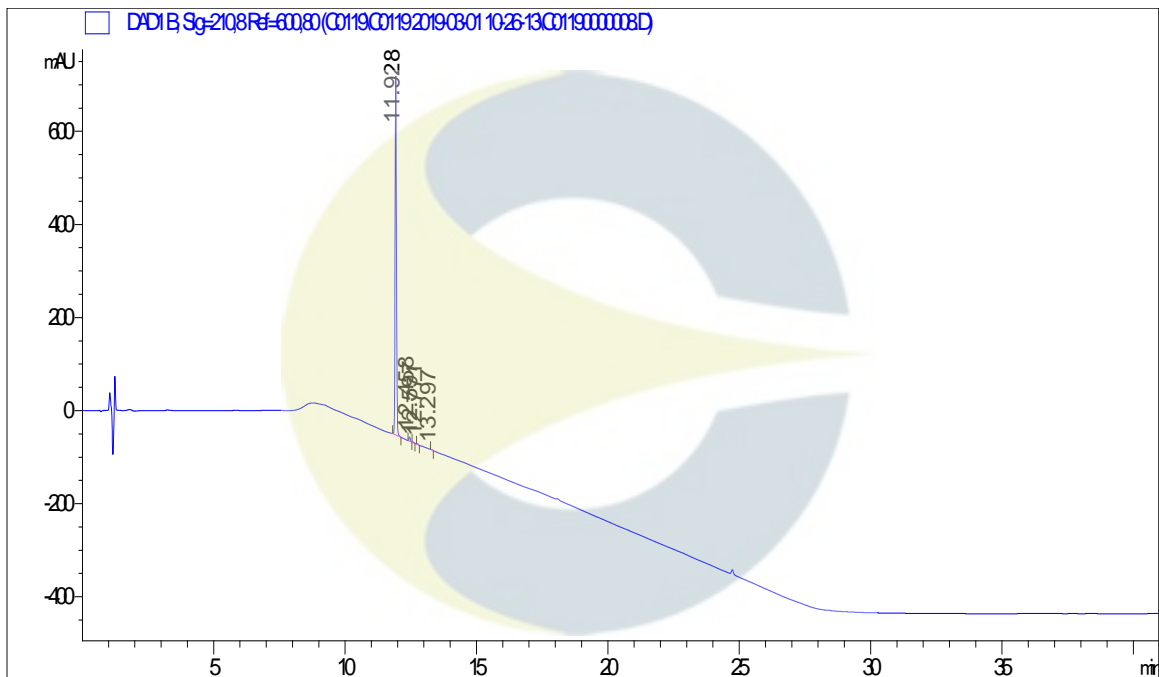
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## ANALYTICAL CONDITIONS

<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>	210 ± 4 nm

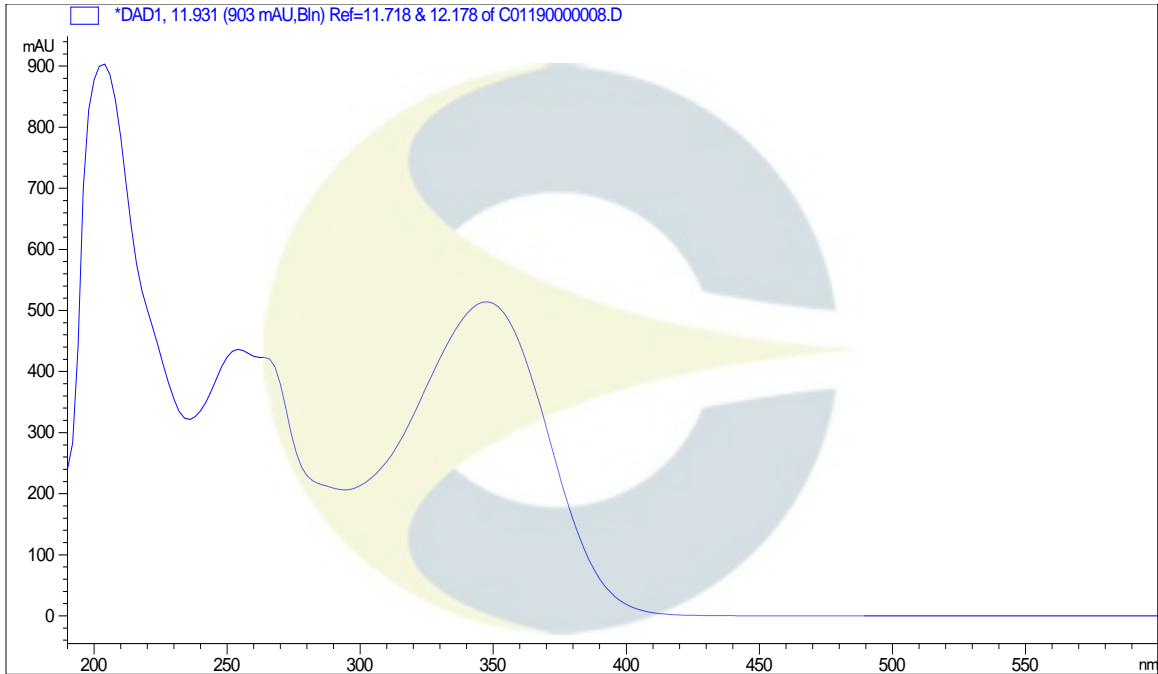
## HPLC CHROMATOGRAM OF LUTEOLIN-7-O-GLUCOSIDE (CDXP-19-00157)



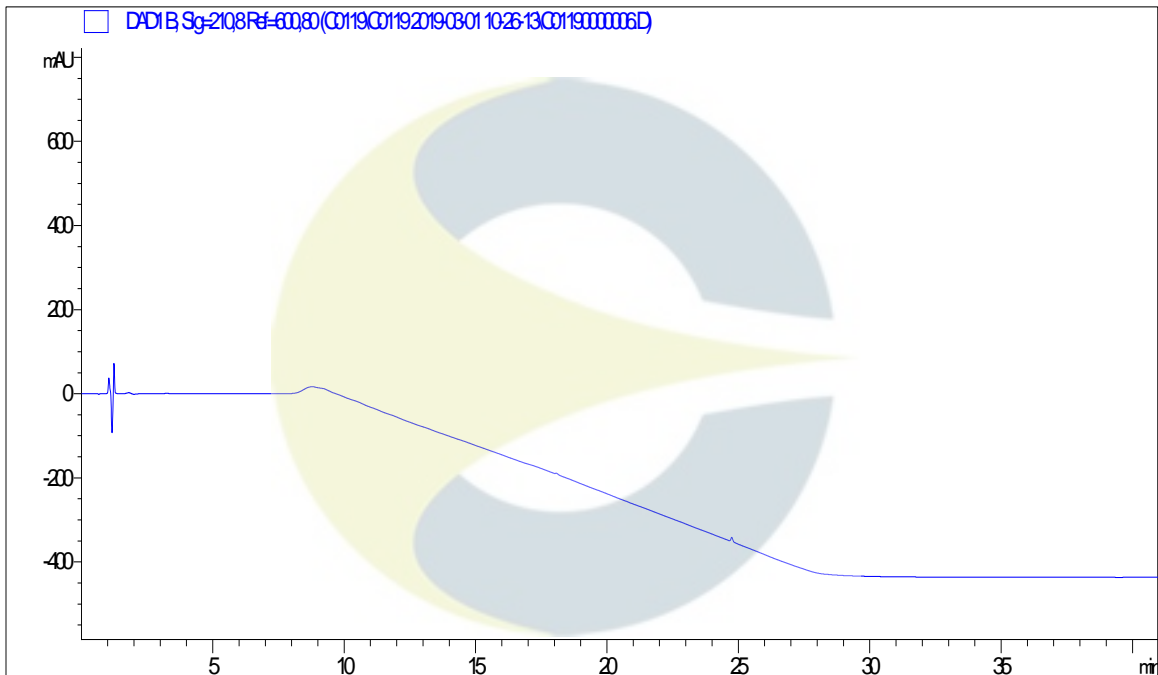
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**UV SPECTRUM AT RT 11.9 MINUTES**

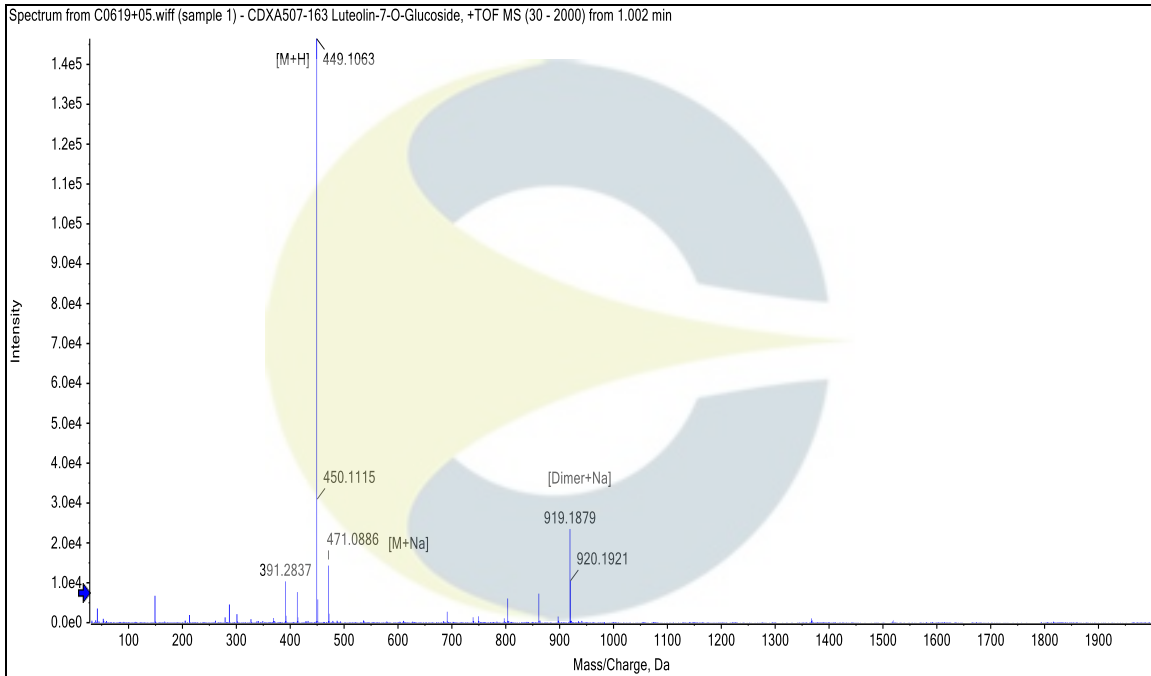


**HPLC CHROMATOGRAM OF DILUENT BLANK**

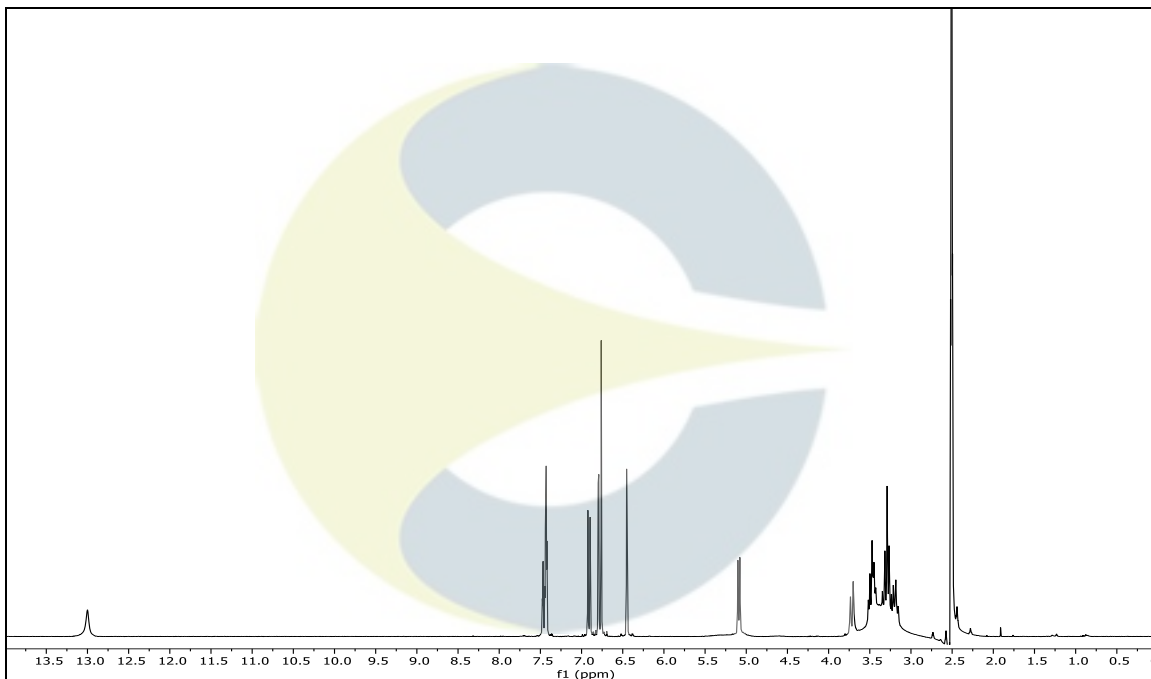


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**MASS SPECTRUM OF LUTEOLIN-7-O-GLUCOSIDE (CDXP-19-00157)**

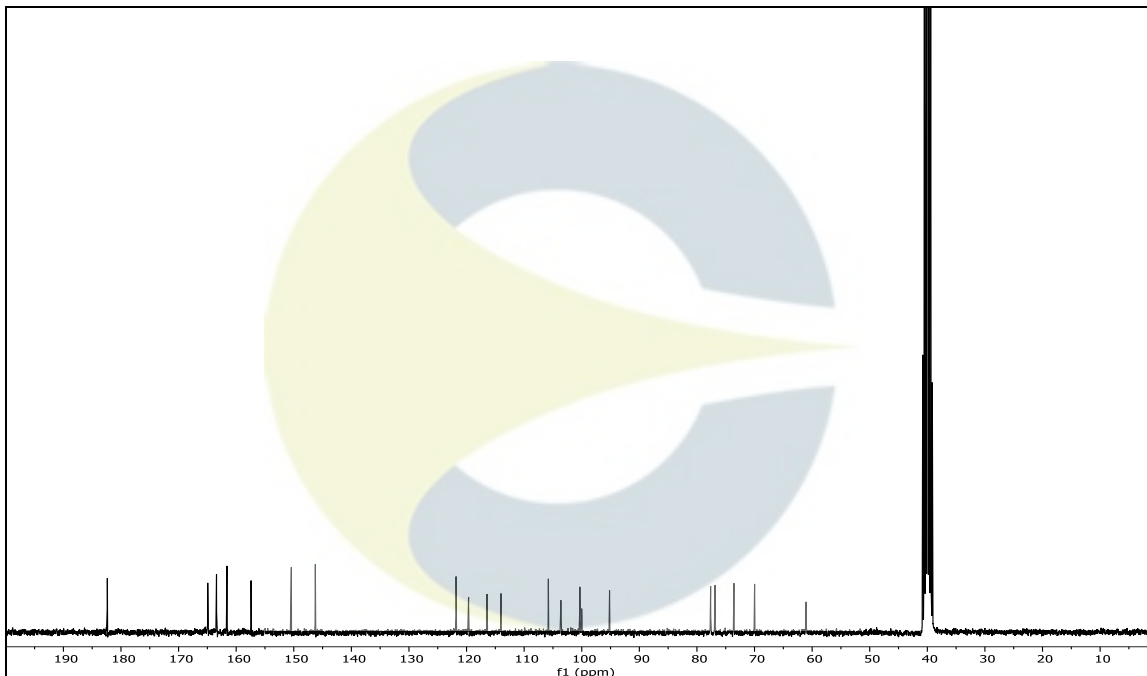


**<sup>1</sup>H-NMR SPECTRUM OF LUTEOLIN-7-O-GLUCOSIDE (CDXP-19-00157) IN DMSO d<sub>6</sub>**

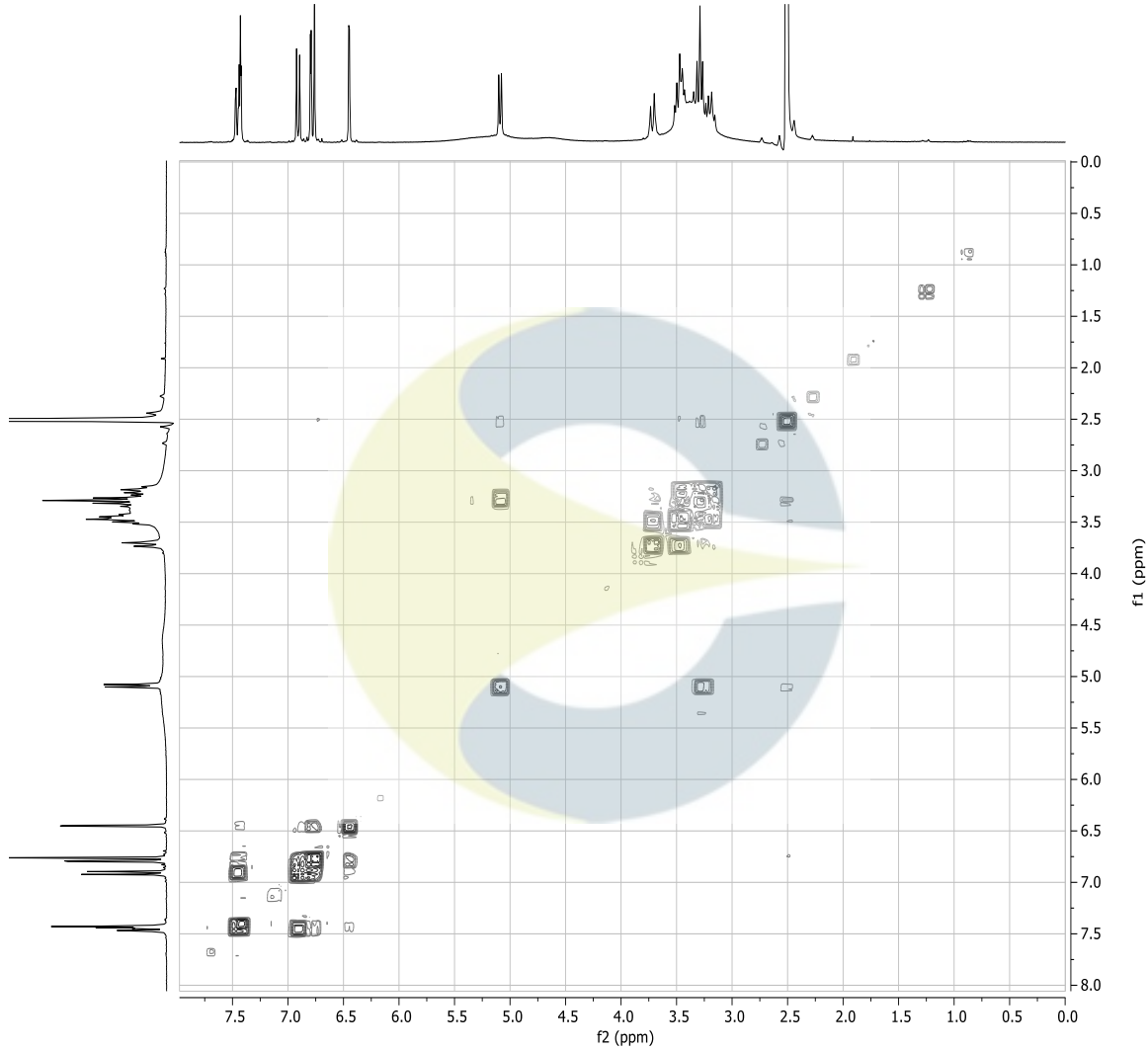


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**<sup>13</sup>C-NMR SPECTRUM LUTEOLIN-7-O-GLUCOSIDE (CDXP-19-00157) IN DMSO *d*<sub>6</sub>**



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**COSY-NMR SPECTRUM OF LUTEOLIN-7-O-GLUCOSIDE (CDXP-19-00157) IN DMSO  $d_6$** 

**REVISION HISTORY**

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	03/18/2019	New report

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