



## **SPECIMEN**

## Certificate of Analysis

For Laboratory Use Only

PRODUCT NAME	Orientin	Structure
PART NUMBER	00015380	НО ИНИИ ОН ОН ОН
STANDARD TYPE	Primary (P)	
LOT NUMBER	00015380-244	
REPORT NUMBER	CDXA-RSS-9827-00	HO
SAMPLE NUMBER	CDXP-22-00331	
DATE OF SAMPLE	04/11/2022	
DATE OF REPORT	06/28/2022	ОНО
CHEMICAL NAMES	2-(3,4-Dihydroxyphenyl)-8-β-D-glucopy	ranosyl-5,7-dihydroxy-4H-1-benzopyran-4-
	one; 8-β-D-Glucopyranosyl-3',4',5,7-tetr	ahydroxyflavone; Luteolin-8-glucoside
CHEMICAL FORMULA		ahydroxyflavone; Luteolin-8-glucoside
CHEMICAL FORMULA MOLECULAR WEIGHT (MW)	one; 8-β-D-Glucopyranosyl-3',4',5,7-tetr	ahydroxyflavone; Luteolin-8-glucoside
	one; 8-β-D-Glucopyranosyl-3',4',5,7-tetr C <sub>21</sub> H <sub>20</sub> O <sub>11</sub>	ahydroxyflavone; Luteolin-8-glucoside
MOLECULAR WEIGHT (MW)	one; 8-β-D-Glucopyranosyl-3',4',5,7-tetr C <sub>21</sub> H <sub>20</sub> O <sub>11</sub> 448.38	ahydroxyflavone; Luteolin-8-glucoside
MOLECULAR WEIGHT (MW) CHEMICAL FAMILY	one; 8-β-D-Glucopyranosyl-3',4',5,7-tetr C <sub>21</sub> H <sub>20</sub> O <sub>11</sub> 448.38 Flavones	ahydroxyflavone; Luteolin-8-glucoside
MOLECULAR WEIGHT (MW) CHEMICAL FAMILY CAS NUMBER	one; 8-β-D-Glucopyranosyl-3',4',5,7-tetr C <sub>21</sub> H <sub>20</sub> O <sub>11</sub> 448.38 Flavones [28608-75-5]	ahydroxyflavone; Luteolin-8-glucoside

#### ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	99.0%
HPLC	0.700.10.2.METH22	≥ 90%	99.0%
NMR	0.700.12.4	Conforms to structure	Conforms to structure
Mass Spectrum	0.700.12.27	Conforms	Conforms
Residual Solvent*	USP <467>	NA	ND
Water	0.700.12.37	NA	ND
Appearance	NA	NA	Yellow powder

\*Testing performed at an ISO 17025 accredited subcontracted laboratory. ADJUSTED PURITY: 99.0% IS BASED ON (100 - 0.0 SOLVENTS - 0.0 WATER) X 99.0% HPLC

#### **STORAGE CONDITIONS**

**STORAGE** 4+ °C in a dry place.

**EXPIRATION DATE** 04/2027 under the above conditions.

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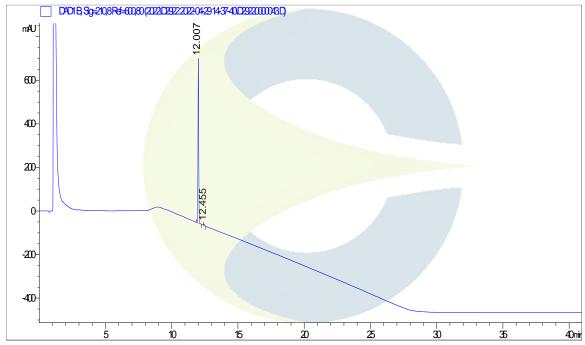
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INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD); AB–SCIEX 6600 TRIPLE TOF	
COLUMN	Phenomenex Luna C18(2) 150 x 2.00 mm, 5 $\mu$ m particle size	
MOBILE PHASE	A - 0.1% Trifluoroacetic acid in Ultrapure water, B - Acetonitrile;	
	lsocratic 5% B for 5 minutes, 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.	0°C	
FLOW RATE	0.4 mL/minute	
INJECTION VOL.	0.2 μL	
INJECTION CONC.	1.0 mg/mL in Dimethyl Sulfoxide	
DETECTION	210 ± 4 nm	

#### HPLC CHROMATOGRAM OF ORIENTIN (CDXP-22-00331)



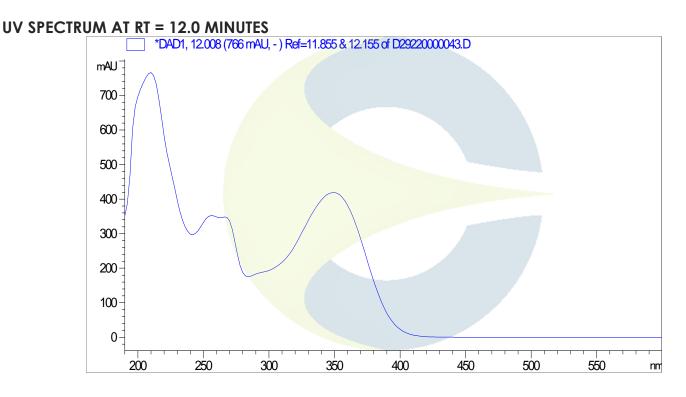




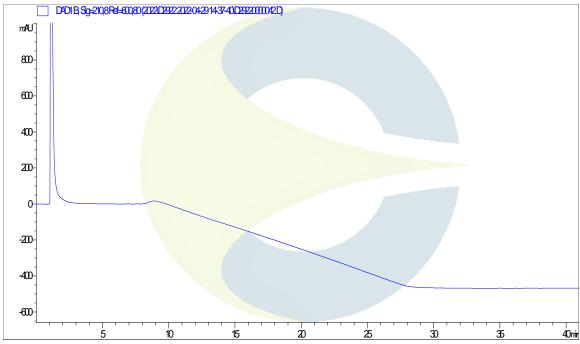
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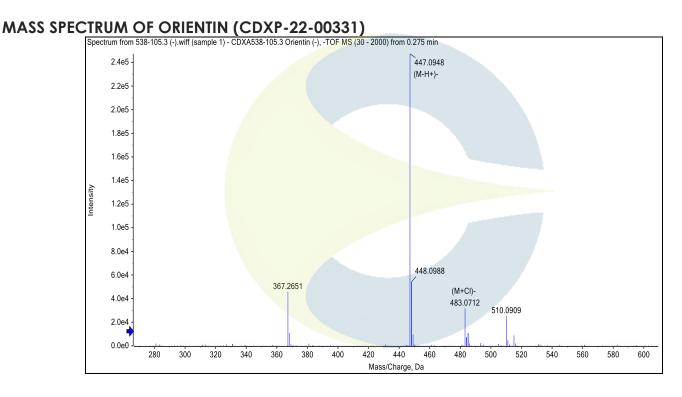




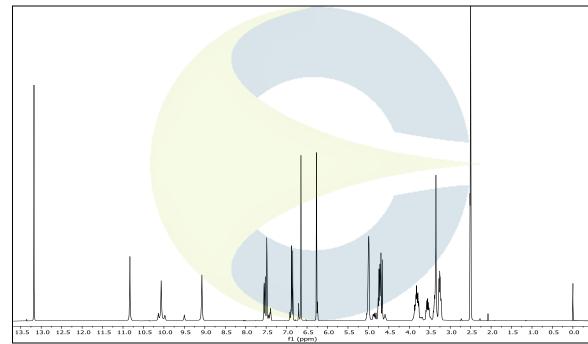
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#### <sup>1</sup>H-NMR SPECTRUM OF ORIENTIN (CDXP-22-00331) IN DMSO-d<sub>6</sub> + TMS







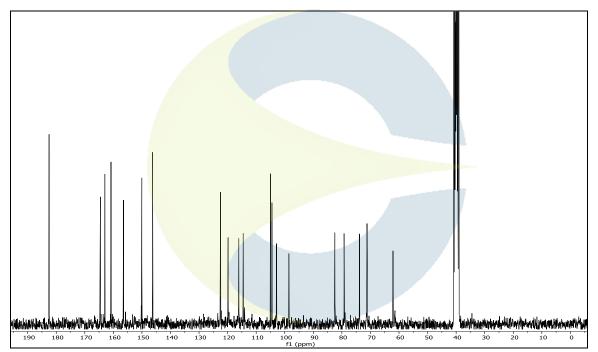




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# <sup>13</sup>C-NMR SPECTRUM ORIENTIN (CDXP-22-00331) IN DMSO-d<sub>6</sub> + TMS





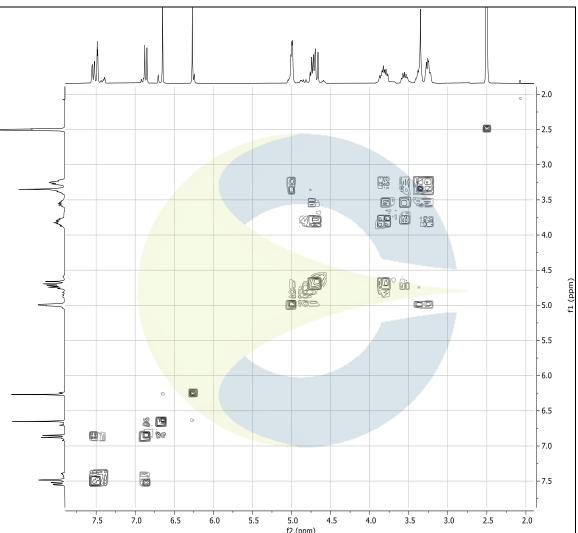


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## COSY-NMR SPECTRUM OF ORIENTIN (CDXP-22-00331) IN DMSO-d6 + TMS



#### **REVISION HISTORY**

<u>Revision History</u>	Date of Revision	Document/Changes
00	06/28/2022	New report