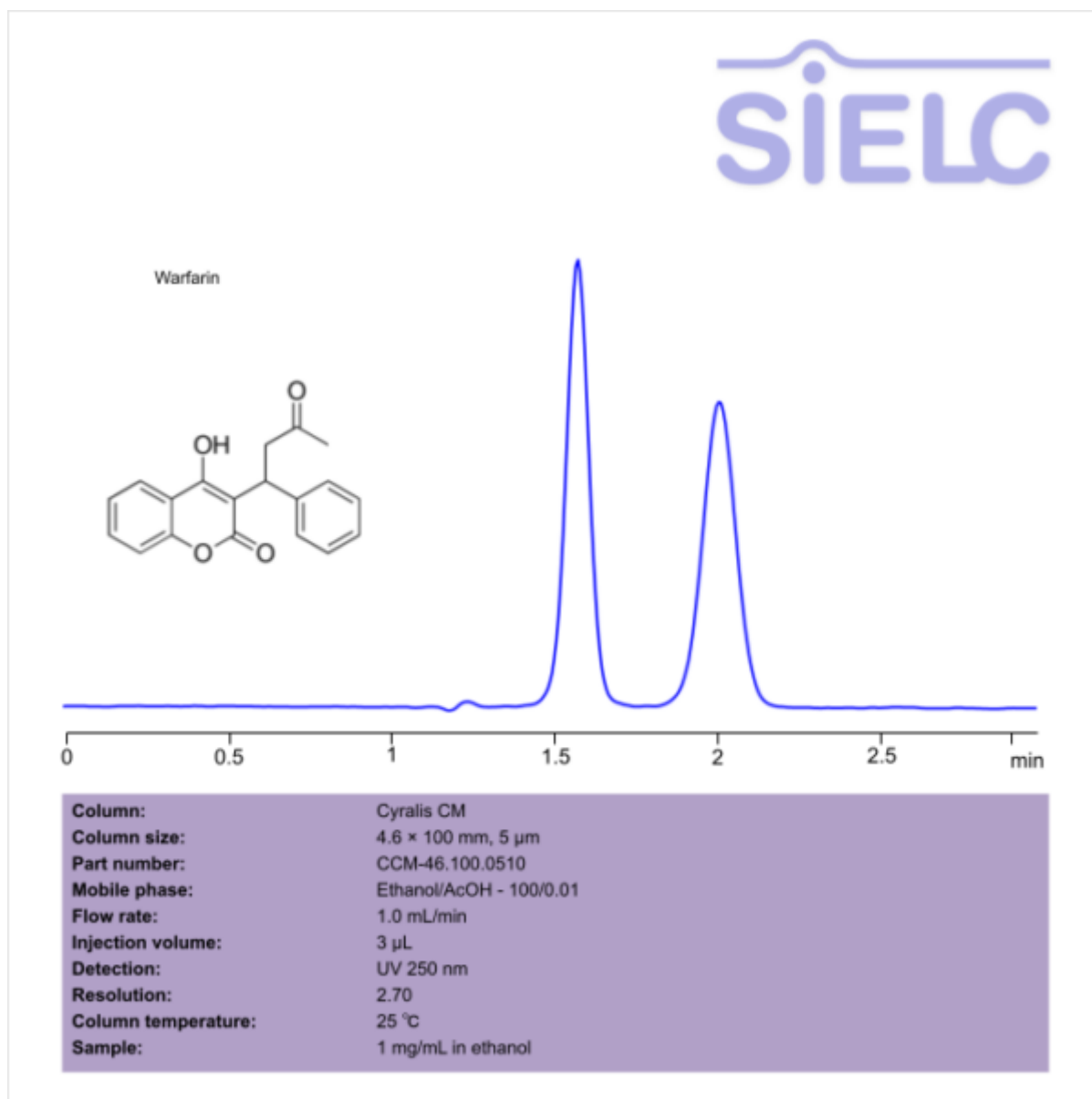


HPLC Chiral Separation of Warfarin Enantiomers on Cyralis CM Column

<https://sielc.com/hplc-method-for-analysis-of-warfarin-2>

Chromatogram



Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Warfarin .

Warfarin is an anticoagulant, also known as blood thinners, medication with the chemical formula $C_{10}H_{14}O_4$. It is used to prevent deep vein thrombosis and stroke through inhibiting the vitamin K-dependent synthesis of clotting factors II, VII, IX, and X. You can find detailed UV spectra of Warfarin and information about its various lambda maxima by visiting the following link.

This application describes a normal-phase chiral HPLC method for the separation of Warfarin enantiomers using SIELC's Cyralis CM chiral column. Cyralis CM is a cellulose-based chiral stationary phase (CSP) designed for enantiomeric separations, optical purity testing, chiral impurity analysis, and stereoisomer characterization in pharmaceutical, chemical, agrochemical, and fine chemical applications. When preparing a sample for analysis, it is crucial for the sample to be made within the same day.

Warfarin can be retained and analyzed using the Cyralis CM stationary phase column. The analysis utilizes an isocratic method with a mobile phase consisting of Ethanol and AcOH. Detection is performed using UV.

Method Parameters

Mobile Phase	EtOH/AcOH- 100/0.01%
Flow Rate	1.0 mL/min
Detection	UV 250 nm
Resolution	2.70
Class of Compounds	Anticoagulant
Analyzing Compounds	Warfarin

HPLC Column Used

Cyralis CM, 4.6 x 100 mm, 5 µm, 100 Å, reversed phase

[Order this column at hplc-shop.de →](https://www.hplc-shop.de)