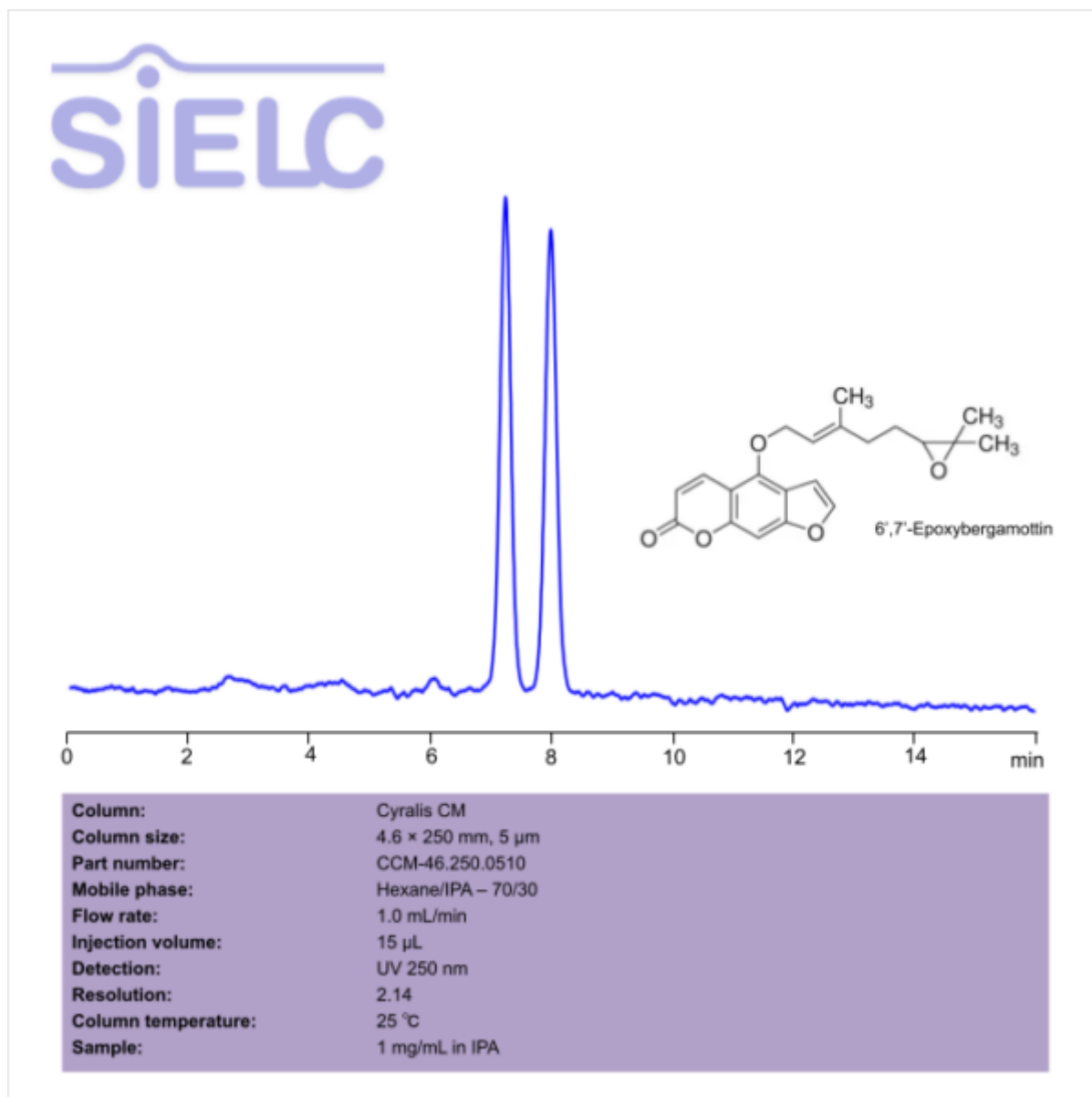


HPLC Chiral Separation of Epoxybergamottin on Cyralis CM Column

<https://sielc.com/hplc-chiral-method-for-analysis-of-epoxybergamottin>

Chromatogram



Description

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

Epoxybergamottin is a furanocoumarin with the chemical formula $C_{21}H_{22}O_5$. It is an inhibitor of the cytochrome P450 enzyme CYP3A4 that is found in citrus peels. You can find detailed UV spectra of Epoxybergamottin 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 Epoxybergamottin 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. For best results, the sample should be prepared fresh for analysis.

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

Method Parameters

Mobile Phase	Hexane/IPA- 70/30%
Flow Rate	1.0 mL/min
Detection	UV 250 nm
Resolution	2.14
Class of Compounds	Furanocoumarin
Analyzing Compounds	Epoxybergamottin

HPLC Column Used

Cyralis CM, 4.6 x 250 mm, 5 µm, 100 A, dual ended

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