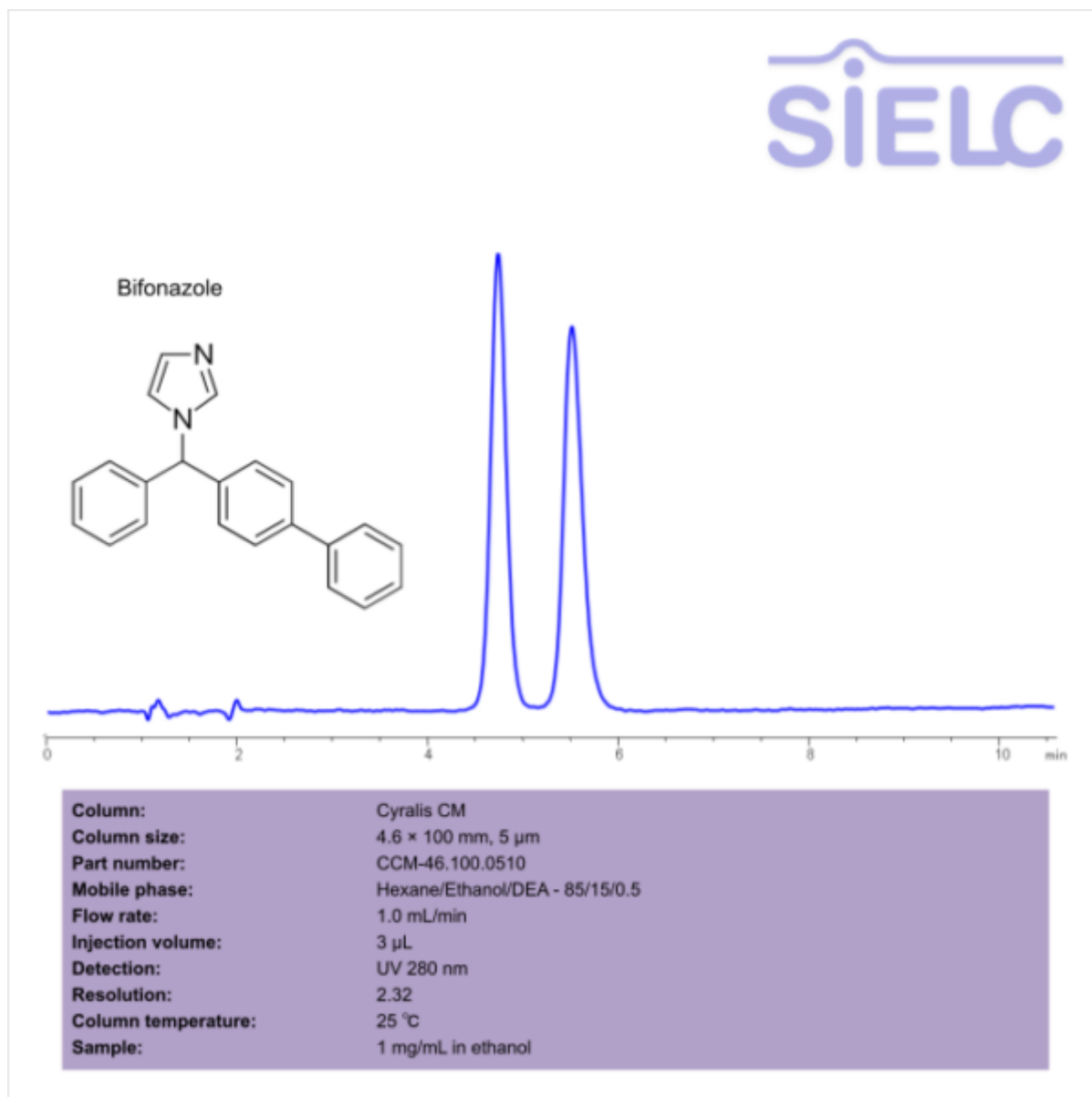


HPLC Chiral Separation of Bifonazole on Cyralis CM Column

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

Chromatogram



Description

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

Bifonazole is an antifungal drug with the chemical formula C₂₂H₁₈N₂. It is primarily sold as an ointment that works through inhibiting fungal ergosterol biosynthesis, which enables it to work against dermatophytes.

This application describes a normal-phase chiral HPLC method for the separation of Bifonazole 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.

Bifonazole 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, Ethanol, and DEA. Detection is performed using UV.

Method Parameters

Mobile Phase	Hexane/Ethanol/DEA- 85/15/0.5%
Flow Rate	1.0 mL/min
Detection	UV 280 nm
Resolution	2.32
Class of Compounds	Fungicide
Analyzing Compounds	Bifonazole

HPLC Column Used

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

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