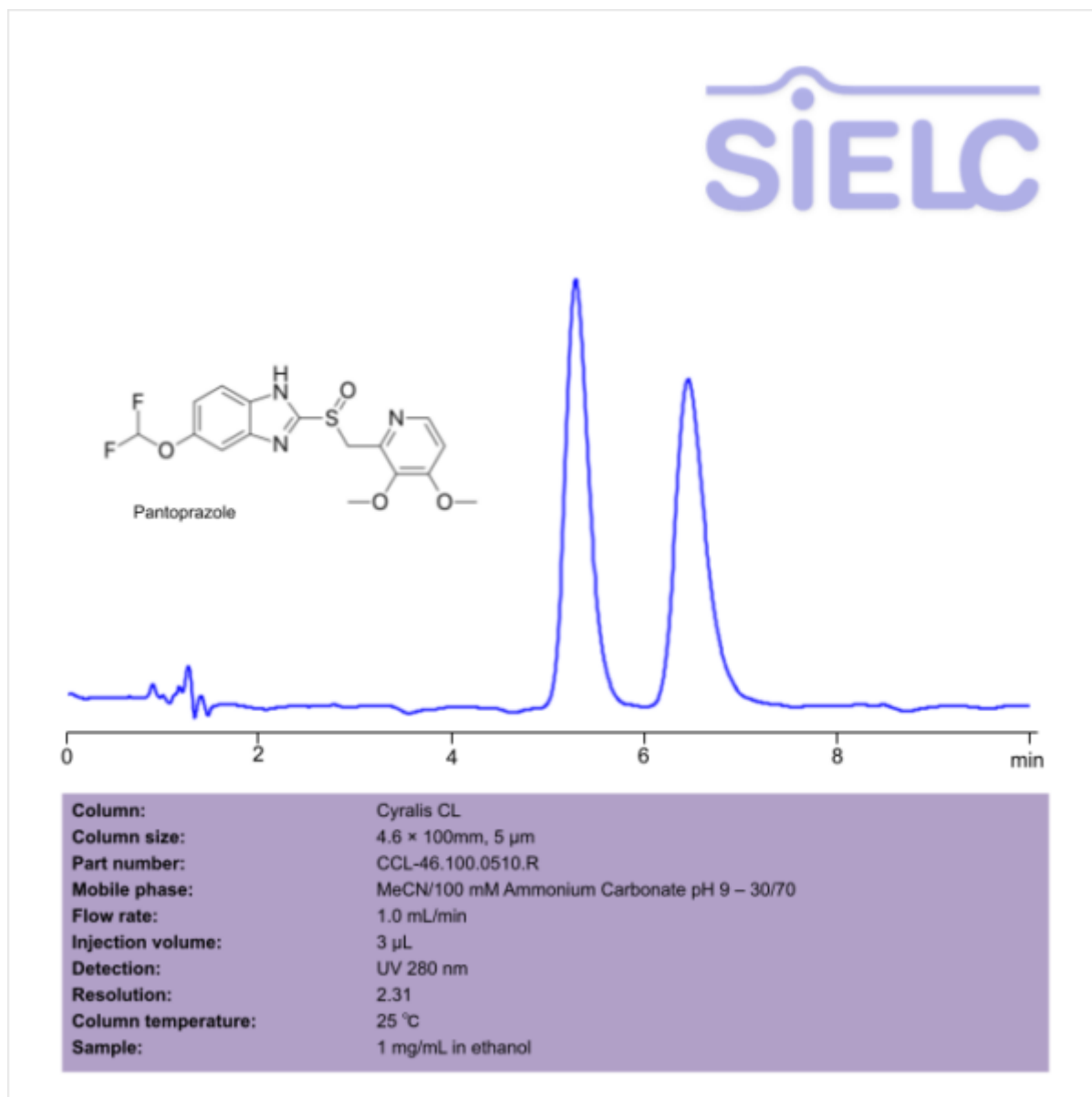


HPLC Chiral Separation of Pantoprazole Enantiomers on Cyralis CL Column

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

Chromatogram



Description

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

Pantoprazole is a proton pump inhibitor (PPI) with C₁₆H₁₅F₂N₃O₄S molecular formula. It is used to decrease stomach acids amounts. It does that through binding to proton pumps in the stomach's lining, therefore preventing the production of stomach acid. You can find detailed UV spectra of Pantoprazole 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 Pantoprazole enantiomers using SIELC's Cyralis CL chiral column. Cyralis CL 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.

Pantoprazole can be retained and analyzed using the Cyralis CL stationary phase column. The analysis utilizes an isocratic method with a mobile phase consisting of sodium perchlorate and acetonitrile. Detection is performed using UV.

Method Parameters

Mobile Phase	MeCN/100 mM Ammonium Carbonate pH 9
Flow Rate	1.0 mL/min
Detection	UV 280 nm
Resolution	2.31
Class of Compounds	Proton Pump Inhibitor
Analyzing Compounds	Pantoprazole

HPLC Column Used

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

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