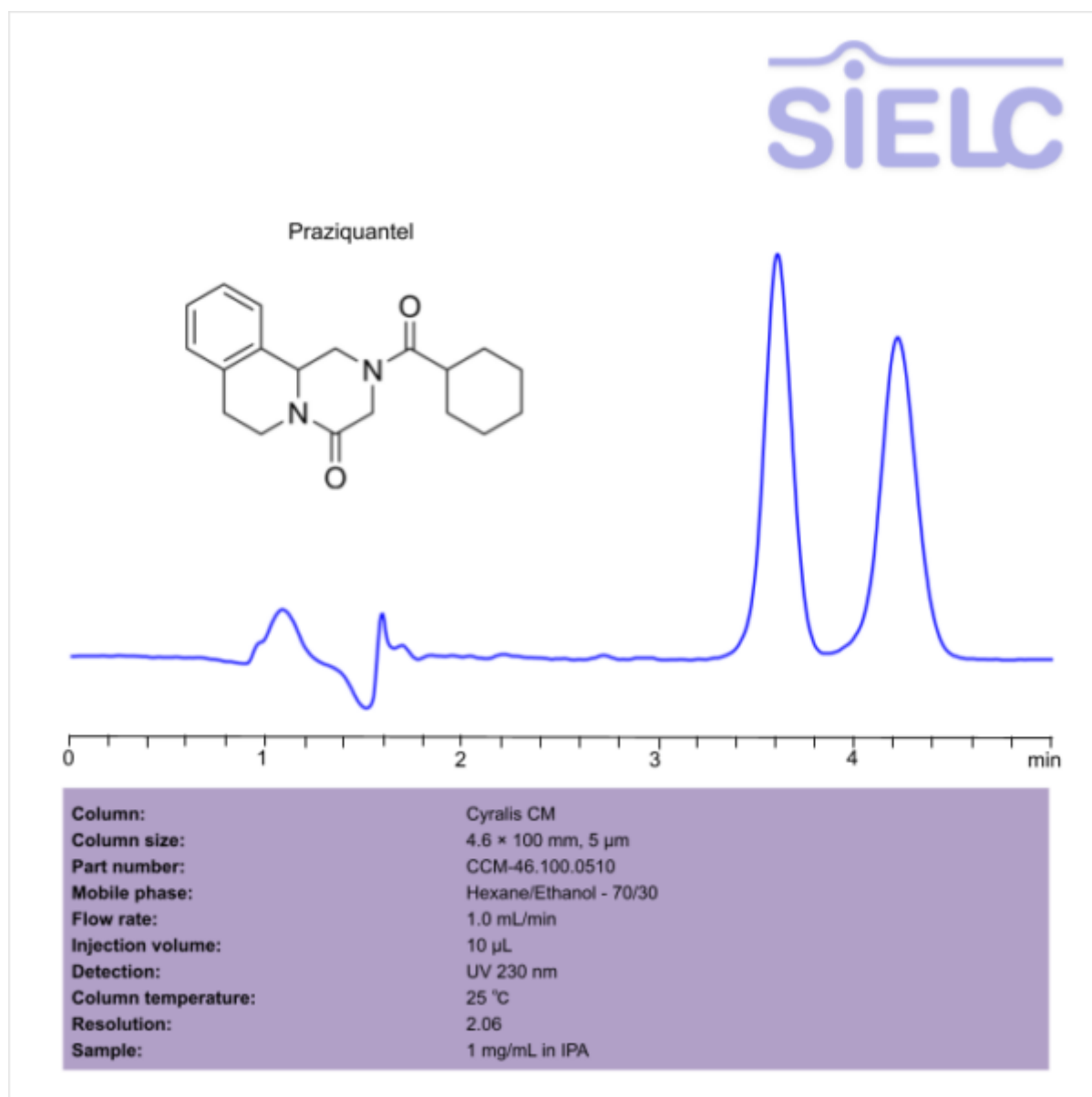


HPLC Chiral Separation of Praziquantel Enantiomers on Cyralis CM Column

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

Chromatogram



Description

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

Praziquantel is a drug with the chemical formula $C_{19}H_{24}N_2O_2$. It is primarily used to treat parasitic worm infections in a variety of living beings. In humans, it is used to treat schistosomiasis, tapeworm infections, cysticercosis, and more. It works through increasing the permeability of the membranes of schistosome cells towards calcium ions which leads to contractions of muscles and therefore paralysis of the parasite. You can find detailed UV spectra of Praziquantel 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 Praziquantel 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.

Praziquantel 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 Ethanol. Detection is performed using UV.

Method Parameters

Mobile Phase	Hexane/Ethanol- 70/30%
Flow Rate	1.0 mL/min
Detection	UV 230 nm
Resolution	2.06
Class of Compounds	Drug
Analyzing Compounds	Praziquantel

HPLC Column Used

Cyralis CM, 4.6 x 100 mm, 5 µm, 100 A, normal phase

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