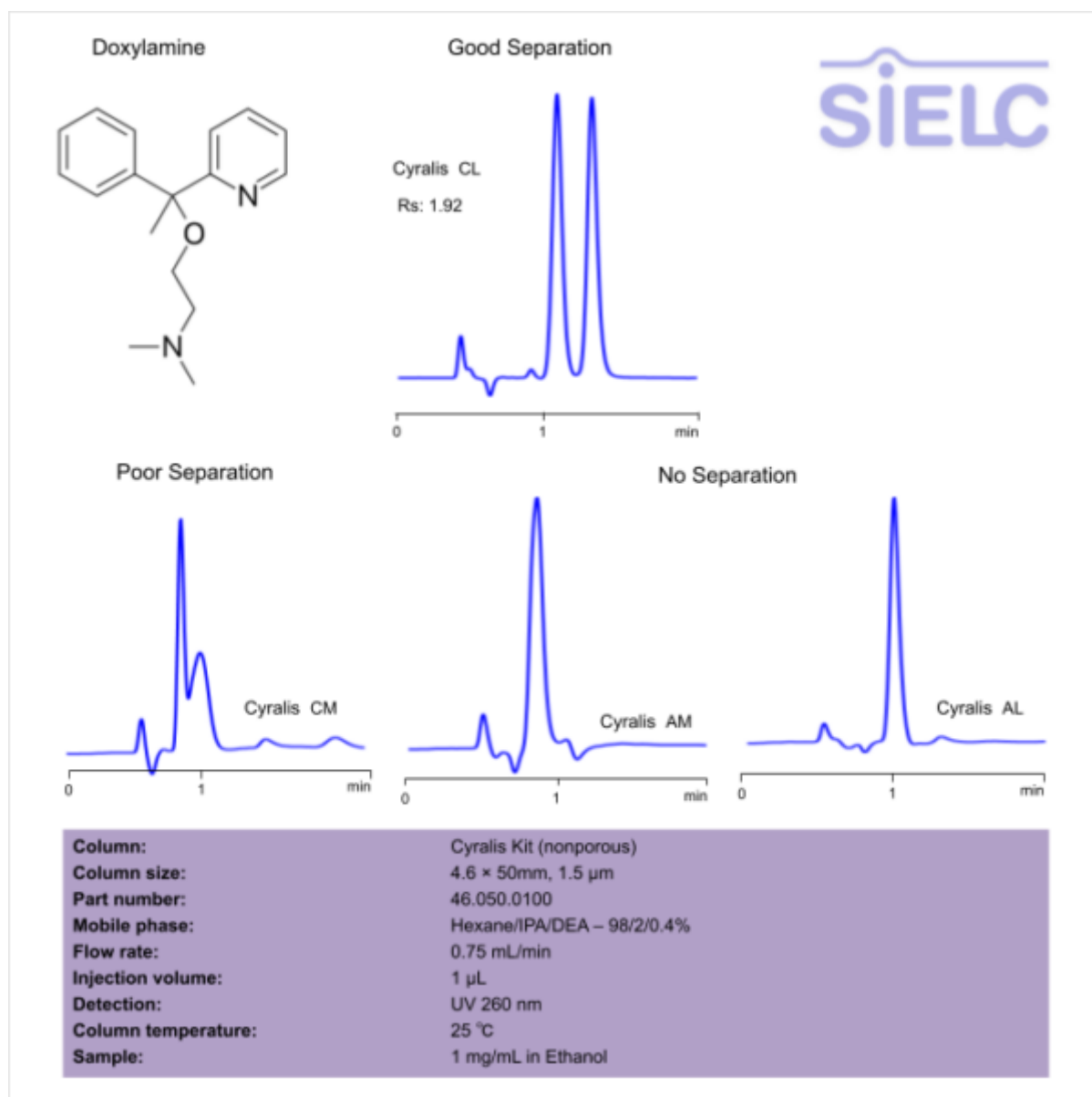


HPLC Chiral Separation of Doxylamine on Nonporous Cyralis Columns

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

Chromatogram



Description

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

Doxylamine is an antihistamine with the chemical formula $C_{17}H_{22}N_2O$. It is a common treatment for insomnia and allergies. When taken together with Vitamin B, they can treat morning sickness in pregnant women. It is very widely used as a sleep medication. Due to being a potent anticholinergic, it can cause delirium when taken at high doses. It works primarily as an antagonist of the histamine H₁ receptor. You can find detailed UV spectra of Doxylamine 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 Doxylamine enantiomers using SIELC's Cyralis nonporous chiral columns. The nonporous kit is a collection of AL, CL, AM and CM nonporous phases designed for ultrafast 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. These nonporous applications are designed to demonstrate baseline resolution of certain racemates even on very

short, low-capacity columns.

Doxylamine can be retained and analyzed using the Cyralis Screening Kit stationary phase column. The analysis utilizes an isocratic method with a mobile phase consisting of hexane, IPA, and DEA. Detection is performed using UV.

Method Parameters

Mobile Phase	Hexane/IPA/DEA – 98/2/0.4%
Flow Rate	0.75 mL/min
Detection	UV 260 nm
Resolution	1.92
Class of Compounds	Antihistamine
Analyzing Compounds	Doxylamine

HPLC Column Used

Cyralis Screening Kit

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