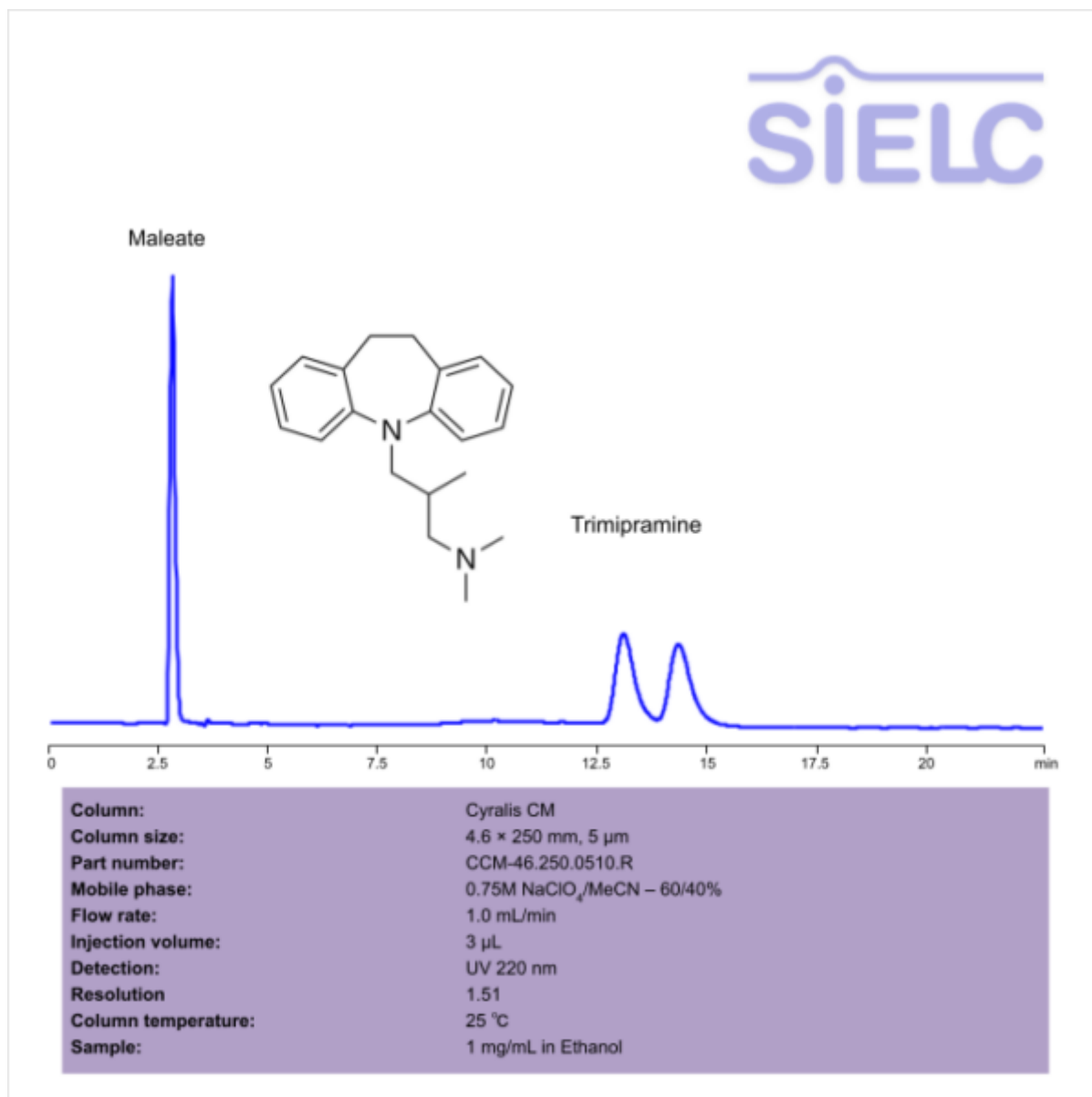


HPLC Chiral Separation of Trimipramine Enantiomers on Cyralis CM Column

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

Chromatogram



Description

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

Trimipramine is a tricyclic antidepressant (TCA) with the chemical formula C₂₀H₂₆N₂. It is used primarily to treat depression, but it has also been used to treat insomnia, anxiety disorders, and psychosis due to its sedative, anxiolytic, and antipsychotic effects. Unlike other TCAs, it is a weaker monoamine reuptake inhibitor. You can find detailed UV spectra of Trimipramine 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 Trimipramine enantiomers using SIELC's (Column not found) 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.

Trimipramine can be retained and analyzed using the (Column not found) 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	NaClO ₄ /MeCN
Flow Rate	1.0 mL/min
Detection	UV 220 nm
Resolution	1.51
Class of Compounds	Drug
Analyzing Compounds	Trimipramine

HPLC Column Used

(Column variation not found)