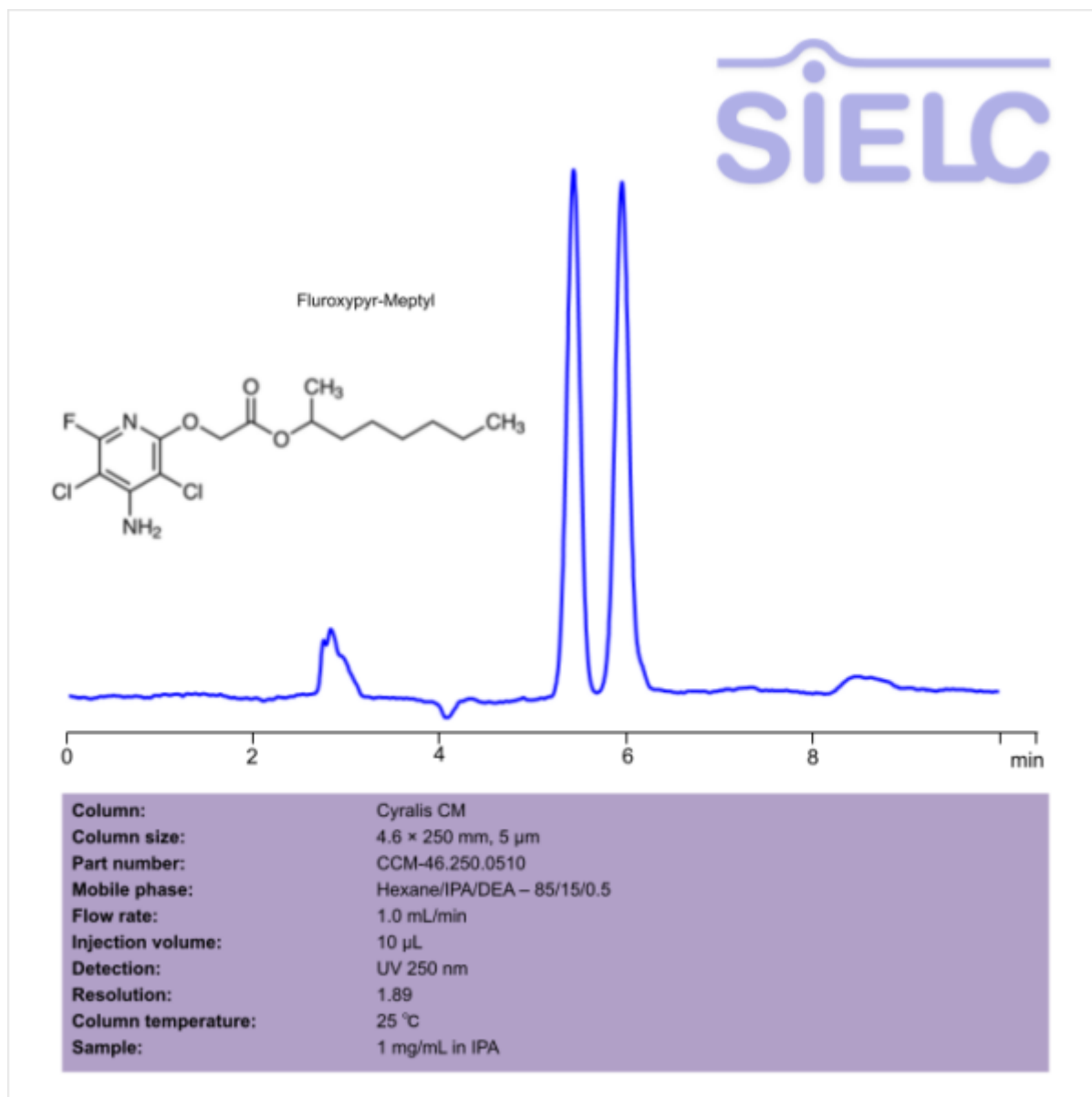


HPLC Chiral Separation of Fluroxypyr-Meptyl on Cyralis CM Column

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

Chromatogram



Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Fluroxypyr-meptyl .

Fluroxypyr-Meptyl is a herbicide with the chemical formula $C_{15}H_{21}Cl_2FN_2O_3$. It is used for the control of broad-leaved weeds in cereals, pastures, and non-crop areas. It belongs to a class of herbicides known as synthetic auxins. Fluroxypyr-meptyl is effective against a range of weed species, including some that are resistant to other types of herbicides. You can find detailed UV spectra of Fluroxypyr-meptyl 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 Fluroxypyr-meptyl 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.

Fluroxypyr-meptyl 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, IPA, and DEA. Detection is performed using UV.

Method Parameters

Mobile Phase	Hexane/IPA/DEA – 85/15/0.5%
Flow Rate	1.0 mL/min
Detection	UV 250 nm
Resolution	1.89
Class of Compounds	Herbicide
Analyzing Compounds	Fluroxypyr-meptyl

HPLC Column Used

Cyralis CM, 4.6 x 250 mm, 5 µm, 100 Å, dual ended

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