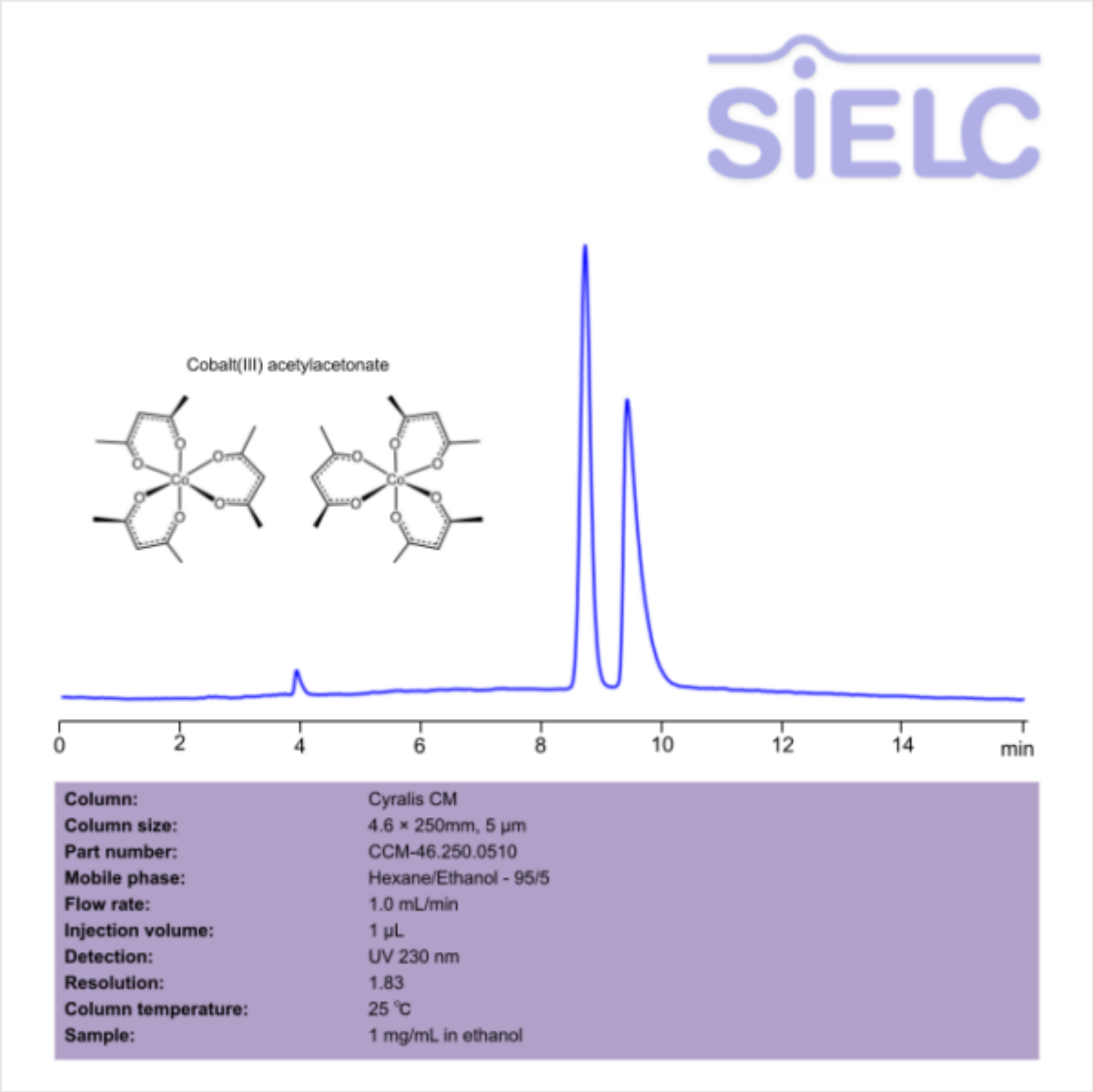
HPLC Chiral Separation of Cobalt(III) acetylacetonate on Cyralis CM Column

https://sielc.com/hplc-chiral-method-for-analysis-of-cobalt-iii-acetylacetonate

Chromatogram



Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Cobalt(III) Acetylacetonate .

Cobalt(III) acetylacetonate is a coordination complex with the chemical formula Co(C 5 H 7 O 2)3 . It is primarily used to produce homogeneous catalyst by reduction.

This application describes a normal-phase chiral HPLC method for the separation of Cobalt(III) Acetylacetonate 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. For best results, the sample should be prepared fresh for analysis.

Cobalt(III) Acetylacetonate can be retained and analyzed using the Cyralis CM stationary phase column. The analysis utilizes an isocratic method with a mobile phase consisting of Ethanol. Detection is performed using UV.

Method Parameters

Mobile Phase	Hexane/Ethanol
Flow Rate	1.0 mL/min
Detection	UV 230 nm
Resolution	1.83
Class of Compounds	Complex
Analyzing Compounds	Cobalt(III) Acetylacetonate

HPLC Column Used

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

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