

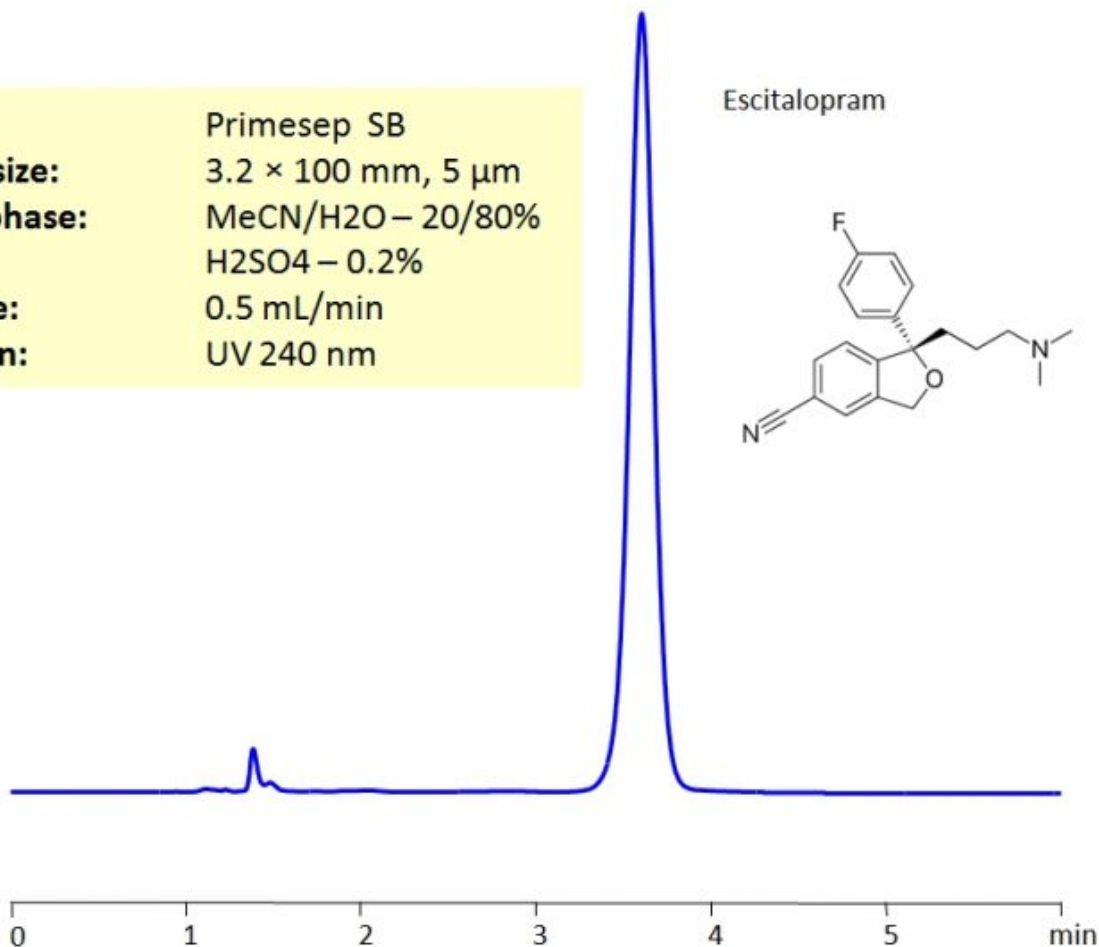
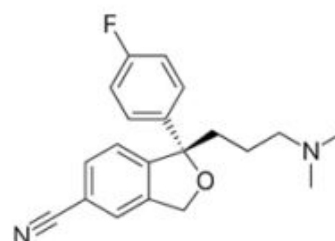
HPLC Determination of Escitalopram (Cipralex) on Primesep SB Column

<https://sielc.com/hplc-determination-of-escitalopram>

Chromatogram

Column: Primesep SB
Column size: 3.2 × 100 mm, 5 µm
Mobile phase: MeCN/H₂O – 20/80%
Buffer: H₂SO₄ – 0.2%
Flow rate: 0.5 mL/min
Detection: UV 240 nm

Escitalopram



Description

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

Escitalopram is a type of antidepressant known as a selective serotonin reuptake inhibitor with the chemical formula C₂₀H₂₁FN₂O . It is used to restore serotonergic function in the treatment of depression and anxiety. It is formulated as an oxalate salt. Escitalopram has a lot of side effects that include headache, nausea, and trouble sleeping.

Escitalopram can be retained on Primesep SB , a reverse-phase (RP) mixed-mode column with embedded strong basic ion-pairing groups, using an isocratic analytical method with a simple mobile phase of water, acetonitrile (MeCN, ACN), and sulphuric acid (H₂SO₄) buffer. UV detection at 240 nm.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 20/80%
Buffer	H ₂ SO ₄ – 0.2%
Flow Rate	1.0 ml/min

Detection	240 nm
Class of Compounds	Drug, Hydrophobic
Analyzing Compounds	Escitalopram

HPLC Column Used

Primesep SB, 3.2 x 50 mm, 5 µm, 100 Å, dual ended

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