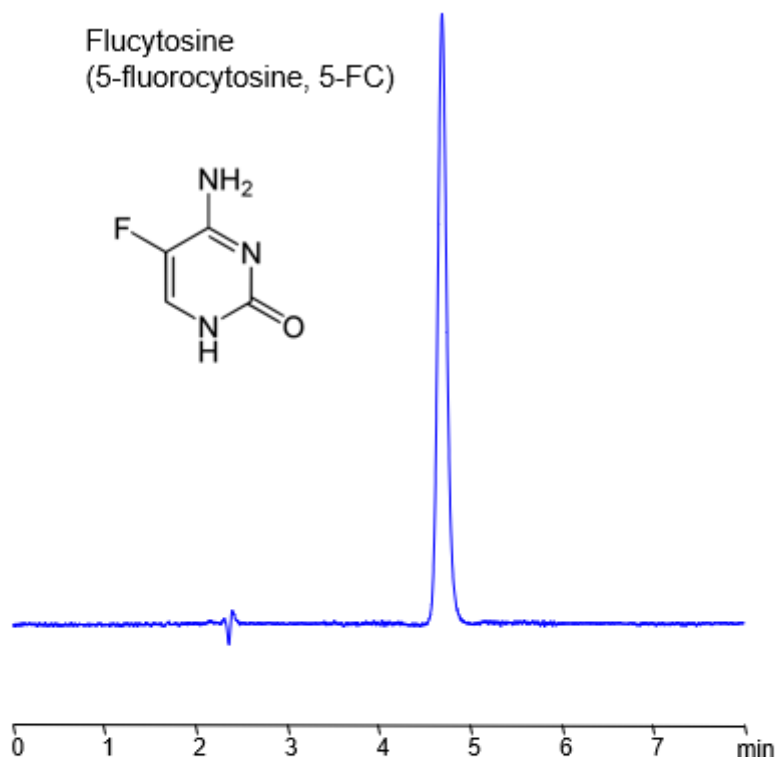


HPLC Method for Analysis of Flucytosine on Primesep 100 Column

<https://sielc.com/hplc-determination-of-flucytosine-2>

Chromatogram



Column:	Primesep 100
Column size:	4.6 × 150 mm, 5 µm
Column part number:	100-46.150.0510
Mobile phase:	MeCN/H ₂ O – 10/90%
Buffer:	H ₂ SO ₄ – 0.2%
Flow rate:	1.0 mL/min
Detection:	UV 210, 285 nm

Description

Flucytosine, also known as 5-fluorocytosine and 5-FC, is an anti-fungal drug with the chemical formula C₄H₄FN₃O. It is used primarily in tandem with amphotericin B to treat Candida infections and cryptococcosis. It works through being converted to cytostatic fluorouracil, which leads to disturbed and disrupted RNA biosynthesis of certain proteins, and fluorodeoxyuridylate which inhibits DNA synthesis of fungi. You can find detailed UV spectra of Flucytosine (5-fluorocytosine, 5-FC) and information about its various lambda maxima by visiting the following link.

Flucytosine (5-fluorocytosine, 5-FC) can be retained and analyzed on a Primesep 100 mixed-mode stationary phase column using an isocratic analytical method with a simple mobile phase of water, Acetonitrile (MeCN), and a sulfuric acid (H₂SO₄) buffer. This analysis method can be detected in the UV regime at 190 and 275 nm.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 10/90%
Buffer	H ₂ SO ₄ – 0.2%
Flow Rate	1.0 ml/min
Detection	UV 210, 285 nm
Peak Retention Time	4.81 min
Class of Compounds	Drug
Analyzing Compounds	Flucytosine (5-fluorocytosine, 5-FC)

HPLC Column Used

Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended

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