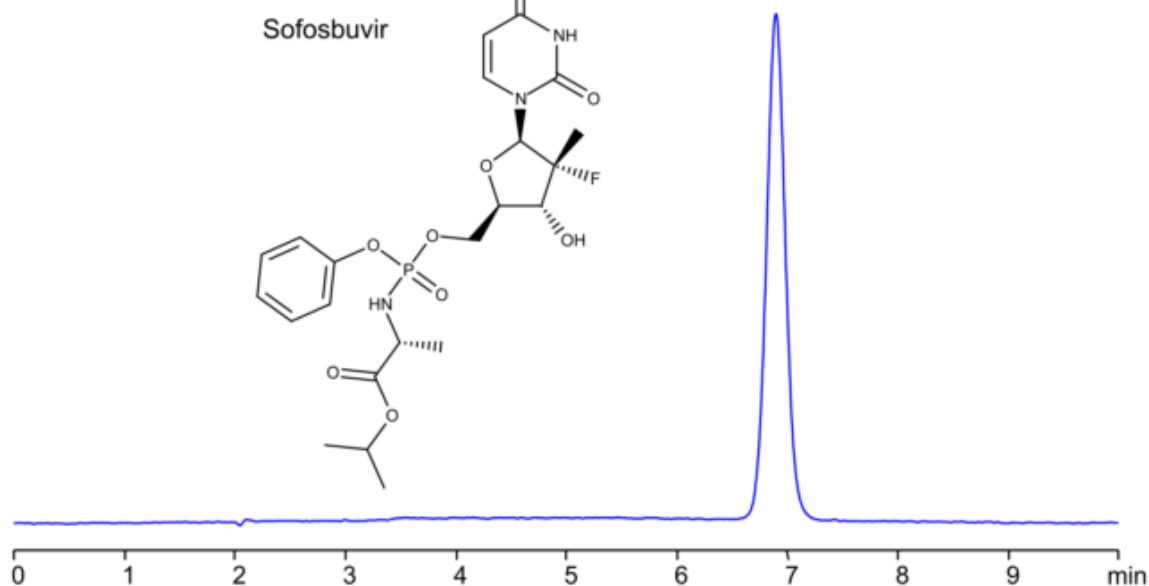
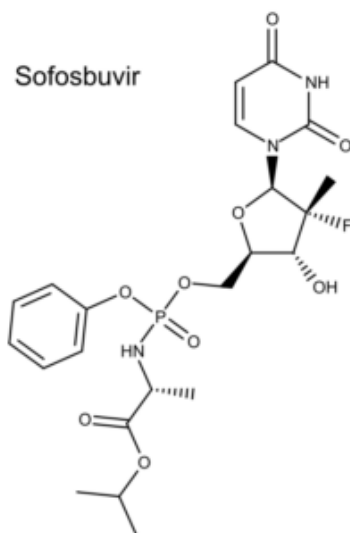


HPLC Method for Analysis of Sofosbuvir on Primesep B Column

<https://sielc.com/hplc-method-for-analysis-sofosbuvir-primesep-b>

Chromatogram

siELC



Column:	Primesep B
Column size:	4.6 × 150 mm, 5 µm
Column part number:	B-46.150.0510
Mobile phase:	MeCN/H ₂ O - 30/70%
Buffer:	H ₂ SO ₄ - 0.1%
Flow rate	1.0 mL/min
Detection:	UV 260 nm
Concentration:	0.5 mg/mL
Injection Volume:	2 µL
Diluent:	MeCN/H ₂ O - 30/70%
Limit of Detection:	70.3 ppb

Description

· HPLC Method for Analysis of Sofosbuvir on Primesep B Column by SIELC Technologies

Sofosbuvir is an oral antiviral medication used to treat hepatitis C virus (HCV) infection. It is a nucleotide analog inhibitor that targets the HCV NS5B RNA polymerase, preventing viral replication. Often combined with other antiviral drugs, sofosbuvir has revolutionized HCV treatment by offering a shorter duration of therapy, higher cure rates, and minimal resistance, with fewer side effects compared to older treatments.

Sofosbuvir can be retained and analyzed using the Primesep B stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water, acetonitrile (MeCN), and sulfuric acid. Detection is performed using UV at 260 nm.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 30/70%
Buffer	H ₂ SO ₄ – 0.1%
Flow Rate	1.0 ml/min
Detection	UV 260 nm
LOD	70.3 ppb
Class of Compounds	Nucleotide Analog Prodrug
Analyzing Compounds	Sofosbuvir

HPLC Column Used

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

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