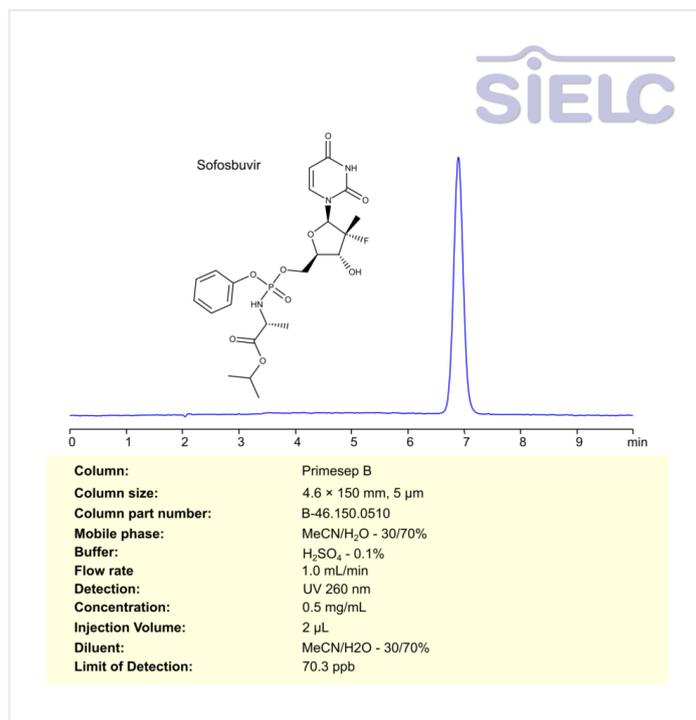


## HPLC Method for Analysis of Sofosbuvir on Primesep B Column



Sofosbuvir is an oral antiviral medication used to treat hepatitis C virus (HCV) infection. It is a nucleotide analog inhibitor that targets the HCVNS5BRN 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.

\*LOD was determined for this combination of instrument, method, and analyte, and it can vary from one laboratory to another even when the same general type of analysis is being performed.

### Method Parameters

<b>Column</b>	Primesep B, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
<b>Mobile Phase</b>	MeCN/H <sub>2</sub> O – 30/70%
<b>Buffer</b>	H <sub>2</sub> SO <sub>4</sub> – 0.1%
<b>Flow Rate</b>	1.0 mL/min
<b>Detection</b>	UV 260 nm
<b>Limit of Detection</b>	70.3 ppb

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