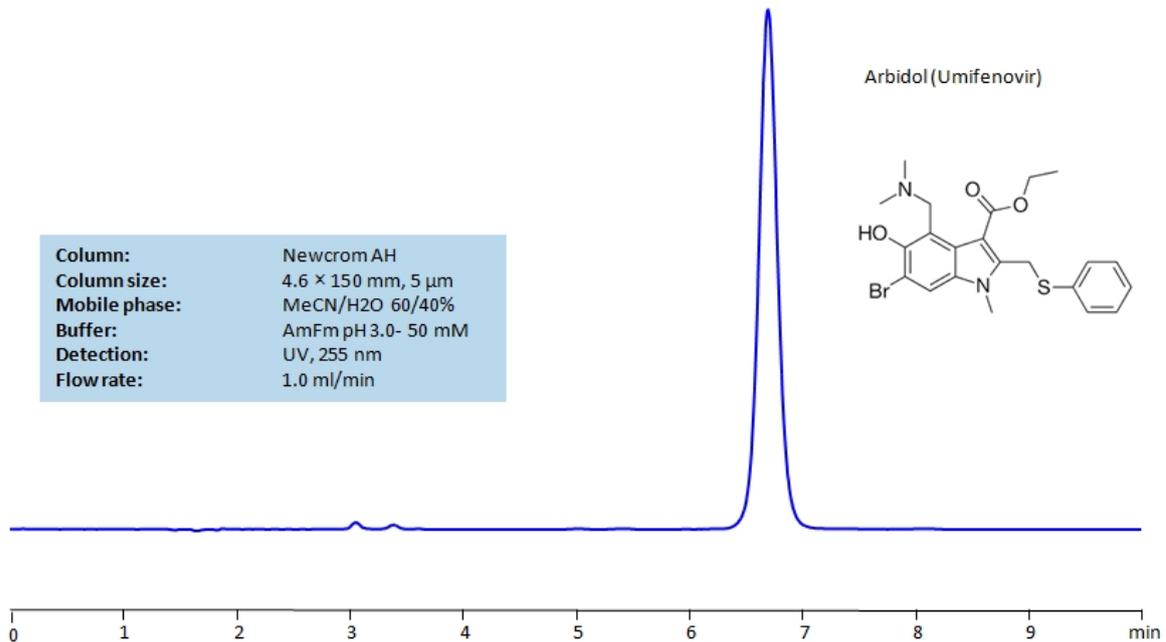


HPLC Determination of Arbidol (Umifenovir) on Newcrom AH Column



High Performance Liquid Chromatography (HPLC) Method for Analysis of Arbidol (Umifenovir) .

Umifenovir is an antiviral medication with the chemical formula C₂₂H₂₅BrN₂O₃S . It is used to treat influenza in Russia and China for decades, but it is not approved for use in the United States by the Food and Drug Administration (FDA). It is considered a direct-acting antiviral as well as a host-targeting agent due to how it effects multiple stages of a viral lifecycle. Due to it's wide-spread capabilities in covering both enveloped and non-enveloped RNA and DNA viruses, it is currently being investigated as treatment and prevention of COVID-19 caused by SARS-CoV-2 infections.

Arbidol (Umifenovir) can be retained and analyzed using the Newcrom AH stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN). Detection is performed using UV.

Method Parameters

Column	Newcrom AH, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/H ₂ O – 60/40%
Buffer	AmFm pH 3.0- 50 mM
Flow Rate	1.0 mL/min
Detection	UV 255 nm, MS-compatible mobile phase

Quelle: <https://sielc.com/hplc-determination-of-arbidol-umifenovir>