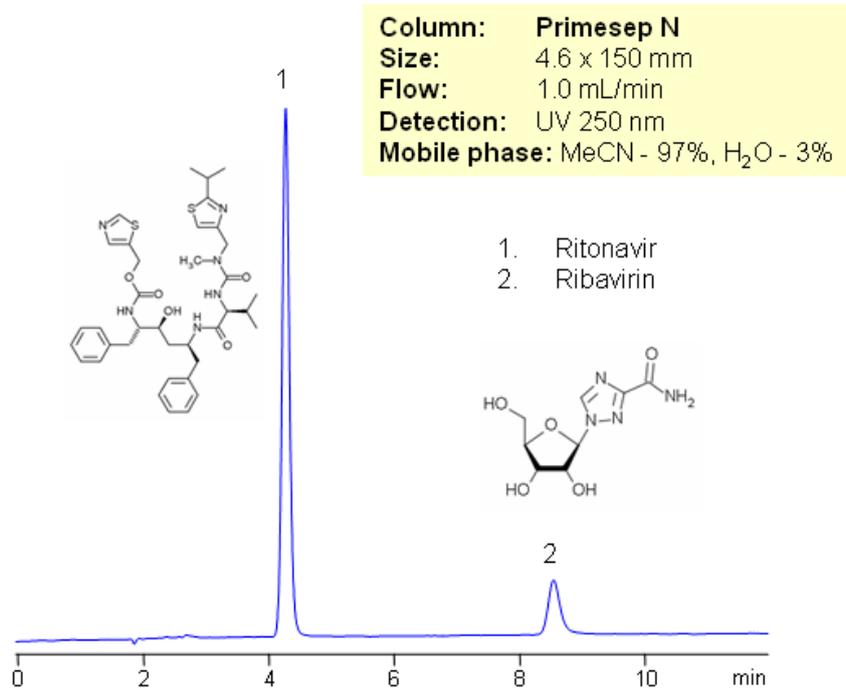


HPLC Separation of Ritonavir and Ribavirin



Separation type: Liquid Chromatography HILIC

Ritonavir and Ribavirin are two drugs which are very different in their properties for HPLC separation. Very hydrophobic and very hydrophilic drugs are separated on Primesep N using Hydrophilic Interaction Chromatography (HILIC). Ritonavir is an antiretroviral drug from the protease inhibitor class used to treat HIV infection and AIDS. Ritonavir is very hydrophobic and non-ionizable and retains very long in reverse phase chromatography. Ribavirin is an anti-viral drug which is active against a number of DNA and RNA viruses. It is a member of the nucleoside antimetabolite drug, which makes it very hydrophilic.

Method Parameters

Column	Primesep N, 4.6x150 mm, 5 µm, 100 Å
Mobile Phase	MeCN/H ₂ O – 97/3%
Buffer	No
Flow Rate	1.0 mL/min
Detection	UV 250 nm, MS- compatible mobile phase

Quelle: <https://sielc.com/Application-HILIC-Separation-of-Ritonavir-and-Ribavirin>