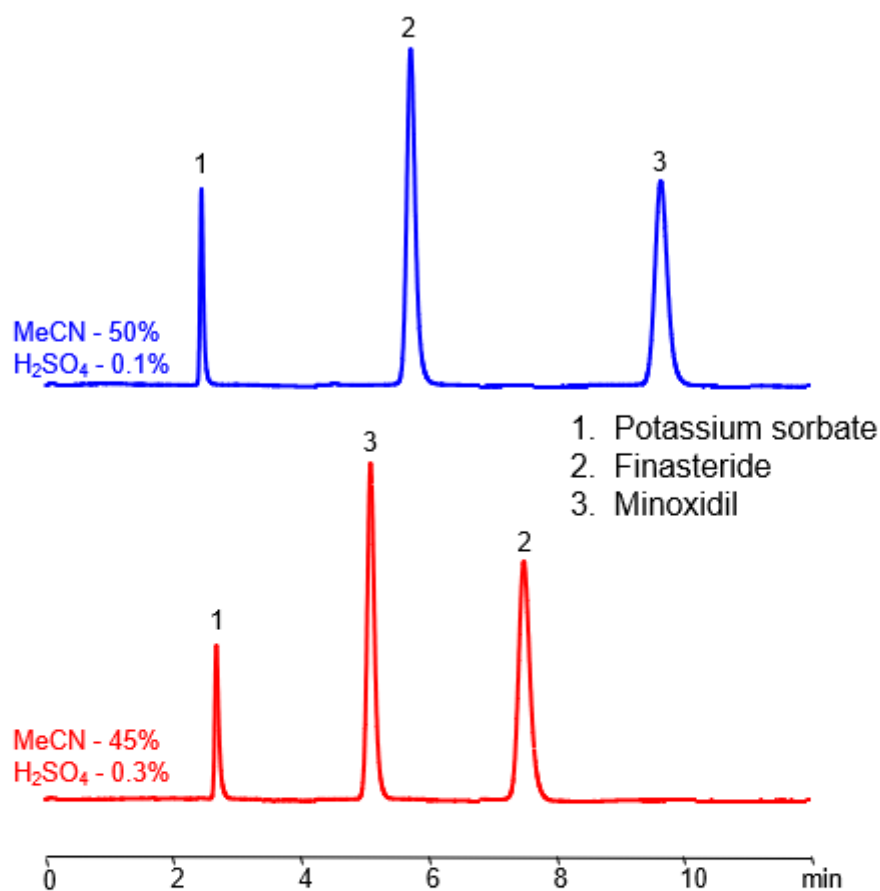


HPLC Method for Separation of Finasteride, Minoxidil and Potassium sorbate on Primesep 100 Column

<https://sielc.com/hplc-determination-of-finasteride-minoxidil>

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
Buffer:	H ₂ SO ₄
Flow rate:	1.0 mL/min
Detection:	UV 225 nm

Description

Method for Separation of Minoxidil , Potassium sorbate , Finasteride on Primesep 100 by SIELC Technologies

Finasteride , also known as Proscar or Propecia , is a popular oral medication with the chemical formula C₂₃ H₃₆ N₂ O₂ . It is primarily used to prevent hair loss and treat enlarged prostates (also known as benign prostatic hyperplasia, BPH). On occasion, it is used to treat excessive hair growth. It works as a 5α-reductase inhibitor, which leads to reduced formation of dihydrotestosterone (DHT) from testosterone. You can find detailed UV spectra of Finasteride and information about its various lambda maxima by visiting the following link.

Minoxidil is a drug with the chemical formula $C_9H_{15}N_5O$. It is used to treat male pattern hair loss, as well as high blood pressure, and can be taken both orally or topically. It is an adenosine 5'-triphosphate (ATP)-sensitive potassium channel opener, which leads to hyperpolarization of cell membranes.. That allows for more oxygen, blood, and nutrients to follicles. You can find detailed UV spectra of Minoxidil and information about its various lambda maxima by visiting the following link.

Potassium Sorbate is a popular preservative with the chemical formula $C_6H_7KO_2$. It is used in a wide variety of foods, wines, and personal-care products. It works through inhibiting molds, yeasts, and various other microbes. You can find detailed UV spectra of Potassium Sorbate and information about its various lambda maxima by visiting the following link.

Minoxidil, Potassium sorbate, Finasteride can be retained, separated, and analyzed on a mixed-mode Primesep 100 column with a mobile phase consisting of water, Acetonitrile (MeCN), and sulfuric acid (H₂SO₄). This analytical method can be UV detected at 225 nm with high resolution and peak symmetry. The retention times and elution order of these compounds can be modified by altering the relative concentrations of MeCN and H₂SO₄.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 50/50%
Buffer	H ₂ SO ₄
Flow Rate	1.0 ml/min
Detection	UV 225 nm
Class of Compounds	Drug
Analyzing Compounds	Minoxidil, Potassium sorbate, Finasteride

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)