

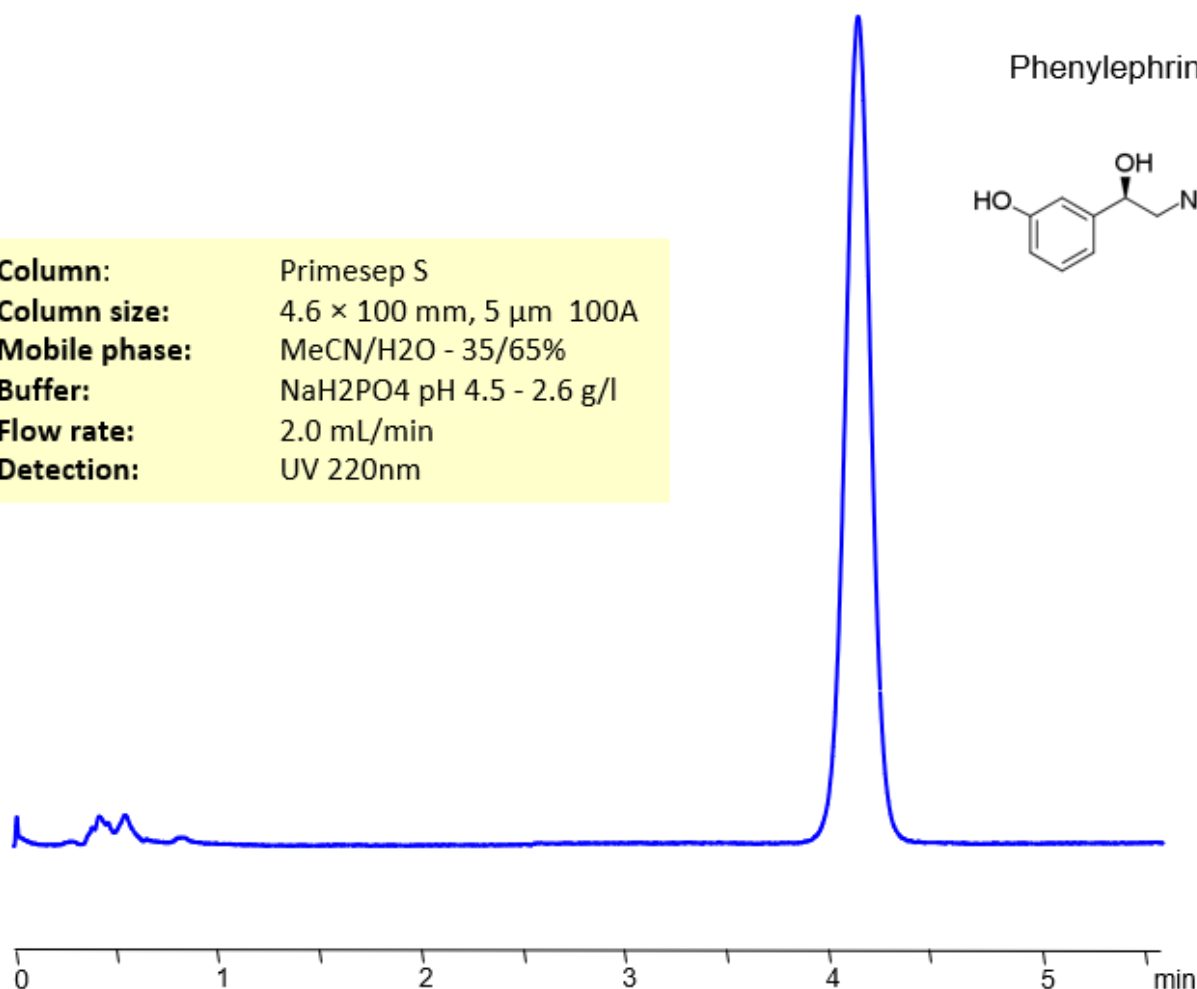
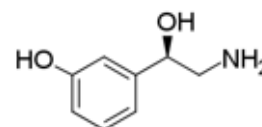
HPLC Method for Analysis of Phenylephrine HCl on Primesep S Column by SIELC Technologies

<https://sielc.com/hplc-method-phenylephrine>

Chromatogram

Column: Primesep S
Column size: 4.6 × 100 mm, 5 µm 100A
Mobile phase: MeCN/H₂O - 35/65%
Buffer: NaH₂PO₄ pH 4.5 - 2.6 g/l
Flow rate: 2.0 mL/min
Detection: UV 220nm

Phenylephrine



Description

Phenylephrine HCl is a common over-the-counter decongestant, but can also be used for pupil dilation and hemorrhoid treatment. Its chemical formula is C₉H₁₃NO₂. It is sold under many brand names including Mucinex, Sudafed PE, Sinex, and many other generic brands. While it is best known as a decongestant, it has a wide variety of other pharmaceutical applications, including pupil dilation, hypotension (low blood pressure) treatment, and hemorrhoid relief. You can find detailed UV spectra of Phenylephrine hydrochloride and information about its various lambda maxima by visiting the following link.

Phenylephrine hydrochloride can be detected in the low UV regime. Using a Primesep S can be retained and analyzed. This analysis method can be UV detected at 220 nm.

Method Parameters

Mobile Phase

MeCN – 35%

Buffer	NaH ₂ PO ₄ pH 4.5 – 2.6 g/l
Flow Rate	2.0 ml/min
Detection	UV 220 nm
Retention Time	4.12 min
Class of Compounds	Drug
Analyzing Compounds	Phenylephrine hydrochloride

HPLC Column Used

Primesep S, 4.6 x 100 mm, 5 µm, 100 Å, dual ended

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