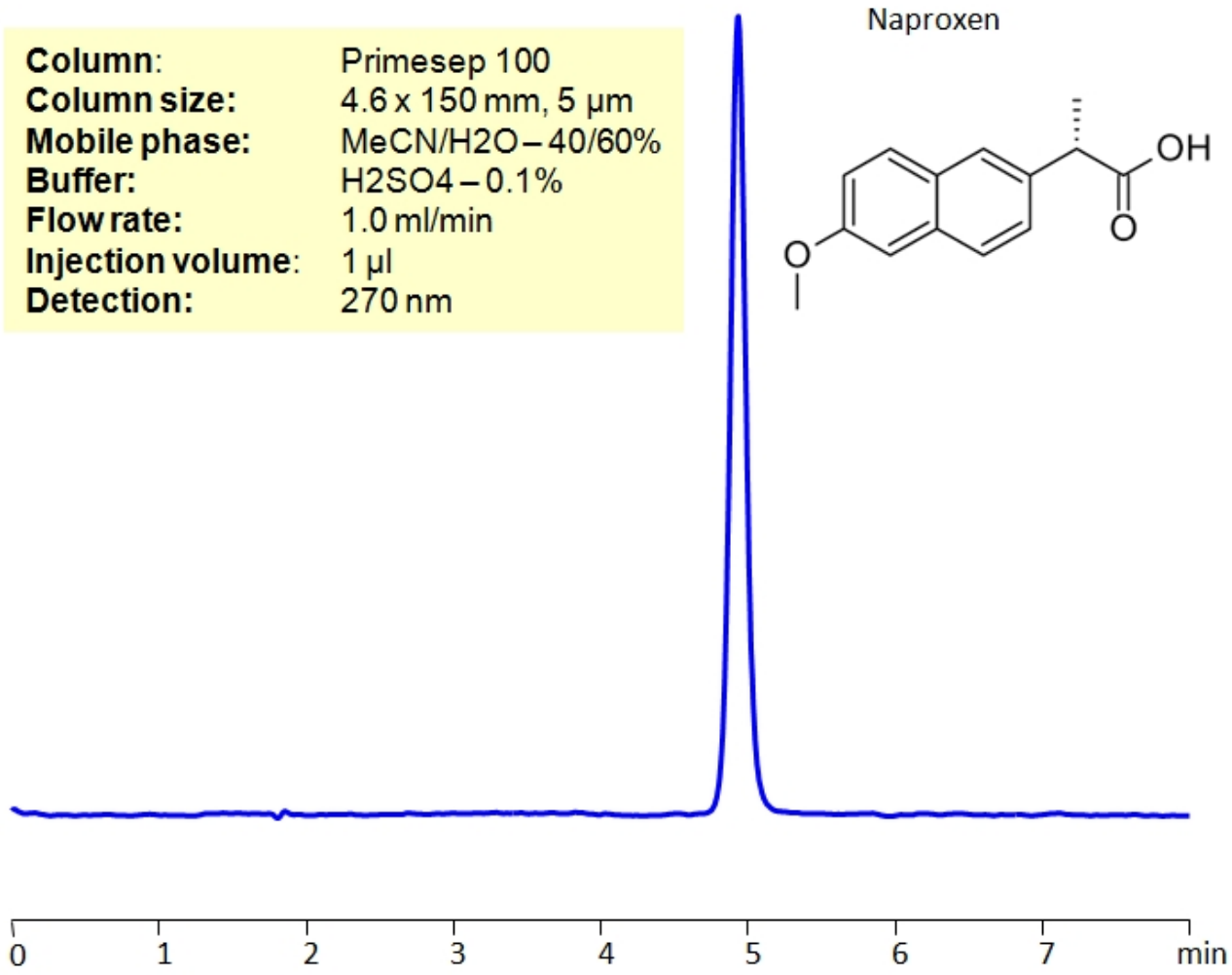
HPLC Determination of Naproxen on Primesep 100 Column

https://sielc.com/hplc-determination-of-naproxen

Chromatogram



Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Naproxen , Naproxen Sodium .

Naproxen is a common NSAID used for pain relief and fever reducer. It has the chemical formula C 14 H 14 O 3 . It works through inhibiting the body's production of prostaglandins, therefore preventing pain and inflammation. It is available over-the-counter at lower dosages, and through prescription at higher dosages. As a NSAID, it carries a risk of heart attack, stroke, and gastrointestinal bleeding.

You can find detailed UV spectra of Naproxen , Naproxen Sodium and information about its various lambda maxima by visiting the following link.

Naproxen , Naproxen Sodium can be retained and analyzed using the Primesep 100 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a sulfuric acid buffer. Detection is performed using UV.

Method Parameters

Mobile Phase	MeCN/H2O – 40/60%
Buffer	H2SO4 – 0.1%
Flow Rate	1.0 ml/min
Detection	UV, 270 nm
Class of Compounds	Drug, Hydrophobic, Ionizable
Analyzing Compounds	Naproxen,Naproxen Sodium

HPLC Column Used

Primesep 100, 4.6 x 150 mm, 5 µm, 100 A, dual ended

Order this column at hplc-shop.de →