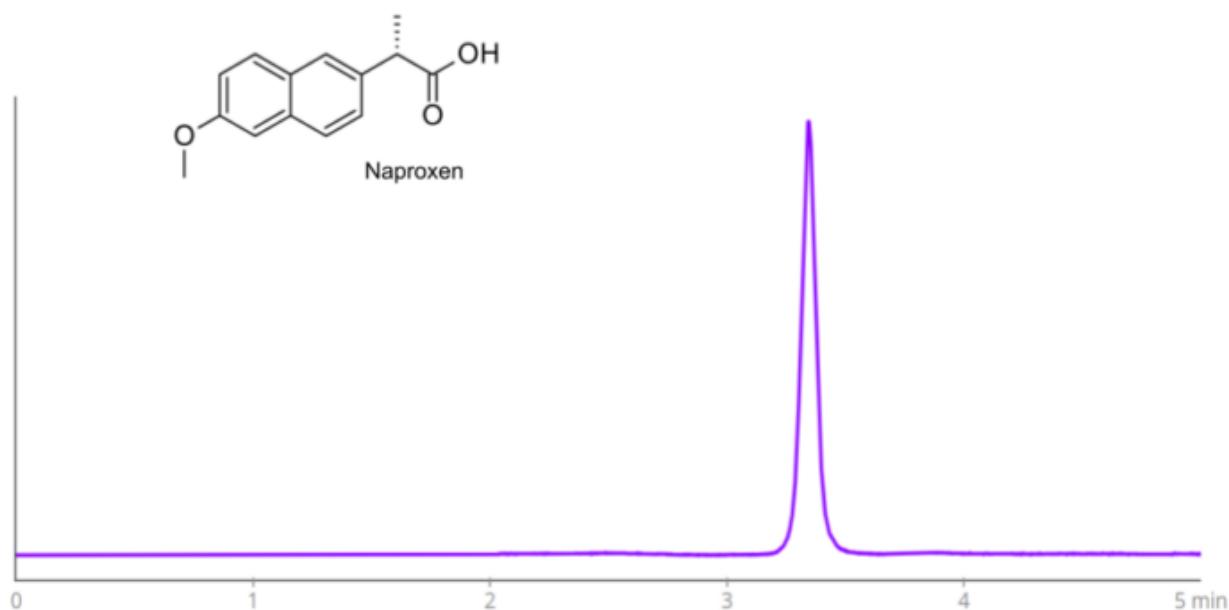


HPLC Method for Analysis of Naproxen on Primesep 100 Column on Alltesta™

<https://sielc.com/hplc-method-for-analysis-of-naproxen>

Chromatogram

SiELC



Column	Primesep 100
Column Size	4.6 x 150 mm, 5 µm
Part Number	100-46.150.0510
Mobile Phase	MeCN/H ₂ O - 55/45%
Buffer	H ₂ SO ₄ - 0.2%
Flow Rate	1.0 ml/min
Injection Volume	1 µL
Detection	UV 275 nm
Device	Alltesta™ Gradient Automated Analyzer

Description

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

Naproxen is a common NSAID used for pain relief and fever reducer. It has the chemical formula C₁₄H₁₄O₃. 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.

Naproxen 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 phosphoric acid as a buffer. Detection is performed using UV.

Method Parameters

Mobile Phase	MeCN – 55%
Buffer	Sulfuric Acid
Flow Rate	1.0 mL/min
Detection	UV 275 nm
Class of Compounds	Drug
Analyzing Compounds	Naproxen

HPLC Column Used

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

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