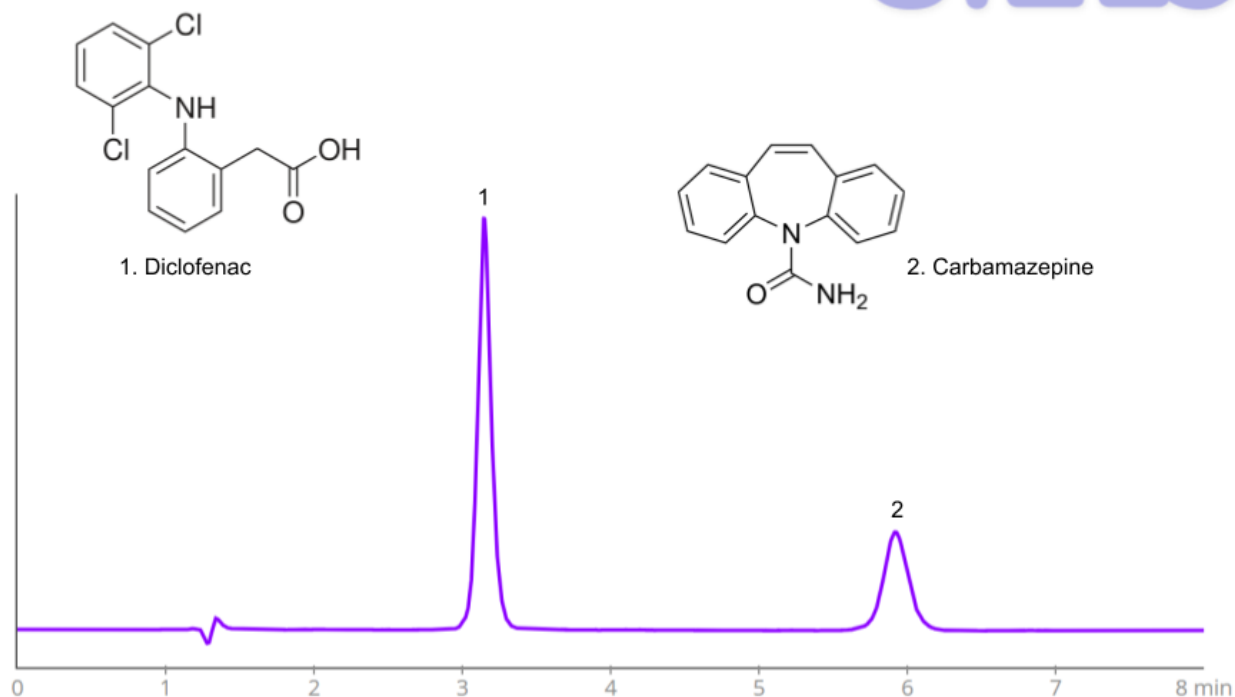


HPLC Method for Analysis of Diclofenac and Carbamazepine on Primesep 100 Column on Alltesta™

<https://sielc.com/hplc-method-for-analysis-of-diclofenac-and-carbamazepine>

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 - 35/65%
Buffer	H ₂ SO ₄ - 0.2%
Flow Rate	1.0 ml/min
Detection	UV 275 nm
Device	Alltesta™ Gradient Automated Analyzer

Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Diclofenac , Carbamazepine

Diclofenac is a nonsteroidal anti-inflammatory drug (NSAID) with the molecular formula C₁₄ H₁₁ Cl₂ NO₂ . It is a pain killer that also relieves symptoms of arthritis. It is only accessible through a prescription from a medical professional.

Carbamazepine is a anticonvulsant medication with the molecular formula C₁₅ H₁₂ N₂ O . It is typically used to treat epilepsy, bipolar disorder, and nerve pain. It works through calming overactive nerves through binding voltage-dependent sodium

channels.

Diclofenac , Carbamazepine 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 – 35%
Buffer	H2SO4 – 0.2%
Flow Rate	1.0 ml/min
Detection	UV 275 nm
Class of Compounds	Medication
Analyzing Compounds	Diclofenac, Carbamazepine

HPLC Column Used

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

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