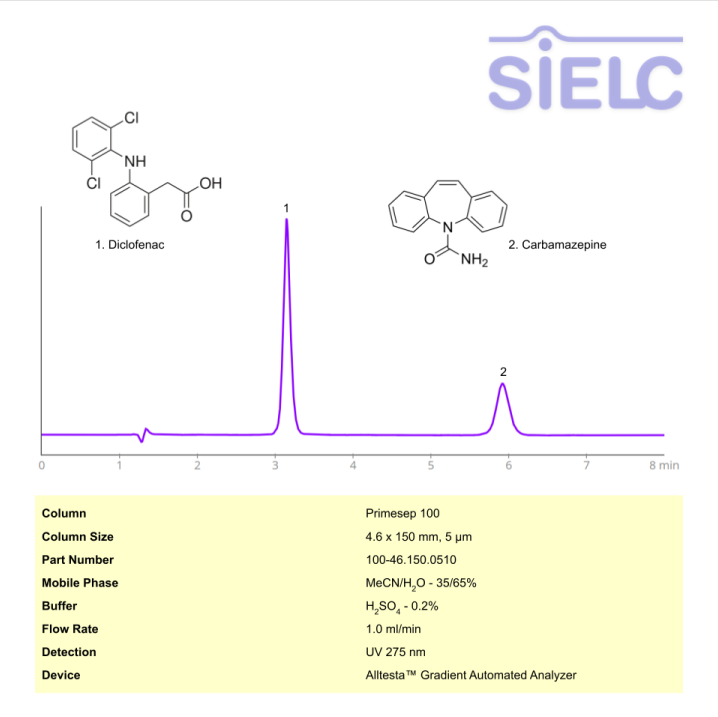
HPLC Method for Analysis of Diclofenac and Carbamazepine on Primesep 100 Column on Alltesta™



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

Diclofenac is a nonsteroidal anti-inflammatory drug (NSAID) with the molecular formula C14H11Cl2NO2 . 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 C15H12N2O . 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

Column	Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 35%
Buffer	H2SO4 – 0.2%
Flow Rate	1.0 mL/min
Detection	UV 275 nm

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