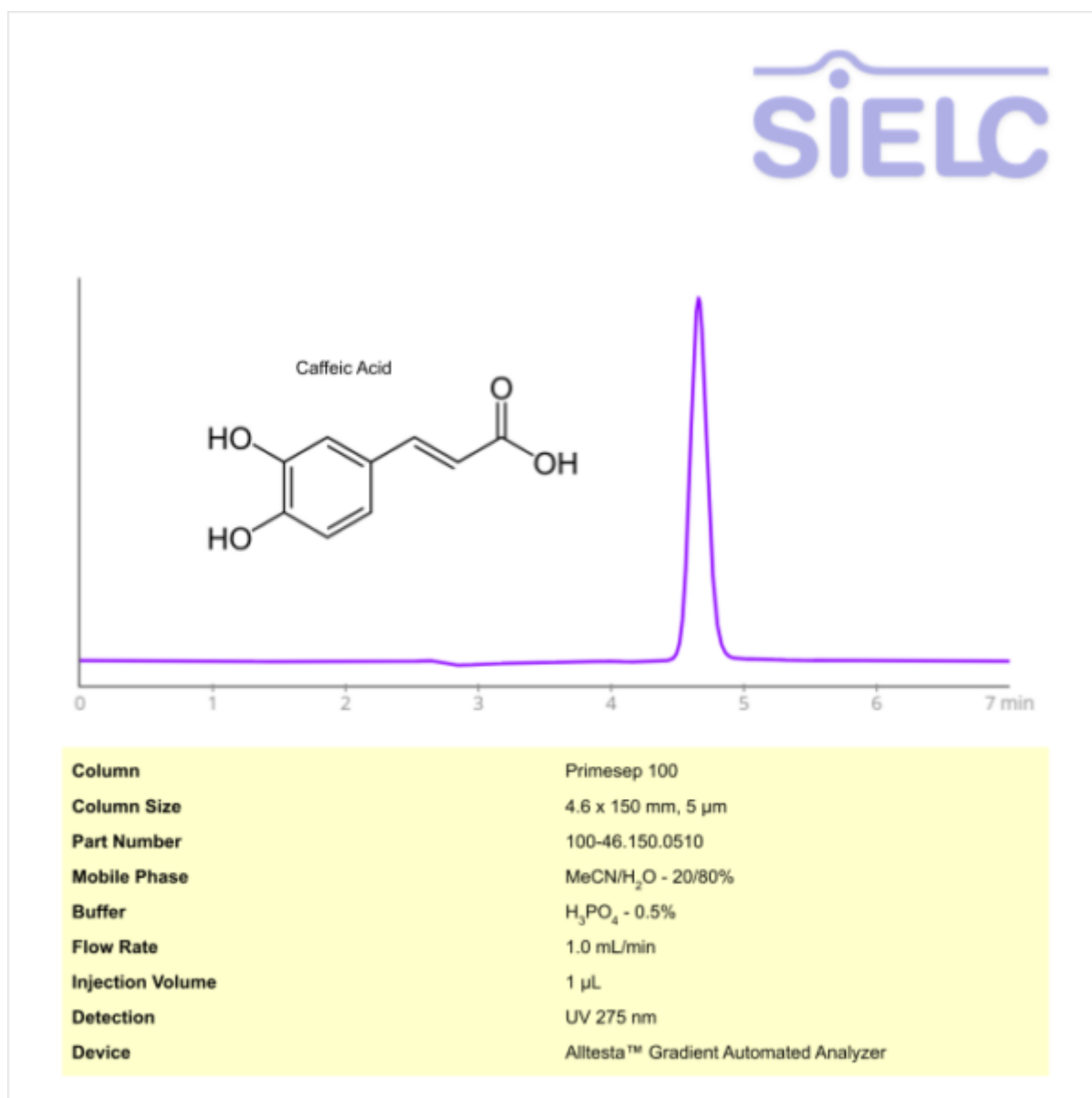


HPLC Method for Analysis of Caffeic Acid on Primesep 100 Column on Alltesta™

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

Chromatogram



Description

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

Caffeic acid is an organic compound with the formula $(HO)_2C_6H_3CH=CHCO_2H$. It plays a key role in scavenging reactive oxygen species (ROS) that are generated during energy metabolism. Caffeic acid is an active ingredient in caffeol, which is a photographic developer made from instant coffee. Pharmacologically, it is used as an antioxidant in vitro and also in vivo. It also shows immunomodulatory and anti-inflammatory activity. You can find detailed UV spectra of Caffeic acid and information about its various lambda maxima by visiting the following link.

Caffeic acid 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 ammonium formate as a buffer. Detection is performed using UV.

Method Parameters

Mobile Phase	MeCN -20/80%
Buffer	H3PO4– 0.5%
Flow Rate	1.0 mL/min
Detection	UV 275 nm
Class of Compounds	Acid
Analyzing Compounds	Caffeic acid

HPLC Column Used

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

[Order this column at hplc-shop.de →](#)