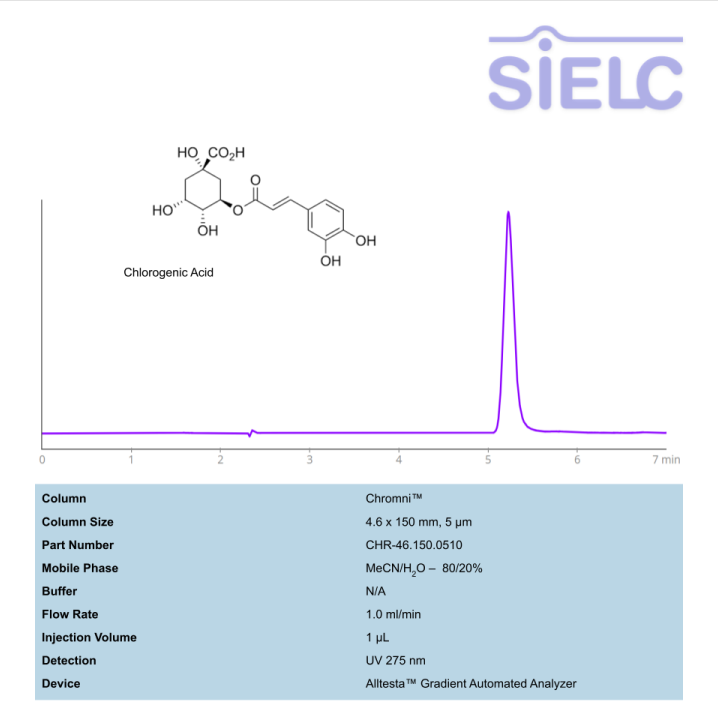
HPLC Method for Analysis of Chlorogenic Acid on Chromni™ Column on Alltesta™



Column	Chromni™
Column Size	4.6 x 150 mm, 5 µm
Part Number	CHR-46.150.0510
Mobile Phase	MeCN/H_2O – 80/20%
Buffer	N/A
Flow Rate	1.0 ml/min
Injection Volume	1 µL
Detection	UV 275 nm
Device	Alltesta™ Gradient Automated Analyzer

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

Chlorogenic acid is a natural compound that belongs to the polyphenol family, which is abundant in various plants. It is particularly prevalent in coffee beans, fruits, vegetables, and whole grains. One of its primary dietary sources is coffee, where it is found in significant amounts. It is well known for it's antioxidant properties, which means it can help neutralize free radicals in the body. Free radicals are molecules that can damage cells and contribute to aging and various diseases. Evidence suggests that chlorogenic acid may have a positive impact on blood sugar levels. It may help regulate glucose metabolism, making it of interest in managing diabetes and insulin resistance. You can find detailed UV spectra of Chlorogenic acid and information about its various lambda maxima by visiting the following link.

Chlorogenic acid can be retained and analyzed using the Chromni 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

Column	Chromni, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 80%
Buffer	Ammonium Formate
Flow Rate	1.0 mL/min
Detection	UV 275 nm

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Quelle: https://sielc.com/hplc-method-for-analysis-of-chlorogenic-acid