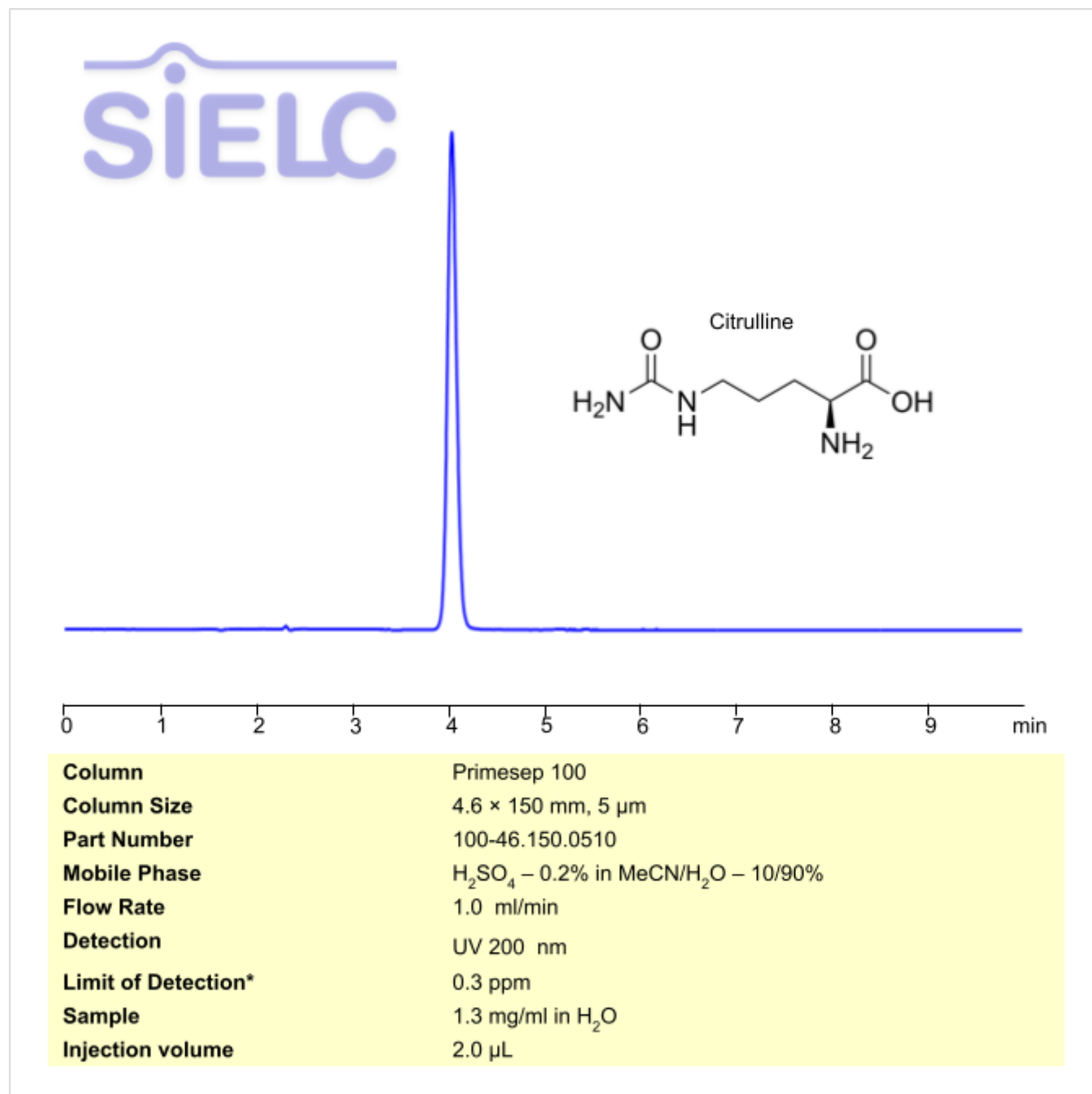


HPLC Method for Analysis of Citrulline on Primesep 100 Column

<https://sielc.com/hplc-method-for-citrulline>

Chromatogram



Description

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

Citrulline is an alpha-amino acid with the chemical formula C₆H₁₃N₃O₃. It is a key intermediate in the urea cycle. It can be derived from a variety of sources, such as arginine, ornithine, and asymmetric dimethylarginine. Commercially, it is used as a dietary supplement as L-citrulline boosts the production of nitric oxide, which helps with arterial function.

Citrulline can be retained and analyzed using the Primesep 100 stationary phase column. The analysis utilizes a gradient method with a simple mobile phase consisting of water and acetonitrile (MeCN) buffer. Detection is performed using UV.

Method Parameters

Mobile Phase	H2SO4 – 0.1%
Buffer	MeCN/H2O – 10/90%
Flow Rate	1.0 mL/min
Detection	UV 200 nm
LOD*	0.3 ppm
Class of Compounds	Amino Acid
Analyzing Compounds	Citrulline

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)