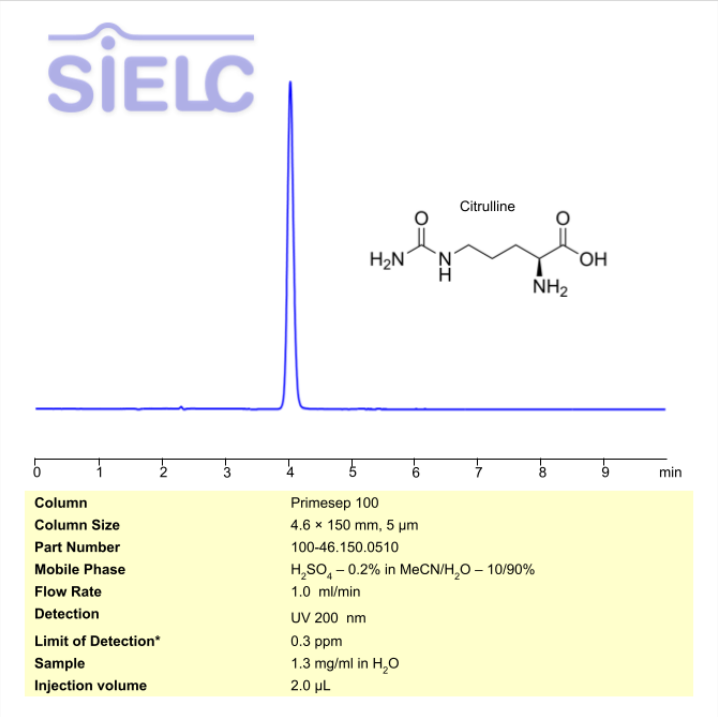
HPLC Method for Analysis of Citrulline on Primesep 100 Column



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 supplemant as L-citrulline boots 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

Column	Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	H2SO4 – 0.1%
Buffer	MeCN/H2O – 10/90%
Flow Rate	1.0 mL/min
Detection	UV 200 nm

Quelle: https://sielc.com/hplc-method-for-citrulline