HPLC Method for Analysis of Kynurenine on Primesep 100 Column

Separation type: Liquid Chromatography Mixed-mode SIELC Technologies

Kynurenine is a key metabolite in the tryptophan catabolic pathway, often referred to as the kynurenine pathway. This pathway is responsible for breaking down the essential amino acid tryptophan into several bioactive compounds.

Kynurenine can be retained, separated and analyzed using a Primesep 100 mixed-mode stationary phase column. The analysis employs an isocratic method with a simple mobile phase comprising water, acetonitrile (MeCN), and sulfuric acid as a buffer. This method allows for detection using UV 200 nm.

You can find detailed UV spectra of Kynurenine and information about its various lambda maxima by visiting the following link .

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 250 nm
Injection Volume	1 µl

Quelle: https://sielc.com/hplc-method-kynurenine