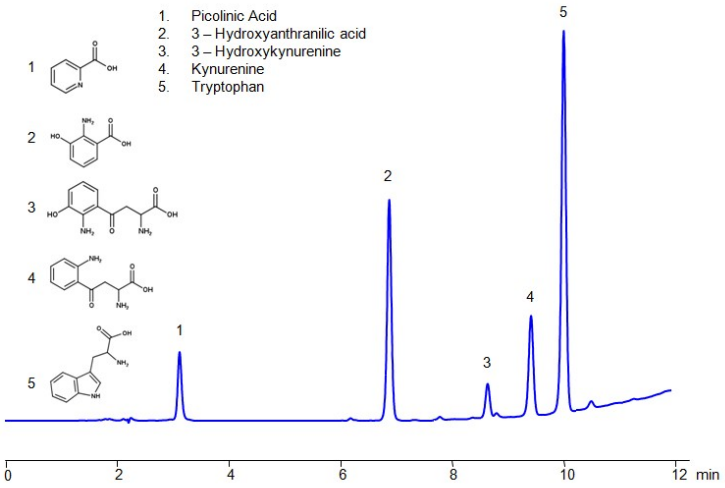
HPLC Method for Separation of a Mixture of Tryptophan and its Catabolites on Primesep 100 Column



Column:	Primesep 100
Column size:	4.6× 150 mm, 5 µm
Column part number:	100 - 46.150.0510
Mobile phase:	Gradient MeCN 5-50% in 10 min, with 2 min hold afterwards
Buffer:	Gradient H_2SO_4 from 0.1-0.2% in 10 min, with 2 min hold afterwards
Flow rate:	1.0 mL/min
Detection:	UV 220 nm

Separation type: Liquid Chromatography Mixed-mode

Tryptophan and its catabolites participate in several biological pathways, having roles in protein synthesis, serving as precursors to bioactive molecules, and influencing several physiological processes. Here's an overview considering a mixture of tryptophan and its catabolites:

Tryptophan and its Catabolites can be retained, separated and analyzed on a Primesep 100 mixed-mode stationary phase column using an gradient analytical method with a simple mobile phase of water, Acetonitrile (MeCN), and a sulfuric acid as a buffer. This analysis method can be detected using UV at 220 nm.

Method Parameters

Column	Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	Gradient MeCN5-50% in 10 min, with 2 min hold afterwards
Buffer	Gradient H2SO4from 0.1-0.2% in 10 min, with 2 min hold afterwards
Flow Rate	1.0 mL/min
Detection	UV 220 nm

Quelle: https://sielc.com/hplc-determination-of-tryptophan-catabolites

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