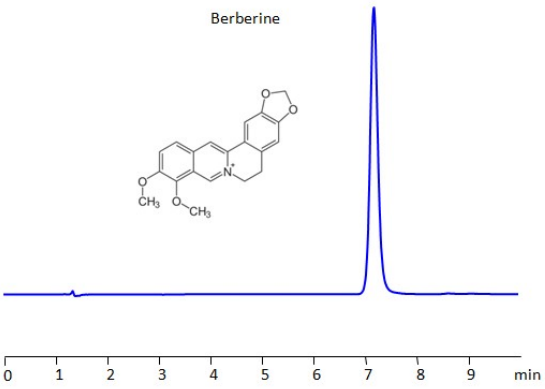
HPLC Method for Analysis of Berberine on Primesep B Column



Column:	Primesep B
Column size:	3.2 × 100 mm, 5 µm
Column part number:	B-32.100.0510
Mobile phase:	Gradient MeCN 5-20%, 10 min
Buffer:	Ammonium formate pH 3.0 – 40 mM
Flow rate:	0.5 mL/min
Injection volume:	2µl
Detection:	UV 266 nm
LOD:	2 ppb

Berberine is a naturally occurring alkaloid found in several plants, including the roots, rhizomes, and stem bark of plants such as Berberis species (barberry), Coptis chinensis (goldthread), and Hydrastis canadensis (goldenseal).

Biological Activities:

Berberine can be retained, and analyzed using a Primesep B mixed-mode stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water, acetonitrile (MeCN), and sulfuric acid as a buffer. Detection is achieved using UV at 266 nm

Method Parameters

Column	Primesep B, 3.2 x 100 mm, 5 µm, 100 Å, dual ended
Mobile Phase	Gradient MeCN – 5-20%, 10 min
Buffer	Ammonium formate pH 3.0 – 40 mM
Flow Rate	0.5 mL/min
Detection	λ max 230, 266, 348, 431 nm
Injection Volume	1 µl

Quelle: https://sielc.com/hplc-method-for-analysis-berberine