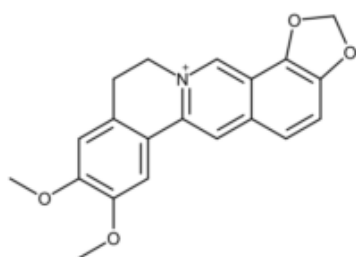


Alltesta HPLC Method for Analysis of Epiberberine and Berberine on Primesep B Column

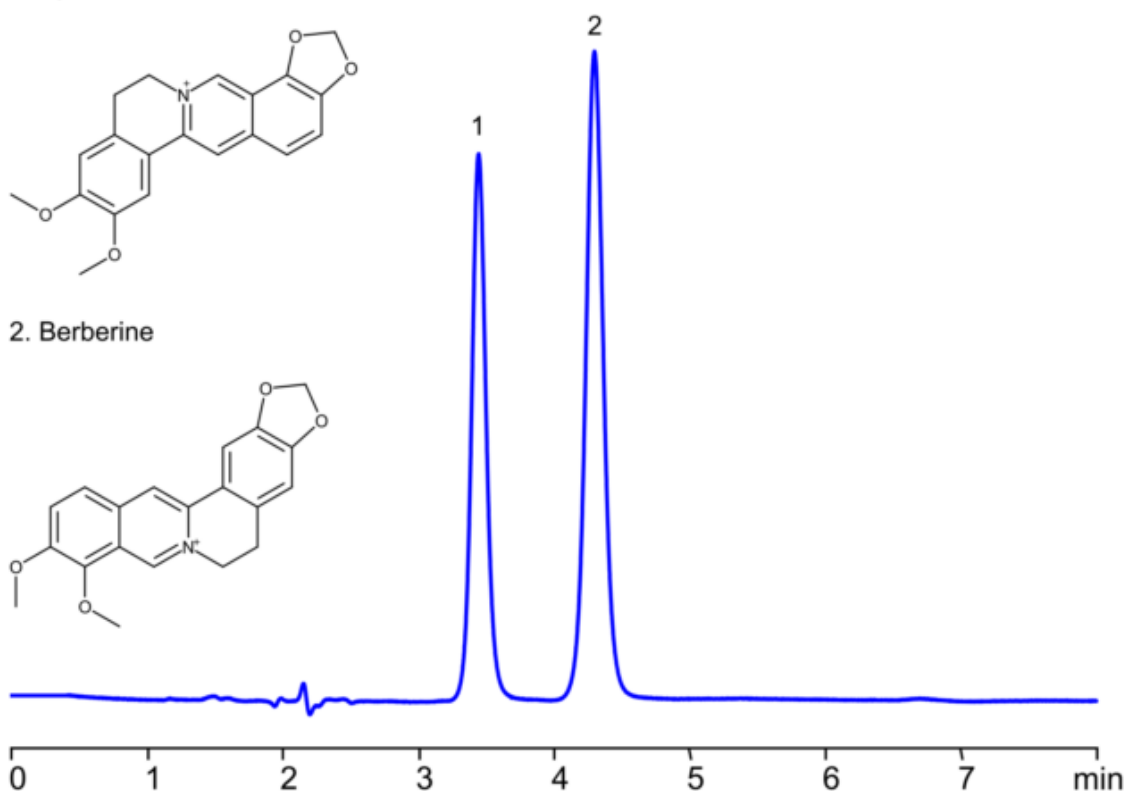
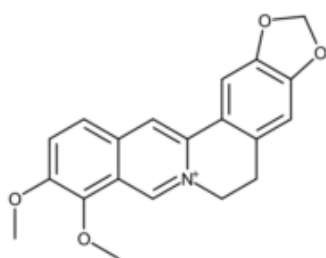
<https://sielc.com/alltesta-hplc-method-for-analysis-epiberberine-berberine>

Chromatogram

1. Epiberberine



2. Berberine



Column:	Primesep B
Column size:	3.2 × 150 mm, 5 µm
Column part number:	B-32.150.0510
Mobile phase:	MeCN/H ₂ O - 20/80%
Buffer:	H ₂ SO ₄ - 0.1%
Flow rate	0.5 mL/min
Detection:	UV 275 nm

Description

· HPLC Method for Analysis of Berberine , Epiberberine on Primesep B Column by SIELC Technologies

Epiberberine and Berberine are both natural alkaloids found in various medicinal plants, particularly in the Berberis species. They share a similar chemical structure and biological properties but have distinct effects.

Berberine is well-known for its antimicrobial, anti-inflammatory, and metabolic benefits, including blood sugar regulation and cholesterol reduction. It is commonly used for diabetes, gut health, and cardiovascular support.

Epiberberine is a structural isomer of berberine and is believed to enhance its bioavailability and metabolic effects. Research suggests it may contribute to glucose metabolism and lipid regulation, making it a potential complementary compound in berberine-based supplements.

Epiberberine and berberine can be retained and analyzed using a Primesep B mixed-mode stationary phase column. The analysis employs an isocratic method with a simple mobile phase composed of water, acetonitrile (MeCN), and sulfuric acid as a buffer. Detection is performed using UV at 275 nm.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 20/80%
Buffer	H ₂ SO ₄ -0.1%
Flow Rate	0.5 ml/min
Detection	UV 275 nm
Class of Compounds	Isoquinoline Alkaloid
Analyzing Compounds	Berberine, Epiberberine

HPLC Column Used

Primesep B, 3.2 x 150 mm, 5 µm, 100 Å, dual ended

[Order this column at hplc-shop.de →](https://www.hplc-shop.de)