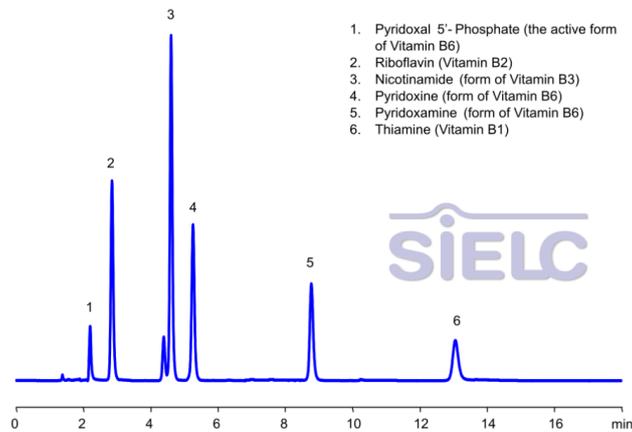


HPLC Method for Analysis of Water-Soluble Vitamins (B1, B2, B3, B6) on Primesep 100 Column



Column:	Primesep 100
Column size:	4.6 x 150 mm, 5 µm
Column part number:	100-46.150.0510
Mobile phase:	MeCN/H ₂ O - 10/90%
Buffer:	Gradient H ₂ SO ₄ 0.1 - 0.5% in 10 min, 4 min hold
Flow rate:	1.0 ml/min
Detection:	UV 270 nm
Concentration:	1.0 mg/ml

Separation type: Liquid Chromatography Mixed-mode SIELC Technologies

Water-Soluble Vitamins (B1, B2, B3, B6) can be retained, separated and analyzed using a Primesep 100 mixed-mode stationary phase column. The analysis employs an gradient method with a simple mobile phase comprising water, acetonitrile (MeCN), and sulfuric acid as a buffer. This method allows for detection using UV 300 nm.

You can find detailed UV spectra of Vitamin B1 (Thiamine) , Vitamin B2 (Riboflavin) , Nicotinamide , Vitamin B6 (Pyridoxine) , Pyridoxamine , Pyridoxal Phosphate and information about its various lambda maxima by visiting the following links: Vitamins (B1 , B2 , B3 , B6)

Method Parameters

Column	Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 10%
Buffer	Gradient H ₂ SO ₄ -0.1-0.5% in 10 min
Flow Rate	1.0 mL/min
Detection	UV 270 nm

Quelle: <https://sielc.com/hplc-method-vitamins-b>