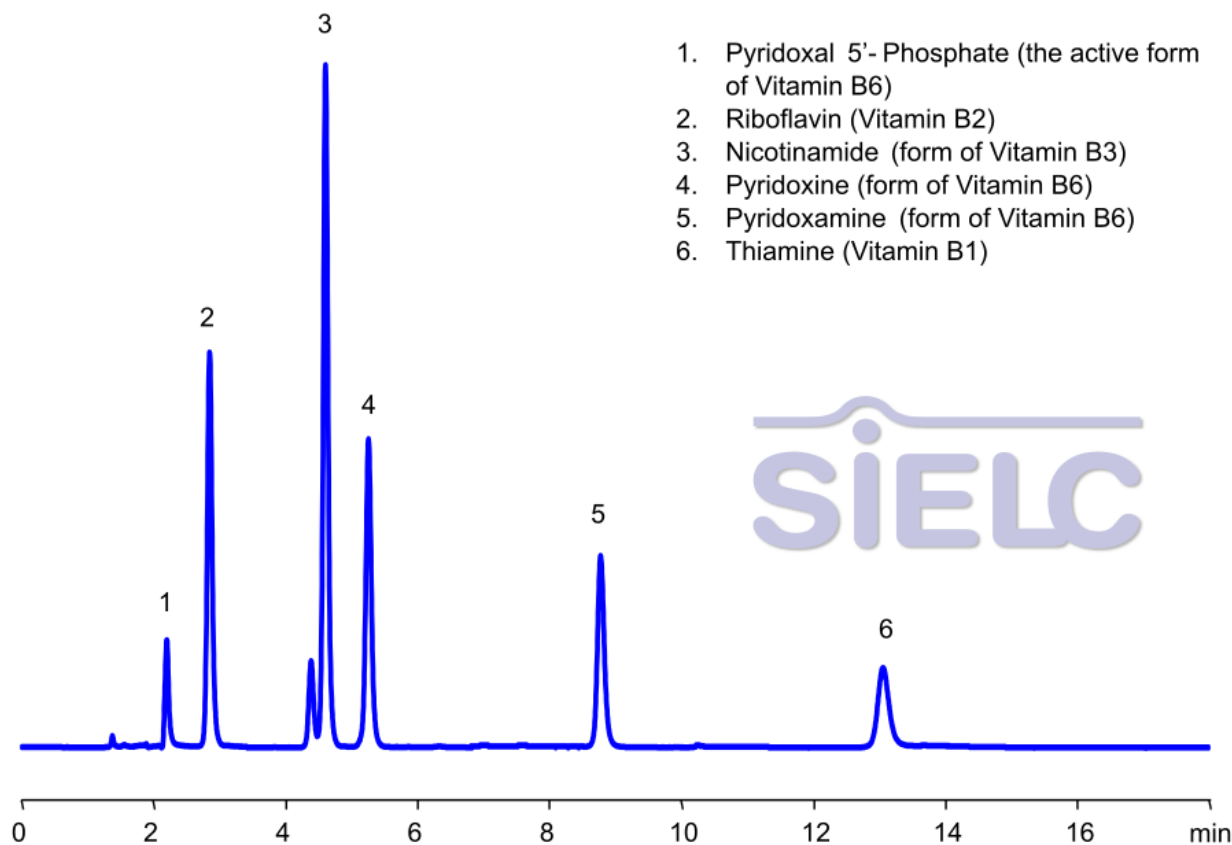


# HPLC Method for Analysis of Water-Soluble Vitamins (B1, B2, B3, B6) on Primesep 100 Column

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

## Chromatogram



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

## Description

· Separation type: Liquid Chromatography Mixed-mode SIELC Technologies

HPLC Method for Analysis of Vitamin B1 (Thiamine) , Vitamin B2 (Riboflavin) , Nicotinamide , Vitamin B6 (Pyridoxine) , Pyridoxamine , Pyridoxal Phosphate on Primesep 100 Column

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

<b>Mobile Phase</b>	MeCN – 10%
<b>Buffer</b>	Gradient H2SO4 -0.1-0.5% in 10 min
<b>Flow Rate</b>	1.0 ml/min
<b>Detection</b>	UV 270 nm
<b>Class of Compounds</b>	Water-Soluble Vitamins (B1, B2, B3, B6)
<b>Analyzing Compounds</b>	Vitamin B1 (Thiamine), Vitamin B2 (Riboflavin), Nicotinamide, Vitamin B6 (Pyridoxine), Pyridoxamine, Pyridoxal Phosphate

#### HPLC Column Used

**Primesep 100, 4.6 x 150 mm, 5 µm, 100 A, dual ended**

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