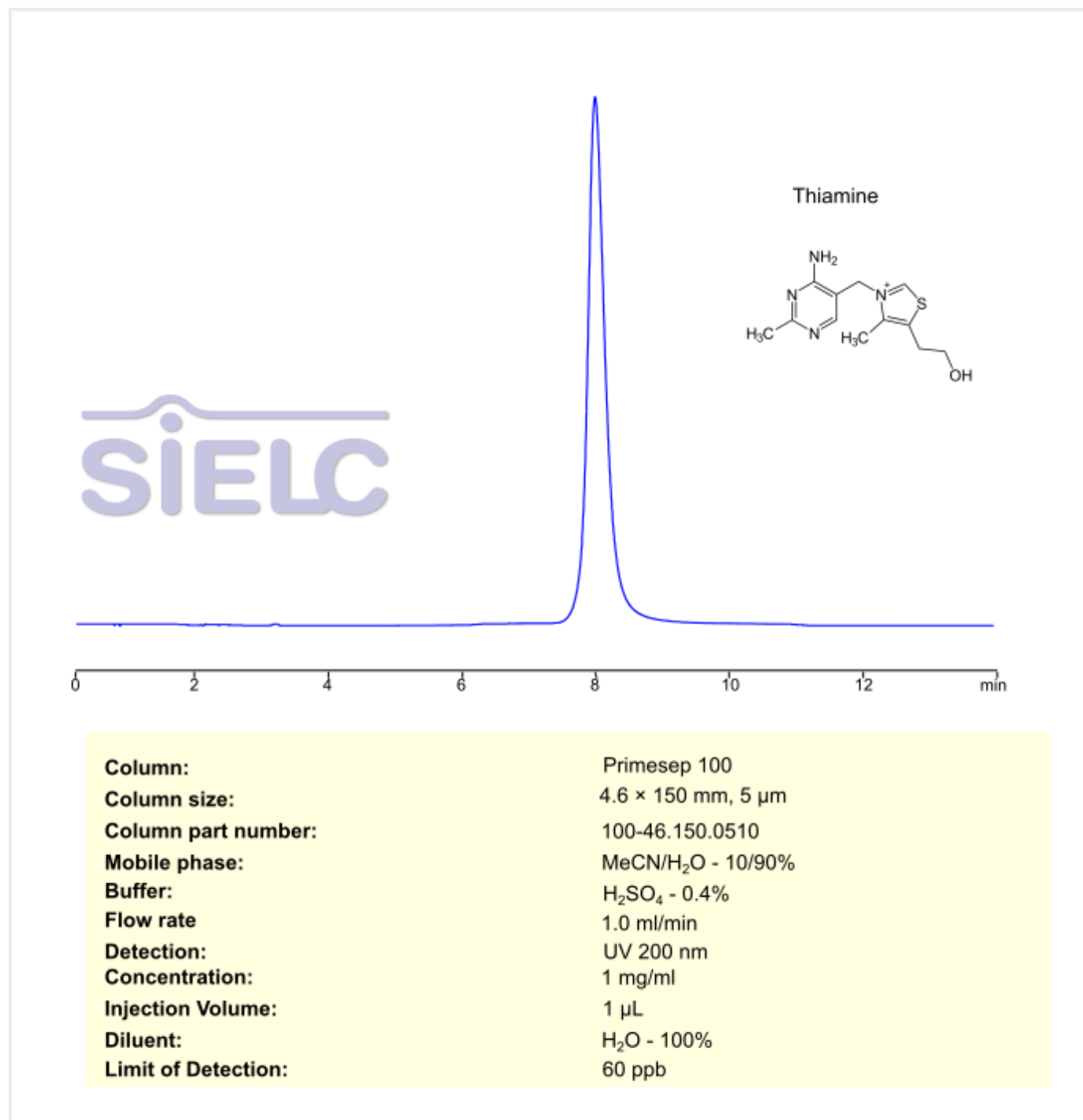


HPLC Method for Analysis of Thiamine on Primesep 100 Column

<https://sielc.com/hplc-method-thiamine>

Chromatogram



Description

· Separation type: Liquid Chromatography Mixed-mode SIELC Technologies · HPLC Method for Analysis of Vitamin B1 (Thiamine) on Primesep 100 Column

Thiamine, also known as vitamin B1, is an essential nutrient that plays a crucial role in energy metabolism and the proper functioning of the nervous system. It helps the body convert carbohydrates into energy and is vital for the growth, development, and function of cells.

Vitamin B1 (Thiamine) can be retained, separated and analyzed using a Primesep 100 mixed-mode stationary phase column. The analysis employs an isocratic method with a simple mobile phase comprising water, acetonitrile (MeCN), and sulfuric acid as a buffer. This method allows for detection using UV 250 nm.

You can find detailed UV spectra of Vitamin B1 (Thiamine) and information about its various lambda maxima by visiting the following link .

Method Parameters

Mobile Phase	MeCN – 10%
Buffer	H2SO4 -0.4%
Flow Rate	1.0 ml/min
Detection	UV 250 nm
Samples	1 mg/ml in H2O
Injection volume	1 µl
LOD*	60 ppb (250 nm)
Class of Compounds	Vitamins
Analyzing Compounds	Vitamin B1 (Thiamine)

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)