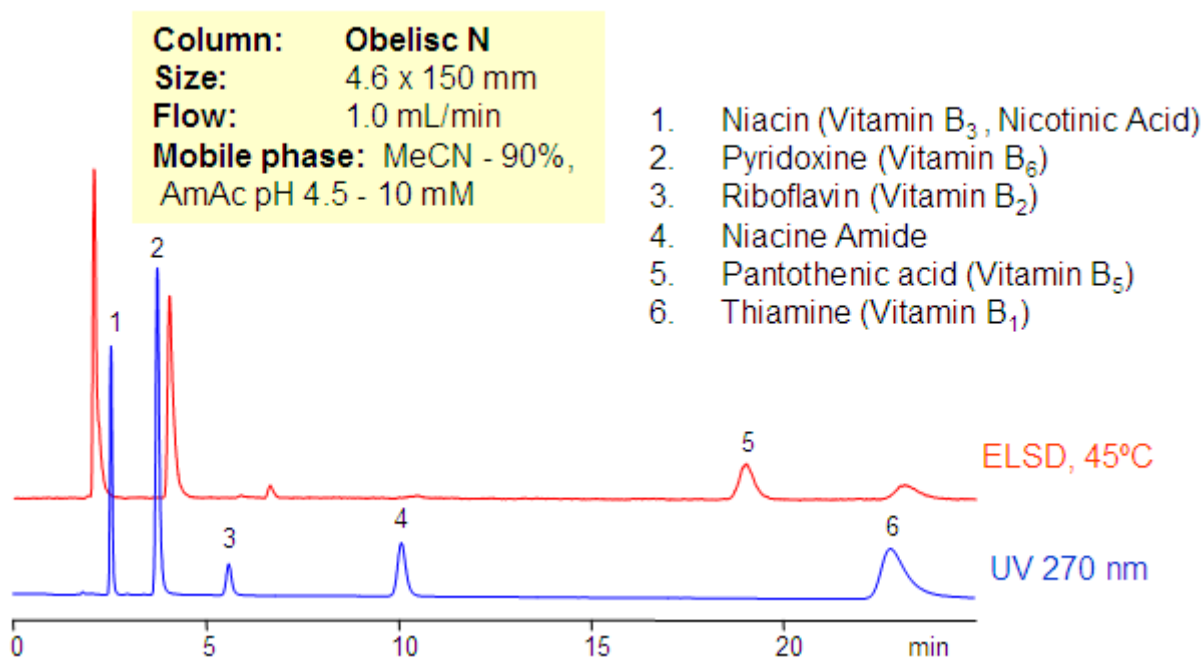


HPLC Method for Separation of Vitamins Group B such as Nicotinic Acid, Pyridoxine, Niacinamide, Pantothenic Acid, Riboflavin on Obelisc N Column

<https://sielc.com/Application-HILIC-Separation-of-Vitamins-Group-B>

Chromatogram



Description

Separation of vitamins group B is achieved on Obelisc N column in HILIC mixed-mode. Vitamins of this group are different in polarity and ionic properties. Retention and separation is achieved by optimization of amount of ACN, buffer and buffer pH. Combination of UV and ELSD detection is used to monitor HPLC separation. B vitamins are water-soluble vitamins that play an important role in cell metabolism. Supplements containing all six are generally referred to as a vitamin B complex. Individual B vitamin supplements are referred to by the specific name of each vitamin. This method can be used to analyze individual B vitamins as well as vitamin B complex. Isolation of impurities as well as degradation products is possible by preparative chromatography.

Method Parameters

Mobile Phase	MeCN/H ₂ O
Buffer	AmAC pH 4.5 – 10 mM
Flow Rate	1.0 ml/min
Detection	UV, 270 nm, ELSD
Class of Compounds	Drug, Vitamin B [■] , Hydrophobic, Ionizable
Analyzing Compounds	Pyridoxine, Niacinamide, Pantothenic acid, Riboflavin

HPLC Column Used

Obelisc N , 4.6x150 mm, 5 µm, 100A

[Order this column at hplc-shop.de →](#)