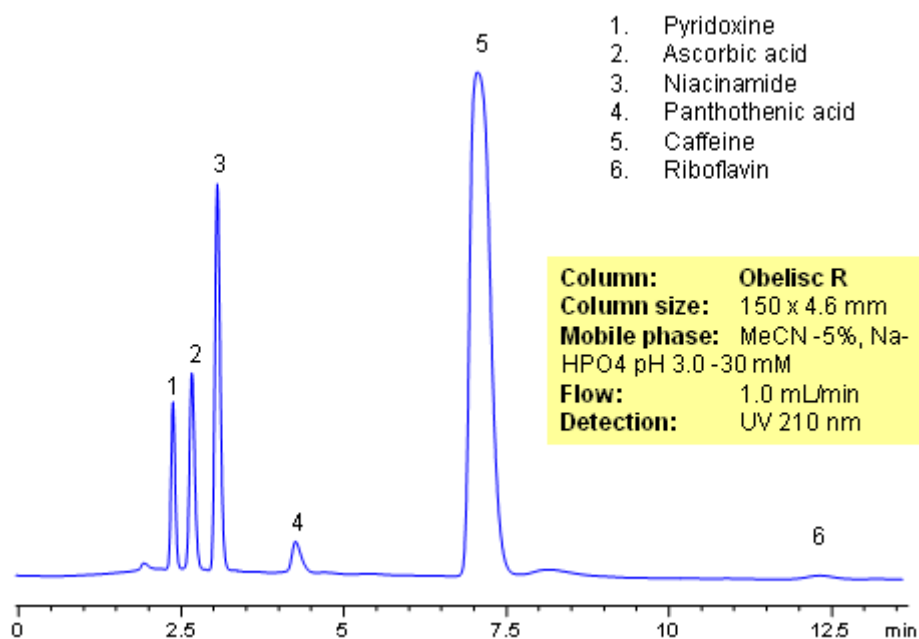


HPLC Analysis of Active Drug in a Formulation

<https://sielc.com/Application-HPLC-Analysis-of-Active-Drug-in-A-Formulation>

Chromatogram



Description

HPLC method for separation of active ingredients of drug/supplemental composition was developed on an Obelisc R trimodal HPLC column. Compounds are retained by combination of reversed-phase, cation-exchange and anion-exchange mechanisms. Compounds are well separated, and method can be used for quantitation of pyridoxine, ascorbic acid, niacinamide, pantothenic acid, caffeine and riboflavin in a mixture or as separate compounds in various complex mixtures. Various detection techniques can be applied for quantitation (ELSD, UV, LC/MS, Corona). This HPLC method can be adopted as general approach for analysis of active drug components in various formulations.

Method Parameters

Mobile Phase	MeCN/H ₂ O -5/95%
Buffer	NaHPO ₄ pH 3.0 – 30 mM
Flow Rate	1.0 ml/min
Detection	UV, 210 nm
Class of Compounds	Drug, Vitamin B ₆ , Hydrophobic, Ionizable
Analyzing Compounds	Pyridoxine, Ascorbic acid, Niacinamide, Pantothenic acid, Caffeine, Riboflavin

HPLC Column Used

Obelisc R , 4.6x150 mm, 5 µm, 100A

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