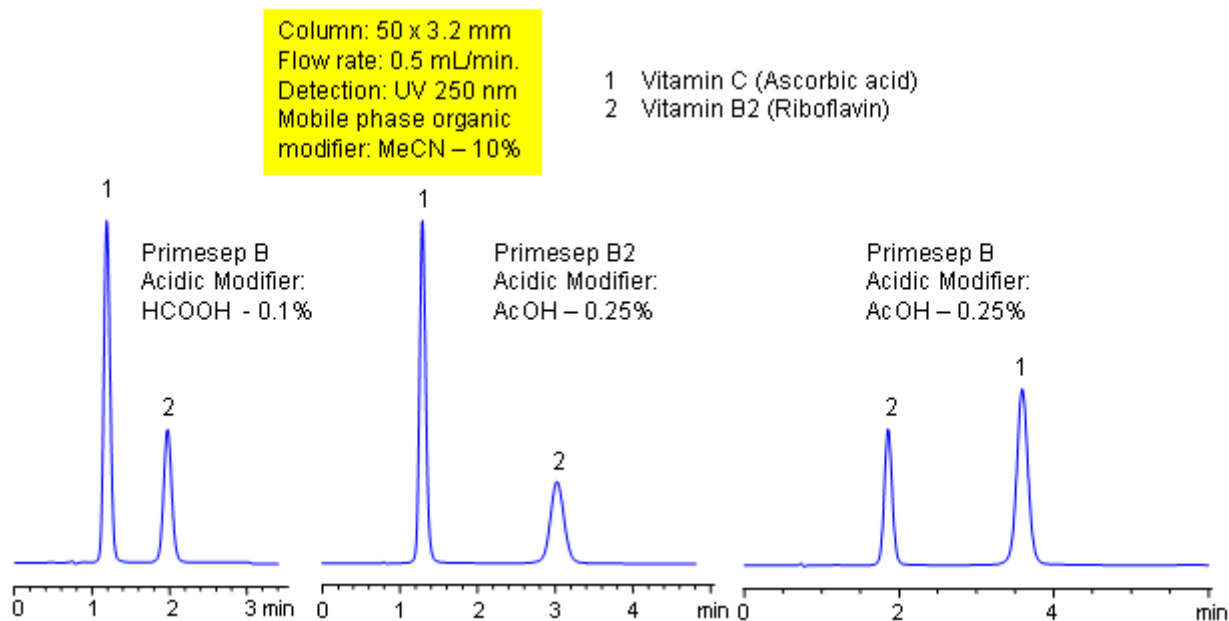


HPLC Separation of Two Vitamins: Different Polarity – Isocratic Methods

<https://sielc.com/Application-HPLC-Separation-of-Two-Vitamins-Different-Polarity-Isocratic-Methods>

Chromatogram



Description

Primesep B and B2 columns separate Vitamins C (ascorbic acid) and B2 (riboflavin) with tunable selectivity. Peak order reversal is exhibited on these two columns with the same mobile phases due to their different polarity. The HPLC separation uses a mobile phase of water, acetonitrile (MeCN, ACN) and either formic or acetic acid (HOAc) with UV detection at 250 nm.

Method Parameters

Mobile Phase	MeCN/H2O
Buffer	Formic Acid, Acetic Acid
Flow Rate	0.5 ml/min
Detection	UV, 250 nm
Class of Compounds	Drug, Vitamin B ² , Hydrophobic, Ionizable
Analyzing Compounds	Vitamins C (ascorbic acid) and B2 (riboflavin)

HPLC Column Used

Primesep B, Primesep B2 , 3.2x50 mm, 5 µm, 100A