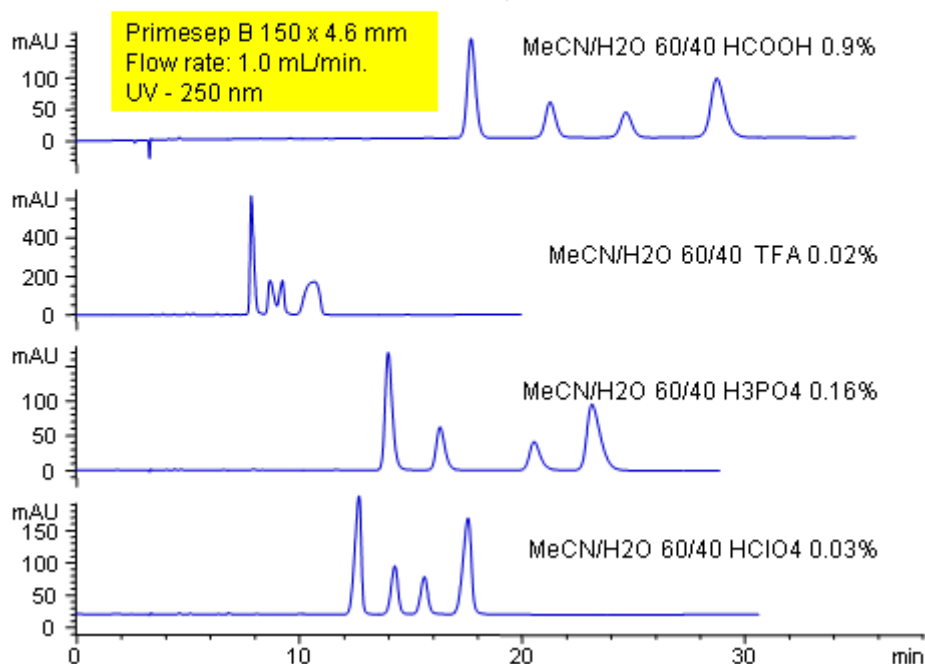


Separation of Aromatic Carboxylic Acids by Mixed-Mode HPLC

<https://sielc.com/Application-Separation-of-Aromatic-Carboxylic-Acids-By-Mixed-Mode-HPLC>

Chromatogram



Description

This application on Primesep B demonstrates the easy tuning of methods developed on Primesep columns. Aromatic carboxylic acids are easily separated and retention times can be shifted by simply changing the mobile phase modifier. Switching between formic, trifluoroacetic acid, phosphoric, and perchloric acids in a constant ratio of acetonitrile and water changes elution times, which is not possible on reversed-phase C18 columns. This effect is due to both the change in mobile phase pH and the counter ion that interacts with the basic functional group on the column. Mass spec compatible mobile phases of water, acetonitrile (MeCN, ACN) and, formic or trifluoroacetic acid (TFA) can be chosen for LC/MS applications.

Method Parameters

Mobile Phase	MeCN
Buffer	TFA, H ₃ PO ₄ , HClO ₄ , FA
Flow Rate	1.0 ml/min
Detection	UV, 250 nm
Class of Compounds	Acid, Hydrophilic, Ionizable, Vitamin, Supplements
Analyzing Compounds	Carboxylic Acids

HPLC Column Used

Primesep B, 4.6×150 mm, 5 µm, 100A

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