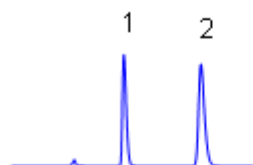


HILIC Separation of Aromatic Acids

<https://sielc.com/Application-HILIC-Separation-of-Aromatic-Acids>

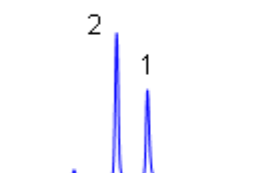
Chromatogram

Column: Obelisc N
Size: 4.6 x 150 mm
Flow: 1.0 mL/min
Detection: UV 270 nm

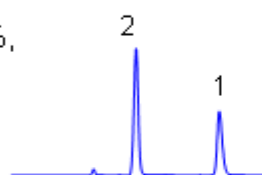


Mobile phase: MeCN 70%,
5 mM AmAc pH 4.0

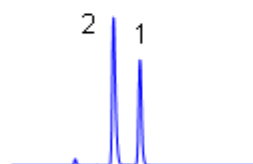
1. Benzoic acid
2. Naphthalenesulfonic acid



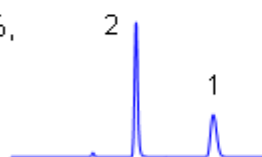
Mobile phase: MeCN 90%,
5 mM AmAc pH 4.0



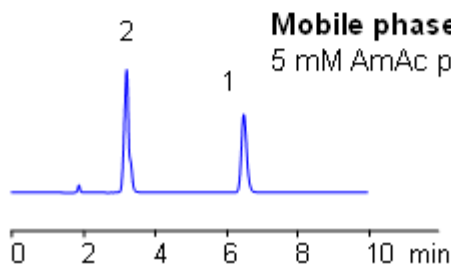
Mobile phase: MeCN 90%,
5 mM AmAc pH 5.0



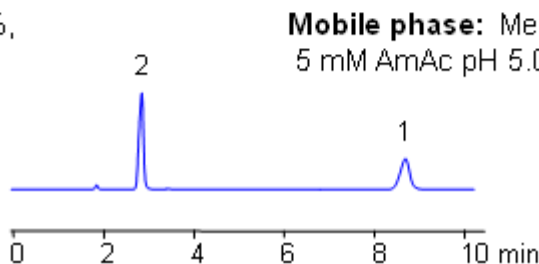
Mobile phase: MeCN 90%,
10 mM AmAc pH 4.0



Mobile phase: MeCN 90%,
10 mM AmAc pH 5.0



Mobile phase: MeCN 95%,
5 mM AmAc pH 4.0



Mobile phase: MeCN 95%,
5 mM AmAc pH 5.0

Description

Obelisc N column are used for separation of weak and strong organic acids in mixed-mode HILIC. Benzoic and naphthalenesulfonic acids are retained based on polar interaction mode and anion-exchange mode. Order of elution and retention pattern can be changed by modifying mobile phase. PH of the mobile phase changes ionization state of stationary phase and analytes. Fast quantitation method for benzoic and naphthalenesulfonic acid can be developed using UV, ELSD or LC/MS detection. HPLC Method can be used for mixture of organic and inorganic strong and weak acids.

Method Parameters

Mobile Phase	MeCN/H ₂ O
Buffer	AmAc
Flow Rate	1.0 ml/min
Detection	UV, 270 nm
Class of Compounds	Acid, Hydrophilic, Ionizable

Analyzing Compounds

Benzoic acid, Naphthalenesulfonic Acid

HPLC Column Used**Obelisc N, 4.6×150 mm, 5 µm, 100A**[Order this column at hplc-shop.de →](http://hplc-shop.de)