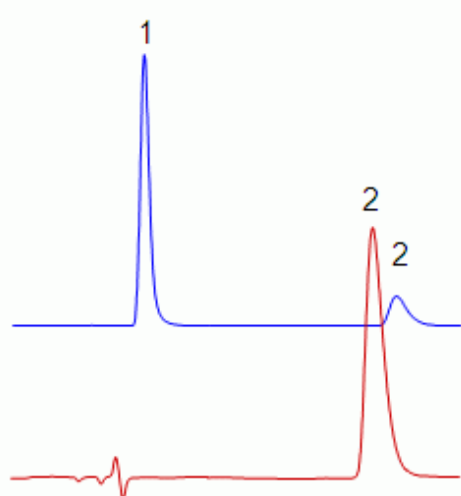


Separation of Maleic and Succinic Acid on Primesep B2 column

<https://sielc.com/Application-Separation-of-Maleic-and-Succinic-Acid-on-Primesep-B2-column>

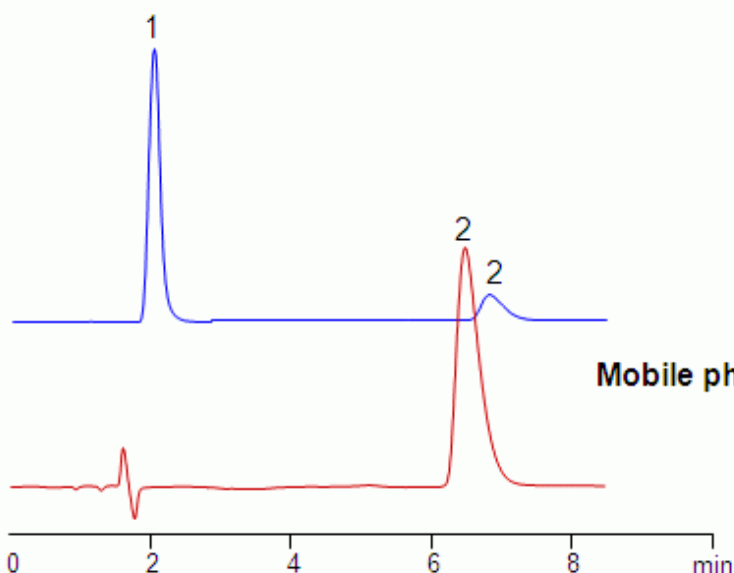
Chromatogram



1. Succinic acid
2. Maleic acid

Column: Primesep B2
Size: 4.6 x 50mm
Flow: 1.0 mL/min
Detection: UV 230 nm, ELSD

Mobile phase: MeCN 10%, 15 mM AmFm pH 3.0



Mobile phase: MeCN 10%, 10 mM AmFm pH 3.0

chr_303.gif

Description

Organic and inorganic acids can be retained and separated on mixed-mode columns based on weak reversed-phase and weak/medium anion-exchange mechanisms. Amount of ACN, buffer concentration and buffer pH will affect retention time of organic and inorganic acids. Acids can be monitored by low UV, ELSD or LC/MS. Presence of ions is required to facilitate ion-exchange mechanism. Method can be used as a general approach for analysis of acidic hydrophilic and acidic hydrophobic compounds. Carboxylic acids along with inorganic acid can be retained and separated without ion-pairing reagent.

Method Parameters

Mobile Phase

MeCN/H₂O – 10/90%

Buffer

AmFm pH 3.0

Flow Rate	1.0 ml/min
Detection	ELSD, UV 230nm
Class of Compounds	Acid, Hydrophilic, Ionizable
Analyzing Compounds	Succinic Acid, Maleic Acid

HPLC Column Used

Primesep B2, 4.6x50 mm, 5 µm, 100A

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