

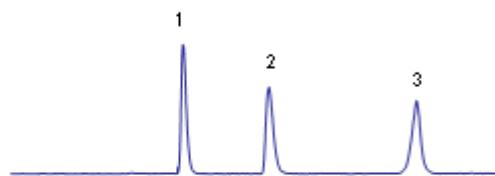
HPLC Separation of Organic Acids in HILIC Mode on Primesep N Column

<https://sielc.com/Application-HPLC-Separation-of-Organic-Acids-in-HILIC-Mode-on-Primesep-N-Column>

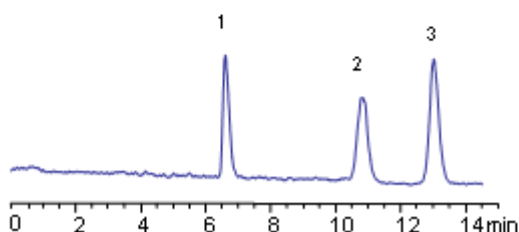
Chromatogram

1. Ascorbic Acid
2. Methylmalonic Acid
3. Succinic Acid

Column: Primesep N
Column size: 150 x 4.6 mm
Flow rate: 1.0 mL/min
Detection: ELSD



Mobile phase:
MeCN -75%
AmAc 15 mM no pH



Mobile phase:
MeCN -70%,
AmAc 60 mM no pH

Description

Ascorbic, methylmalonic and succinic are weak organic acids. Retention of these three acids is achieved on Primesep N column in HILIC mode using acetonitrile/water and ammonium acetate. Compounds are monitored by ELSD. Method can be used for determination of ascorbic acid (Vitamin C), methylmalonic acid and succinic acid in various matrices. Other polar organic acids can be analyzed on this HILIC column.

Method Parameters

Mobile Phase	MeCN/H ₂ O
Buffer	AmAc
Flow Rate	1.0 ml/min
Detection	ELSD
Class of Compounds	Acid, Vitamin B ₁₂ , Hydrophobic, Ionizable
Analyzing Compounds	Ascorbic acid (Vitamin C), Methylmalonic acid, Succinic acid

HPLC Column Used

Primesep N , 4.6x150 mm, 5 µm, 100A