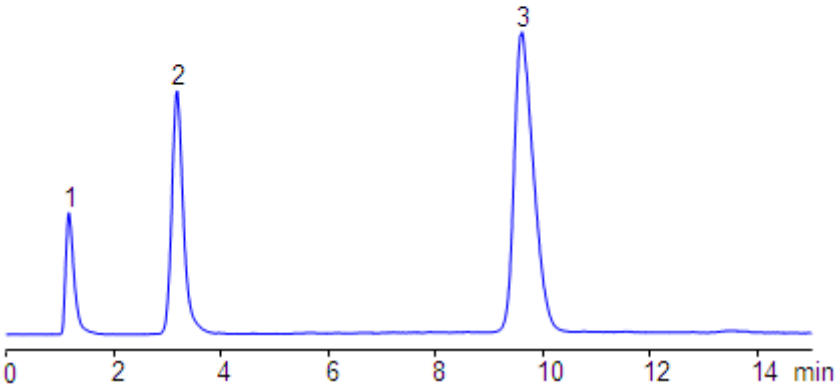
HPLC Separation of Sodium, Dioctyl Sulfosuccinic Acid, and Sulfosuccinic Acid

https://sielc.com/Application-HPLC-Separation-of-Sodium-Dioctyl-Sulfosuccinic-Acid-and-Sulfosuccinic-Acid

Chromatogram

Column: Primesep B4
Mobile phase: MeCN gradient 50-10% in10 min, AmFm pH 3.0 gradient 60-180 mM
Flow: 0.5 mL/min
Size: 3.2 x 50 mM
Detection: ELSD, 50C

1. Sodium
2. Dioctylsulfosuccinic Acid
3. Sulfosuccinic acid



Description

Application Notes: Dioctyl sodium sulfosuccinate is a common component of consumer products and medications. It is also used as emulsifier, wetting, and dispersing agent. It is a highly acidic, and hydrophobic compound. It serves as a starting material for dioctyl sodium sulfonate. Both compounds were retained and separated on Primesep B4 mixed-mode reversed-phase anion-exchange column. The primesep B4 column has C4 carbon chain and it is much less hydrophobic than Primesep D or Primesep B2 column. The low hydrophobicity of the stationary phase is strong enough to provide reversed-phase retention for dioctyl sulfosuccinic acid. This method can be used for quantification of these two compounds in reaction mixtures and formulation. The method is LC/MS and ELSD/CAD compatible.

Application Columns: Primesep B4 · Application compounds: Sodium, Dioctyl Sulfosuccinic Acid, Sulfosuccinic Acid · Detection technique: LC/MS, ELSD/CAD

Method Parameters

Mobile Phase	Gradient MeCN – 10 -50%, 10 min
Buffer	Gradient AmFm pH 3.0- 60-180 mM, 10 min
Flow Rate	1.0 ml/min
Detection	ELSD
Class of Compounds	Acid, Hydrophilic, Ionizable
Analyzing Compounds	Sodium, Dioctyl Sulfosuccinic Acid, Sulfosuccinic Acid

HPLC Column Used

Primesep B4, 3.2×50 mm, 5 µm, 100A

Order this column at hplc-shop.de →