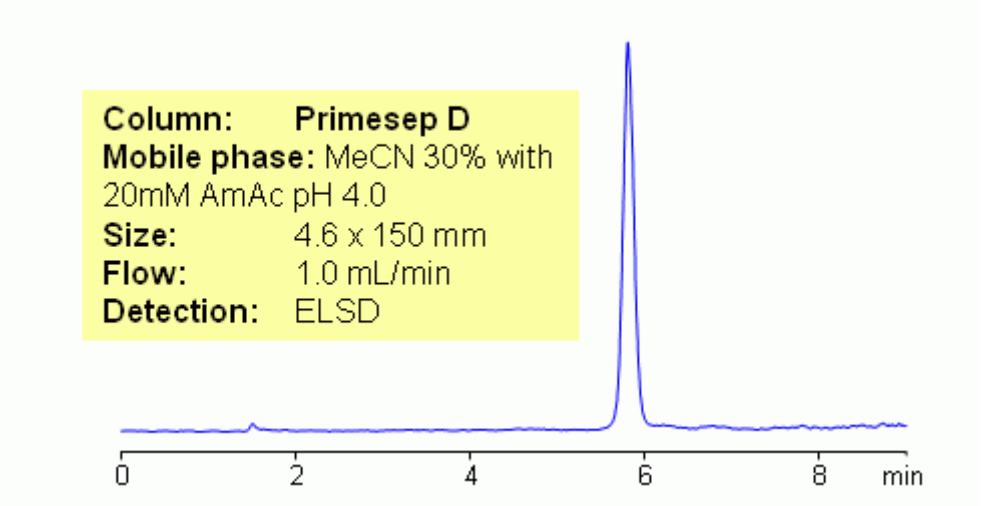
Analysis of Lactic Acid on Primesep D Column

https://sielc.com/Applicatino-Analysis-of-Lactic-Acid-on-Primesep-D-Column

Chromatogram



Description

Lactic acid (milk acid) is a hydrophilic acid which plays important role in many bioprocesses. Lactic acid has a tendency to self-condense to form dimers, trimers and high molecular weight oligomers. Lactic acid and it's oligomers are retained by a combination of weak reversed-phase and weak anion-exchange mechanisms on Primesep D mixed-mode HPLC column. Retention time is controlled by amount of acetonitrile, buffer concentration and buffer pH. Method is compatible with LC/MS and other detection techniques and can be used for analysis of lactic acid in various matrices.

Method Parameters

Mobile Phase	MeCN/H2O – 30/70%
Buffer	AmAc pH 4.0- 20 mM
Flow Rate	1.0 ml/min
Detection	ELSD
Class of Compounds	Acid, Hydrophilic, Ionizable
Analyzing Compounds	Lactic Acid

HPLC Column Used

Primesep D, 4.6×150 mm, 5 µm, 100A

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