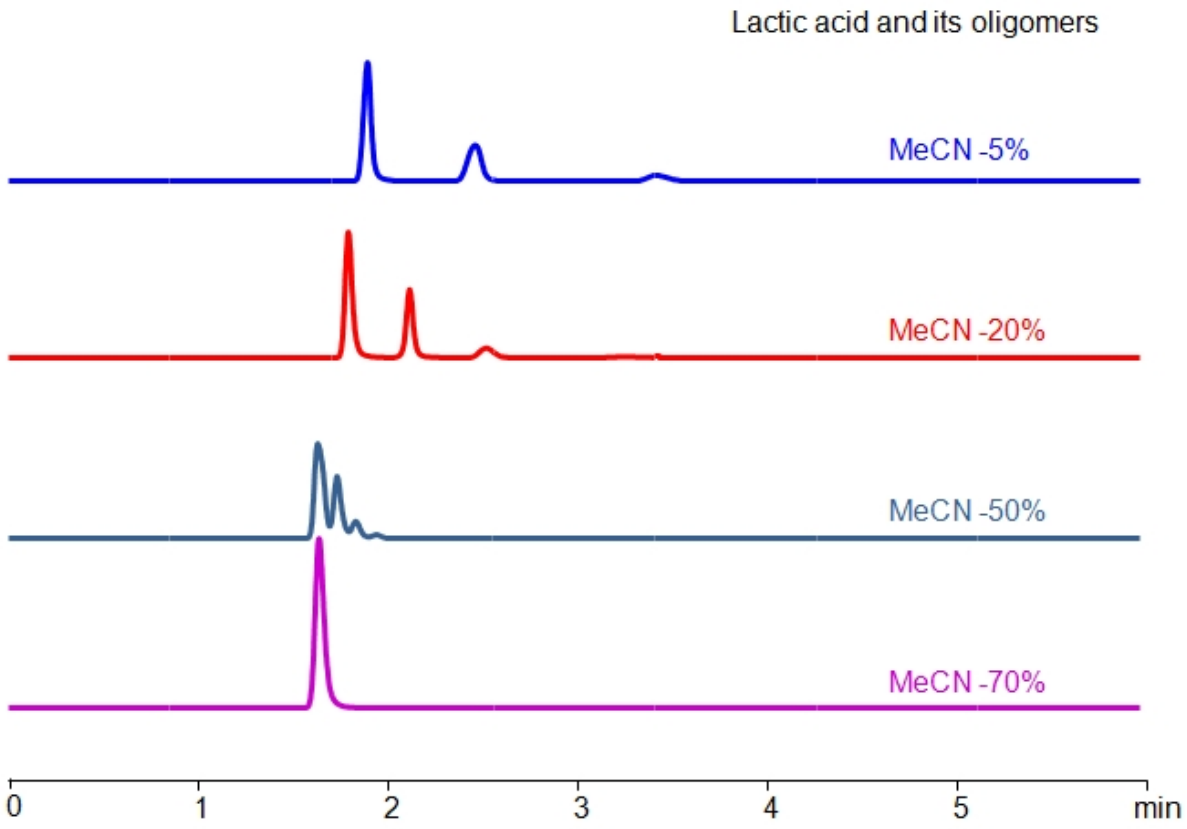
HPLC Determination of Lactic Acid on Newcrom BH Column

https://sielc.com/hplc-determination-of-lactic-acid-on-newcrom-bh-column

Chromatogram



Column:	Newcrom BH
Column size:	4.6 × 150 mm, 5 µm
Mobile phase:	MeCN
Buffer:	HClO4 - 0.1%
Flow rate:	1 mL/min
Detection:	UV 210 nm
Sample :	Lactic acid in H2O

Description

Lactic acid (milk acid) is a natural organic acid that plays an important role in biochemical processes. It has a carboxylic and hydroxy- groups which, upon standing, can react with each other and form dimers, trimers and higher oligomers. Lactic acid is a polar molecule that does not retain on reversed-phase columns. Newcrom BH mixed-mode anion-exchange column is used for the separation of lactic acid and its oligomers by a combination of weak reversed-phase and anion-exchange mechanisms. Lactates can be monitored by low UV, ELSD, CAD or LC/MS.

Method Parameters

Mobile Phase	MeCN/H2O

Buffer	HClO4 – 0.1%
Flow Rate	1 ml/min
Detection	UV 210 nm
Class of Compounds	Acid, Hydrophilic, Ionizable
Analyzing Compounds	Lactic Acid,Lactic Acid Oligomers

HPLC Column Used

Newcrom BH, 4.6 x 150 mm, 5 µm, 100 A, dual ended

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