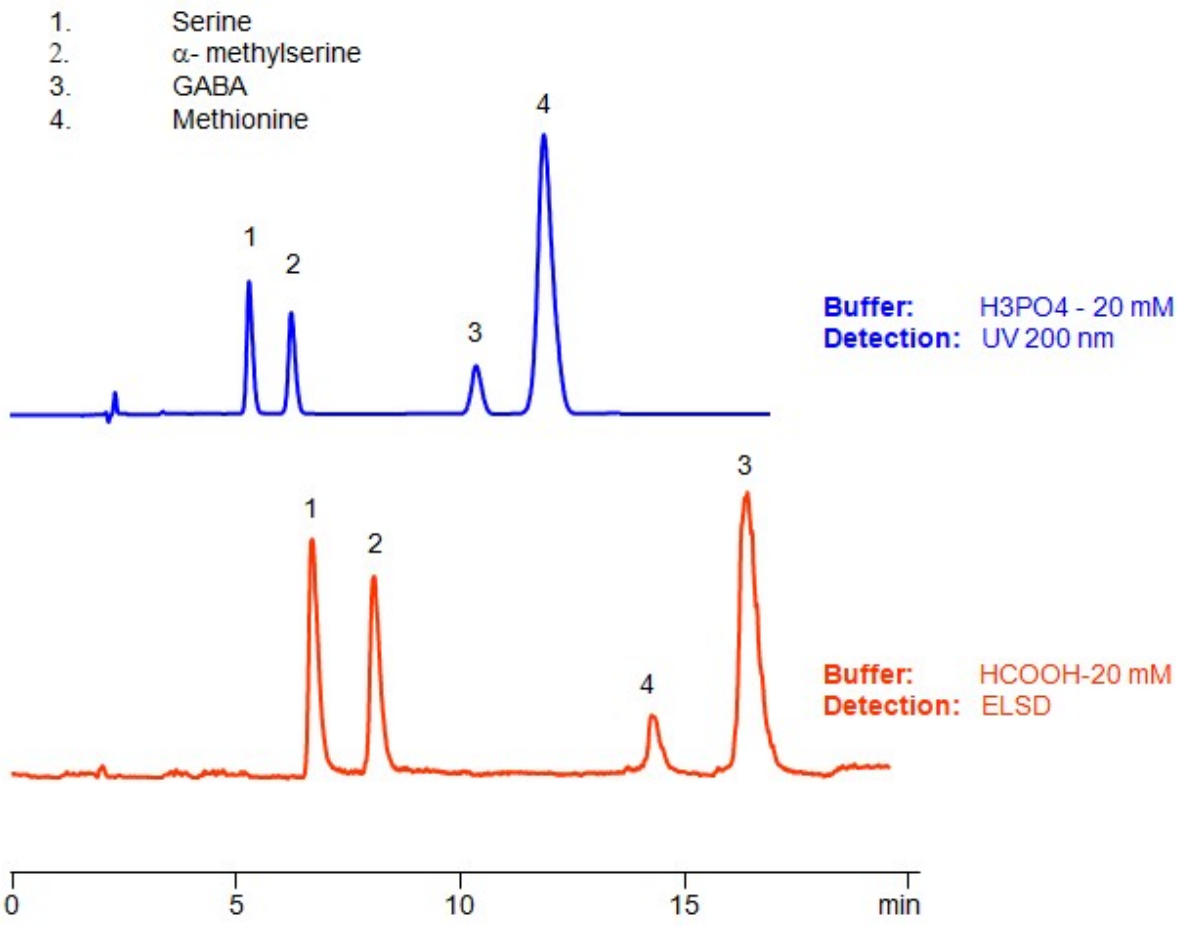
HPLC Method for Separation of Serine, a-Methylserine, GABA, and Methionine Mixture on Primesep 100 column

https://sielc.com/application-hplc-separation-of-serine-a-methylserine-gaba-and-methionine-mixture

Chromatogram



Column:	Primesep 100
Column size:	4.6 × 150 mm, 5 µm
Column part number:	100-46.150.0510
Mobile phase:	MeCN/H_2O – 30/70%
Buffer:	H_3PO_4 or Formic acid
Flow rate:	1.0 mL/min
Detection:	UV 200 nm, ELSD
Column Temp:	30 °C

Description

Four underivatized amino acids (serine, methylserine, GABA and methionine) were separated on a Primesep 100 reversed-phase cation-exchange mixed-mode HPLC column. Two methods, one for UV and one for ELSD/LC/MS show good separation and peak shape for underivatized amino acids. This column and general HPLC approach can be used for analysis of underivatized amino acids. Primesep 100 is designed to replace reversed-phase HPLC column in combination with ion-pairing reagents.

Method Parameters

Mobile Phase	MeCN/H2O
Buffer	H3PO4 or Formic acid
Flow Rate	1.0 ml/min
Detection	UV, 200 nm, ELSD
Class of Compounds	Drug, Acid, Hydrophilic, Ionizable, Vitamin, Supplements, Amino acid
Analyzing Compounds	Serine, Methylserine, GABA, Methionine

HPLC Column Used

Primesep 100, 4.6×250 mm, 5 µm, 100A

Order this column at hplc-shop.de →