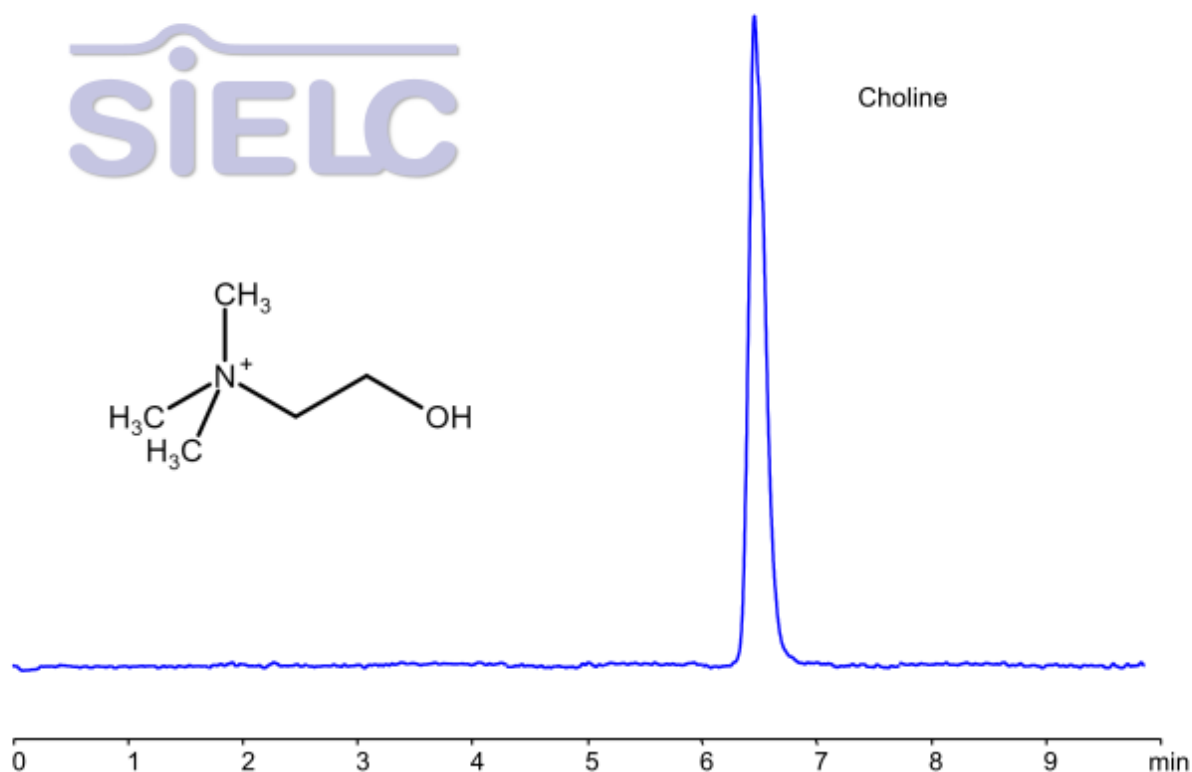


ELSD HPLC Method for Analysis of Choline on Primesep 100 Column

<https://sielc.com/hplc-method-for-analysis-choline-ps100>

Chromatogram



Column:	Primesep 100
Column size:	4.6 × 150 mm, 5 µm
Column part number:	100-46.150.0510
Mobile phase:	MeCN/H ₂ O - 20/80%
Buffer:	TFA - 0.2%
Flow rate	1.0 mL/min
Detection:	ELSD
Concentration:	2 mg/mL
Injection Volume:	5 µL
Diluent:	MeCN/H ₂ O - 50/50%
Limit of Detection:	3 ppm

Description

· HPLC Method for Analysis of Choline on Primesep 100 Column by SIELC Technologies

Choline is an essential nutrient that plays a vital role in many physiological processes in the body. While it is not classified as a vitamin or mineral, it is often grouped with the B-complex vitamins due to its similar functions.

Sources of Choline: Choline can be obtained through diet and is found in a variety of foods: · Rich Sources:

Eggs (especially the yolks) Liver (beef and chicken) Fish (salmon and cod) Soybeans and soy products Moderate Sources:

Broccoli Brussels sprouts Peanuts Whole grains Supplements:

Choline supplements, such as choline bitartrate, phosphatidylcholine, or citicoline, are available for those who may have difficulty getting enough through diet alone.

Method Parameters

Mobile Phase	MeCN 40%
Buffer	Ammonium Formate pH 3.0 – 40 mM
Flow Rate	1 ml/min
Detection	ELSD, the nebulizer and evaporator temperatures 50°C, with a gas flow rate of 1.6 Standard Liters per Minute (SLM)
LOD*	3 ppm
Class of Compounds	Quaternary ammonium compounds (QACs)
Analyzing Compounds	Choline

HPLC Column Used

Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended

[Order this column at hplc-shop.de →](http://hplc-shop.de)