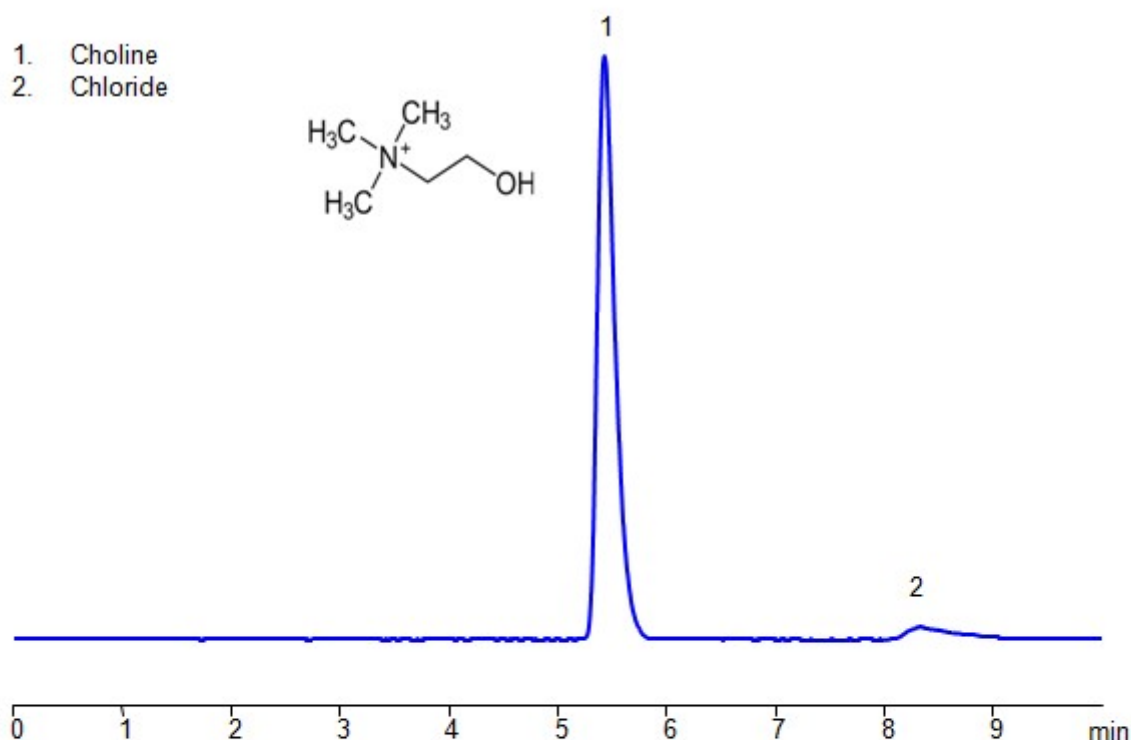


HPLC ELSD Method for Analysis of Choline on Obelisc R Column

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

Chromatogram



Column:	Obelisc R
Column size:	2.1 × 100 mm, 5 µm
Column part number:	OR-21.100.0510
Mobile phase:	MeCN/H ₂ O – 20/80%
Buffer:	Ammonium acetate pH 5.0 – 10 mM
Flow rate:	0.2 mL/min
Sample:	1.0 mg/ml
Injection volume:	1 µl
Detection:	ELSD, the nebulizer and evaporator temperatures 50°C, with a gas flow rate of 1.6 Standard Liters per Minute (SLM)
LOD:	200 ppb

Description

· HPLC Method for Analysis of Choline on Obelisc R Column by SIELC Technologies

Choline is an essential nutrient with the chemical formula C₅H₁₄NO. It plays a crucial role in various physiological processes in the body. It is often grouped with B-vitamins, but it is not officially recognized as a vitamin. Choline serves several important functions, including:

Choline is found in a variety of foods including but not limited to eggs, meat, poultry, and fish, dairy products, nuts and seeds, certain vegetables, such as broccoli and Brussels sprouts

Choline can be retained and analyzed using an Obelisc R mixed-mode stationary phase column. The analysis employs an isocratic method with a simple mobile phase consisting of water, acetonitrile (MeCN), and ammonium acetate as a buffer.

Detection is achieved using ELSD

Method Parameters

Mobile Phase	MeCN/H ₂ O – 20/80%
Buffer	Ammonium acetate pH 5.0 – 10 mM
Flow Rate	0.2 ml/min
Detection	ELSD, the nebulizer and evaporator temperatures 70°C, with a gas flow rate of 1.6 Standard Liters per Minute (SLM)
Samples	1 mg/ml
Injection volume	1 µl
LOD*	200 ppb
Class of Compounds	Quaternary amines
Analyzing Compounds	Choline

HPLC Column Used

Obelisc R, 2.1 x 100 mm, 5 µm, 100 A, dual ended

[Order this column at **hplc-shop.de** →](#)