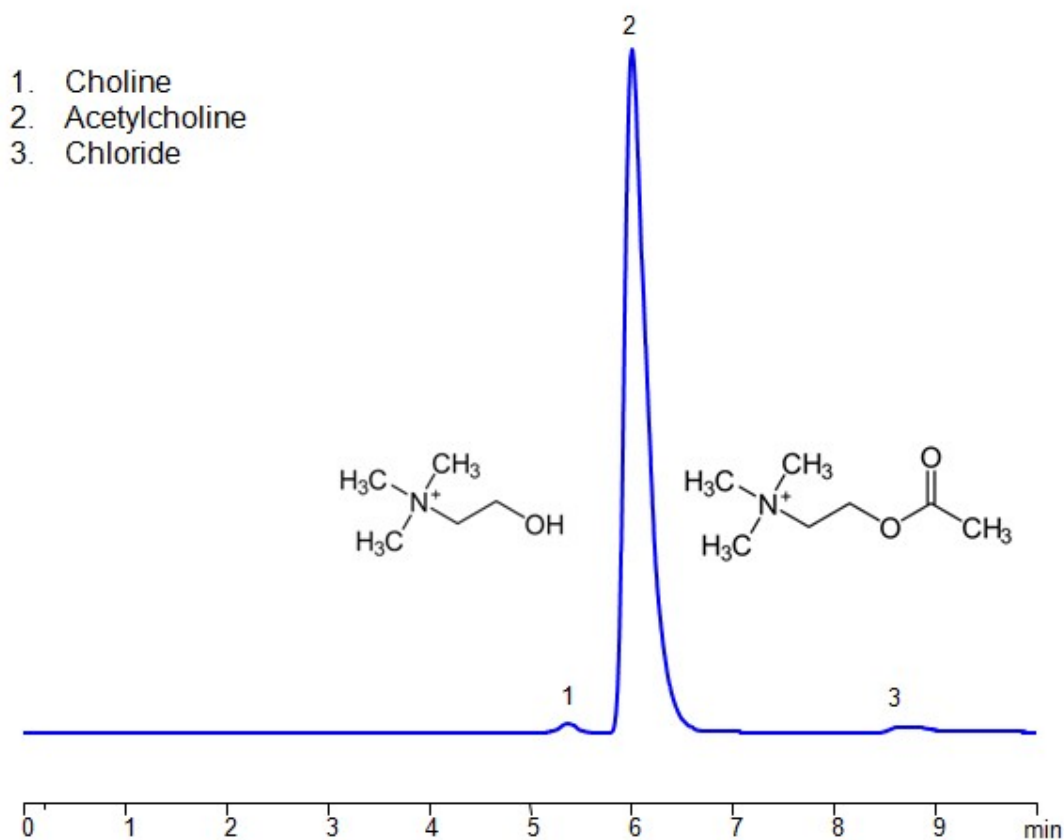


# HPLC ELSD Method for Analysis of Acetylcholine on Obelisc R Column

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

## Chromatogram



<b>Column:</b>	Obelisc R
<b>Column size:</b>	2.1 × 100 mm, 5 µm
<b>Column part number:</b>	OR-21.100.0510
<b>Mobile phase:</b>	MeCN/H <sub>2</sub> O – 10/90%
<b>Buffer:</b>	Ammonium acetate pH 5.0 – 10 mM
<b>Flow rate:</b>	0.2 mL/min
<b>Sample:</b>	5 mg/ml
<b>Injection volume:</b>	1 µl
<b>Detection:</b>	ELSD, the nebulizer and evaporator temperatures 50°C, with a gas flow rate of 1.6 Standard Liters per Minute (SLM)
<b>LOD:</b>	200 ppb

## Description

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

Acetylcholine is a neurotransmitter, which is a chemical messenger that transmits signals across synapses, the gaps between nerve cells or between nerve cells and muscles. It plays a crucial role in the nervous system, both in the central nervous system (CNS) and the peripheral nervous system (PNS).

Here are key points about acetylcholine:

The balance of acetylcholine and other neurotransmitters is essential for proper nervous system function. Imbalances in acetylcholine levels have been implicated in various neurological disorders.

Acetylcholine 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

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<b>Samples</b>	5 mg/ml
<b>Injection volume</b>	1 µl
<b>LOD*</b>	200 ppb
<b>Class of Compounds</b>	Quaternary amines
<b>Analyzing Compounds</b>	Acetylcholine

#### HPLC Column Used

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

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