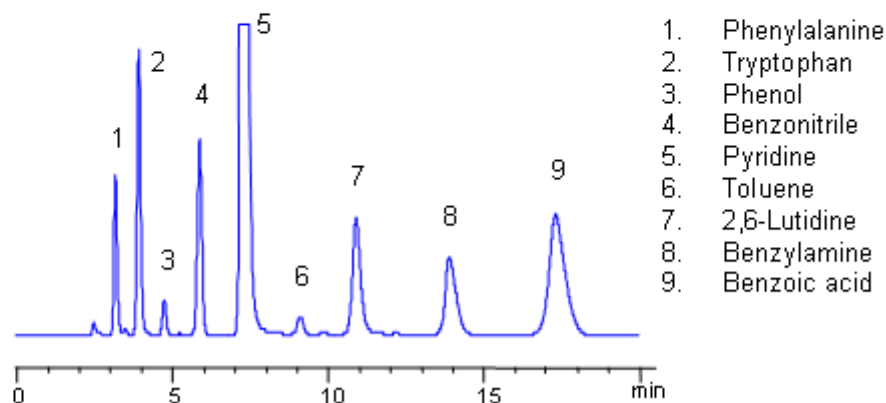


# HPLC Separation of Amino Acids, Bases, Acids, and Neutrals on Obelisc R

<https://sielc.com/Application-HPLC-Separation-of-Amino-Acids-Bases-Acids-and-Neutrals-on-Obelisc-R>

## Chromatogram

**Column:** Obelisc R  
**Size:** 150 x 4.6 mm  
**Mobile phase:** MeCN 35%,  
AmAc 10 mM pH 4.0  
**Flow:** 1.0 mL/min  
**Detection:** UV 250 nm



## Description

Separating basic, acidic and zwitterionic compounds in one run in reverse-phase HPLC can be very challenging. The methods might require the use of ion-pairing reagents and complex gradients that can make MS-compatibility difficult. Obelisc R column which has both positive and negative ion-pairs embedded in the stationary phase allows for fine tuning and separation of a wide range of compounds with different ionic properties. Acids, bases, amino acids and neutral compounds were separated isocratically in one run using a simple MS-compatible mobile phase of acetonitrile (ACN) and water with Ammonium Acetate (AmAc) buffer. Can also be UV detected at 250nm.

## Method Parameters

<b>Mobile Phase</b>	MeCN/H <sub>2</sub> O – 35/65%
<b>Buffer</b>	AmAc 10 mM pH 4.0
<b>Flow Rate</b>	1.0 ml/min
<b>Detection</b>	UV, 250 nm
<b>Class of Compounds</b>	Drug, Acid, Bases, Neutral, Hydrophilic, Ionizable, Vitamin, Supplements, Amino acid
<b>Analyzing Compounds</b>	Amino acids

## HPLC Column Used

**Obelisc R, 4.6x250 mm, 5 µm, 100A**

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