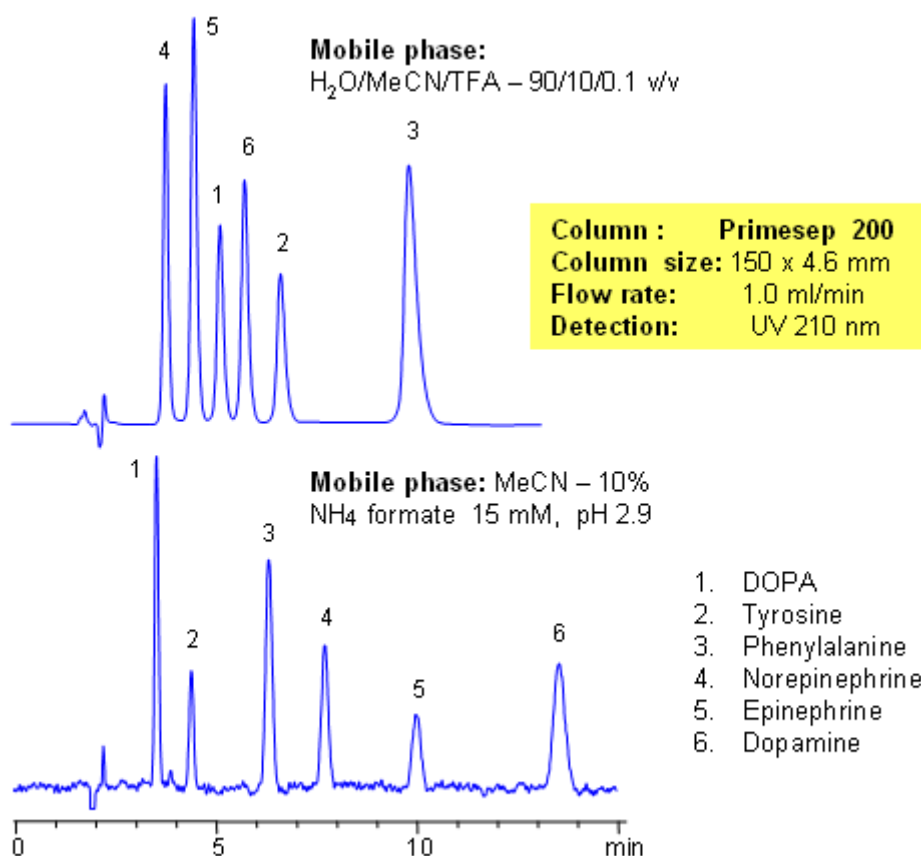


HPLC Separation of Compounds of Catecholamine Pathway

<https://sielc.com/Application-HPLC-Separation-of-Compounds-of-Catecholamine-Pathway>

Chromatogram



Description

The catecholamine neurotransmitters are amino-acid derivatives of tyrosine. DOPA, tyrosine, phenylalanine, norepinephrine, epinephrine, and dopamine and baseline are resolved on a Primesep 200 column with UV-transparent phosphate buffer. This method can be used for the analysis of catecholamines and related impurities in various matrices. The peak order and retention time can be changed by changing the amount of ACN, buffer concentration and buffer pH. Various buffers can be used to accommodate the desired detection technique. Primesep 200 is a reversed-phase cation-exchange mixed-mode column that can be used for analysis of polar neutral, polar ionizable, polar zwitterionic, hydrophobic neutral, and hydrophobic ionic compounds in the same run. Column can be operated in reverse-phase, cation-exchange, anion-exclusion, HILIC and mixed-modes depending on the mobile phase selection and the nature of the analytes. The column is compatible with LC/MS and does not require the use of ion-pairing reagents.

Method Parameters

Mobile Phase	MeCN/H ₂ O
Buffer	TFA, AmFm
Flow Rate	1.0 ml/min
Detection	UV, 210 nm

Class of Compounds

Drug, Acid, Hydrophilic, Ionizable, Hormone

Analyzing Compounds

Tyrosine, DOPA, Phenylalanine, Norepinephrine, Epinephrine, Dopamine

HPLC Column Used**Primesep 200, 4.6×150 mm, 5 µm, 100A**[Order this column at hplc-shop.de →](http://hplc-shop.de)