

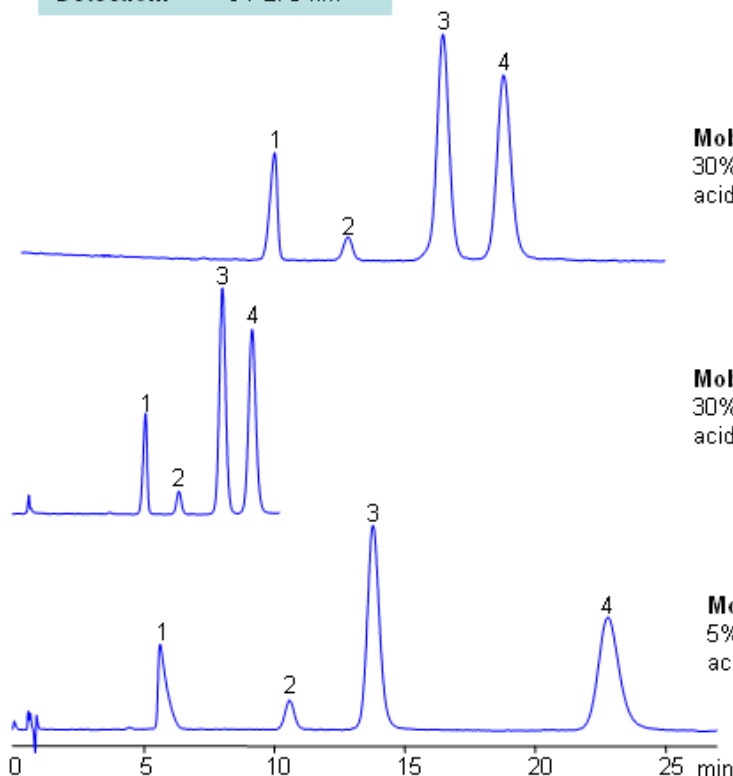
HPLC Separation of Pseudoephedrine, Norephedrine, Phenylephrine, and Norphenylephrine Using Hydrogen Bonding Mode

https://sielc.com/Separation_of_Pseudoephedrine_Norephedrine_Phenylephrine_and_Norphenylephrine

Chromatogram

Column: SHARC 1
Size: 3.2 x 100 mm
Flow: 1.0 mL/min
Detection: UV 270 nm

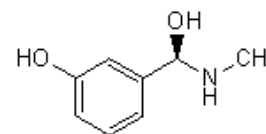
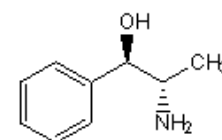
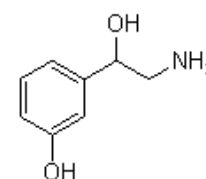
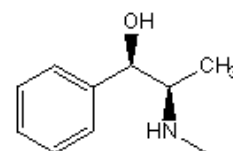
1. Pseudoephedrine
2. Norephedrine
3. Phenylephrine
4. Norphenylephrine



Mobile phase: 70% MeCN,
30% MeOH with 0.25% Formic
acid and 0.025% AmFm

Mobile phase: 70% MeCN,
30% MeOH with 0.5% Formic
acid and 0.05% AmFm

Mobile phase: 95% MeCN,
5% MeOH with 0.5% Formic
acid and 0.05% AmFm



Description

Application Notes : Neurotransmitters are polar basic compounds. Several HPLC techniques are used to analyze these hydrophilic molecules. The most common techniques are reversed-phase with ion-pairing reagents chromatography, ion chromatography, HILIC, and mixed-mode chromatography. SIELC developed a new approach of analysis, which is based on hydrogen bond interactions. Hydrogen-bonding offers unique and alternative selectivity to traditional approaches like reversed-phase, HILIC, ion-exchange, and mixed-mode chromatography. Our methods are fully compatible with ELSD, LC/MS and prep chromatography.

Application Columns : SHARC 1, 3.2x100 mm, 5 μ m, 100A. To learn more about SHARC 1 columns click here . To order this column click here . To see more chromatographic separations check our web site.

Application compounds : Pseudoephedrine, norephedrine, phenylephrine and norphenylephrine · Detection technique : UV, LC/MS

Method Parameters

Mobile Phase

MeCN/MeOH

Buffer

AmFm, Formic acid

Flow Rate	1.0 ml/min
Detection	UV, 270 nm
Class of Compounds	Drug, Acid, Hydrophilic, Ionizable, Vitamin, Supplements
Analyzing Compounds	Pseudoephedrine, Norephedrine, Phenylephrine, Norphenylephrine

HPLC Column Used

Sharc 1, 3.2×100 mm, 5 µm, 100A

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