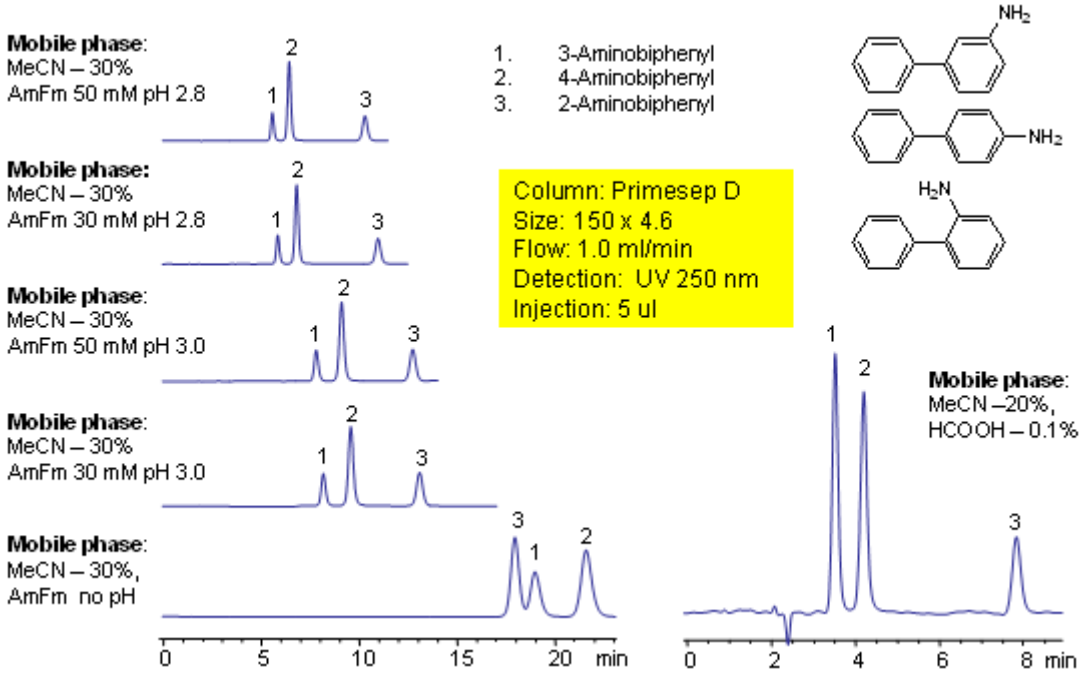
HPLC Separation of Aminobiphenyls

https://sielc.com/Application-HPLC-Separation-of-Aminobiphenyls

Chromatogram



Description

Aminobiphenyls consist of isomers that differ only in the location of a primary amine group on an aromatic ring. 2-, 3-, and 4-aminobiphenyl are separated on a Primesep D with good peak shape and a short retention time by a mixture of reversed-phase and ion-exclusion interactions. Peak order can be reversed for 2- and 3-aminobiphenyls by using ammonium formate buffer without pH adjustment. The HPLC separations use a mobile phase of water, acetonitrile (MeCN, ACN), ammonium formate buffer or acetic acid (HOAc) with UV detection at 250 nm.

Method Parameters

Mobile Phase	MeCN/H2O – 30/70%
Buffer	Formic Acid, AmFm
Flow Rate	1.0 ml/min
Detection	UV, 250 nm
Class of Compounds	Hydrophobic, Ionizable
Analyzing Compounds	2-Aminobiphenyl, 4 -Aminobiphenyl, 3 -Aminobiphenyl

HPLC Column Used

Primesep D, 4.6×150 mm, 5 µm, 100A

Order this column at hplc-shop.de →