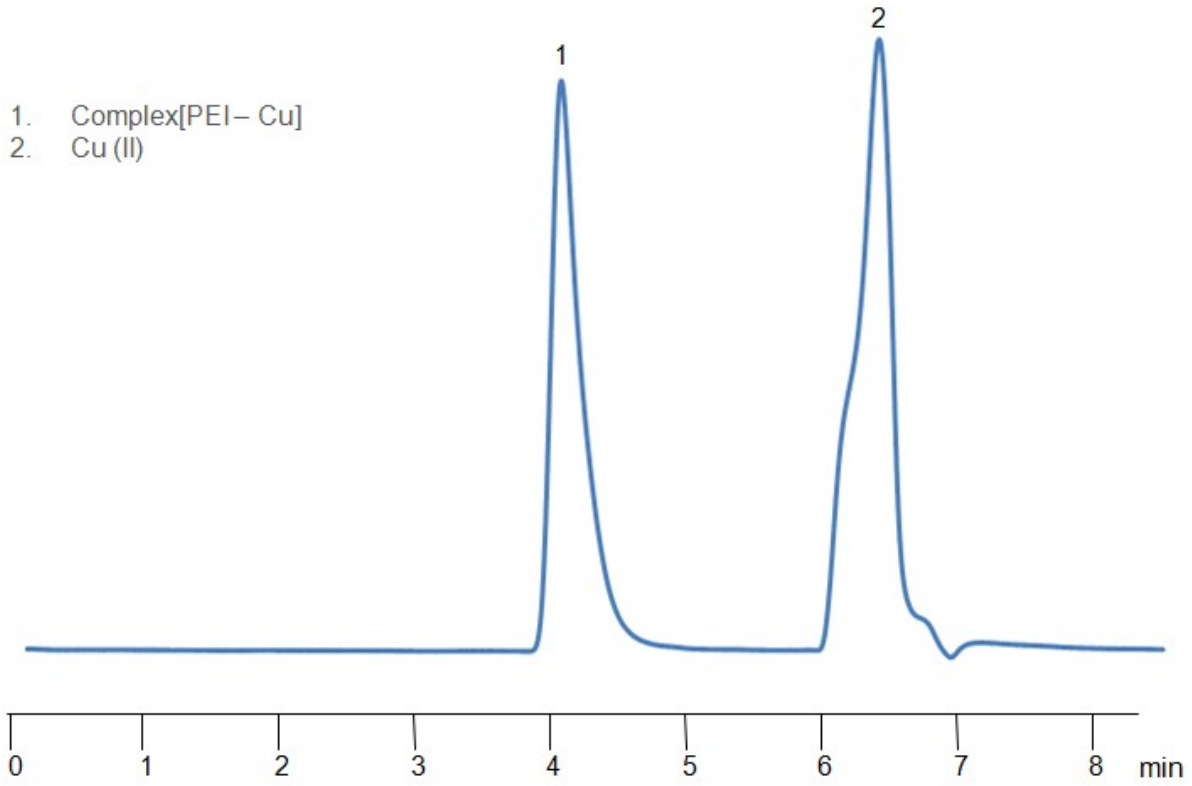
Alltesta HPLC Method for Analysis of Linear PEI + (Cu) on PEI Column

https://sielc.com/alltesta-hplc-determination-of-pei

Chromatogram



Column:	PEI
Column size:	4.6 × 250 mm, 5 µm
Mobile phase:	MeCN/H2O - 40/60%
Buffer:	AmFm pH 3.0 - 20 mM
Flow rate:	0.5 mL/min
UV detection:	275 nm
Injection Volume:	10 µl
Sample:	0.2 mg/ml + 1 mg/ml of CuSO4
Diluent:	H2O

Description

· Separation type: Liquid Chromatography Reversed-phase · HPLC Method for Analysis of Polyethylenimine PEI on PEI Column by SIELC Technologies

Polyethyleneimine (PEI) is a polymer used in a wide range of applications. It is difficult to analyze in HPLC due to several factors. It's a mixture of compounds with different lengths and therefore different number of charges. It also lacks a UV chromophore. New PEI column was designed specifically for the analysis of polyethyleneimine by ion-exclusion and size-exclusion mechanisms with copper complex to allow for UV detection. The method uses a mobile phase of acetonitrile (ACN) and water with ammonium formate buffer (AmFm) and UV detection at 275nm

Method Parameters

Mobile Phase	MeCN/H2O – 40/60%,
Buffer	Ammonium formate pH 3.0 – 20 mM
Flow Rate	0.5 ml/min
Detection	UV 275 nm
Class of Compounds	Polymer, Basic, Hydrophilic, Ionizable
Analyzing Compounds	Polyethylenimine PEI

HPLC Column Used

PEI, 4.6 x 250 mm, 5 µm, 100 A, dual ended

Order this column at hplc-shop.de →