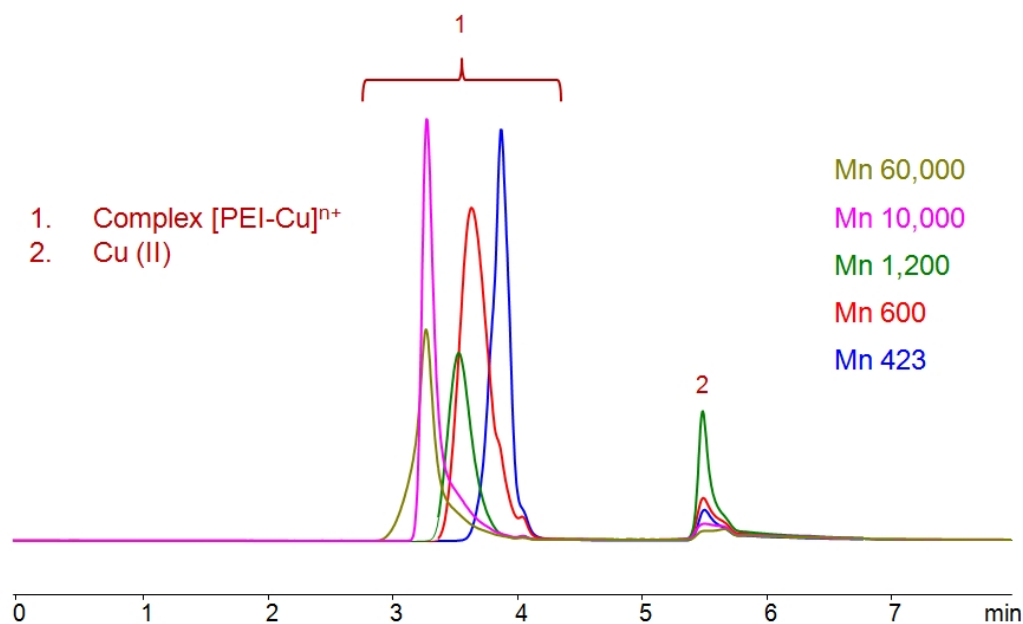


HPLC Determination of PEI complex with Cu(II)

<https://sielc.com/hplc-determination-of-pe-i-complex-with-cu-ii>

Chromatogram



Column:	PEI
Column size:	4.6 × 250 mm, 5 μm
Mobile phase:	MeCN/H ₂ O - 40/60%
Buffer:	AmFm pH 3.0 - 20 mM
Flow rate:	0.5 mL/min
UV detection:	285 nm
Sample:	PEI/CuSO ₄ in H ₂ O

HPLC Determination of PEI complex with Cu(II)_1177

Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Polyethyleneimine PEI .

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 285nm.

MEASURING PEI Polyethyleneimine in biological samples

Method Parameters

Mobile Phase	MeCN/H ₂ O – 40/60%
Buffer	AmFM pH 3.0 – 20 mM
Flow Rate	0.5 ml/min

Detection	UV, 285 nm
Class of Compounds	Polymer, Basic, Hydrophilic, Ionizable
Analyzing Compounds	Polyethylenimine PEI

HPLC Column Used

PEI

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