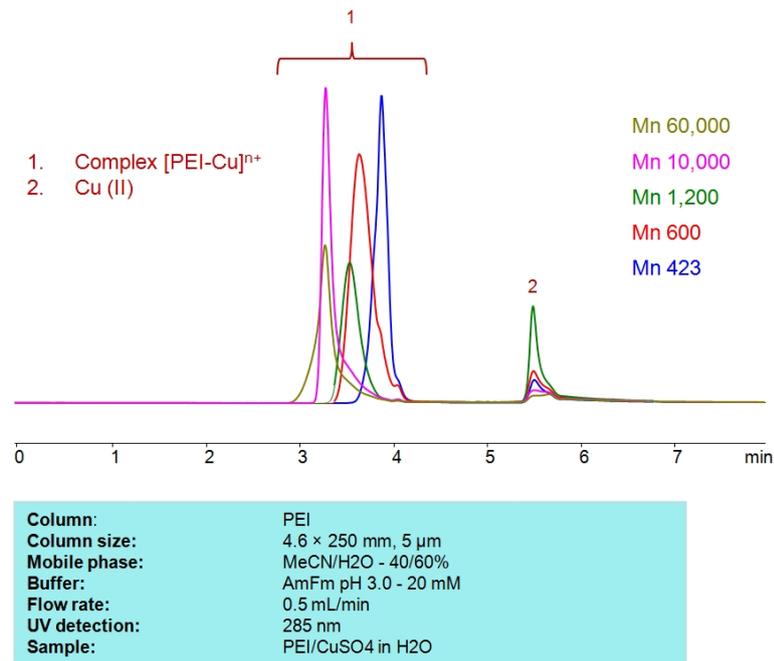


HPLC Determination of PEI complex with Cu(II)



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

Polyethylenimine (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 polyethylenimine 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 285 nm.

MEASURING PEI Polyethylenimine in biological samples

Method Parameters

Column	PEI
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

Quelle: <https://sielc.com/hplc-determination-of-pei-complex-with-cu>