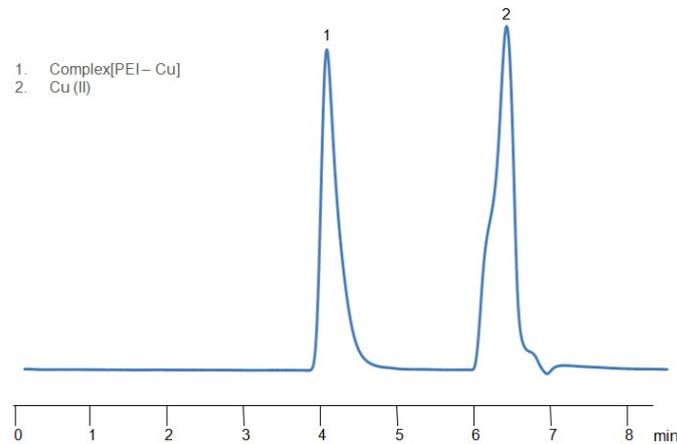


## Alltesta HPLC Method for Analysis of Linear PEI + (Cu) on PEI Column



<b>Column:</b>	PEI
<b>Column size:</b>	4.6 x 250 mm, 5 µm
<b>Mobile phase:</b>	MeCN/H <sub>2</sub> O - 40/60%
<b>Buffer:</b>	AmFm pH 3.0 - 20 mM
<b>Flow rate:</b>	0.5 mL/min
<b>UV detection:</b>	275 nm
<b>Injection Volume:</b>	10 µl
<b>Sample:</b>	0.2 mg/ml + 1 mg/ml of CuSO <sub>4</sub>
<b>Diluent:</b>	H <sub>2</sub> O

Separation type: Liquid Chromatography Reversed-phase

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 275 nm

### Method Parameters

<b>Column</b>	PEI, 4.6 x 250 mm, 5 µm, 100 Å, dual ended
<b>Mobile Phase</b>	MeCN/H <sub>2</sub> O – 40/60%,
<b>Buffer</b>	Ammonium formate pH 3.0 – 20 mM
<b>Flow Rate</b>	0.5 mL/min
<b>Detection</b>	UV 275 nm

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