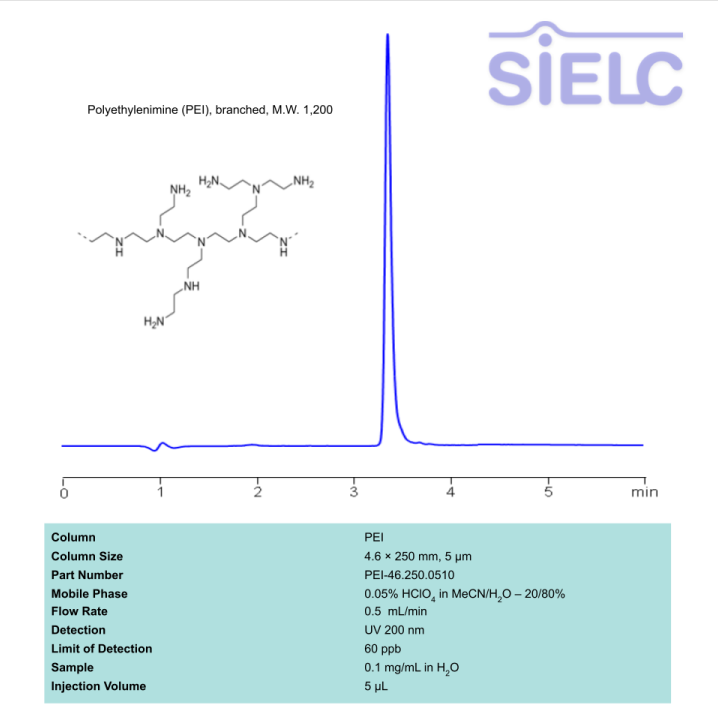
Low-UV Detection HPLC Method for PEI Analysis on PEI Column



Column	PEI
Column Size	4.6 × 250 mm, 5 µm
Part Number	PEI-46.250.0510
Mobile Phase	0.05% $HClO_4$ in MeCN/H_2O – 20/80%
Flow Rate	0.5 mL/min
Detection	UV 200 nm
Limit of Detection	60 ppb
Sample	0.1 mg/mL in H_2O
Injection Volume	5 µL

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

Polyethylenimine (PEI), also known as polyaziridine , is a polymer with the molecular formula (C2H5N) n . It has repeating units of the amine group and carbon aliphatic spacers. PEI has a large variety of uses. Most commonly, it is used in detergents, adhesives, water treatment agents, and cosmetics. Medically, due to being a catatonic polymer, it has been also studied as a gene delivery vehicle with successful outcomes.

Polyethylenimine PEI can be retained and analyzed using the PEI stationary phase column. The analysis utilizes a gradient method with a simple mobile phase consisting of water and acetonitrile (MeCN). Detection is performed using UV.

Method Parameters

Column	PEI, 4.6 x 250 mm, 5 µm, 100 Å, dual ended
Mobile Phase	0.05% HClO4in MeCN/H2O – 20/80%
Flow Rate	0.5 mL/min
Detection	UV 200

Quelle: https://sielc.com/hplc-method-for-analysis-of-myelin-basic-protein-85-99-peptide-antagonist-2

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