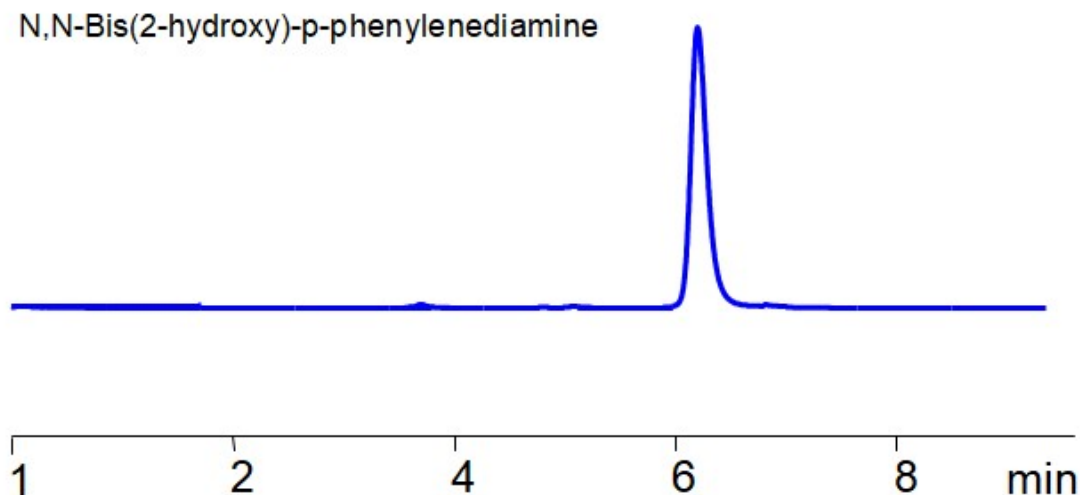


HPLC Method for Analysis of N,N-Bis (2-hydroxy)-p-phenylenediamine on Primesep 100 Column

<https://sielc.com/hplc-method-for-analysis-54381-16-7>

Chromatogram



Column:	Primesep 100
Column size:	4.6 × 150 mm, 5 µm
Column part number:	100-46.150.0510
Mobile phase:	MeCN/H ₂ O – 30/70%
Buffer:	H ₂ SO ₄ - 0.2%
Flow rate:	1.0 mL /min
Detection:	UV 210 nm
Column Temp:	30 °C

Description

HPLC Method for Analysis of N,N-Bis(2-hydroxy)-p-phenylenediamine sulfate on Primesep 100 Column by SIELC Technologies

N,N-Bis(2-hydroxyethyl)-p-phenylenediamine, often abbreviated as N,N-Bis(2-hydroxyethyl)-PPD, is a chemical compound with the chemical formula C₁₀H₁₈N₂O₆S. It is a derivative of p-phenylenediamine (PPD), which is a common ingredient in hair dyes.

N,N-Bis(2-hydroxy)-p-phenylenediamine sulfate can be retained and analyzed using a Primesep 100 mixed-mode stationary phase column. The analysis employs an isocratic method with a simple mobile phase comprising water, acetonitrile (MeCN), and sulfuric acid as a buffer. This method allows for detection using UV at 210 nm.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 30/70%
Buffer	H ₂ SO ₄ -0.2%
Flow Rate	1.0 ml/min
Detection	UV 210 nm
Samples	N,N-Bis(2-hydroxy)-p-phenylenediamine (0.7 mg/mL)
Injection volume	3 µl
Class of Compounds	Aromatic amines
Analyzing Compounds	N,N-Bis(2-hydroxy)-p-phenylenediamine sulfate

HPLC Column Used

Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended

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