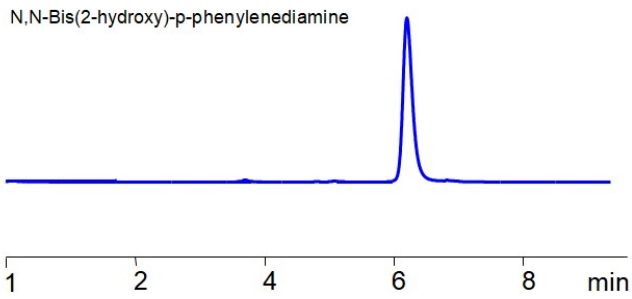
HPLC Method for Analysis of N,N-Bis (2-hydroxy)-p-phenylenediamine on Primesep 100 Column



Column:	Primesep 100
Column size:	4.6 × 150 mm, 5 µm
Column part number:	100-46.150.0510
Mobile phase:	MeCN/H_2O – 30/70%
Buffer:	H_2SO_4 - 0.2%
Flow rate:	1.0 mL /min
Detection:	UV 210 nm
Column Temp:	30 ºC

N,N-Bis(2-hydroxyethyl)-p-phenylenediamine (often abbreviated as N,N-Bis(2-hydroxyethyl)-PPD) is a chemical compound that is a derivative of p-phenylenediamine (PPD), a common ingredient in hair dyes.

The N,N-Bis(2-hydroxyethyl)-p-phenylenediamine 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

Column	Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/H2O – 30/70%
Buffer	H2SO4 -0.2%
Flow Rate	1.0 mL/min
Detection	UV 210 nm
Injection Volume	3 µl

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