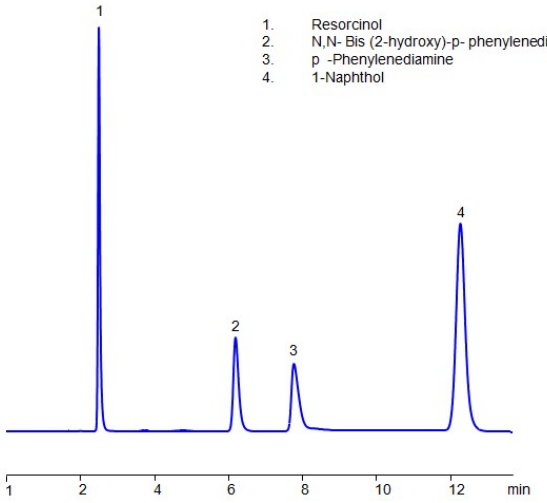
# HPLC Method for Separation of a Mixture of Resorcinol, N,N-Bis (2-hydroxy)-p-phenylenediamine, p-Phenylenediamine and 1-Naphthol on Primesep 100 Column

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|---|---|
| **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:** | 30C |

Resorcinol – a chemical compound with the formula C6H4(OH)2. It is a dihydroxybenzene used in various applications, including the production of resins and as a topical antiseptic.

N,N-Bis(2-hydroxyethyl)p-phenylenediamine – a compound used in the manufacture of hair dyes and related products.

p-Phenylenediamine – commonly known as PPD, it's used in hair dyes and black rubber products.

1-Naphthol – a crystalline compound with the formula C10H7OH. It's used in the synthesis of dyes and perfumes.

All compounds can be retained, separated, 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

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## 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-mixture