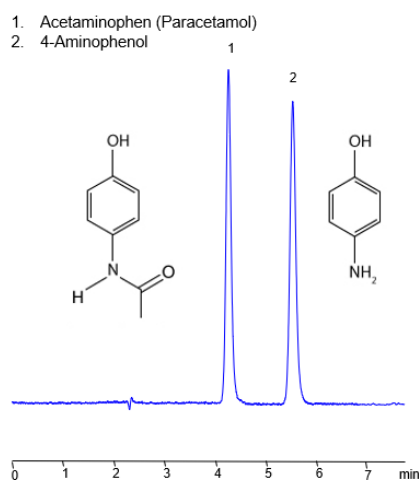


HPLC Method for Separation of Acetaminophen and 4-Aminophenol on Primesep 100 Column



Column: Primesep 100
Column size: 4.6 x 150 mm, 5 µm
Column part number: 100-46.150.0510
Mobile phase: MeCN – 10%
Buffer: H₂SO₄ – 0.2%
Flow rate: 1.0 mL/min
Detection: UV 220 nm

Separation type: Liquid Chromatography Mixed-mode

4-Aminophenol (also known as para-aminophenol or Rodinal) is a popular film developing compound and building block in organic chemistry reactions. Most notably, it is a key compound used in the production of acetaminophen (also known as paracetamol or Tylenol). 4-Aminophenol can be separated, retained, and analyzed on a Primesep 100 mixed-mode stationary phase column using an isocratic analytical method with a simple mobile phase of water, Acetonitrile (MeCN), and an sulfuric acid (H₂SO₄) or perchloric acid (HClO₄) buffer. This analysis method can be detected in the UV regime at 220 nm.

Method Parameters

Column	Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 10%
Buffer	H ₂ SO ₄ – 0.2% or HClO ₄ – 0.2%
Flow Rate	1.0 mL/min
Detection	UV 220 nm

Quelle: <https://sielc.com/hplc-determination-of-4-aminophenol-acetaminophen>