

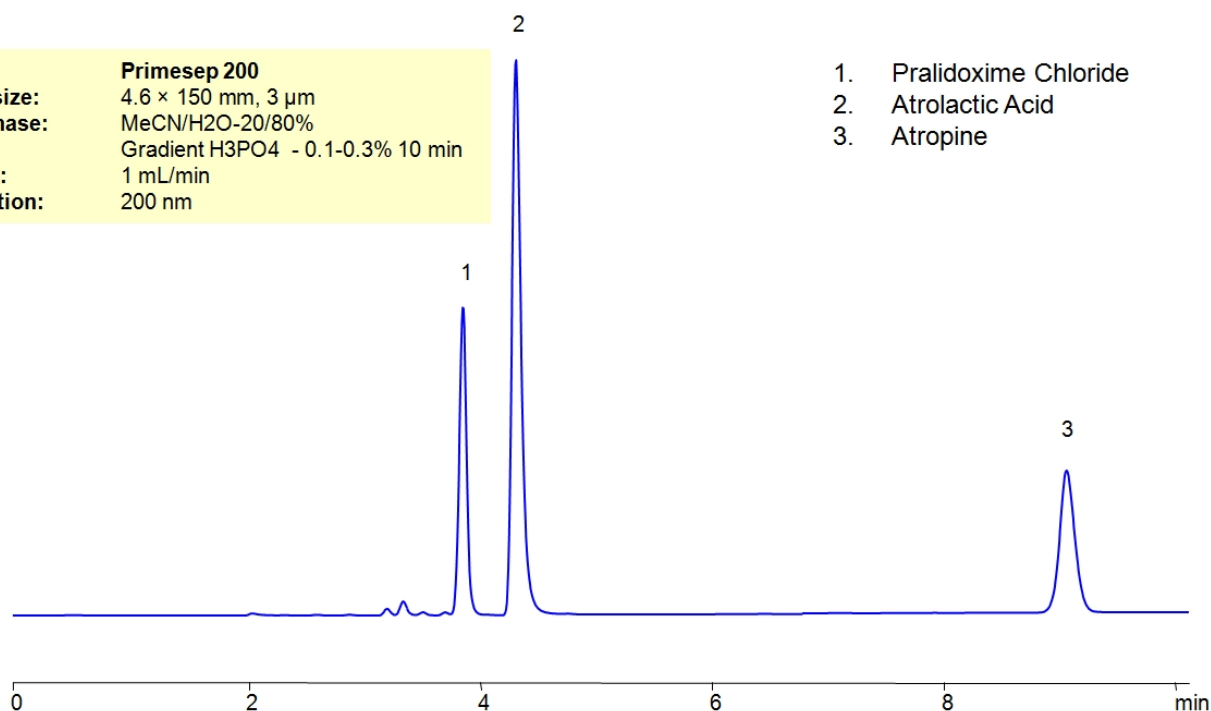
HPLC Separation of Mixture of Atropine, Atrolactic Acid and Pralidoxime Chloride

<https://sielc.com/hplc-separation-of-mixture-of-atropine-atrolactic-acid-and-pralidoxime-chloride>

Chromatogram

Column: Primesep 200
Column size: 4.6 × 150 mm, 3 µm
Mobile phase: MeCN/H₂O-20/80%
Buffer: Gradient H₃PO₄ - 0.1-0.3% 10 min
Flow rate: 1 mL/min
UV detection: 200 nm

1. Pralidoxime Chloride
2. Atrolactic Acid
3. Atropine



Description

High Performance Liquid Chromatography (HPLC) Method for Analysis of Atropine , Atrolactic Acid , Pralidoxime Chloride .

Atropine is a tropane alkaloid with the chemical formula C₁₇H₂₃NO₃ . It is an anticholinergic medication that is used to treat nerve agent, pesticide poisoning, slow heartrate, and is also used to decrease saliva production. Typically, it is administered through injection.

Atrolactic Acid is a 2-hydroxy monocarboxylic acid with the chemical formula C₉ H₁₀ O₃ . It can cause irritation to eyes, skin, and the respiratory system.

Pralidoxime Chloride , also known as 2-PAM, is a cholinesterase reactivator with the chemical formula C₇ H₉ N₂ O₊ . It is used as an antidote for poisoning by organophosphate pesticides and nerve agents.

Atropine , Atrolactic Acid , Pralidoxime Chloride can be retained and analyzed using the Primesep 200 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a [buffer] buffer. Detection is performed using UV.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 20/80%
Buffer	Gradient H ₃ PO ₄ – 0.1-0.3%, 10 min
Flow Rate	1.0 ml/min
Detection	UV, 200 nm

Class of Compounds

Drug, Acid, Base, Hydrophilic, Hydrophobic, Ionizable, Vitamin, Supplements

Analyzing Compounds

Atropine, Atrolactic Acid, Pralidoxime Chloride

HPLC Column Used**Primesep 200, 4.6 x 150 mm, 3 μ m, 100 A, dual ended**[Order this column at hplc-shop.de](http://hplc-shop.de) →