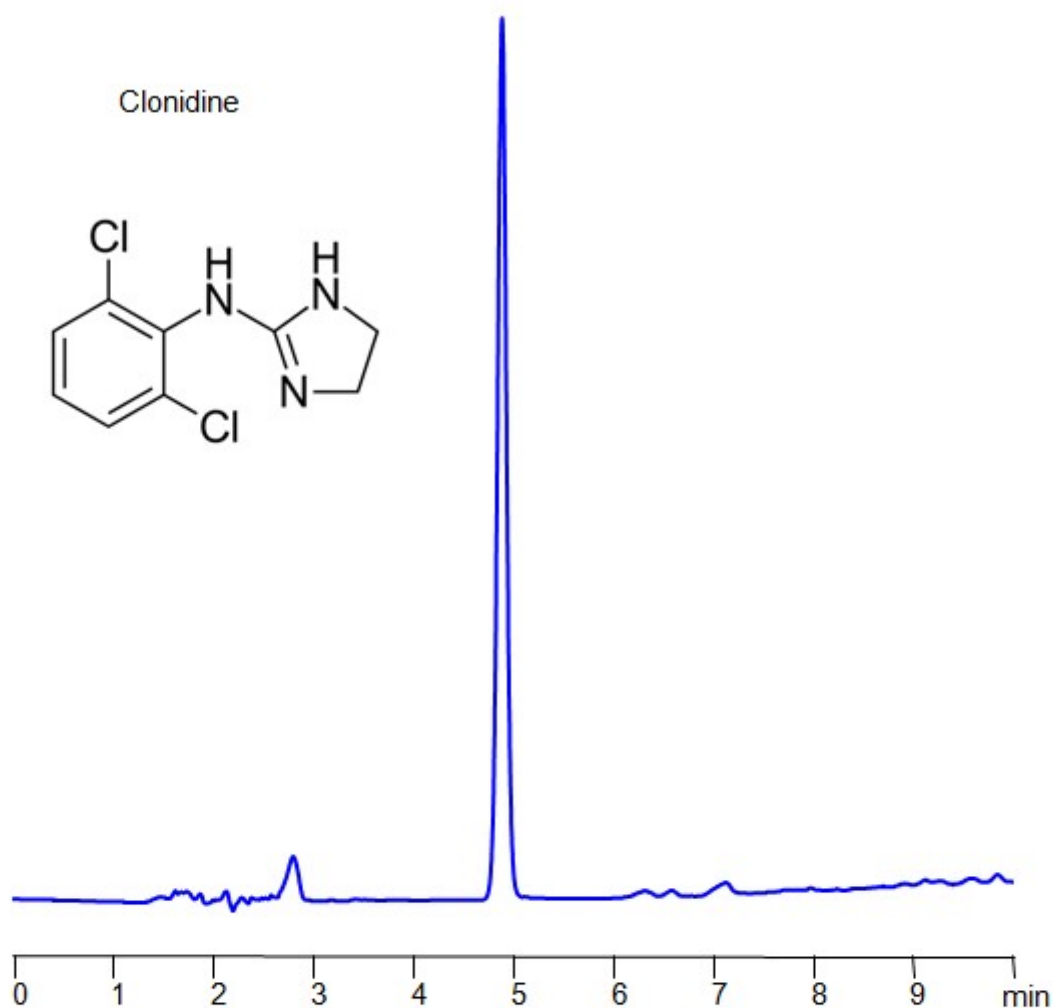


HPLC Method for Analysis of Clonidine on Primesep B Column

<https://sielc.com/hplc-method-for-analysis-clonidine>

Chromatogram



Column:	Primesep B
Column size:	4.6 × 150 mm, 5 µm
Column part number:	B-46.150.0510
Mobile phase:	Gradient MeCN – 40-80%, 10 min
Buffer:	H ₂ SO ₄ - 0.2%
Flow rate:	1.0 mL/min
Sample:	0.05 mg/ml
Injection volume:	10 µl
Detection:	UV 290 nm
LOD:	50 ppb

Description

· HPLC Method for Analysis of Clonidine on Primesep B Column by SIELC Technologies

Clonidine is a medication with the chemical formula $C_9H_9Cl_2N_3$. It is primarily prescribed for the treatment of hypertension, especially in cases where other antihypertensive medications have not been effective or well-tolerated. Clonidine is available in various formulations, including tablets, patches, and oral suspension.

Clonidine can be retained, and analyzed using a Primesep B mixed-mode stationary phase column. The analysis utilizes an gradient method with a simple mobile phase consisting of water, acetonitrile (MeCN), and sulfuric acid as a buffer. Detection is achieved using UV 290 nm

Method Parameters

Mobile Phase	Gradient MeCN/H ₂ O – 40-80%, 10 min
Buffer	H ₂ SO ₄ – 0.2%
Flow Rate	1.0 ml/min
Detection	UV 290 nm
Class of Compounds	Sulfonamides, sulphonamides, loop diuretics
Analyzing Compounds	Clonidine

HPLC Column Used

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

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