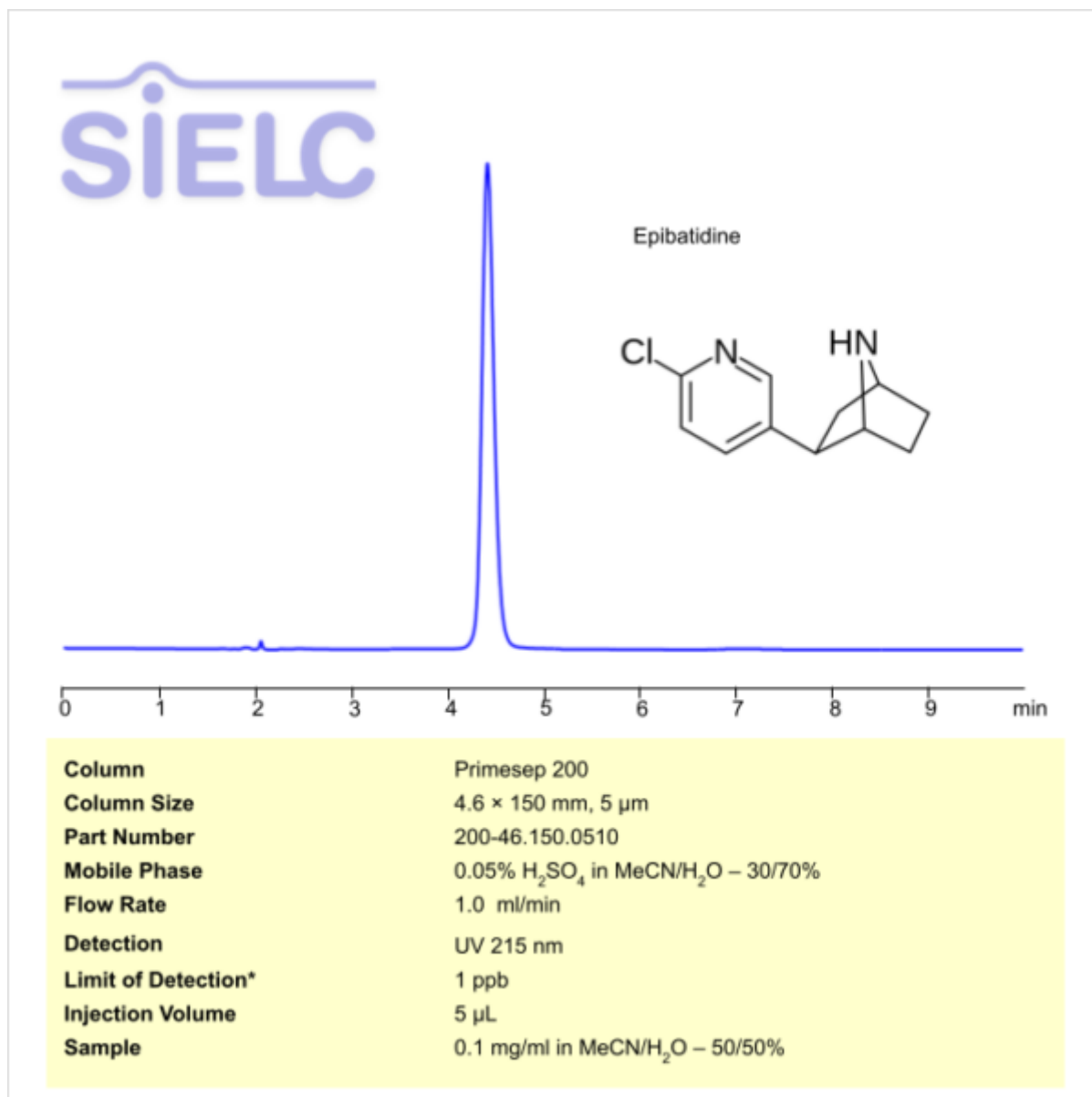


# HPLC Method for Analysis of Epibatidine on Primesep 200 Column

<https://sielc.com/hplc-ms-separation-of-epibatidine>

## Chromatogram



## Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Epibatidine

Epibatidine is an alkaloid with the chemical formula C<sub>11</sub>H<sub>13</sub>ClN<sub>3</sub>. It is secreted by the Ecuadorian frog commonly known as Anthony's Poison Arrow frog from the genus of poison dart frogs, Ameerega. Its existence in nature is still debated due to limited samples that were collected by John W. Daly, and even fewer samples that were still left when high resolution spectrometry was popularized and used on the compound. As a poison, Epibatidine causes full body numbness which can progress into full body paralysis and respiratory arrest. Due to its high toxicity, it is not used as a drug, despite the analgesic effect. You can find detailed UV spectra of Epibatidine and information about its various lambda maxima by visiting the following link.

Epibatidine 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 sulfuric acid buffer. Detection is performed using UV.

## Method Parameters

|                     |                                                                                      |
|---------------------|--------------------------------------------------------------------------------------|
| Mobile Phase        | MeCN/H <sub>2</sub> O – 30/70%                                                       |
| Buffer              | H <sub>2</sub> SO <sub>4</sub> – 0.05%                                               |
| Flow Rate           | 1.0 ml/m                                                                             |
| Detection           | UV 215nm                                                                             |
| Class of Compounds  | Poison, Alkaloid, Pyridine derivative, Azabicyclic compound, Organochlorine compound |
| Analyzing Compounds | Epibatidine                                                                          |

## HPLC Column Used

**Primesep 200, 4.6 x 150 mm, 5 µm, 100 A, dual ended**

[Order this column at hplc-shop.de →](#)